1

# PHILADELPHIA PUBLIC HEARING EPA/NHTSA PROPOSAL STANDARDS FOR GREENHOUSE GASES AND FUEL ECONOMY

JANUARY 19, 2012
PHILADELPHIA, PENNSYLVANIA

TRANSCRIPT OF THE PHILADELPHIA PUBLIC HEARING,

EPA/NHTSA PROPOSAL STANDARDS FOR GREENHOUSE GASES AND

FUEL ECONOMY HEARING, held at the Crowne Plaza

Philadelphia Downtown, 1800 Market Street, Philadelphia,

PA 19103, commencing at 10:00 a.m. on January 19, 2012,

heard before the Government Panel of EPA/NHTSA,

reported by Jennifer P. Miller, Professional Shorthand

Reporter and Notary Public for the Commonwealth

of Pennsylvania.

```
1
                    APPEARANCES
 2
 3
   EPA PANEL MEMBERS:
       Margo Oge
 5
       Chet France
       Stephen Silverman
 8
   NHTSA PANEL MEMBERS:
10
       Ron Medford
11
       Jim Tamm
12
       Rebecca Yoon
13
14
15
16
17
18
19
20
21
22
23
24
25
```

© 2012

```
3
 1
                          INDEX
 2
   OPENING REMARKS
                                             PAGE
             BY MS. Oge
 5
             BY MR. Medford
 6
   TESTIFIER
                                             PAGE
   PANEL 1:
  Kathleen Hennessy
                                             14
10 Hyundai Motor Company
11 Robin Mann
                                             19
12 Sierra Club
                                             26
13 Nancy Homeister
14
   Ford Motor Company
15
   Nancy Seidmen
                                             34
   National Association of Clean Air Agencies
                                             41
17 Norman Zarwin
18 U-Go Stations, Inc.
19 James Thoresen
                                             46
   Truman National Security Project
20
   Greg Vitali
                                             49
21
22
   Pennsylvania House of Representatives
23
24
25
```

```
1
                          I N D E X (cont'd)
 2
 3
   TESTIFIER
                                             PAGE
   PANEL 2:
 6 Walter Tsou
                                             54
  Philadelphia Physicians for Social Responsibility
   Jody Holton
                                             56
   Citizen
 9
10 Gary Oshnock
                                             59
11
   Chrysler Group LLC
12 Kevin Riley
                                             65
  Alexandria Hyundai
13
14 Justin Johnson
                                             72
15
   Vermont Department of Environmental Conservation
                                              79
   Tony Payton
16
   Pennsylvania House of Representatives
18
   Tom Baloga
                                             81
19 BMW North America
20 Kevin Stewart
                                             85
21
   American Lung Association of the Mid-Atlantic
22
23
24
25
```

```
5
 1
                          I N D E X (cont'd)
 2
   TESTIFIER
                                            PAGE
  PANEL 3:
 5 Babette Josephs
                                            93
  Pennsylvania House of Representatives
 7 Mark Cooper
                                            95
  Consumer Federation of America
  Bill Willis
                                            101
10 NADA
11 Kevin O'Shea
                                           108
12 DuPont Company
13 Tom Stricker
                                            115
14
   Toyota Motor North America
15
  Hillary Bright
                                             120
16 Blue Green Alliance
17 Arthur Waskow
                                             124
18 Shalom Center
19 Jillian Hertzberg
                                             129
20 Environment America
21 Dorothea Leicher
                                             134
22 Citizen
23
24
25
```

```
1
                          I N D E X (cont'd)
 2
   TESTIFIER
                                            PAGE
 4 PANEL 3:
 5 Joseph Minot
                                            138
 6 Clean Air Council
 7 Jane Speaker
                                            144
 8 Citizen
 9 Edward Perry
                                            145
10 National Wildlife Federation
11 Julia Rege
                                            149
12 Global Automakers
13 Shalimar Blakely
                                            156
14 Citizen
15 Cheryl Pyrch
                                            157
16 Citizen
                                            160
17 Joe Herman
18 Citizen
19 Adam Kessler
                                            163
20 Jewish Community Relation Council
21
22
23
24
25
```

			7
1		I N D E X (cont'd)	
2	TESTIFIER	PAGE	
3	PANEL 4:		
4	Judith Patton	173	
5	Citizen		
6	Paul Seligson	175	
7	Citizen		
8	Ann Spaeth	180	
9	Citizen		
10	Nick Rogers	183	
11	Citizen		
12	Walter Elling	187	
13	Citizen		
14	David Champion	188	
15	Consumer Reports		
16	Rick Zilmer	193	
17	CNA		
18	Susan Wolf	206	
19	Citizen		
20	Dorsha Turpin	215	
21	Citizen		
22	Alexa Manning	220	
23	Citizen		
24	Brian Shapiro	223	
25	Citizen		

	1	1 0 1 7	
			8
1		I N D E X (cont'd)	
2	PANEL 5:		
3	Bob Pierson	228	
4	Citizen		
5	Giuliana Pierson	231	
6	Citizen		
7	Gili Ronen	232	
8	Citizen		
9	Tom Morris	236	
10	Honeywell		
11	Bryan Crenshaw	243	
12	Citizen		
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

© 2012

		9
1	I N D E X (cont'd)	
2		
3	PANEL 6:	
4	Jim Kliesch	248
5	Union of Concerned Scientists	
6	John Sorrentino	255
7	Citizen	
8	Brendan Flynn	262
9	Citizen	
10	Steven Stern	265
11	Citizen	
12	Nora Nash	269
13	Interfaith Center on Corporate Responsik	oility
14	Fletcher Harper	273
15	Green Faith	
16	David Ross	278
17	Citizen	
18	Katie Feeney	284
19	Clean Air Council	
20	Rachel Arenstein	290
21	National Wildlife Federation	
22	Jim Wyle	292
23	Sierra Club	
24	Jon Gensler	297
25	Citizen	

```
10
 1
                          I N D E X (cont'd)
 2
 3 PANEL 7:
 4 Jeff Hornstein
                                             305
 5 Greater Philadelphia Taxi Association
 6 Nathan Walker
                                             310
 7 First Unitarian Church of Philadelphia
 8 Aislinn Pennicost Farren
                                             313
 9 Citizen
10 Sue Edwards
                                             315
11 Sierra Club
12 Susan Garelik
                                             320
13 Citizen
14 Bob Carey
                                             323
15 Sierra Club
16
17
18
19
20
21
22
23
24
25
```

```
11
 1
                          I N D E X (cont'd)
 2
 3 PANEL 8:
  Katherine Breiner
                                             327
 5 Masterman School
 6 Susanna Erlich
                                             331
 7 Masterman School
 8
   PANEL 9:
10 Mark Macleod
                                             335
11 Environmental Defense Fund
12 Linda Kriger
                                             341
13 Citizen
14 Thomas McKernan
                                             345
15 Citizen
16 Carol Ward
                                             346
17 Citizen
18 William Vanstone
                                             351
19 Citizen
20 JoAnn Seaver
                                             353
21 Citizen
22
23
24
25
```

© 2012

	12
1	EPA/NHTSA PUBLIC HEARING
2	PHILADELPHIA, PENNSYLVANIA
3	THURSDAY, JANUARY 19, 2012
4	10:00 a.m 5:00 p.m.
5	
6	PROCEEDINGS
7	
8	MS. OGE: Good morning. I'd like to
9	welcome you to this public hearing in Philadelphia
10	today.
11	My name is Margo Oge. I'm the Director of
12	the Office of Transportation and Air Quality with
13	the Environmental Protection Agency.
14	With me is my colleague, Ron Medford, on my
15	left, from NHTSA. And Ron and I are going to be
16	the presiding officers for the hearing today.
17	I understand that we have over 250 people, 250
18	underlined people, that have signed up to testify
19	today.
20	And I want to let you know we just came back
21	from our first public hearing in Detroit. We had
22	over 90 people.
23	Today's participation is extraordinary. So we
24	want to thank the individuals, the representatives
25	from the various organizations that have taken the

	Capital Reporting Company
	13
1	EPA/NHTSA PUBLIC HEARING
2	time to come and participate in this very important
3	process.
4	Today, we will be hearing testimony on a
5	proposal to establish greenhouse gas emissions and
6	fuel economy standards for light-duty vehicles for
7	model years 2017 through 2025.
8	The proposed standards issued last November
9	will exceed 163 grams per mile of CO2 equivalent,
10	which is equivalent to 54.5 miles per gallon if the
11	vehicles were to meet this level all by using fuel
12	economy improvements.
13	This program is projected to save about four
14	billion barrels of oil and two billion metric tons
15	of greenhouse gas emissions over the lifetime of
16	vehicles sold for the years 2017 through 2025.
17	Higher cost of new vehicle technology will add
18	on an average about \$2,000 for consumers who will
19	be buying a new vehicle in 2025. However, this
20	consumers will save an average of \$6,600 in fuel
21	savings for a net lifetime saving of 4,400.
22	And here we are assuming that the gasoline
23	prices will be approximately at the same level that
24	they are now in the 2025 time frame.

The proposal builds on the success of the

25

	<u>-</u>	14
1	EPA/NHTSA PUBLIC HEARING	
2	first national program for model years 2012 to	
3	2016. Those standards were finalized in April of	
4	2010.	
5	So continuing the national program would	
6	ensure that all manufacturers can continue building	
7	a single fleet of vehicles that would satisfy	
8	requirements of both the federal agencies and as	
9	well as the State of California programs.	
10	President Obama announced support for	
11	continuing the national program last July, and the	
12	EPA notice of intent outlining our plans for a	
13	proposal. That's the proposal that we're receiving	
14	oral and comments today.	
15	The State of California and 13 auto	
16	manufacturers representing over 90 percent of the	
17	year's vehicles sold provided letters of support for	
18	the program, as well as the United Auto Workers and	
19	many non-governmental organizations also supported	
20	the announcement.	
21	The program covers a wide range of light-duty	
22	vehicles, including cars, light pickup trucks, SUVs	
23	and minivans. They have designed the proposed	
24	standards to preserve consumer choice.	
25	That is, the proposed standards should not	

15 1 EPA/NHTSA PUBLIC HEARING 2 affect consumer opportunity to purchase the size of 3 the vehicle with the performance, utility, and safety features that meet their needs. This is because the standards are factored in 5 such a way not to create incentives to manufacture 7 vehicles of any particular size. For example, there's not an incentive to downsize. 9 Today's hearing allows interested parties to 10 provide comments. And the proposal, as I mention 11 earlier, this is the second public hearing. 12 first public hearing was last Tuesday in Detroit. 13 And on January 24th, we're going have a third 14 and last hearing in San Francisco. 15 In addition, there is written comment period 16 that will remain open until February 13th. 17 The comment period originally was scheduled 18 to end on January 30th, and we recently extended 19 it to provide additional time for public comments. 20 We also expect to take final action on this 21 proposal in the late summer of this year. 22 Now, I would like to introduce my colleagues 23 that are representing EPA with me on the Panel 24 today. 25 On my right is Chet France. He's the Director

16 1 EPA/NHTSA PUBLIC HEARING 2 of the Assessment and Standards Division. And Steven Silverman on his right, he's with our 3 office of General Counsel. At this time I'd like to turn it over to my 5 colleague, Ron Medford, who is going to give his 7 introductory remarks and also to introduce his team. Ron. 9 10 MR. MEDFORD: Thank you, Margo. 11 Good morning, everyone. As Margo indicated, 12 I'm Ron Medford. I'm the Deputy Administrator at 13 the National Highway Traffic Safety Administration. 14 On behalf of my agency and the Department of 15 Transportation, I'd like to thank you for taking 16 time out today of your busy schedules to 17 participate and express your views on the proposed 18 fuel economy and greenhouse gas emission 19 regulations. 20 I first would like to introduce the Panel 21 Members from NHTSA who are seated to my left. 22 First, Jim Tamm, the Chief of the Fuel Economy 23 Division. And then to his left, Rebecca Yoon, 24 Attorney Advisor in our Office of Chief Counsel. 25 Today's hearing provides an opportunity for

	17
1	EPA/NHTSA PUBLIC HEARING
2	the public to present oral comments regarding the
3	agencies' proposed 2017 and later model year
4	light-duty vehicle greenhouse gas and corporate
5	average fuel economy standards.
6	On November 16th, EPA and NHTSA issued several
7	joint agency documents related to the proposed
8	rulemaking. They included a preamble, two
9	preliminary regulatory impact analysis documents,
10	one from each agency, and a technical support
11	document.
12	These documents described the proposed
13	regulations and the supporting information and
14	analysis related to the proposal.
15	In addition, NHTSA issued a draft
16	environmental impact statement for the proposed
17	fuel economy regulations.
18	The draft EIS compares environmental impacts
19	of proposed fuel economy regulations to those of
20	the regulatory alternatives.
21	Today's hearing provides an opportunity for
22	the public to comment on both the proposed
23	regulation and also the draft EIS.
24	The written comment period for the draft EIS
25	will close on January 31st, and the written comment

18 1 EPA/NHTSA PUBLIC HEARING period for the NPRM, as Margo noted, is now 2 3 extended to February the 13th. Today's hearing is scheduled to run until 5 about 9:30 p.m., though we will be here as long it will take to have an opportunity for everyone to 7 express their views and to testify. We will be using Panels to speed up the 9 process. The list of preregistered Panel Members 10 and their order is provided with the agenda at the 11 reception table. 12 We request that each person keep their 13 testimony to five minutes or less. And we will 14 have a timer. And you'll hear a little beep go off 15 at five minutes. And when that happens, please conclude your remarks. If not, we will remind you. 16 17 If anyone here wishing to testify has not 18 already signed up, please do so at the reception 19 table. Whether or not you testify, we would like 20 everyone attending today's hearing to please sign 2.1 in. 22 We plan to go straight through the Panels, 23 except we may call for one or two breaks during the 24 day. 25 After today the official record of this

	1	9
1	EPA/NHTSA PUBLIC HEARING	
2	hearing will be kept open 30 days for any	
3	speaker wishing to submit rebuttals or make any	
4	corrections to their remarks for the record.	
5	If you'd like have a transcript of today's	
6	proceedings, you should make arrangements directly	
7	with the Court Reporter or the registration table	
8	during one of the breaks.	
9	We will also make the transcripts available on	
10	our Web site and in the public docket for the	
11	rulemaking.	
12	This hearing will be conducted informally, and	
13	formal Rules of Evidence will not apply.	
14	The presiding officers, however, are authorized	
15	to strike statements from the record which are	
16	deemed to be irrelevant or needlessly repetitious	
17	and to enforce reasonable limits on the duration of	
18	the statements of any witness.	
19	Before we bring up the first Panel, I want to	
20	ask that each Panelist please state his or her name	
21	and affiliation. And please speak slowly and	
22	clearly so our Court Reporter can record these	
23	proceedings.	
24	If your comments are directed to NHTSA's	
25	draft EIS, we request you mention that before you	

	20	Э
1	EPA/NHTSA PUBLIC HEARING	
2	begin your comments.	
3	There's no need to identify your comments are	
4	directed at the proposal. We will assume all	
5	comments are directed to the NPRM, unless you state	
6	that they're directed to the EIS.	
7	When the witnesses on the Panel have finished	
8	their presentations, the Government Panel will have	
9	an opportunity to ask questions related to the	
10	testimony.	
11	Witnesses are reminded that any false	
12	statements or false responses to questions may be a	
13	violation of law.	
14	So I think we're ready to begin and call up	
15	the first Panel. We would like the first Panel to	
16	come up and get started.	
17	Write your names on the cards that are there.	
18	This will assist the recorder in knowing who is	
19	speaking and then we will begin.	
20	So, Panel One, please.	
21	Kathleen, as soon as you are ready, you can	
22	begin. Kathleen Hennessy.	
23	MS. HENNESSY: Good morning, my name is	
24	Kathleen Hennessy, and I am the Vice President of	
25	Government Affairs of Hyundai Motor Company.	

2.1 1 EPA/NHTSA PUBLIC HEARING It is a pleasure to be here to provide our 2 perspective on this very important rulemaking. 3 We appreciate the significant effort on the part of all of the agencies in this difficult task 5 of developing feasible and harmonized national 7 greenhouse gas and corporate average fuel economy standards. 9 Before discussing the proposal, I would like 10 to take a few moments to talk about Hyundai's 11 thoughts on fueling efficiency and our efforts in 12 this area. Hyundai is one of the industry's most 13 14 fuel-efficient auto makers. We are on track 15 this year to surplus the government's industry 16 fuel economy target of 35.5 miles per gallon 17 for the 2016 model year. 18 Currently, four Hyundai models, the Sonata 19 Hybrid, the Elantra, the Veloster and the Accent, 20 achieve EPA highway fuel economy ratings of 21 40 miles per gallon. 22 We are the only auto maker that provides 23 fleet-wide fuel economy performance in our release 24 of monthly sales figures. 25 These 40 miles per gallon models

		22
1	EPA/NHTSA PUBLIC HEARING	
2	account for one-third of our U.S. sales in 2011.	
3	In 2010, we publicly pledged to reach 50 plus	
4	miles per gallon for our fleet by 2025.	
5	In our discussions with the agencies on this	
6	rulemaking, we have consistently supported the	
7	standard in excess of 50 miles per gallon.	
8	We continue to support the agencies in this	
9	rulemaking. We believe that it's the right thing	
10	to do for the environment and for the nation's	
11	energy security.	
12	Hyundai supports many of the flexibilities and	
13	credits provided for in the proposal. We support	
14	the credit and banking provisions and continued	
15	application of off-cycle credits for technology	
16	whose benefits cannot be accounted for on the city	
17	and highway test cycles.	
18	Hyundai believes that off-cycle technology is	
19	an area that is ripe for innovation, and can	
20	provide important gains in real world fuel economy	
21	and greenhouse gas reductions.	
22	Now that the agencies have quantified the	
23	value of off-cycle technologies in a menu format,	
24	Hyundai asks that EPA and NHTSA allow the menu	
25	technologies to be used in the 2012 through 2016	

2.3 1 EPA/NHTSA PUBLIC HEARING 2 model years. 3 We recommend also that the agencies eliminate the ten-gram cap on the menu technology. 5 EPA planned the cap because the menu technology credits are based on limited data. 7 However, Hyundai agrees with the agency that the credits offered are conservative and thus a cap is not necessary. 10 Hyundai also appreciates that there are a 11 number of flexibilities in the proposal that 12 address OEM's different strategies for creating 13 fuel-efficient fleets. 14 For example, some OEMs are focusing resources 15 on electric vehicles, and they are receiving credit 16 multipliers for expanding that technology. Others are improving the fuel efficiency of 17 18 cargo-carrying larger pickup trucks, and the agency 19 is providing incentives to provide that technology. 20 Some OEMs plan to focus on fuel efficiency 21 leadership with gasoline vehicles. And CARB is 22 proposing to allow OEMs to offset part of the zero 23 emission mandates for limited time by overcomplying 24 with these challenging greenhouse gas standards. 25 We appreciate the government's recognition of

	24
1	EPA/NHTSA PUBLIC HEARING
2	these varying OEM strategies by providing a variety
3	of incentives to maximize performance in each area.
4	Finally, Hyundai appreciates the substantial
5	lead time for these regulations that will provide
6	stability for long-term product planning.
7	Although we believe the proposed requirements
8	are feasible, Hyundai recognizes that it is
9	difficult to accurately predict out to the 2025
10	time frame the technologies and the cost and
11	consumer acceptance of these technologies that
12	will be necessary.
13	The mid-term review will help ensure that the
14	requirements are sound closer to the time of
15	implementation.
16	This concludes my remarks. Hyundai will be
17	submitting written comments to the docket on
18	additional aspects of the proposal.
19	Thank you for the opportunity to comment
20	today.
21	MR. MEDFORD: Thank you.
22	Robin Mann.
23	MS. MANN: Thank you for holding this
24	hearing today. I'm Robin Mann. I serve as
25	President of the Sierra Club, the nation's oldest

2	25
EPA/NHTSA PUBLIC HEARING	
and largest environmental organization, grass roots	
environmental organization.	
The board of directors of our volunteer-led	
organization oversees all of Sierra Club's national	
campaigns including our campaign to move the nation	
beyond oil.	
I speak today on behalf of the club's one	
point four million members and supporters. And	
I'm proud that a number of our members are here	
today and will also testify.	
Our executive director Michael Brune will be	
testifying in San Francisco, and our organization	
will submit detailed technical comments to the	
docket.	
We strongly support EPA and NHTSA's proposed	
passenger vehicle efficiency and emission standards	
for 2017 through 2025.	
They will ensure that we build on the progress	
the administration set in motion with the 2012 and	
2016 standards.	
Nearly every day bone-chilling news circulates	
of additional evidence that we are cooking the	
planet and climate destruction has already begun:	
Extreme weather events occurring more frequently,	
	and largest environmental organization, grass roots environmental organization.  The board of directors of our volunteer-led organization oversees all of Sierra Club's national campaigns including our campaign to move the nation beyond oil.  I speak today on behalf of the club's one point four million members and supporters. And I'm proud that a number of our members are here today and will also testify.  Our executive director Michael Brune will be testifying in San Francisco, and our organization will submit detailed technical comments to the docket.  We strongly support EPA and NHTSA's proposed passenger vehicle efficiency and emission standards for 2017 through 2025.  They will ensure that we build on the progress the administration set in motion with the 2012 and 2016 standards.  Nearly every day bone-chilling news circulates of additional evidence that we are cooking the planet and climate destruction has already begun:

2.6 1 EPA/NHTSA PUBLIC HEARING 2 drought-induced wildfires and crop failures, devastating flooding of coastal communities from sea level rise, destructions in critical habitat, migratory patterns and food chains. 5 Some of this week's scariest news came from the Arctic where sea ice is melting at 7 unexpectedly alarming rates allowing the release of giant methane plumes. 10 The planet is screaming and the time has come 11 from us to stop turning a deaf ear to it. 12 The arguments in favor of the proposed new 13 standards are beyond compelling. The technology 14 exists to reach the new standards. 15 It should not be reserved for higher-end consumers on the margin. It should be mainstreamed 16 17 so that all consumers can take advantage of the 18 fuel savings. Saving gas saves money, money 19 consumers can put to better use. 20 The economy. These new standards are a life 2.1 line for American car manufacturing. The economic 22 boost the new standards will provide is projected 23 at 484,000 jobs created economy-wide and 43,000 in 24 the auto industry alone. 25 National security. The U.S. presidents

	Capital Reporting Company
	27
1	EPA/NHTSA PUBLIC HEARING
2	going back to President Nixon have recognized that
3	our oil addiction undermines our security. And
4	president after president has committed to reducing
5	our dependence on oil.
6	March 30, 2011, we welcomed President Obama's
7	commitment to cut oil imports by one-third over the
8	next decade.
9	We recognize these standards can help make
10	this president the one that keeps the promise.
11	It is estimated the standards will reduce U.S.
12	oil consumption by one point five million barrels
13	per day in 2030, the same amount we imported from
14	Saudi Arabia and Iraq combined in 2010.
15	Extreme oil. Look no further than the gulf.
16	The nation's attention may have shifted away, but
17	the Deepwater Horizon disaster continues to unfold.
18	Economic dislocation persists in the coastal
19	communities and we have not made them whole. And
20	tar balls continue to wash up on shore as a
21	reminder that the extent of the long-term eco
22	system damage is still unknown.
23	Yet the oil companies have the hubris to be
24	pressing the administration hard to open up the

pristine and treacherous waters of Alaska's deep

25

	Capital Reporting Company
	2
1	EPA/NHTSA PUBLIC HEARING
2	sea to drilling.
3	And then there is tar sands oil, the dirtiest
4	oil on the planet, destructive enough to be seen
5	from outer space.
6	Let me take a moment here to express our
7	thanks to the president for his very significant
8	decision announced yesterday to reject the permit
9	for Keystone XL pipeline. This was the right
10	decision consistent with steering the nation
11	towards solutions that reduce our dependence on
12	oil, especially the dirtiest oil.
13	Public health. The public health benefits
14	from spewing less fossil fuel pollution into our
15	neighborhoods and shifting the fleet to the
16	cleaner, more efficient cars will be enormous.
17	And finally, climate change. These standards
18	promise a tremendous benefit in reduced greenhouse
19	gas emissions. There is so much more we need to do
20	in this country to reduce our gluttonous use of
21	energy and the associated emissions.
22	Within the transportation sector alone the
23	opportunities are immense. But the single biggest
24	step that we can take is the one the administration

step that we can take is the one the administration has proposed here. Implementing these standards

© 2012

25

	29
1	EPA/NHTSA PUBLIC HEARING
2	will keep an estimated 280 million metric tons of
3	carbon dioxide out of the air in 2025, equivalent
4	to shutting down 72 coal-fired power plants for a
5	year.
6	Let me recognize that my state of Pennsylvania
7	is one of the dozen states that adopted
8	California's leading vehicle emissions standards.
9	In joining California's program, Pennsylvania
10	demonstrated that Americans demand cleaner cars,
11	including cars that spew out less greenhouse gases.
12	We applaud California and the role it played
13	with EPA and NHTSA in proposing these new standards
14	that continue to cut greenhouse gas emissions.
15	The time is up. It is a national disgrace
16	brought to us by the oil lobby that we have
17	squandered so much time and opportunity to
18	embrace such common sense solutions as maximizing
19	fuel efficiency and cutting emissions.
20	We thank the administration for stepping up
21	and putting forward these strong new standards that
22	offer such fundamental economic, national security,
23	public health and climate stabilizing benefits.
24	We urge that these standards remain strong,
25	and urge that the agencies issue a final rule in

		30
1	EPA/NHTSA PUBLIC HEARING	
2	July.	
3	Thank you very much.	
4	MR. MEDFORD: Thank you very much.	
5	Nancy Homeister.	
6	MS. HOMEISTER: Good morning. I'm Nancy	
7	Homeister, Manager of Fuel Economy and Greenhouse	
8	Gas Regulatory Strategy for the Environment and	
9	Engineering Division of Ford Motor Company.	
10	It is a pleasure to be here today to provide	
11	our perspective on this very important rulemaking.	
12	Just over two years ago, we were sitting in	
13	the same position commenting on the first	
14	nationally-harmonized greenhouse gas and fuel	
15	economy regulation, and encouraging at that time	
16	the continuation of harmonized requirements beyond	
17	2016.	
18	We applaud the combined efforts of the EPA and	i
19	NHTSA, as well as the California Air Resources	
20	Board. This proposal provides our industry both	
21	the single program moving forward, as well as the	
22	regulatory framework that enables manufacturers to	
23	plan and invest for the future with confidence.	
24	We are committed to working with you to	
25	finalize these regulations. The standards proposed	i

		31
1	EPA/NHTSA PUBLIC HEARING	
2	are aggressive, but so are the demands from our	
3	customers for greater fuel efficiency.	
4	As a result, we are continually investing in	
5	our product strategy to improve the fuel economy	
6	and reduce the greenhouse gas emissions of our	
7	fleet.	
8	Starting this year, one-third of our vehicle	
9	line up will offer a model that achieve at least	
10	40 miles per gallon.	
11	In addition to the Transit Connect Electric	
12	introduced in 2010, last year we delivered our	
13	first all new Ford Focus electric vehicle.	
14	Later this year, we will start production on	
15	our C-Max Energy Hybrid. And just last week, we	
16	announced and unveiled our next generation 2013	
17	Fusion Hybrid and our all new 2013 Fusion Plug-in	
18	Hybrid.	
19	But our commitment goes beyond our products.	
20	We have also set a goal to reduce facility	
21	emissions of CO2 by 30 percent by 2025 on a	
22	per-vehicle basis.	
23	You will continue to see us offer more	
24	products with advanced innovative technologies to	
25	improve the fuel efficiency of our vehicles and	

32 1 EPA/NHTSA PUBLIC HEARING 2 deliver outstanding quality and features that our customers desire. The key, however, is to ensure that the 5 proposed targets do not outpace consumer demand or the affordability of the technologies needed 7 for compliance. As a full-line manufacturer, we are challenged 9 to meet the broad range the customer wants such as 10 function, performance, comfort and convenience, 11 safety and, of course, fuel economy. 12 And all of these attributes need to come 13 together and align in the vehicles that consumers 14 can afford. 15 After all, attainment of our national goals for CO2 reduction and energy security cannot be reached 16 17 by niche products and technologies. It does little 18 good to produce vehicles with improved fuel 19 efficiency unless those vehicles are actually 20 purchased by a wide range of American consumers. 2.1 Further, the technologies must be 22 self-sustaining in the marketplace and not 23 dependent upon long-term government subsidies. 24 That philosophy has been part of the Ford strategy 25 since 1903.

		33
1	EPA/NHTSA PUBLIC HEARING	
2	You must also acknowledge that market success	
3	is dependent upon many factors outside of our	
4	control such as the price of fuel, the state of the	
5	economy, or the availability of affordable	
6	technologies and materials.	
7	The further we look into the future the more	
8	difficult it is to predict these factors with	
9	accuracy.	
10	The proposed rules extend through the 2025	
11	model year, which is an unprecedented time frame in	
12	the context of fuel economy regulations.	
13	This presents a significant challenge for	
14	manufacturers. While the establishment of	
15	longer-term standards provides manufacturers with	
16	targets for future product planning and investment,	
17	the longer time frame also leads to greater risk	
18	that the assumptions underlying the standards	
19	do not come to fruition.	
20	For example, if a lack of adequate	
21	infrastructure hinders the introduction of new fuel	
22	saving technology or fuel prices turn out to be	
23	substantially lower than anticipated, it might be	
24	necessary to change the standards in order to avoid	

damage to American auto jobs and the U.S. economy.

25

	Capital Reporting Company
	34
1	EPA/NHTSA PUBLIC HEARING
2	That is why the proposed midterm evaluation of
3	the 2022 through 2025 greenhouse standards is so
4	vital to this joint proposal.
5	As proposed, the midterm evaluation provisions
6	require EPA to make a fresh determination regarding
7	the appropriateness of the post-2021 model year
8	standards after considering a variety of factors
9	and to listening public comments.
10	This process will take place concurrently with
11	NHTSA's process for setting final standards for the
12	2022 through 2025 model years.
13	The midterm evaluation is an essential
14	checkpoint to ensure that the standards for these
15	model years are consistent with the revolving
16	market conditions.
17	The existence of a robust midterm review
18	evaluation process is critical to Ford support for
19	this rulemaking package.
20	Turning now to more specific comments of the
21	proposed rulemaking, we support the relative manner
22	in which car and truck targets have been set to
23	reflect their respective capabilities to improve
24	fuel economy.
25	This is based primarily on the agencies'

		35
1	EPA/NHTSA PUBLIC HEARING	
2	updated analysis of full size trucks from the 2012	
3	through 2016 rulemaking.	
4	In particular, EPA acknowledged it had, quote,	
5	underestimated the impact of a different pickup	
6	model configurations, end quote, and in the	
7	model in the model 2012 to 2016 rule.	
8	They further acknowledge that the, quote, very	
9	largest light trucks have significant load carrying	
10	and towing capabilities that make it particularly	
11	challenging for manufacturers to add fuel economy	
12	improving technologies in a way that maintains the	
13	full functionality of those capabilities, unquote.	
14	We concur with the agencies' analysis and	
15	conclusion. With respect to our elements of the	
16	proposal, we will continue to work with the	
17	agencies to develop the test procedures necessary	
18	to validate off-cycle technology.	
19	In order to pave the way for such	
20	technologies, manufacturers must have confidence	
21	that their efforts and investment will be evaluated	
22	fairly and given appropriate credit.	
23	We also strongly encourage that the agencies	
24	to reconsider the production volume thresholds that	
25	have been established in order to reflect new	

36 1 EPA/NHTSA PUBLIC HEARING 2 technology introductions in our compliance 3 strategy. Setting high thresholds, which are entirely 5 dependent on consumer acceptance, may actually serve a hindrance to the investment of these new 7 technologies. MR. MEDFORD: Okay. I need you to wrap 9 it up. 10 MS. HOMEISTER: Once again, we appreciate 11 the opportunity to provide our testimony on this 12 important rulemaking. We are continuing to review 13 all different aspects, and look forward to working in the future. 14 15 MR. MEDFORD: Great. Thank you. 16 Ms. Seidmen. 17 MS. SEIDMAN: Good morning. My name is 18 Nancy Seidmen, and I'm the Co-chair of the Mobile 19 Source and Fuels Committee of NACAA, the National 20 Association of Clean Air Agencies. 2.1 NACAA is the association of air pollution 22 control agencies in 50 states and territories and 23 over 165 metropolitan areas across the nation. 24 I am also the Deputy Assistant Commissioner 25 for Climate Strategies for the Massachusetts

		37
1	EPA/NHTSA PUBLIC HEARING	
2	Department of Environment Protection.	
3	On behalf of NACAA, thank you for this	
4	opportunity to testify on EPA and NHTSA's joint	
5	proposal.	
6	NACAA is very pleased to support this	
7	proposal. We note that there is a broad group of	
8	stakeholders that supports EPA and NHTSA's actions	
9	to continue and build upon the national programs	
10	adopted in 2010 to reduce greenhouse gas emissions	
11	from and improve the fuel economy of model year	
12	2011 through 2016 light-duty vehicles.	
13	In 2007, 31 percent of all U.S. greenhouse gas	3
14	emissions were emitted by mobile sources, which	
15	since 1990 have been the fastest growing source of	
16	greenhouse gas emissions.	
17	Light-duty vehicles are responsible for almost	:
18	60 percent of all mobile source greenhouse gas	
19	emissions.	
20	Carbon dioxide emissions in 2007 represented	
21	approximately 94 percent of all light-duty	
22	greenhouse gas emissions.	
23	The estimated benefits of this proposal	
24	include a reduction in oil consumption of four	
25	billion barrels, a reduction in greenhouse gas	

	_ /_			
F.D.	Δ/1	интев	DIIRTTC	HEARING

emissions of two billion million metric tons, fuel savings on the order of \$347 to \$444 billion and a monetized net benefit to society in the range

of \$311 to \$421 billion.

1

7

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

The co-pollutant benefits to be derived from program are also very important and include reduced fine particulate and nitrogen oxide emissions due to reduced gasoline distribution emissions associated with tanker trucks; mitigation of some of the disproportionate adverse health impacts on environmental justice communities affected by emissions from high traffic and located near gasoline refining and distribution facilities; reduced adverse health impacts near roadways due to cleaner vehicles; reduced risks of adverse -reduced risk of accidental spills of crude oil due to a proportional reduction in oil imports via marine tankers; buffering against gasoline price volatility for consumers and a hedge against rising fuel prices due to the increased use of domestic and alternative fuel sources; economic growth and the creation of high-quality jobs across the country due to the need for innovative automotive technologies upon which the standards rely; and

Capital Reporting Company 39 1 EPA/NHTSA PUBLIC HEARING 2 reduced hydrocarbon emissions due to lower fuel at retail distribution outlets. NACAA would like to offer some additional 5 comments on three key areas in the proposal, and my submitted testimony provides additional details and 7 issues. First, we understand that EPA and NHTSA are 9 proposing that passengers cars have an average rate 10 of improvement of five percent for model years 2017 11 through 2025. 12 However, light-duty trucks will start with an 13 average rate of improvement of three point five 14 percent for model years 2017 through 2021, which 15 increases to five percent for model years '22 16 through '25. 17 These proposed rates of improvement are 18 envisioned to result in average carbon dioxide 19 emission rates of 163 grams per mile with an 20 average fleet performance of 54.5 miles per gallon 21 if every manufacturer incorporates enhanced engine 22 technologies.

In addition, the proposal provides a conditional approval of the NHTSA standards for model year 2022 through 2025.

© 2012

23

24

		40
1	EPA/NHTSA PUBLIC HEARING	
2	NACAA supports EPA and NHTSA's goals of	
3	fleet-wide performance that will result in 54.5	
4	miles per gallon.	
5	We are concerned however that the approach	
6	taken in the proposal may undermine achievement of	
7	this goal.	
8	In fact, in a recently published study	
9	researchers at the University of Michigan consider	
10	whether allowing a more lenient three point five	
11	percent rate of improvement requirement for larger	
12	vehicles creates an incentive for the manufacturer	
13	of larger vehicles to be extent that it could lower	
14	overall fleet performance standard by as much as	
15	four miles per gallon, thus undermining the 54.5	
16	mile per gallon goal.	
17	Accordingly, we urge EPA and NHTSA to ensure	
18	that the full measure of reductions envisioned by	
19	the agencies is achieved.	
20	In addition, we request that EPA and NHTSA	
21	respond to the issues raised in the University of	
22	Michigan study.	
23	Further, once this program is in place, it is	
24	critical that EPA and NHTSA closely track progress	
25	in meeting the standards.	

		41
1	EPA/NHTSA PUBLIC HEARING	
2	In addition, the midterm evaluation to be	
3	conducted in '21 to '22 time frame should evaluate	
4	the use of credits by auto manufacturers and the	
5	impact of credit use on average fleet performance.	
6	In particular, EPA and NHTSA should evaluate	
7	whether credit use is allowing the production of a	
8	greater number of vehicles that do not meet the	
9	five percent rate of improvement.	
10	Second, EPA projects the cost of new	
11	technology will add on average about \$2,000 to the	
12	price of a vehicle.	
13	We recognize the consumers will recoup this	
14	cost. However, if vehicles equipped with the	
15	technologies needed to meet model years 2025	
16	emissions are introduced earlier, then the	
17	projected additional cost should be lower than	
18	\$2000.	
19	In addition, earlier introduction of cleaner	
20	vehicles will provide added assurance that the	
21	projected fuel performance is achieved by 2025.	
22	Measures that could lead to greater	
23	penetration to vehicles earlier in the programs	
24	could bring down vehicle cost.	
25	I'll skip my third point since I heard the	

		42
1	EPA/NHTSA PUBLIC HEARING	
2	buzzer.	
3	MR. MEDFORD: Thank you.	
4	MS. SEIDMAN: But it deals with the zero	
5	gram per mile credit for the advanced vehicles.	
6	And go to finally, NACAA urges that EPA and	
7	NHTSA ensure that this final rule is promulgated by	
8	July 2012 as planned, and encourages EPA upon	
9	promulgation of this rule to begin assessing the	
10	efficacy of another phase of standards to apply to	
11	post 2025 model year vehicles.	
12	Again, we are pleased to express our support	
13	for this proposal and appreciate the opportunity to	
14	testify.	
15	Thank you.	
16	MR. MEDFORD: Thank you.	
17	Mr. Sears.	
18	MR. ZARWIN: My name is Norman Zarwin,	
19	and I am Chairman of a company called U-Go	
20	Stations, Inc.	
21	We have a different twist than the prior	
22	speakers. And what we're doing is we are building	
23	and installing electric vehicle charging stations,	
24	utilizing among other things solar panels, which	
25	frankly lessens tremendously the obvious gasoline	

		43
1	EPA/NHTSA PUBLIC HEARING	
2	and oil introduction into our society.	
3	We started this business about a year and a	
4	half ago with Mickey McLaughlin and David Stones,	
5	who are both here today.	
6	We perceive that this is part of what I call	
7	the alternate energy revolution.	
8	Mickey and David were just in Detroit and saw	
9	the new vehicles that are being proposed to be	
10	built now and in the future.	
11	And if you would see them, you would recognize	;
12	that electric vehicles are clearly on the way here	
13	in a dramatic way.	
14	We predict, and the president in his State of	
15	the Union predicted, by 2015 there would be at	
16	least a hundred at least a million electric	
17	vehicles on the highway.	
18	Electric vehicles include cars, trucks, buses.	
19	And some of you may have seen some of the for	
20	example, UPS trucks these days that already have or	l
21	their side advertising hybrid electric.	
22	So electric is the future. As I said, I call	
23	it the alternate energy revolution.	
24	Why? What does it mean to the average person	
25	who will drive an electric car?	

	44
1	EPA/NHTSA PUBLIC HEARING
2	Well, the cost to drive an electric car is
3	about two cents a mile. Contrast it to about 16 to
4	18 cents a mile to drive a gasoline driven car.
5	Why? Because there's no gasoline, no belts, no
6	spark plugs, no oil changes.
7	It's a really remarkable change in how people
8	will think in the future. And that's why, again, I
9	call it the alternate energy revolution.
10	The public will obviously save a considerable
11	amount of money. Right now there's about a \$7500
12	tax credit for purchasers of electric vehicles.
13	So we see this as a wave of the future. The
14	cost is particularly important.
15	Now, with regard to emissions, if you think at
16	the present time there are about 240 million
17	vehicles on the highway in the United States all of
18	which spew carbon dioxide and other gases from
19	tailpipe emissions.
20	Well, with electric vehicles there's exactly
21	zero. So electric vehicles will have a major,
22	major impact on the environment, a tremendous
23	benefit.
24	And we know now that government is supporting
25	what we're trying to accomplish through grants and

46 1 EPA/NHTSA PUBLIC HEARING 2 rear rather than the front, which will lesson road 3 damage. So that's another side aspect of what this involves. 5 So I think that all of us should begin to think about this change. It's coming. We'll see 7 in the East, particularly the United states, we're far behind the West Coast and far behind several other countries in the world that are dramatically 10 involved in installing and building and utilizing 11 electric vehicles. 12 So U-Go Stations, Inc. is a major player in 13 the installation of the EV charging stations. 14 And we think some of you in this room may be 15 looking into this kind of opportunity in the 16 future, and we hope to be there for you. 17 Thank you. 18 MR. MEDFORD: Thank you. 19 Mr. Thoresen. 20 MR. THORESEN: Good morning. My name is 21 Jim Thoresen, and I am with the Truman National 22 Security Project. 23 The Truman National Security Project is a national security leadership institute based in 24 25 Washington, DC that recruits, trains and positions

		47
1	EPA/NHTSA PUBLIC HEARING	
2	progressives across America to lead on national	
3	security.	
4	Operation Free is a campaign of Truman	
5	National Security. And that is a nationwide	
6	coalition of veterans that recognize climate change	
7	and oil dependence pose serious threats to the	
8	United States national security.	
9	We believe it is our duty to protect America	
10	by advocating for clean domestic energy production.	
11	Operation Free advocates for policies at all	
12	level of government that include reducing America's	
13	oil independence, slow climate change, and make us	
14	more competitive in clean energy.	
15	As a veteran of the United States Army	
16	Security Agency, I joined Operation Free to work	
17	with our other veterans and national security	
18	organizations to ensure that we have an energy	
19	future that keeps our nation secure, independent	
20	and boosts our national economy.	
21	At the present time, we spend one billion	
22	dollars per day on imported oil, which threatens	
23	our national security.	
24	The Department of Defense and our military	
25	forces have established ambitious goals to reduce	

48 1 EPA/NHTSA PUBLIC HEARING 2 the dependency on oil. 3 The Army presently has over 4,000 electric vehicles. The Air Force will have 50 percent of its aviation fuels from biofuels by 2016. The Navy 5 aims to reduce its petroleum usage by 50 percent in its commercial fleet by 2015, and the Marines a 7 30-percent energy reduction by 2015 as well. 9 The 54.5 mile per gallon standard for cars and 10 light trucks by 2025 is an important step to start 11 to further reduce our national thirst for imported 12 oil. Do we want to keep one billion dollars a day 13 14 here on our soil and in our national economy, or do 15 we want to continue to send this money to others 16 who may not have America's national interest at 17 heart? 18 Each and every day we are sending a billion 19 dollars overseas for oil when this money could be 20 staying here in support of our economy. 21 A billion dollars a day, please think about 22 that. 23 The 54.5 mile per gallon standard not only 24 improves our economic security and our national 25 security, but makes America competitive with

		49
1	EPA/NHTSA PUBLIC HEARING	
2	foreign automobile manufacturers, who are currently	
3	operating its standards higher than our own.	
4	The reduction of energy with the improvement	
5	in fuel standards along with other alternative fuel	
6	developments is a direction that we can no longer	
7	afford to ignore. It is a matter of national	
8	security and in the interest of every American.	
9	Thank you.	
10	MR. MEDFORD: Thank you.	
11	Mr. Zarwin. Excuse me. I think	
12	Representative Vitali.	
13	MR. VITALI: Thank you very much. Thank	
14	you for holding these hearings, NHTSA and EPA.	
15	And thank Sierra Club for facilitating my	
16	appearance here. I'm lucky enough to have Robin	
17	Mann as a constituent of mine.	
18	I have been in the state house for this is	
19	my 20th year. And I've served on the House	
20	Environmental Committee for that same length of	
21	time, and have worked on state environmental laws	
22	and regulations.	
23	This is my first time before the EPA or	
24	hearings, so you'll excuse me for my inexperience.	
25	But I thought it was important that I physically be	

50 1 EPA/NHTSA PUBLIC HEARING 2 here to underscore the importance of the issue. 3 My constituents, they can't agree on anything, and this in particular. But they trust my 5 judgment, and my judgment is that it's vital that we enact these CAFE and greenhouse standards. 7 And the reasons have largely been stated: Climate change, national security and saving consumers money. 10 Climate change, in my view and in view of many 11 others, the most important environmental problem 12 this planet faces. 13 And it's my understanding in reading materials 14 that the cars and light trucks that are the subject 15 of these standards complete about four percent of 16 the entire world's greenhouse gas emissions. 17 that's really significant. 18 From a political perspective, it's clear that 19 the U.S. Congress is not going to do the right 20 thing as far as greenhouse gas and climate change 21 goes. They're not going to pass cap and trade, 22 they're not going to pass a carbon tax. 23 But the Obama administration can do this. 24 This is one thing we can do to address climate

change and therefore it's vital that we do it.

## 1 EPA/NHTSA PUBLIC HEARING

On the issue of national security, you know,

it's ironic because I actually had some materials

to quote Operation Free because we worked together

at a state level on these issues.

And you make very good points about how we're entangling ourselves with hostile regimes and we're indirectly funding those regimes by the purchase of oil. You make great points on that.

I'm a fan of Andrew Baker, who is a military, West Point grad, and I think a BU professor. And he talks about since the end of the Cold War, we have repositioned our military assets in the world to protect large supplies of gas and oil.

So our whole military budget seems to be driven by -- by this problem, which is one more reason to enact these standards to reduce that sort of entanglement.

A friend of mine, DEP Former Secretary John Hanger, talked recently in a blog about how even though the military entanglement issue is important, if the price of a barrel of gas goes about \$125 for an extended period of time, it can have a devastating effect on our economy. Again, one reason to control the demand -- demand side of

		52
1	EPA/NHTSA PUBLIC HEARING	
2	things.	
3	And the finally, the consumer protection	
4	perspective materials I read indicate that over the	<u>;</u>
5	life of this program, a consumer who purchases a	
6	car when the cost of the vehicle increases or	
7	netted out is going to save around \$3,500.	
8	So all very good reasons to support this. We	
9	have to support our present politics being what	
10	they are. We don't want anyone to blink on this.	
11	We want to make sure Congress doesn't do anything	
12	crazy and try to block something like this	
13	legislatively.	
14	So I'm here to support it, to do any little	
15	thing I can to make sure it moves forward	
16	unimpeded.	
17	Thank you.	
18	MR. MEDFORD: Thank you.	
19	Any of my colleagues have questions for the	
20	Panelists?	
21	MS. OGE: I have a clarification	
22	question for Nancy.	
23	Nancy, good morning. Your second	
24	recommendation I believe you said the standards	
25	am I reading it right are introduced earlier so	

5.3 1 EPA/NHTSA PUBLIC HEARING 2 the cost can come down. 3 Can you elaborate a little bit what you mean by that statement. 5 MS. HOMEISTER: What we're hopeful about is that if new technologies come into vehicles are 7 incorporated into vehicle design and production earlier, that then it will be shown that the cost of having those technologies in vehicles lessens 10 the idea that, you know, you down the cost of -- as 11 you move into production, you move down the cost in 12 terms of implementing the technologies and the cost 13 drops for production. 14 MS. OGE: Thank you. 15 Now we're going to call the second Panel. 16 I know there have been some changes, so you know 17 who you are. 18 Good morning. We'll start with Dr. Tsou. 19 MR. TSOU: Good morning. Thank you very 20 much. My name is Dr. Walter Tsou. I'm President 21 of Philadelphia Physicians for Social 22 I've also served as health Responsibility. 23 commissioner for the City of Philadelphia and past president of the American Public Health 24 25 Association.

Capital Reporting Company	
	54
EPA/NHTSA PUBLIC HEARING	
I know that our nation has set achievable	
goals which encourages movement away from our	
dependence on fossil fuel.	
The proposed clean car regulations would be a	
game changer and perhaps the most important	
environmental step we can take for the future	
beginning in 2017.	
In our city, which prides itself on urban	
sustainability, and as an owner of a Toyota Prius,	
we cannot, nor should we get rid of cars, but we	
can assist that they get better mileage.	
For example, the Toyota Prius Plug-in Hybrid	
will be coming to 15 states, including New Jersey,	
this March, two months from now. And it's	
estimated to get an eye popping 87 miles per	
gallon.	
The proposed regulations for 2017 to 2025	
would dramatically increase our development and	
acceptance of plug-in hybrid cars, electric and	
fuel cell vehicles as the vehicles of the future.	
In turn, we could have cleaner car emissions	
	EPA/NHTSA PUBLIC HEARING  I know that our nation has set achievable goals which encourages movement away from our dependence on fossil fuel.  The proposed clean car regulations would be a game changer and perhaps the most important environmental step we can take for the future beginning in 2017.  In our city, which prides itself on urban sustainability, and as an owner of a Toyota Prius, we cannot, nor should we get rid of cars, but we can assist that they get better mileage.  For example, the Toyota Prius Plug-in Hybrid will be coming to 15 states, including New Jersey, this March, two months from now. And it's estimated to get an eye popping 87 miles per gallon.  The proposed regulations for 2017 to 2025 would dramatically increase our development and acceptance of plug-in hybrid cars, electric and fuel cell vehicles as the vehicles of the future.

with less smog-producing components like ozone and particulate matter, which incidentally has been a goal that Philadelphia has failed to achieve year

23

24

55 1 EPA/NHTSA PUBLIC HEARING 2 after year. 3 New car standards could change this. It would change how we think of parking garages and parking 5 lots as more than asphalt lots into future charging 6 stations maybe with the U-Go program that we heard. 7 And it would change our priorities from oil to 8 renewable sources which can feed the electric grid 9 such as wind, geothermal and ocean. 10 Homeowners could create their own electricity 11 with solar panels and theoretically charge their 12 plug-in hybrid for the price of sunshine. 13 Finally, the mad rush to do unconventional gas 14 drilling, Arctic exploration, deep sea drilling, 15 other environmentally risky techniques would not be 16 as needed, nor would we be so dependent to engage 17 in wars over oil. 18 The oil and gas industry have held a 19 stranglehold on our country because we have become, 20 in the words of Former President Bush, addicted to 2.1 oil. 22 It's time to break the habit, get clean, and turn our life around. We need to do this for the 23 24 sake of our country and our children's feature. 25 Thank you.

		56
1	EPA/NHTSA PUBLIC HEARING	
2	MS. OGE: Thank you.	
3	Jody Holton, good morning.	
4	MS. HOLTON: Good morning. My name is	
5	Jody Holton. I'm glad that Penn Environment	
6	contacted me to provide more of a resident and	
7	professional perspective on this new standards.	
8	As a resident and parent living in a	
9	nonattainment area with two small children, I find	
10	myself in doctor's offices wondering if this visit	
11	will be the one that my child is diagnosed with	
12	asthma. It's not an unreasonable concern.	
13	And I'm worried also about our economy being	
14	so closely tied to the price of gas and our	
15	national security being tied to it as well.	
16	On a professional level, I've spent a good	
17	portion of my career as a community planning	
18	consultant working for smart group communities that	Ī.
19	encourage people to live in revitalized communities	3
20	in our urban core, as well as in new small group	
21	communities around the region where people have the	3
22	ability and choice to walk, bike or take public	
23	transit to work, to school, and to run errands.	
24	But this is not enough to reduce our	
25	dependence on oil. And it's unfair in some ways to	)
1		

	57
1	EPA/NHTSA PUBLIC HEARING
2	have to encourage people to live in
3	nonattainment areas where we cannot depend on the
4	quality of our air to sustain us.
5	I pay taxes so that the government can afford
6	to think strategically about our future and protect
7	our public health.
8	We have the ability to change and provide
9	opportunity for more jobs. I understand that these
10	standards could create up to 500,000 jobs for the
11	country.
12	Those are my comments. Thank you.
13	MS. OGE: Thank you, Ms. Holton.
14	Mr. Gary Oshnock, good morning.
15	MR. OSHNOCK: Good morning. I am Gary
16	Oshnock, Chrysler Group LLC's Regulatory Affairs
17	Program Manager.
18	I appreciate the opportunity to comment here
19	today on EPA and NHTSA's proposed national
20	greenhouse gas and fuel economy rules.
21	Chrysler recognizes the benefits for the
22	country of continuing the national program to
23	address fuel economy and greenhouse gas. EPA and
24	NHTSA began this program in 2009 with standards for
25	model years 2012 through 2016. And now the

58 1 EPA/NHTSA PUBLIC HEARING 2 agencies are continuing it for model years 2017 3 through 2025. The challenge of meeting the proposed standards must not be underestimated. 5 We believe it is important to observe that 7 reaching the projected overall average of 163 grams per mile carbon dioxide in model year 2025 will have to be achieved within 13 years or roughly two 10 product cycles. 11 We at Chrysler appreciate the opportunity to 12 offer brief comments concerning the proposed national 13 greenhouse gas and fuel economy program. Chrysler 14 supports the goals of the program. 15 Sergio Marchionne, our CEO, is also the CEO of 16 Fiat S.p.A., which is the industry's fuel economy 17 leader in Europe. He understands and endorses 18 these commitments, and is determined to pursue the 19 product actions necessary for Chrysler to meet 20 these 2017 model year plus standards. 2.1 Chrysler and Fiat have already begun 22 transforming fleet fuel efficiency improvements on 23 our flagship Chrysler 300 Sedan, which achieves a 24 best in class 31 miles per gallon with its new 25 eight-speed transmission, and our recently revealed

		59
1	EPA/NHTSA PUBLIC HEARING	
2	Dodge Dart with its one point four-liter multi-air	
3	engine and six-speed, dual dry-clutch transmission.	
4	Chrysler is also working on tomorrow's	
5	advanced technology vehicles with the planned	
6	launch of our Fiat 500 electric vehicle, and our	
7	collaborative efforts with the Department of Energy	
8	to develop plug-in hybrids electric technology for	
9	our minivan and Ram 1500 Pickup.	
10	Chrysler strongly supports a single harmonized	
11	national greenhouse gas and fuel economy	
12	performance standard that allows manufacturers to	
13	offer vehicles that customers want to buy at prices	
14	they can afford.	
15	The availability of supporting cost effective	
16	technologies, along with the aforementioned	
17	customer considerations, will provide the proper	
18	measure of performance for this proposed program.	
19	Chrysler will support the final rules if they	
20	reflect a commitment and foundational principles of	
21	the framework agreement.	
22	The foundational principles are, one, strong	
23	performance requirements; two, a midterm review	
24	that reflects customer acceptance; and three, the	
25	broad use of incentives to encourage technology	

Capital Reporting Company 60 1 EPA/NHTSA PUBLIC HEARING 2 innovations and early integration into production vehicles. We believe the midterm review is critical in determining whether the customers are buying and 5 willing to continue to buy the technology packages 7 needed to comply with the standards year over year. Efforts to search for parameters that measure 9 potential customer acceptance must not lose sight of 10 the most important question: Are they buying the 11 product? 12 Measuring whether customers will buy what we 13 offer next year is also already a challenge. Speculating as far as 13 years in the future holds 14 15 significant uncertainty and risk. 16 A midterm assessment of the underlying 17 rulemaking assumptions provides a credible and 18 equitable mechanism to adjust standards for future 19 customer and technology uncertainties, and is the 20 primary reason Chrysler supports this program. 2.1 I would like to also offer comments on other 22 provisions of the proposed rule. 23 First, Chrysler agrees with setting the truck 24 performance premise based on the underlying

physics of these types of vehicles.

	61
1	EPA/NHTSA PUBLIC HEARING
2	We believe the proposed 2017 to 2025 model
3	year standards support this premise, and address the
4	deficiencies in the '12 to '16 model year role,
5	which overlook these factors.
6	The truck standards for 2012 through '16 model
7	year were not supported by fundamental science.
8	Accommodating that science will seem to be
9	restricted by statutory direction to not backslide
10	on standards from previous years.
11	The 2017 to 2025 model year truck standards
12	are challenging while respecting the utility of
13	these vehicles and their importance to the nation's
14	economy.
15	Secondly, Chrysler supports the additional
16	detail proposed for capturing off-cycle fuel
17	economy and greenhouse gas improvements.
18	The agencies build on this '12 to '16 model
19	year regulation that recognizes improvements in
20	fuel economy and greenhouse gases that are not
21	captured in laboratory tests, but do have real world
22	reductions.
23	And finally, there are references to minimum
24	penetration levels in various aspects of the
25	proposed role. These thresholds are unnecessary

62 1 EPA/NHTSA PUBLIC HEARING 2 and serve as potential disincentives to invest in 3 new technologies. We propose that all actions be recognized as 5 they historically have been, on a per-vehicle-soequipped basis. This is an equitable approach 7 where every vehicle built with the required technology of our customers is acknowledged. 9 If a minimum penetration rate is required, the 10 manufacturer will be discouraged from pursuing 11 innovative technologies with uncertain acceptance 12 and possibly no credit or pay backs. 13 In conclusion, I reiterate Chrysler's support 14 for a single harmonized national standard for fuel 15 economy and greenhouse gas emissions. 16 We look forward to continuing to work with the 17 agencies throughout the rulemaking process and 18 after the final rule is published later this year. 19 Thank you for your attention. 20 MS. OGE: Thank you. 21 Mr. Kevin Riley, good morning. 22 MR. RILEY: Yes, good morning. 23 you? 24 I am Kevin Riley, the owner and president of 25 Alexandria Hyundai in Alexandria, Virginia.

	Capital Reporting Company
	6
1	EPA/NHTSA PUBLIC HEARING
2	And I will do my best to keep my comments
3	within the five-minute time frame. As a father of
4	four, I'm used to speaking quickly.
5	But do I appreciate the opportunity to comment
6	on the proposed greenhouse gas and fuel economy
7	regulations for model years 2017 through 2025.
8	Along with my Hyundai colleague, I appreciate
9	the effort on the part of all agencies in
10	developing feasible and harmonized national
11	greenhouse gas and CAFE standards.
12	Given my ten years owning and running
13	Alexandria Hyundai, I hope to bring a bit of retail
14	perspective as it pertains to this discussion.
15	That is what our customers are telling us
16	regarding fuel efficiency and what their actions
17	show by virtue of their purchase behavior.
18	By way of background, I opened Alexandria
19	Hyundai in 2001. Since that time, we have grown to
20	be one of the top 35 sales volume Hyundai dealers
21	in the nation. As such, we are fortunate to have a
22	large data pool of feedback from which to draw.
23	Prior to opening the dealership, I worked as a
24	management consultant and attorney. I'm a graduate

management consultant and attorney. I'm a graduate of Georgetown University, the University of

64 1 EPA/NHTSA PUBLIC HEARING 2 Virginia School of Law, and Duke University's Fuqua School of Business. I was appointed to the Virginia Motor Vehicle Dealer Board in 2005 by then-Governor Warner. 5 I currently serve as the Vice Chairman of the 7 Washington, DC Auto Show where we regularly showcase new innovations in safety and sustainability. 10 However, today I'll be speaking solely in my 11 capacity as owner and president of Alexandria 12 Hyundai. 13 The Washington metropolitan market in which my 14 dealership operates services a very highly educated 15 work force. Our customer thoroughly researches our vehicle choices before arriving at our dealership. 16 17 Safety, reliability, styling and fuel economy 18 are all key considerations for our customers when 19 selecting a vehicle brand or model. 2.0 As for our Hyundai customers, they clearly 21 value fuel economy, Hyundai's position is one of 22 the industry's most fuel-efficient auto makers 23 resonates well with perspective customers. 24 And they often know prior to arriving at the 25 dealership that Hyundai's fleet includes four

65 1 EPA/NHTSA PUBLIC HEARING 2 models that achieve EPA highway fuel economy 3 ratings of 40 MPG. These four models: The Elantra, the Veloster, 5 the Sonata Hybrid and the Accent represent 45 percent of our dealership's total new Hyundai sales in 2011. 7 When you add the Sonata, our popular selling 9 mid size sedan that achieves EPA highway fuel 10 economy rating of 35 MPG, these fuel-efficient 11 models represent 71 percent of our total new 12 Hyundai sales in 2011. 13 I believe our customers will continue to value 14 and place great emphasis on fuel economy. And that 15 is one of the reasons I generally support the 16 proposed standards. 17 I have seen firsthand how customers are open 18 to new platforms and technologies when selecting a 19 new vehicle. 20 For example, in its 2011 Hyundai year in 21 introducing the flagship Sonata model announced it 22 would eliminate the option of the less 23 fuel-efficient six-cylinder engine consumers had 24 grown to look for in previous Sonata models. 25 Consumers took to this change in stride,

	60
1	EPA/NHTSA PUBLIC HEARING
2	especially given the technological advances in the
3	four-cylinder engine that boosted fuel economy and
4	horsepower at the same time, and provided Hyundai
5	Motor America with its highest Sonata sales volume
6	in its history, over 225,000 units sold.
7	The 54.5 MPG target for 2025 represents a
8	significant advance from where we are as an
9	industry today.
10	Achieving the 54.5 MPG target will most
11	certainly require a great deal of automotive
12	ingenuity and substantial investment on the part of
13	all key stakeholders.
14	However, I am certain consumers will continue
15	to demand improvements in fuel economy and purchase
16	vehicles from manufacturer vehicle offerings
17	achieving that target.
18	As a contingency, if consumers in fact reject
19	these vehicle offerings, it is my understanding the
20	midterm review provides an opportunity to reset the
21	goals if the needed technology cannot be provided
22	at a reasonable price.
23	The agencies have acknowledged the
24	technologies needed to meet regulations will
25	increase the cost of vehicles. Thus for all

67 1 EPA/NHTSA PUBLIC HEARING 2 stakeholders involved, including consumers, auto dealers and manufacturers, we must have a clear understanding of how much vehicle costs will 5 increase, and whether consumers will perceive sufficient value in those increases to pay for 7 them. Demands for such technological advances is not 9 a new aspect; it is a balance, the achievement of 10 which will require a collective effort. 11 As a Hyundai dealer, I witness this balance 12 firsthand with the introduction of our all new 2011 13 Elantra model. 14 Due to the significant technological advances 15 incorporated in the new vehicle, including substantially increased fuel economy, the 16 17 transaction price of the new Elantra was 18 significantly higher than its predecessor. 19 Consumers weighed the increase in price 20 against the backdrop of the technological 2.1 enhancements of the new vehicle, including improved 22 fuel economy, and then in the end responded 23 positively. 24 Elantra sales for 2011 set an all time record,

and the Elantra was just named 2012 North American

	68
1	EPA/NHTSA PUBLIC HEARING
2	car of the year.
3	I state this example to underscore that while
4	we must remain sensitive to cost increases,
5	consumers will see value in and pay for
6	advancements in technologies that improve their
7	lives and the lives of those around them.
8	Additionally, I know Hyundai is working hard
9	to provide low cost fuel-efficient vehicles, and
10	have no doubt Hyundai will continue to seek the
11	most efficient ways to improve fuel economy.
12	Hyundai will invest over \$12 billion this year
13	alone in research and development activities.
14	Hyundai has its own steel plant, and has
15	developed high-strength, low-alloy steel to
16	decrease the weight of vehicles without
17	compromising safety.
18	Hyundai also has high aspirations for fuel
19	cell vehicles, which over time offer promising
20	pathways to energy independence and environmental
21	sustainability.
22	In the end, I see the proposed regulations as
23	an impetus to all auto makers to provide
24	increasingly fuel-efficient transportation to
25	consumers for the next decade and beyond.

69 1 EPA/NHTSA PUBLIC HEARING 2 The regulations will afford retailers like 3 Alexandria Hyundai the opportunity to sell vehicles with significant advancements and fuel efficiency, 5 and in doing so satisfy the needs of its customers. Thank you for the opportunity to comment 7 today. MS. OGE: Thank you. 9 Mr. Justin Johnson, good morning. 10 MR. JOHNSON: Good morning. My name is 11 Justin Johnson. I'm the Deputy Commissioner of the 12 Vermont Department of Environmental Conservation. 13 And I'm here today speaking on behalf of the Northeast States for Coordinated Air Use 14 15 Management. 16 NESCAUM is an association of the air pollution 17 control agencies in Connecticut, Maine, 18 Massachusetts, New Hampshire, New Jersey, New York, 19 Rhode Island and Vermont. 20 The proposed rule is a positive step that 21 builds on the progress made under the current CAFE 22 rules, and will achieve important economic and 23 environmental benefits. 24 These proposed new standards will 25 significantly reduce fuel consumption and

70 1 EPA/NHTSA PUBLIC HEARING 2 greenhouse gas emissions and expand the use of alternative fuels. Consumers will benefit from decreased vulnerability to fuel price volatility, and from 5 the long-term fuel cost savings it will more than 7 offset the initial added vehicle costs necessary to meet the standards. 9 In November 2010, NESCAUM submitted comments 10 to the previous notice of upcoming joint rulemaking 11 encouraging EPA to consider incorporating a 12 requirement for six-percent annual rate of 13 improvement in greenhouse gas emissions and fuel 14 consumption. 15 The proposed rule before us today incorporates 16 carbon dioxide emissions reduction at average 17 annual rates in model years 2017 through 2021 of 18 five percent for passenger cars and three point 19 five percent for light trucks. 20 For model years '22 through 2025 the rate is 21 set at five percent for all light-duty vehicles. 22 NESCAUM states continue to affirm our previous 23 position that a six-percent rate is technically 24 feasible and economically practical and encourage 25 EPA to strongly consider incorporating this more

	cupital Reporting Company	
		71
1	EPA/NHTSA PUBLIC HEARING	
2	stringent rate of improvement into the rule.	
3	As part of the basis for the proposed rates	
4	of improvement, EPA projects that battery electric	
5	vehicles and plug-in hybrid electric vehicles will	
6	account for as little as one percent of sales in	
7	2021 and three percent of sales in 2025.	
8	Yet nearly every major auto manufacturer will	
9	have EVs and PHEVs in production within the three	
10	years within three years.	
11	EPA and the Department of Transportation	
12	previously estimated that a fleet-wide six-percent	
13	annual rate of improvement could be achieved with	
14	as little as four percent combined sale share of	
15	EVs and PHEVs in 2025, provided that sales of	
16	conventional hybrids continue to increase.	
17	Four counts of significant reductions in the	
18	weight and cost of electric vehicle technologies	
19	further support our conclusion that the most	
20	increase in sales of these advanced technology	
21	vehicles require to achieve a fleet-wide	
22	six-percent annual rate of improvement is viable.	
23	The NESCAUM states support inclusion of	
24	flexibility mechanisms in the proposed rule	
25	providing manufacturers with pathways to compliance	3

72 1 EPA/NHTSA PUBLIC HEARING 2 and a range of technologies efficient to meet the goal of the program. Allowing credit transfers between a 5 manufacturer's passenger car and light truck fleet will facilitate compliance without reducing the 7 greenhouse gas benefits of the program, as do provisions that carry forward and carry back generated credits. 10 In addition, the inclusion of credits for 11 air-conditioning system improvements provide an 12 opportunity for the program to address emissions of 13 a class of high global warming potential 14 refrigerants, the hydrofluorocarbons. 15 The NESCAUM states support EPA's proposed zero 16 gram per mile incentive for EVs and PHEVs as a 17 reasonable accommodation recognizing the initial 18 barriers to adoption of these technologies. 19 While our states recognize that the zero 20 emission factor for electricity used to power these 2.1 advanced vehicles does not make it -- take into 22 account the actual upstream emissions from electric 23 generation. 24 The application of the zero factor for model 25 years 2017 through 2021 will provide auto

7.3

## 1 EPA/NHTSA PUBLIC HEARING

2.1

manufacturers with a greater incentive for more rapid deployment of these technologies allowing for greater environmental benefits in the long run.

While for this time frame we support the concept to forego accounting for net upstream electric power generation emissions, we in turn support in principle EPA's proposal for sales cap above which upstream emissions are included in model years 2022 through 2025.

We urge EPA to continue to evaluate the greenhouse gas effects of these provisions, and take the necessary steps to ensure preservation of the overall goals of the program.

The NESCAUM states support EPA's proposal to calculate fuel economy for dedicated alternative fuel vehicles using only 15 percent of actual energy consumed as this provides a strong incentive for increased deployment of compressed national gas and fuel cell vehicles.

In the initial years of the standards, these vehicles will account for a very small fraction of overall sales and therefore own a small percentage of overall greenhouse gas emissions from the light-duty vehicle fleet.

		74
1	EPA/NHTSA PUBLIC HEARING	
2	Continued monitoring of the effects of this	
3	approach will ensure that the bulk of the emissions	
4	reductions are preserved. Therefore, we support	
5	EPA's proposal for midterm review to evaluate the	
6	potential revisions to the program including	
7	greenhouse gas impacts to the proposed treatment of	
8	electricity and alternative fuel energy.	
9	In summary, the joint EPA/NHTSA effort to	
10	address greenhouse gas emissions and fuel	
11	consumption through this rulemaking is a positive	
12	step that builds on the progress of the current	
13	CAFE rules.	
14	NESCAUM states encourage EPA to consider the	
15	six-percent annual rate of improvement, and will	
16	provide more written comments, more specific	
17	written comments, before the close of the comment	
18	period.	
19	Thanks for the opportunity to testify.	
20	MS. OGE: Thank you.	
21	Now we are calling Representative Tony Payton.	
22	Good morning.	
23	MR. PAYTON: Good morning. Thank you for	
24	the opportunity to testify in support of increasing	
25	the CAFE standards and providing a more	

75 1 EPA/NHTSA PUBLIC HEARING 2 sustainable, eco-friendly and rewarding car fleet 3 in this country. This call to action directly addresses the 5 growing burden of gas prices on families and individuals whether they travel for work, school, or leisure. 7 The average gas price in Pennsylvania is 9 \$3.46, not far the national average of \$3.37. 10 By the year 2030, the proposed standards would 11 save American consumers nearly \$45 billion annually 12 at the gas pump. 13 Even after accounting for the cost of new 14 technology, that comes out to an annual savings of 15 about \$330 per family. Beyond the financial impact, implementing 16 17 higher standards would cut annual global warming 18 pollution by roughly 280 million metric tons of 19 reduced oil consumption by nearly 23 billion 20 gallons by 2030. 2.1 While some opponents may argue that the cost of 22 meeting these standards are too great, however when 23 compared to the tangible and achievable results, 24 the environmental benefits far outweigh the cost. 25 As we move forward as a society, we must take

76 1 EPA/NHTSA PUBLIC HEARING 2 meaningful steps to ensure that we live -- that where we live is clean and sustainable, the single 3 biggest step this country has ever taken to tackle 5 global warming and get off oil all while saving Americans money at the gas pump. 7 And I would say that as an asthma sufferer and in a district where we have many folks who suffer 9 disproportionately from asthma, you know, I for one 10 enjoy clean air. 11 And that we have the technology to get there. 12 And if we look at it over the long view, consumers 13 will save. And this also presents the biggest 14 opportunity in sourcing in this country. So in 15 short, we can, we should push forward with this. 16 Thank you. 17 MS. OGE: Thank you. Mr. Tom Baloga, 18 good morning. 19 MR. BALOGA: Good morning. My name is 20 Tom Baloga. I'm the Vice President of Engineering 2.1 for BMW North America. 22 Last July the head of BMW South Carolina 23 plant, Josef Kerscher, stood with President Obama 24 and auto industry executives in Washington, DC in 25 support of aggressive new fuel economy and

		77
1	EPA/NHTSA PUBLIC HEARING	
2	greenhouse gas reduction standards for America.	
3	One week ago Josef Kerscher stood with South	
4	Carolina Governor Haley to help announce a new	
5	\$900 million investment in America from BMW adding	
6	700 jobs at our plant.	
7	BMW is committed to continuously improving	
8	efficiency, maximizing driving excitement, and	
9	adding excellent paying jobs here in America.	
10	On behalf of the BMW Group, I'm pleased to	
11	have an opportunity today to again support EPA and	
12	the NHTSA on this rulemaking proposal.	
13	Having recognized the need to address climate	
14	change early on, the BMW Group is currently the	
15	auto industry's seven-time world leader for	
16	sustainability as determined by the Dow Jones	
17	sustainability index.	
18	In the year 2000 BMW management conceived and	
19	launched an efficient dynamics program to reduce	
20	CO2 emissions and improve fuel economy while at the	
21	same time preserving the ultimate driving machine	
22	performance our vehicle owners have come to expect.	
23	To date we've invested more than one and a	
24	half billion dollars into efficient dynamics in	
2.5	order to apply this program agrees all model lines	

78 1 EPA/NHTSA PUBLIC HEARING 2 Our philosophy is to apply efficiency 3 improvements to every product we build as quickly as possible. We commend both the EPA and the NHTSA for the 5 efforts to continue to refine the program that was 7 previously established for model years 2012 to 2016. 9 And that program permits auto makers to build 10 a single light-duty national fleet supplying the 11 requirements of each agency program as well as 12 those of the State of California. 13 A single national program is critical for us 14 so we can plan, design and build the most efficient vehicles for all of America. 15 16 Achievable greenhouse gas emission reductions 17 and commensurate fuel economy increases depends on 18 both designing more fuel-efficient vehicles and 19 increasing market demand for such vehicles. We can 20 build the vehicles, but consumers must buy them. 2.1 A comprehensive emission reduction policy 22 needs to consider all aspects, most importantly 23 consumer demand. 24 Therefore, the midterm review is a very 25 important pillar in the proposed rule in order to

79 1 EPA/NHTSA PUBLIC HEARING 2 monitor the development of external factors, which are not under any manufacturer's direct control. 3 I can't emphasize this enough. A midterm review is critical for reassessment of what 5 technology can deliver and what consumers are 7 willing to buy. We accept our responsibility for vehicle 9 efficiency, but we have no control over carbon 10 content of electricity generation and cannot be 11 held responsible for energy mix decisions made 12 decades ago. 13 We auto makers can influence tailpipe 14 emissions, but we cannot influence power plant 15 emissions. In conclusion, the BMW Group is committed to 16 17 working constructively with EPA and NHTSA to 18 continue a single national program for model years 19 2017 to 2025. 20 We'll submit written comments elaborating on 21 these and other issues in more detail before the 22 close of the comment. 23 We very much appreciate the efforts of the 24 State of California to ensure the continuation of a

single national program going forward.

		80
1	EPA/NHTSA PUBLIC HEARING	
2	Thank you very much.	
3	MS. OGE: Thank you.	
4	Mr. Kevin Stewart, good morning.	
5	MR. STEWART: Good morning. I thank the	
6	Hearing Panel for your work here today.	
7	I am Kevin Stewart, and I serve as Director of	<del>:</del> :
8	Environmental Health for the American Lung	
9	Association of the Mid-Atlantic.	
10	I am representing not only the three million	
11	people in our four-state service area who suffer	
12	from chronic lung disease, but also the tens of	
13	millions more who desire to breathe clean air and	
14	so protect their good health.	
15	Our oldest predecessor agency was founded here	;
16	in Philadelphia 120 years ago to fight	
17	tuberculosis.	
18	And we are now dedicated to our broader	
19	mission of improving lung health and preventing	
20	lung disease. We have been fighting for relief	
21	from ambient air pollution since the middle of the	
22	last century.	
23	American Lung Association of the Mid-Atlantic	
24	is pleased that the Environmental Protection Agency	7
25	and the National Highway Traffic Safety	

81 1 EPA/NHTSA PUBLIC HEARING 2 Administration have jointly proposed more stringent national standards to reduce greenhouse gas emissions and to increase corporate average fuel 5 economy. When implemented the new standards will be remarkable achievements. 7 Although reducing traditional air pollution 9 emissions is not the primary focus of the proposed 10 rules, in some scenarios result in increases for 11 particular vehicle pollutants, notably carbon 12 monoxide and aldehydes. 13 ALA nevertheless recognizes that the general 14 trend across the alternatives considered is to 15 lower emissions of ambient air pollutants when compared with the no action alternative. 16 17 Not only does the preferred alternative, the 18 proposed standards, result in significantly lower 19 carbon dioxide emissions. 20 But these standards also result in lower 21 levels of sulfur dioxide, fine particle pollution, 22 volatile organic compounds, nitrogen oxides, 23 benzene and diesel particulate matter once fleet 24 turnover would be substantially complete by 2040

with the reduction in VOCs and NOx yielding

		82
1	EPA/NHTSA PUBLIC HEARING	02
2	corresponding increases in ground level ozone.	
3	Taken together the monetized health benefits	
4	for the United States with respect to criteria air	
5	pollutants and hazardous air pollutants from	
6	implementing a proposed rule can be expected to be	
7	valued in the neighborhood of \$5 to \$10 billion.	
8	Therefore, the American Lung Association of	
9	the Mid-Atlantic is here today to put these main	
10	messages into the record.	
11	We support the proposed rule, and we encourage	
12	EPA and NHTSA to promulgate a final rule that	
13	achieves at least the degree of reduction in air	
14	pollutants as a proposal would accomplish.	
15	We also support changes to testing procedures	
16	and calculations that properly reflect actual	
17	experience.	
18	However, while reasonable flexibility is	
19	important, we oppose the introduction of loopholes	
20	that weaken the ability of the rule to achieve its	
21	scheduled goals.	
22	The scientific consensus is that climate	
23	change caused by the buildup of greenhouse gases	
24	will increase the risk of unhealthful ambient ozone	
25	levels since higher temperatures enhance the	

	8	33
1	EPA/NHTSA PUBLIC HEARING	
2	conditions for ozone formation.	
3	To protect human health, the nation needs	
4	strong measures to reduce climate change and ozone.	
5	And the proposed vehicle standards before us today	
6	are clearly a step in the right direction.	
7	Although we applaud the small successes the	
8	rule achieves with respect to controlling emissions	
9	of criteria pollutants and hazardous air pollution,	
10	much more remains to be accomplished.	
11	The relatively modest reductions of air	
12	pollutants and in some cases their anticipated	
13	increases are troublesome in their inadequacies for	
14	a sector that contributes such a large fraction of	
15	the inventory of ambient air pollutants.	
16	Therefore, just last week the American Lung	
17	Association nationally in concert with six other	
18	leading public health and medical organizations	
19	wrote to EPA Administrator Lisa Jackson to request	
20	that she should move forward with Tier 3	
21	vehicle emission and fuel standards, and that she	
22	finalize those standards as soon as possible.	
23	According to the National Association of Clean	
24	Air Agencies, by 2030 such standards will reduce	
25	overall mobile source emission of NOx by 29	

		84
1	EPA/NHTSA PUBLIC HEARING	01
2	percent, CO by 38 percent and VOCs by 26 percent.	
3	And finally, our purpose in testifying today	
4	is to remind everyone about the reason why we	
5	advocate for these measures. Public health is at	
6	stake.	
7	We emphasize that the populations potentially	
8	at risk from exposure to ozone smog and fine	
9	particle pollution are not a small minority of	
10	particularly sensitive persons.	
11	But in a service territory of the American	
12	Lung Association of the Mid-Atlantic, ours is	
13	constituted of groups containing hundreds of	
14	thousands or even millions of individuals. They	
15	include infants, and elderly, people with asthma,	
16	and those with heart disease, people in poverty,	
17	and people exposed outdoors.	
18	Indeed far from being a small minority,	
19	persons falling into one or more of these high-risk	
20	groups together comprise more than half the	
21	population.	
22	And even more important to remember every one	
23	of these millions is a real person, not a nameless	
24	statistic. Every one of these people is a human	
25	being worthy of our attention: A neighbor, a	

```
8.5
 1
                  EPA/NHTSA PUBLIC HEARING
 2
         coworker, a friend, a family member, maybe even
 3
         yourself.
                   MS. OGE: Thank you.
              Any questions for the Panel?
 5
 6
              I'd like to thank you for your testimony.
 7
                   MR. MEDFORD: Thank you. I think we're
 8
         ready for the next Panel, please.
 9
              Representative Josephs, could you please give
10
         your name slowly to the Court Reporter. Thank you
11
        very much.
12
                   MS. JOSEPHS: My name is Babette,
13
         B-A-B-E-T-T-E, Josephs, with an S at the end.
14
              I'm very happy to be here to have the
15
         opportunity to testify. I'm very impressed by the
16
         Panel that I heard before, and I'm sure this Panel
17
         will be just as impressive.
18
              I am not going to repeat all of the their
19
         testimony because I would like to just incorporate
20
         it in everything that I would like to say.
21
              But I would like to say something that none of
22
         them can say, which is welcome to the 182nd
23
         District.
                    This is the area that I represent.
24
              And I also think the second thing I would like
25
         to say about my constituents and myself I think is
```

	8	3 6
1	EPA/NHTSA PUBLIC HEARING	, .
2	probably very rare and very few people can say it.	
3	I do not own a car. I do not drive a car.	
4	And I believe that is true of an enormous number of	
5	my constituents who live in and around South	
6	Philadelphia and Center City.	
7	And one of the reasons that they are in Center	
8	City and South Philadelphia is because they do not	
9	want to rely upon a private passenger vehicle.	
10	And yet we still breathe the air, we still	
11	suffer from the economy, we still live in a society	
12	in which more jobs need to be created.	
13	I am very, very much in favor of these	
14	standards at strict as possible. I would not like	
15	to see any loopholes.	
16	I would also end by saying just a little	
17	politics. Observing this administration over the	
18	last now almost four years, it seems clear to me	
19	that the detractors are not going to be satisfied	
20	by any anything. By anything.	
21	That this administration can satisfy	
22	environmentalists and retailers and people in the	
23	car industry and folks who worry about their health	
24	and everybody else's health by doing as they have	
25	been urged by all the speakers that I have heard	

```
87
 1
                  EPA/NHTSA PUBLIC HEARING
 2
         not to do it -- give no political benefit
 3
         whatsoever.
              So I really appreciate the opportunity to be
                I'm sorry I'm hacking away. Thank you very
 5
        much.
 7
                   MR. MEDFORD: Thank you for your
 8
        participation today.
 9
              Mark Cooper.
10
                   MR. COOPER: Thank you, Mr. Chairman.
11
              I am Dr. Mark Cooper, Director of Research at
12
         the Consumer Federation of America.
13
              I gladly appreciate the opportunity to appear
14
         today because we believe that the benefits of this
15
        proposed rule are obvious.
16
              They lower the cost of driving and will save
17
         consumers thousands of dollars per vehicle. It
18
        will save the national economy hundreds of billions
19
         of dollars.
20
              They lower our imports, lower our
21
         vulnerability to supply disruptions. Above all,
22
         these are a consumer-friendly set of rules.
23
         is the consumer policy that will benefit American
24
        consumers.
25
              And the only question then is will they
```

Capital Reporting Company 88 1 EPA/NHTSA PUBLIC HEARING 2 succeed. And that's a question we hear repeatedly. 3 And the answer we believe is an emphatic yes. Consumers will buy the new fuel-efficient 5 vehicles enabling auto makers to reach the targets that have been set. Not because they're so beneficial in terms of economics. That's 7 important. 9 But also because the rules have been written 10 in a consumer-friendly fashion that is sensitive to 11 the needs of the industry. And that is the 12 backbone of the political consensus that you have 13 heard this morning. 14 Let me briefly give you six broad categories 15 of why these rules will work. 16 First, the public is concerned about gasoline 17 and that leads to support for higher fuel economy 18 and it changes consumer behavior. 19 Seventy-five percent or more of respondents to 20

our public opinion polls. And we've conducted a dozen over the last six or seven years.

Seventy-five percent are concerned about gasoline prices and dependence on Mideast oil. They think it is important to reduce oil consumption. They support higher fuel economy

2.1

22

23

24

		8 9
1	EPA/NHTSA PUBLIC HEARING	
2	standards as a good way to do so.	
3	Almost two-thirds of respondents support a	
4	60-mile per gallon standard as long as the payback	
5	period is within three to five years. And that is	
6	the case with these standards.	
7	Second of all, consumers have shown a	
8	willingness to shift their buying patterns in light	
9	of recent gas price spikes.	
10	Since 2004 the following changes in market	
11	shares have taken place in the auto industry. And	
12	if I had told you this was going to happen in 2004,	
13	you would have told me I was crazy. And yet this	
14	is the reality.	
15	Four-cylinder engines have increased from	
16	28 percent to 48 percent, cars from 48 percent to	
17	59 percent, small and mid-sized crossover SUVs have	?
18	more than doubled to over 21 percent, hybrids have	
19	increased from less than one percent to over six	
20	percent, and small cars have remained constant over	ı
21	that period at 47 percent.	
22	Americans are meeting their needs for driving	
23	with vastly more fuel-efficient vehicles. They are	
24	ready to do this. They have already started, and	
25	they are way ahead of the auto industry.	

	9
1	EPA/NHTSA PUBLIC HEARING
2	Third, the approach to setting standards is
3	consumer friendly and facilitates auto maker
4	compliance.
5	The new attribute-based approach as you've
6	heard provides no incentive to change the size of
7	the vehicles. Consumers will get the cars they
8	want; they'll all be more fuel efficient.
9	The standards accelerate the adoption of
10	existing technologies at costs that are widely
11	recognized. They provide incentives in flexibility
12	for new technologies.
13	The setting of a long steady path over a long
14	time period coordinated across all the agencies in
15	this country gives consumers and the industry the
16	time they need to adjust.
17	And that leads me to the fourth and most
18	important reason. There is no sticker shock here,
19	none whatsoever. There is no big jump year to
20	year. It's a slow increase in prices. There are
21	uniform price increases across all manufacturers
22	because they all have to comply.
23	The cost of driving goes down. The value of
24	vehicles goes up. There is no reason to believe
25	that consumers will not buy these vehicles. And in

		Capital Reporting Company	
			91
	1	EPA/NHTSA PUBLIC HEARING	
	2	fact, they've shown by their attitudes and the	
	3	behaviors they are ready to do so.	
	4	Fifth, the auto industry has a strong	
	5	incentive to comply. The standard takes the risk	
	6	out of investing in fuel efficiency. All the auto	
	7	makers have to do you don't have to worry about	
	8	some guy manufacturing cheap fuel inefficient cars.	
	9	They all have to comply.	
1	0	The proposed standards enable the U.S.	
1	1	industry to compete at a global level because they	
1	2	raise the U.S. standards to the standards that have	€
1	3	already been adopted by the rest of the world.	
1	4	And auto makers know today that if you can't	
1	5	compete globally, you can't be a world leader in	
1	6	auto making. We're not that big a part of the	
1	7	market anymore. They have to compete globally.	
1	8	And finally, sixth, the proposed rule	
1	9	recognizes the need to stay in touch with reality.	
2	0	So we have this midterm review, which I fully	
2	1	support, as you've heard the auto makers insist on	
2	2	it. But I actually believe when we get to the	
2	3	midterm review, we're as likely to increase the	
2	4	standards as decrease.	

Because, one, we've used the very low gasoline

		93
1	EPA/NHTSA PUBLIC HEARING	,
2	can develop the engineering and the manufacturing	
3	expertise to comply with the proposal. But at what	
4	costs?	
5	Prospective purchasers will must be willing	
6	and able to buy the vehicles manufacturers produce.	
7	Just because vehicles can be built does not mean	
8	they will be bought.	
9	When prospective purchasers come to my	
10	showrooms they're ready, they rarely engage, if	
11	they ever engage, in upfront fuel economy payback	
12	analysis.	
13	First and foremost, they're looking for	
14	vehicles that meet their needs and that they can	
15	afford.	
16	It really doesn't matter what the consumer	
17	says on a survey or a poll of what they might want	
18	or what they are willing to do.	
19	But what does matter is when they come into	
20	our showroom based on their needs, they buy based	
21	on their needs, and what they can afford.	
22	Now, I'd love to sell everyone who walks in	
23	the door a new Chevrolet, Buick or Ford, but	
24	because they are by far the best vehicles that I	
25	have ever offered. I've been in this business for	

95 1 EPA/NHTSA PUBLIC HEARING 2 back for purchases of the -- in the form of fuel 3 cost savings. Of course, the extent to which any payback 5 occurs depends on several variables, including the number of miles driven and the fuel prices. 7 However, even assuming that satisfactory paybacks can be achieved, changes in public -- the public's buying behavior will be required for the 10 proposal to work. 11 First, we must address the issue of credit 12 availability. Over 90 percent of the new vehicle 13 deliveries are financed by credit sales or by 14 lease. 15 And in most of these transactions, our 16 consumers use all of the credit for which they 17 qualify. 18 So, if lenders won't finance the additional 19 upfront cost of higher fuel economy performance, 20 any payback won't matter because the transaction 21 just will not occur. 22 Note that several financing sources NADA has 23 talked to indicate that they are in no position to 24 underwrite credit on the basis of an anticipated 25 payback.

		96
1	EPA/NHTSA PUBLIC HEARING	50
2	But even the consumers who are not credit	
3	constrained, other behavior changes must occur.	
4	For example, public indifference to the fuel	
5	economy performance must be overcome.	
6	We dealers will fall all over ourselves to	
7	help prospective purchasers make rational decisions	;
8	on whether to pay up for vehicles by showing	
9	where by showing where possible that they can	
10	achieve a decent payback on their investment.	
11	But to do so we need consumers to focus on	
12	fuel economy even when fuel prices are steady.	
13	I for one foresee advertising fuel efficiency	
14	and fuel economy even more aggressive than I do	
15	now.	
16	None of us like to be put on hold. Call our	
17	General Motors dealership in Smyrna, Delaware and	
18	ask to be put on hold. And you'll see right now	
19	that while you're there we do talk about how many	
20	models we offer that get in excess of 30 miles per	
21	gallon.	
22	NADA can re-double all their outreach work in	
23	conjunction with the EPA and otherwise teach	
24	number one, teach consumers and dealership staff	
25	how to read and understand fuel economy labels;	

	97
1	EPA/NHTSA PUBLIC HEARING
2	number two, to go to fueleconomy.gov; and number
3	three, how to operate vehicles as efficiently as
4	possible.
5	However, these outreach efforts alone will not
6	allow many willing and able customers to determine
7	if their prospective purchasers will pay back.
8	To make them understand and act on payback
9	calculations, prospective purchasers need real light
10	vehicle specific data.
11	But this type of information is not readily
12	available. For example, neither the Monroney
13	labels, nor vehicle invoices currently have line
14	items showing the upfront marginal cost imposed by
15	fuel economy mandates.
16	Presently, there are no definitive sources of
17	information to empower consumers to compare upfront
18	fuel economy acquisition costs with ongoing fuel
19	economy operational savings.
20	Such information would enable the dealers to
21	assist and encourage prospective purchasers.
22	MR. MEDFORD: Mr. Willis, would you wrap
23	up, please.
24	MR. WILLIS: Okay. It would encourage
25	purchasers specific vehicle payback, absent better

98 1 EPA/NHTSA PUBLIC HEARING 2 information. I can assure you upfront prices will still continue to dominate. Bottom line, consistent with the consumer 5 information section of Energy Policy and Conservation Act, we urge NHTSA and the EPA to 7 explore in this rulemaking how to provide prospective purchasers with the information necessary to conduct transparent payback analysis. 10 Thank you again for the opportunity to 11 testify. 12 If you have any questions, I'll be glad to 13 answer them. Or I'll have the NADA staff get back 14 to you. 15 MR. MEDFORD: Thank you very much. Mr. O'Shea. 16 MR. O'SHEA: Thank you. I am Kevin 17 18 O'Shea from the DuPont Company. I am Global 19 Marketing Manager for our automotive refrigerant 20 business. 2.1 On behalf of DuPont, I would like to thank you 22 for this opportunity to provide comments on EPA and 23 NHTSA's proposed rule regarding 2017 and later 24 model year light-duty vehicle greenhouse gas 25 emission and corporate average fuel economy

		99
1	EPA/NHTSA PUBLIC HEARING	
2	standards.	
3	As background, DuPont is a 209-year-old	
4	company headquartered in Wilmington, Delaware and	
5	operating globally.	
6	We serve a variety of markets including	
7	agriculture, electronic goods, industrial	
8	operations, buildings, and transportation,	
9	including motor vehicles.	
10	We traditionally use our strong science and	
11	innovation capacity to deliver materials and	
12	technologies to the market to address broad	
13	social address broad scale needs.	
14	We partnered with the automotive industry	
15	since its inception and continue to collaborate	
16	with and innovate for this market.	
17	We'd like to thank the EPA, NHTSA and partner	
18	agencies for the collaborate approach it took in	
19	delivering this rule, working with the auto	
20	industry and others to understand the technology	
21	and economic aspects of various contributions to	
22	fuel economy and reduced carbon intensity.	
23	We also would like to recognize the	
24	significant technical analysis the agency undertook	
25	in support of this proposal.	

EPA/NHTSA	PUBLIC	HEARING
-----------	--------	---------

In short, we believe this is a sound and economically-sensible proposal that will provide one of the most significant cost-effective improvements in energy efficiency and carbon reduction with the correlated environmental and energy security benefits available to the U.S.

We also appreciate that the agency sought to make this rule largely performance-based rather than prescriptive, allowing auto makers to select technology options that best fit their business needs and their customers' preferences.

While I'm sure there are improvements EPA might make in the administration efficiency of the rule and possible ways to make it less burdensome for auto makers in general, we think this reflects a very sound approach to regulation.

From our own perspective, we are producing a number of materials that can help auto makers cost-effectively increase efficiency and reduce carbon intensity, and we know many of our competitors are doing so as well.

From our knowledge of these markets, we believe that the proposed standards reasonably reflect materials and technologies that are

## Capital Reporting Company

	101	
1	EPA/NHTSA PUBLIC HEARING	
2	currently or soon to be available. Let me	
3	highlight a few examples from our portfolio.	
4	In my business, we have developed in	
5	collaboration with Honeywell a new auto refrigerant	
6	that is has a global warming potential that is 99.7	
7	percent lower than the refrigerant in common use	
8	today with the GWP of four versus 1,430 for the	
9	current refrigerant.	
10	This means that any leaks from auto	
11	air-conditioning systems that are using the new	
12	product would result in negligible greenhouse gas	
13	emissions as compared to the current product.	
14		
15	This refrigerant is also highly efficient	
16	versus the other refrigerant options improving fuel	
17	efficiency.	
18	This new product, HFO-1234yf, which DuPont and	
19	Honeywell will market and sell independently, will	
20	cost-effectively provide a significant improvement	
21	in the greenhouse gas performance of auto	
22	air-conditioning systems.	
23	We agree with the agency's proposal to provide	
24	a bankable compliance credit for the use of low-GWP	
25	refrigerants such as HFO-1234yf and support the	

	102
1	EPA/NHTSA PUBLIC HEARING
2	maximum credit option.
3	We produce a number of light-weight polymers
4	that are dimensionally stable at high temperatures
5	that allow for vehicle light-weighting.
6	This can allow the replacement of heavier
7	metal components in applications such as intake
8	manifolds to reduce vehicle weight without any
9	reduction in safety and improving fuel efficiency.
10	Similarly, our polymers and elastomers or
11	synthetic rubbers such as DuPont Zytel are critical
12	components of performance and efficiency-boosting
13	technologies like turbocharging that can
14	significantly improve fuel economy.
15	We also produce insulating and separator
16	materials for applications such as supercapacitors,
17	which enable technologies like regenerative
18	breaking systems, allowing electric and electric
19	hybrid cars to recapture the energy used in
20	breaking as electricity.
21	Our new Energain battery separator with
22	nanofiber technology is designed to improve the
23	output and increase the life of lithium ion
24	batteries for electric and electric hybrid
25	vehicles.

Capital Reporting Company
103
EPA/NHTSA PUBLIC HEARING
DuPont Energain battery separators can
increase power 15 to 30 percent, increase battery
life up to 20 percent, and improve battery safety
by providing stability at high temperatures.
With more battery power, drivers can travel
further on a single charge and accelerate more
quickly and safely. More battery power can also
reduce the number of batteries typically required
in today's electric and hybrid vehicles.
We are also working on low-friction tires and
paints to reduce the overall of vehicles to
further enhance their fuel efficiency.
On the fuel side, Pioneer Hybrid, the DuPont
business, is driving continuous improvements in
yields of corn and soy beans allowing steadily
rising production per acre, which means more
low-carbon biofuels per acre every year.
DuPont also provides high quality enzymes that
improve the efficiency and performance of grain bio
refineries allowing them to maximize the conversion
of grain to fuel.
We're making cellulosic ethanol today from
corn, the remains from the plant when corn kernels

are removed, and will soon be producing it on a

	104
1	EPA/NHTSA PUBLIC HEARING
2	commercial scale bringing to market a biofuel with
3	a significant improvement in life cycle greenhouse
4	gas performance versus both petroleum and
5	first-generation ethanol.
6	Similarly, we have developed and will soon
7	commercialize the high performance drop-in biofuel
8	biobutanol, which will reduce the infrastructure
9	required to manage biofuels, reducing their energy
10	intensity.
11	In summary, we thank the agency for the
12	opportunity to provide our views, and we support
13	finalization of the proposed regulation.
14	We look forward to working with the U.S. EPA
15	and our partners in the automotive industry to cost-
16	effectively increase the fuel efficiency of the
17	U.S. vehicle fleet and reduce its carbon intensity.
18	Thank you for your time and attention.
19	MS. OGE: Thank you.
20	Mr. Tom Stricker, good morning.
21	MR. STRICKER: Good morning. My name is
22	Tom Stricker, and I'm Vice President of Technical
23	and Regulatory Affairs at Toyota Motor North
24	America.
25	Thank you for the opportunity to testify today

105
EPA/NHTSA PUBLIC HEARING
and also for all the work that the agencies,
including the California Air Resources Board, have
done preparing this proposal.
My message today is simple. Toyota supports
the joint proposal. Not every detail is exactly as
we would have liked, but the overall proposal is
largely consistent with what we envisioned when we
signed the letter of commitment last summer.
Absent these regulations, we face the
possibility of overlapping and potentially
conflicting regulations from two separate federal
agencies and over a dozen states.
Such a system would make technology and
product planning next to impossible. While we
support this kind of proposal what we ultimately
want and need is a true single national standard
governing vehicle fuel economy and greenhouse gas
emissions.
Toyota's top priority is to build vehicles
that meet the needs of our customers while also
being safe, durable and better for the environment.
To minimize our environmental footprint, we
continue to improve conventional vehicle and engine
technology, and we're accelerating the rollout of

	106
1	EPA/NHTSA PUBLIC HEARING
2	conventional hybrids.
3	The Prius family of hybrids already includes
4	the ground-breaking Prius and the all new Prius V
5	cross-over.
6	Within the next few months the Prius C compact
7	and the Prius plug-in hybrid will hit the market.
8	Toyota has sold over 3 million hybrids
9	globally and over 1.5 million hybrids in
10	the U.S. According to our poll, two-thirds of all
11	hybrids' on the road are Toyota vehicles.
12	And we see continued expansion of hybrids as a
13	key strategy in meeting these proposed standards
14	through 2025.
15	But as we think about the long-term challenges
16	of energy supply and climate change, resting on our
17	hybrids' success may not be enough.
18	So like many manufacturers, Toyota is pursuing
19	a portfolio of technologies including not only
20	hybrids and plug-in hybrids, but also electric
21	vehicles and hydrogen fuel cell vehicles.
22	Later this year we'll launch the RAV4 Electric
23	Vehicle powered by Tesla and the Scion iQ EV.
24	By 2015, we plan to launch a zero emission
25	fuel cell vehicle, which many of you saw at the
I	

	107
1	EPA/NHTSA PUBLIC HEARING
2	Detroit Auto Show last week.
3	With all these investments, Toyota has
4	prepared a solid technical foundation as we work to
5	achieve the proposed standards.
6	Nonetheless, meeting a fleet average of 54.5
7	miles per gallon by 2025 will be a daunting
8	challenge for our engineers and our product
9	planners.
10	So much remains uncertain looking that
11	far into the future: The price of fuel, technology
12	advancements, cost reductions, and perhaps most
13	important, consumer expectations and preferences.
14	We must continue to move consumers beyond
15	early adopters into mass market acceptance of these
16	advanced technologies. But if consumers do not
17	respond, the proposed standards are unlikely to be
18	met.
19	As a result of these uncertainties, Toyota
20	supports the midterm review to be completed by
21	2018. Further, a key part of this review should be
22	to maintain the vehicle and fuel systems approach
23	that has worked so successfully in the past by
24	ensuring that vehicle technologies and the fuels
25	needed to enable them are developed in conjunction

		108
1	EPA/NHTSA PUBLIC HEARING	
2	with one another.	
3	Finally, the agencies have proposed a variety	
4	of compliance flexibilities consistent with each	
5	agency's legal authority.	
6	As a general matter, Toyota supports such	
7	flexibilities to the extent that they provide	
8	real-world emissions and oil reductions or to the	
9	extent they promote more rapid deployment of	
10	technology into the fleet.	
11	We simply urge that these flexibilities be	
12	structured in a way that promotes technology	
13	deployment across all vehicle types and all sizes.	
14	I thank you again for the opportunity to	
15	testify, and Toyota looks forward to working with	
16	the agencies until the regulation is finalized.	
17	MS. OGE: Thank you.	
18	I'm now calling Ms. Hillary Bright. Good	
19	morning.	
20	MS. BRIGHT: Good morning. My name is	
21	Hillary Bright. I'm a regional organizer for the	
22	BlueGreen Alliance.	
23	The BlueGreen Alliance, which is a national	
24	partnership of America's largest labor unions and	
25	environmental organizations uniting more than	
ı		

	10	9
1	EPA/NHTSA PUBLIC HEARING	
2	15 million members and supporters in support of a	
3	clean energy economy.	
4	I first would like to commend the Obama	
5	Administration, specifically the White House	
6	Council on Environmental Quality, Environmental	
7	Protection Agency, and National Highway Traffic	
8	Safety Administration for their outstanding	
9	leadership on this critical issue of fuel	
10	standards.	
11	America's working families continue to	
12	struggle to fill their gas tanks in a	
13	steady-but-slow economic recovery.	
14	Through leadership, we have an opportunity to	
15	help save consumers money at the gas pump, create	
16	and preserve American jobs, and strengthen the	
17	economy by setting strong fuel efficiency and	
18	greenhouse gas standards.	
19	The BlueGreen Alliance strongly supports the	
20	proposed light-duty vehicle standards for model	
21	years 2017 through 2025, fuel efficiency to 54.5	
22	miles per gallon, and eliminating greenhouse gas	
23	emissions to 163 grams per mile.	
24	The proposed standards build upon the success	
25	the current realm of standards for model years 2012	
I		

	110
1	EPA/NHTSA PUBLIC HEARING
2	through 2016.
3	Combined with the Administration's effort to
4	improve vehicle efficiency and reduce pollution by
5	2025, the United States could save an estimated
6	12 billion barrels of oil and six billion metric
7	tons of CO2 by implementing the proposed standard.
8	Every day our country sends a billion dollars,
9	a number we've heard many times this morning, to
10	foreign countries to pay for oil. Strong standards
11	will keep more of these dollars here in the United
12	States and move America to a more efficient
13	advanced vehicle fleet creating hundreds of
14	thousands of jobs and economic opportunities both
15	inside and outside the auto industry.
16	Based on the Agencies' thorough initial
17	assessment, the net consumer savings on fuel
18	expenditures will be very substantial and provide
19	much needed relief at the pump. This means more
20	savings for American drivers and more money staying
21	in the economy.
22	A recent report by a series of allied
23	coalition investors, environmental organizations
24	and public interest groups shows that economic
25	benefits for improved fuel efficiency result in the

	111
1	EPA/NHTSA PUBLIC HEARING
2	creation of approximately 24,000 badly needed jobs
3	in Pennsylvania alone.
4	Furthermore, by developing and producing
5	advanced fuel saving technology in the United
6	States, auto makers and suppliers can create
7	quality jobs, provide the clean fuel-efficient cars
8	and light trucks consumers want.
9	Evidence already exists that bringing
10	cleaner vehicles to the market creates American
11	jobs. For example, the Advanced Technology
12	Vehicles Manufacturing program will preserve or
13	create nearly 40,000 jobs in the U.S. auto sector,
14	retooling America's factories to produce advanced
15	technology vehicles and their key components.
16	The battery and electric drive component grant
17	program is helping establish the United States as a
18	world leader in the production of this existing new
19	automotive exciting new automotive technology.
20	This is a unique opportunity to fulfill your
21	commitment to create American jobs, protect
22	consumers, whether they drive a car or a truck,
23	from high gas prices and to cut America's
24	dependence on foreign oil.
25	BlueGreen Alliance partners are committed to

112 1 EPA/NHTSA PUBLIC HEARING 2 promoting the fact that green auto jobs are a win, 3 win for all Americans, and to raise awareness among consumers of the significance of fuel saving 5 technology. As you finalize the light-duty standard, we 7 look forward to continuing our engagement with your Agency and other stakeholders working to implement 9 a strong standard which will maximize oil savings, 10 reduction of greenhouse gas pollution, strengthen 11 the U.S. auto industry, increase the deployment of 12 advanced technology, promote U.S. automotive jobs, 13 and create more opportunity for American workers. 14 We applaud the efforts undertaken so far, and 15 believe that strong, feasible standards can guarantee the best possible outcome for American 16 17 workers, our communities, the economy, and the 18 environment. 19 Thank you for your time. 20 MR. MEDFORD: Thank you. Mr. Waskow. 2.1 22 MR. WASKOW: I'm Rabbi Arthur Waskow of 23 And thank you to EPA and the Highway 24 Safety Administration for the new proposals on gas 25 mileage.

		113
1	EPA/NHTSA PUBLIC HEARING	
2	I want to report to you that the Jewish	
3	community all across the country is overwhelmingly	
4	in support of the new regulations the proposed	
5	regulations.	
6	There are two reasons for this. One is the	
7	deep concern about reducing the dependence of the	
8	United States, the American public, on oil partly	
9	from foreign sources.	
10	But the second reason is a deep commitment of	:
11	the Jewish community increasing as it sees what is	
12	happening on the planet already, a deep commitment	
13	drawing on very ancient teachings in our tradition	Ī
14	about the protection of the earth.	
15	I want to draw on to two of those stories fro	m
16	the Hebrew Bible that I'm sure you'll be aware of,	
17	though, you may have never thought about them in	
18	this context.	
19	The first is the story of the Garden of Eden.	
20	There are many ways to understand this story. One	!
21	of them is this: God speaking on behalf of realit	У
22	says to the human race there is enormous abundance	!
23	here either to enjoy and show a little	
24	self-restraint, just a little.	
25	But the human beings don't exercise restraint	. •

	114
1	EPA/NHTSA PUBLIC HEARING
2	They eat off of one tree they've been told not to
3	eat from. And the result at the end of the story
4	is the that the abundance vanishes; that they are
5	told they will have to work with the sweat pouring
6	down their faces in order to bring a bare living
7	from an earth which will give forth only thorns and
8	thistles.
9	This is an ancient legend, but it has recurred
10	again and again. Most recently, the story of the
11	Garden of Eden is the story of the Gulf of Mexico
12	two summers ago.
13	Enormous abundance and a little
14	self-restraint. But BP failed to show any
15	self-restraint. Insisted on piercing a mile deep
16	into the ocean and resulted in economic and
17	disaster.
18	And another story, the story of the Pharaoh
19	and the plagues. The plagues were not magic. They
20	were the consequences of rulers who were stubborn,
21	arrogant, unchecked by any public ability to make
22	them pay attention to what was happening.
23	Pharaoh's own advisers at the seventh plague
24	come to him and say don't you understand you're
25	ruining Egypt, your own country. But he won't

	11.
1	EPA/NHTSA PUBLIC HEARING
2	stop. He is addicted to his own power.
3	Today, the pharaohs who are bringing plagues
4	upon the world including, for sure, big oil, which
5	first claimed there was no such thing as global
6	warming or, as I prefer to call it, global
7	scorching. Warming seems so pleasant, even on a
8	day like this.
9	Who first claimed there was no such thing as
10	global scorching. And then claimed that if it was
11	there, it wasn't because of anything human beings
12	were doing. And then claims it's too expensive to
13	do anything about it.
14	Well, we see and the Jewish community is
15	more and more aware five years ago there were
16	two Jewish organizations that address this question
17	from a Jewish standpoint, the Shalom Center and the
18	Coalition on the Environment of Jewish Life.
19	Today there are 19. Because throughout the
20	Jewish world in all its sectors it has become
21	apparent that the plagues are being brought upon
22	us, and that the rising of public commitment and

range of organizations, and bodies of public

23

24

25

concern to do something about it has to come from

us, from other religious organizations, from the

Capital Reporting Company 116 1 EPA/NHTSA PUBLIC HEARING 2 opinion that you've already heard and that we'll hear more from. We used to say it was our children and our 5 grandchildren who were at stake. It is certainly them. 7 It is also already true that if you look at what happened in unprecedented droughts and fires in Russia and unprecedented floods in Pakistan and 10 unprecedented droughts and famines in large areas 11 of Africa and -- even if one thought the United 12 States was somehow immune -- to unprecedented 13 droughts in the State of Texas, which most of think 14 is part of the United States, though its governor 15 has occasionally expressed some doubts. 16 As a result of all this, the Jewish community 17 is absolutely committed to support what EPA has 18 proposed, and is prepared to support it against any 19 pressures that are brought to bear by big oil or 20 any other special interests that are putting their 21 own profits, their own power before the protection 22 of the health of the human race and the health of 23 all life forms on planet earth.

Thank you for the decisions that you have proposed, and thank you for welcoming a public that

24

25

	117
1	EPA/NHTSA PUBLIC HEARING
2	is beginning to address this issue in a profoundly
3	serious way.
4	MR. MEDFORD: Thank you very much.
5	Ms. Jillian Hertzberg.
6	MS. HERTZBERG: Thank you. Good
7	afternoon. My name is Jillian Hertzberg, and I am
8	the Federal Clean Vehicles Associate for
9	Environment America.
10	Environment America is the Federation of
11	29 state-based environmental advocacy groups,
12	including Penn Environment here in Pennsylvania,
13	working for clean air, clean water and open space.
14	The standards being discussed here today will
15	be a monumental victory for our environment, and
16	the biggest step this country has ever taken to
17	give up oil and tackle global warming.
18	Our cars and trucks use almost half the oil we
19	use every day and spew out nearly 20 percent of the
20	pollution that contributes to global warming.
21	And our country's dependence on oil has led
22	to devastating environmental disasters from the
23	2010 Gulf oil spill to the spill in the Yellowstone
24	River just last year.
25	Fortunately, these recently proposed standards
I	

118 1 EPA/NHTSA PUBLIC HEARING 2 be a huge step towards addressing these problems. 3 Multiple analyses have shown that the standards will achieve impressive savings for our 5 environment, for our economy, and for our national security. 6 7 A recent report I wrote with a cute title "Gobbling Less Gas For Thanksgiving" evaluated the impact a standard would have over the Thanksgiving 10 travel week alone, one of the busiest weeks of the 11 year for auto travel. 12 My analysis found that if an average car or 13 truck met the proposed 2025 standards today over 14 the 2011 Thanksgiving weekend alone, Americans 15 would have used 75 million fewer gallons of oil and 16 would have cut emissions of carbon pollution by 17 47 percent, all while saving Americans \$260 million 18 at the gas pump. 19 The standards obviously lead to even greater 20 savings over the course of an entire year. 21 An analysis by the Union of Concerned 22 Scientists and the Natural Resources Defense 23 Council found that by the year 2030 the standards 24 would reduce oil use by 23 billion gallons each

year, cut annual carbon pollution emissions by

25

	119
1	EPA/NHTSA PUBLIC HEARING
2	280 million metric tons, and save American
3	consumers \$45 billion at the gas pump each year.
4	Clearly, these standards will bring us
5	cleaner, more fuel-efficient cars and trucks that
6	are better for our environment, for our economy,
7	and for our national security.
8	As proposed, the 2017 to 2025 fuel efficiency
9	and carbon pollution standards will reap huge
10	savings in oil use and global warming pollution,
11	but we must ensure that the final standards are
12	strong and don't include loopholes which could
13	erode the potential environmental benefits.
14	Two areas of the proposed standards deserve
15	particular attention. First, the standards should
16	be strengthened to more fully account for the
17	emissions of electric vehicles.
18	While electric vehicles do not emit any
19	pollution while driving, they're not completely
20	emission free.
21	They are usually charged by an electricity
22	grid that is still largely made up of highly
23	polluting coal-fired power plants.
24	These emissions must be addressed in order to
25	reap the full benefits of the standards.

	120
1	EPA/NHTSA PUBLIC HEARING
2	Second, in the first few years of the standards,
3	pickup trucks are not required to make improvements
4	as quickly as passenger cars.
5	It is vital that the efficiency and pollution
6	reduction improvements in trucks not lag behind
7	that of passenger cars in order to maintain the
8	benefits of oil savings and pollution reductions
9	from the standards.
10	We applaud the agencies for your work to bring
11	about landmark improvements in fuel efficiency and
12	carbon pollution standards.
13	And over the past three weeks alone we've been
14	able to generate over a thousand comments in
15	support of these standards here in the City of
16	Philadelphia.
17	We urge you to take these comments into
18	consideration and to put forth the strongest
19	possible final standard this summer in order to see
20	the maximum potential environmental benefit.
21	Thank you for the opportunity to testify
22	today.
23	MR. MEDFORD: Thank you very much.
24	Ms. Leicher.
25	MS. LEICHER: I'm Dorothea Leicher.

		121
1	EPA/NHTSA PUBLIC HEARING	
2	I speak as a citizen. My background, which	
3	got me here, includes both my membership at the	
4	Ethical Humanist Society of Philadelphia, which is	
5	a humanist religious organization, which got me to	
6	join the League of Conservation Voters, which	
7	alerted me that this hearing was taking place	
8	today.	
9	More pertinent to this discussion is that I	
10	work as psychotherapist, and I also work with	
11	people who have addictions.	
12	And I agree that the current initiative	
13	involves reeducation of consumers and change of	
14	consumers' behavior.	
15	And a lot of people, especially in the auto	
16	manufacturing business, have expressed concerns	
17	that even if they use the technology, that	
18	consumers will not buy the products, and advocate	
19	it for a review in the process of the	
20	implementation.	
21	Based on my experience in working with	
22	addicts, I will strongly urge that the standards	
23	have to be upheld and, if anything, that any	
24	exemptions and loopholes would have to be shoul	d
25	be eliminated.	

122 1 EPA/NHTSA PUBLIC HEARING 2 And the reason for that is, one of the things that has not been addressed is the considerable 3 power of advertisement. And if we look at it, 5 especially in the United States, the power is extreme. 7 One of the differences between us and other countries -- and I speak from experience because I come from Germany -- is that we lag behind most 10 industrialized nations in the acceptance of global 11 warming. 12 And it's actually been a trend that currently 13 we have fewer people who understand that global 14 warming exists than we did in the past. And that 15 is due to a massive advertising campaign by the oil companies. 16 17 So it is a testament to the effect --18 unfortunately, in this case negative to the effect 19 of public education to advertising. I firmly 20 believe that it can be turned around to a positive 2.1 effect. 22 And we've heard from Mark Cooper that 23 consumers are interested in fuel efficiency. 24 strongly believe that they can be educated. 25 I see that time and time in my practice.

	123
1	EPA/NHTSA PUBLIC HEARING
2	Once people make the decision that they have
3	to get off an addiction, whether it's alcohol,
4	drugs, prescription drugs, and then make the
5	commitment then they find their way.
6	Mr. Cooper also has mentioned that typically
7	when you look at development of new technologies,
8	development of new coping mechanisms, you think you
9	cannot do it, but practical experience supports
10	that once you made the commitment, you can do it.
11	And I think if the rules are strict and
12	comprehensive, it still provides a level playing
13	field, it will allow the industry to plan more, and
14	then also to educate the consumers for the
15	long-term benefits of possibly investing more
16	initially to get the payoffs in reduced
17	consumption.
18	It can also unite consumers and manufacturers
19	to work politically to defray some of the initial
20	investment costs.
21	I would also support the ideas that Mr. Willis
22	presented that in the description in this
23	specifications of vehicles that information about
24	reduced running expenses of cost should be included
25	similar to the way we have Energy Star

## Capital Reporting Company

	124
1	EPA/NHTSA PUBLIC HEARING
2	requirements.
3	And people are responding to that. That could
4	be done with cost just as well.
5	Thank you very much for the opportunity.
6	MR. MEDFORD: Thank you.
7	Any questions for my colleagues?
8	Okay. I'd like to thank the Panel very much
9	for your testimony.
10	We're ready for the next Panel.
11	MS. OGE: Good morning. We will start
12	with Mr. Joseph Minot.
13	MR. MINOT: Good morning. Can you hear
14	me fine?
15	MS. OGE: Yes, we can.
16	MR. MINOT: My name is Joseph Minot. I
17	am the Executive Director of the Clean Air Council,
18	an environmental advocacy group active in
19	Pennsylvania, Delaware and New Jersey.
20	Much like Representative Babette Josephs, I do
21	not own a car. I'm a lifelong non-smoker, yet I
22	suffer from lung disease. And my wife and my son
23	suffer from asthma. So I feel fairly passionate
24	about this issue.
25	I was interested, though a little

	125
1	EPA/NHTSA PUBLIC HEARING
2	disappointed, that the representative from the auto
3	dealers association, who presumably breathes the
4	air, not once mentioned the public health benefits
5	of this rule.
6	Nevertheless, his perspective on the need to
7	provide the information to consumers so that they
8	can make informed decisions on payback time should
9	be taken seriously by the EPA.
10	I would like to thank the United States
11	Environmental Protection Agency for its work on
12	this important issue, and for providing the public
13	comment opportunity on this proposal to further
14	reduce greenhouse gas emissions and increase fuel
15	efficiency of cars and small trucks.
16	EPA's proposed regulations stem from the
17	president's request in 2010 that EPA work with the
18	National Highway Traffic Safety Administration to
19	develop a national program that would, quote,
20	produce a new generation of clean vehicles, closed
21	quotes.
22	The proposed regulations meet this goal with
23	great success by promoting the manufacturing of
24	cleaner and more efficient vehicles allowing the
25	nation to take another crucial step towards curbing

	126	5
1	EPA/NHTSA PUBLIC HEARING	
2	global warming and decreasing our nation's	
3	dependency on foreign oil.	
4	The EPA's proposed standards to require an	
5	average of 163 grams per mile of carbon dioxide by	
6	2025 will effectively double the fuel efficiency of	
7	cars and light trucks produced through 2017 and	
8	2025.	
9	Strengthening the fuel efficiency of vehicles	
10	to this degree will have significant and far	
11	reaching effects. It will save individual	
12	consumers thousands of dollars on gas.	
13	It will slash harmful greenhouse gas	
14	emissions, it will reduce our nation's dependence	
15	on foreign oil, and ensure our automotive industry	
16	will remain among the most competitive in the	
17	world.	
18	It is not therefore surprising that the	
19	proposal to strengthen regulations is widely	
20	supported by environmentalists and industry alike.	
21	Auto makers constituting 90 percent of the	
22	U.S. auto market and the United Auto Workers worked	
23	alongside environmental groups as well as state and	
24	federal officials to make this historic goal.	
25	I have been at the Clean Air Council since	

		127
1	EPA/NHTSA PUBLIC HEARING	
2	1982, and I have not seen a coming together like	
3	this.	
4	I wish I had the rabbi's gift of gab to tell	
5	you how important this is.	
6	Nationally, vehicles currently emit	
7	approximately 1.7 billion billion	
8	tons of CO2 each year, which constitutes 28 percent	t
9	of our national carbon footprint.	
10	By 2030 these proposed standards will reduce	
11	our nation's oil consumption by 1.5 million	
12	barrels of oil per day.	
13	The proposed regulations will also save	
14	consumers \$80 million at the pump and create up to	
15	150,000 new jobs for Americans.	
16	In addition, the regulations provide strong	
17	incentives for electric and hybrid vehicles	
18	allowing the auto industry to capitalize on	
19	investing in cutting-edge technology.	
20	The council would however like to raise a	
21	number of concerns to the EPA. I'm going to take	
22	this time to incorporate by reference the testimony	У
23	of Kevin Stewart of the American Lung Association,	
24	who I thought had some very interesting suggestions	S
25	for EPA.	

	128
1	EPA/NHTSA PUBLIC HEARING
2	The EPA should carefully reevaluate the
3	testing procedures used in determining fuel
4	efficiency, and determine whether the footprint
5	model will incentivize manufacturers to build
6	larger vehicles.
7	The current testing procedures employed by EPA
8	to determine fuel efficiency are based on the
9	original 1975 rules first established in CAFE
10	standards, and are inflated on average 25 percent
11	above EPA's own best estimates of actual
12	on-the-road fuel efficiency that appear on new
13	vehicle labels in dealerships.
14	EPA should also carefully evaluate the
15	regulatory scheme to ensure manufacturers will not
16	simply build larger vehicles.
17	Again, the council applauds EPA and its staff
18	in promoting a new generation of cleaner, more
19	fuel-efficient vehicles.
20	As EPA continues to push for stricter
21	regulations, the council asks that it work to
22	update its testing procedures to more accurately
23	determine the fuel efficiency standards and also to
24	ensure manufacturers are unincentivized to build
25	larger vehicles.

## Capital Reporting Company

	129
1	EPA/NHTSA PUBLIC HEARING
2	Thank you very much.
3	MS. OGE: Thank you.
4	Ms. Jane Speaker, good morning.
5	MS. SPEAKER: Good morning. I'm a
6	resident of Center City Philadelphia and have been
7	since 1967.
8	As a pharmacologist and later as a
9	toxicologist working in the city's morgue, I have
10	seen firsthand the lungs of city residents are much
11	blacker often than the pinker lungs of people and
12	individuals from suburbs and farms.
13	Stand on the corner around here, any corner,
14	maybe right outside this hotel, what do you smell,
15	auto exhaust for sure. Maybe other smells, good
16	and bad.
17	Then look around, see the vehicles waiting for
18	a light to change, motors running. We're breathing
19	that exhaust, and our lungs are exposed to that
20	soot.
21	Sure, there are other sources: Manufacturing,
22	heating, planes overhead, but any reduction in auto
23	exhaust will help us. There are plenty of reasons
24	for reducing our use of petroleum in vehicles.
25	Maybe it's late for me, but I support this
I	

	130
1	EPA/NHTSA PUBLIC HEARING
2	proposed clean air regulation particularly for its
3	potential contribution to the health of my younger
4	neighbors, their kids, and the rest of us who live
5	or work in our nation's cities.
6	Thank you for this opportunity.
7	MS. OGE: Thank you.
8	Mr. Edward Perry, good afternoon.
9	MR. PERRY: My name is Edward Perry. I'm
10	an aquatic biologist working with the National
11	Wildlife Federation on their clean energy and
12	climate campaign.
13	I'm also a lifelong fisherman and hunter. My
14	wife and my two sons and I have fished and camped
15	and hiked all over our great country.
16	So what is a fuel efficiency standard for
17	trucks and cars have to do with fishing and
18	hunting? As it turns out, quite a bit.
19	Although some Americans are in denial about
20	the fact that our planet is heating up and we're
21	the cause driving this, there are no skeptics in
22	the natural world.
23	Already every plant and animal that can move
24	north is doing so. Scientist predict that if the
25	temperatures increase as much as forecast, we could

	131
1	EPA/NHTSA PUBLIC HEARING
2	lose as much as 40 percent of the species on the
3	planet.
4	That's the prediction. But the fact is fish
5	and wildlife are already being affected by the
6	small increase in temperature we've already had.
7	For example, in 2005, which was the hottest
8	year on record, I was fishing the Susquehanna River
9	for Smallmouth Bass with my two sons like we've
10	been doing for the past 30 years.
11	Six miles upstream from Harrisburg, I recorded
12	a water temperature of 90 degrees. In that weekend
13	we saw hundreds and hundreds of Smallmouth Bass
14	floating downstream. They were killed by a common
15	soil and water bacteria called Columnaris that's
16	always been in the river.
17	And since that year there have been repeat
18	kills of Smallmouth Bass in some of our finest
19	Smallmouth Bass streams in the Eastern United
20	States that have been brought on primarily by the
21	high water temperatures that affect these fish that
22	are already stressed by other stressors such as all
23	the chemicals we're putting in the water.
24	But it's not just Smallmouth Bass. Fishery
25	scientists predict that the temperature increase

Capital Reporting Company 132 1 EPA/NHTSA PUBLIC HEARING 2 will eliminate the Brook Trout, the iconic species for the Northeastern United States from that part of our country. 5 This is the species that's been here for millions of years that will be eliminated because 7 we didn't have the will or foresight to reduce greenhouse emissions while we still had the time. 9 You have to wonder how selfish is that. 10 Unfortunately, there's no one silver bullet that's 11 going to reduce carbon pollution to safe levels. 12 We're going to need every tool that we have. 13 But your proposal to greatly decrease fuel 14 consumption by increasing gas mileage requirements 15 is going to be a huge step in the right direction. 16 Frankly, I have absolutely no idea if we can 17 achieve 54 miles to the gallons for trucks and 18 But I do know that every time our country

has set what appears to be an insurmountable goal, we have met that.

Think back to we putting a man on the moon, and think back to 1975 when we required the auto companies to double fuel efficiency standards to 27 miles to the gallon.

25 They said that it could not be done; that we

19

20

21

22

23

24

	133
1	EPA/NHTSA PUBLIC HEARING
2	all would be driving cars the size of Pintos. And
3	guess what, that didn't happen either.
4	It's long past time that we get begin the
5	process of getting off dirty fossil fuels and on to
6	clean energy and fuel-efficient vehicles.
7	This is one sportsman and one organization
8	that strongly supports the proposed rule that's
9	going to get us there.
10	Thank you.
11	MS. OGE: Thank you.
12	Ms. Julia Rege.
13	MS. REGE: My name is Julia Rege. I'm
14	the Senior Manager of Environment and Energy with
15	the Association of Global Automakers.
16	Global Automakers represents international
17	motor vehicle manufacturers, original equipment
18	suppliers and other automotive-related trade
19	associations.
20	Our members' market share of both U.S. sales
21	and production is nearly 40 percent and growing.
22	Global Automakers and its members have always
23	endorsed a comprehensive and harmonized national
24	approach to reducing greenhouse gas emissions and
25	improving fuel economy.

134 1 EPA/NHTSA PUBLIC HEARING 2 The alternative of having to comply with a 3 patchwork of state requirements would add significant costs resulting in higher vehicle 5 prices with no corresponding environmental or energy security benefits. 7 We have been working with the Environmental Protection Agency, Department of Transportation and 9 California Air Resources Board to create a program 10 that meets our national environmental and energy 11 objectives while providing manufacturers the 12 flexibility and lead time necessary to design and 13 build advanced technology vehicles that will 14 provide consumers a full range of vehicle choices. 15 This proposal brings us another step closer to 16 the goal of having a long-term single national 17 program. 18 The standards proposed by the agencies are 19 extremely stringent and are based on a large number 20 of assumptions of technology in the auto market 2.1 over the next 15 years. 22 By extending the standards for many years into 23 the future, the agencies provide manufacturers with 24 substantial lead time, which is of great value in 25 compliance planning.

	135
1	EPA/NHTSA PUBLIC HEARING
2	On the other hand, the long lead time involves
3	substantial uncertainty, especially in the later
4	years.
5	For this reason, we support the proposed
6	midterm review to reassess the stringencies of the
7	standards including technology penetration rates,
8	fuel costs, the availability of alternative
9	refrigerants, and most importantly consumer
10	acceptance.
11	We also support the flexibility mechanisms and
12	credits that the agencies proposed to make
13	available.
14	These provisions enhance the ability of
15	manufacturers to meet market demand while
16	maintaining the emissions and energy security
17	benefits of the program.
18	They also provide other means of dealing with
19	the uncertainty associated with the out year
20	standards. The various credits work in different
21	ways, all of which are important.
22	The credit banking and trading system
23	provides an incentive for manufacturers to
24	implement advanced technology at early dates.
25	Off-cycle credits provide incentives for

1 EPA/NHTSA PUBLIC HEARING

manufacturers to perceive technology that produce benefits and actual on-road driving, but are not measured using the prescribed standard laboratory driving cycle.

2.1

Advanced technology credits provide an incentive for manufacturers to continue to develop and market these technologies, which have the potential for substantial long-term improvements in fuel economy and emissions performance.

Air-conditioning system credits provide
manufacturers flexibility in pursuing a variety of
enhancements to system efficiency and the use of
advanced low global warming refrigerants.

We see the flexibility mechanism as an essential part of this program.

We also support the credit base compliance option for the methane and nitrous oxide standards, as well as the new upward adjustment approach to allow these emissions to be included with carbon dioxide emissions.

However, we see no need for the proposed prohibition on the use of different compliance options for methane or nitrous oxide for cars and light trucks in the same year.

		137
1	EPA/NHTSA PUBLIC HEARING	
2	This restriction limits manufacturers'	
3	compliance flexibility, but with no clear	
4	environmental benefit.	
5	With regard to the proposed requirement for	
6	testing to measure nitrous oxide emissions	
7	beginning in model year 2017, we urge EPA to	
8	reconsider the cost effectiveness of this	
9	requirement.	
10	The quantity of these emissions is quite low,	
11	and we see no indication that they will become an	
12	important factor in climate change in the future.	
13	Testing for this substance will require	
14	extensive new analyzers, the performance of which	
15	remains to be determined.	
16	We urge the agencies to allow manufacturers t	0
17	continue to demonstrate compliance using the 2017	
18	methodology in 2017 and thereafter.	
19	EPA could monitor these emissions and adopt a	L
20	few test base requirements in the future should	
21	they grow in significance.	
22	Additionally, Global Automakers supports the	
23	case-by-case small volume manufacturer approach as	}
24	well as the definition for small volume	
25	manufacturers.	
ı		

138 1 EPA/NHTSA PUBLIC HEARING 2 The case-by-case greenhouse gas standards and 3 fuel economy standards for small volumes allow the flexibility of the small segment of the industry 5 needs while mandating requirements necessary to control greenhouse gas emissions. 7 Finally, while we understand fuel-related issues are outside the scope of the current proposal, we continue to support a system approach 10 with both vehicle technologies and fuel quality 11 being of paramount importance. 12 Gasoline will be instrumental in auto makers 13 introducing the advanced technologies needed to 14 comply with these proposed standards, and a number 15 of advanced technologies will involve significant infrastructure issues. 16 17 We look forward to working with the agencies 18 on these issues under the upcoming EPA Tier 3 19 regulations and in other forms including the 20 midterm review. 2.1 We are continuing to analyze the proposed 22 regulations, and will address in greater details in 23 our written comments the matters we've described 24 today as well additional issues. 25 In closing, let me restate our strong support

## Capital Reporting Company

	139
1	EPA/NHTSA PUBLIC HEARING
2	for this program and the inclusion of the
3	compliance flexibility mechanisms.
4	We look forward to continuing to work with the
5	agencies.
6	MS. OGE: Thank you.
7	Shalimar Blakely, good afternoon.
8	
9	MS. BLAKELY: Good afternoon. My name is
10	Shalimar Blakely, and I'm a resident of
11	Philadelphia, a parent, and a supporter of the
12	Obama administration's proposed new global warming
13	and fuel efficiency standards.
14	This move is not only a major step in reducing
15	the national the nation's oil use, but also
16	reduces harmful emissions from vehicles that
17	pollute our environment.
18	As a parent of a child with asthma, I
19	understand the impact this proposal will have on
20	his health and the health of thousands living with
21	asthma in many African-American communities.
22	Like myself, 64 percent of African-Americans
23	in Philadelphia describe their air quality as only
24	fair or poor. And it's this poor air quality that
25	plays a major role in causing asthma in children.

	140
1	EPA/NHTSA PUBLIC HEARING
2	This is why myself and many other
3	African-Americans overwhelmingly support the EPA's
4	new standard to reduce greenhouse gas emissions
5	from cars and trucks.
6	My son and other children of urban communities
7	have a right to look up at night and see a sky full
8	of stars and not a blanket of pollution that hides
9	them. They deserve to breathe fresh air.
10	The Obama administration should be applauded
11	for their leadership to address this matter.
12	In addition to saving the American consumers
13	money and creating jobs, this proposal will have a
14	positive impact on our environment, my son's
15	health, and the health of the African-American
16	community.
17	Thank you.
18	MS. OGE: Thank you.
19	Reverend Cheryl Pyrch, good afternoon.
20	MS. PYRCH: My name is Cheryl Pyrch. I'm
21	the pastor at Summit Presbyterian Church in
22	Philadelphia, and I also represent the Pennsylvania
23	Chapter of Interfaith Power and Light, a national
24	organization serving about 14,000 congregations.
25	The mission of Interfaith Power and Light is to
Ī	

141
EPA/NHTSA PUBLIC HEARING
help organizations understand the dire the dire
threat of climate change and to help them understand
the religious importance of doing everything we can
do to fight it, including buying more
fuel-efficient vehicles.
So we will gladly help educate our
parishioners on this. We also bring our collective
voice to hearings such as these.
I want to thank the agencies for bringing
these strong standards to us, the Administration of
Barack Obama, and Administrator Lisa Jackson.
Thank you also for allowing me to testify
today. As people of faith, we believe that the
natural world and all that is in it is a gift from
God to be received with gratitude.
Oil is a gift that has allowed billions of
people to live lives of security and comfort,
unimaginable to previous generations, but receiving
it with gratitude means wasting as little of it as
possible.
Conserving oil will also conserve room in the
atmosphere for which we now know that there is only
a limited amount of space for the carbon that we're
putting up there.

142 1 EPA/NHTSA PUBLIC HEARING 2 As people of faith, we believe conservation is 3 a moral imperative because those who will suffer most from global warming, who are already suffering 5 most, are those who have done the least to cause it, the poor of the world, who have never turned the 7 key in the ignition of a passenger car or a light-duty truck, future generations, and also many animals. 10 I'd also just like to say a personal story. 11 Before I moved to Philadelphia three years ago, I 12 lived in New York City, and was a happy user of 13 only the subway buses and trains. 14 But in moving to Mount Airy, I bought my first 15 car, a 2002 Prius. And for the first time felt the 16 joy of turning a wheel and having the car obey, the 17 pleasure of getting into a warm car whenever I 18 wanted to, and going wherever I wanted to. 19 So I have become a little less self-righteous 20 in my criticism of car ownership and car driving, 21 but I also feel that now I have experienced 22 firsthand the soft idolatry that we all have for 23 our cars and our trucks. 24 And this may be going a little too far. 25 do believe that any standard that helps us to drive

	143
1	EPA/NHTSA PUBLIC HEARING
2	more efficiently and that helps us to drive more
3	possibly less greedily will also strengthen the
4	spiritual health, as well as the physical health of
5	all of those who drive in this country.
6	So thank you for proposing these standards,
7	and thank you for having us testify. And I wish
8	you many blessings on your work.
9	MS. OGE: Thank you.
10	Mr. Joe Herman, good afternoon.
11	MR. HERMAN: Good afternoon. My name is
12	Joe Herman. I'm a web programmer, a husband and a
13	father of two children.
14	I'm not involved in the auto industry. I've
15	never been particularly active with respect to
16	environmental causes. I've never testified in a
17	forum like this before.
18	In fact, I'm frankly terrified of public
19	speaking, but I got on the train and came down here
20	anyway in spite of myself because I know that there
21	are millions of other people a lot like me who feel
22	the way I do, but won't be heard today, people who
23	want more efficient cars, but have a hard time
24	finding them;
25	Millions of people who are deeply worried
Ī	

	144
1	EPA/NHTSA PUBLIC HEARING
2	about climate change, but who know that their own
3	personal choice is not enough to address it;
4	People who are tired of seeing our money and
5	our military going overseas so that we can feed our
6	national oil addiction;
7	People who have great faith in the power of
8	free markets to solve our problems, but who
9	understand that this is a problem we all share, and
10	so it requires solutions that we all share in as
11	well.
12	Now, I know that these standards aren't going
13	to magically reverse climate change or wean us off
14	foreign oil all together, but they are an enormous
15	step in the right direction, perhaps the biggest
16	single step the country has ever taken.
17	Now, these standards are largely achievable
18	using existing technology while still being
19	aggressive enough to make a meaningful difference.
20	At the same time they will also foster development
21	of new and emerging technology like plug-in hybrids
22	and electric vehicles.
23	It will make efficiency even more cost
24	effective than it is today. These technologies
25	will continue to serve for generations to come.

	145
1	EPA/NHTSA PUBLIC HEARING
2	My kids are eight and five years old right
3	now. They'll both begin driving during the period
4	covered by these standards.
5	Climate change and energy dependency are not
6	going to go away by then, but I desperately hope
7	that the world that my kids will be living in then
8	is one that is meeting those challenges head on
9	rather than running from them as we have been doing
10	for so many years.
11	So I implore you to implement these new
12	standards and do it in a fair way without loopholes
13	so that they really make a difference, but please
14	do it.
15	Thank you for your time.
16	MS. OGE: Thank you, Mr. Herman. And
17	I'm glad you made it, and we're glad to hear your
18	testimony.
19	Mr. Adam Kessler, good afternoon.
20	MR. KESSLER: Thank you very much. My
21	name is Adam Kessler. I'm the Director of the
22	Jewish Community Relation Council in Philadelphia.
23	I'm here today on behalf of the JCRC, as well
24	as the Coalition on the Environment and Jewish Life
25	and the Jewish Council for Public Affairs, all

	146
1	EPA/NHTSA PUBLIC HEARING
2	umbrella organizations supporting over 30 national
3	Jewish organizations.
4	We are pleased to state that we wholeheartedly
5	endorse these new efficiency standards for cars and
6	light trucks.
7	We believe that higher fuel efficiency for
8	vehicles is a significant step that will go a long
9	way for building a cleaner and more secure country.
10	Today one barrel of crude oil cost just over
11	\$100.
12	According to the U.S. Energy Information
13	Administration, U.S. imported over 4.3 billion
14	barrels of crude oil and products in 2010
15	alone.
16	Forbes currently names King Abdullah of Saudi
17	Arabia as the world's six most powerful person
18	because his country controls 20 percent of the
19	world's known oil reserves.
20	On the flip side, Americans consume roughly
21	22 percent of the world's oil, roughly two percent
22	of the world's population and little of its oil
23	reserves.
24	This ruling provides real and concrete action
25	to respond to these facts. It will have a

	147
1	EPA/NHTSA PUBLIC HEARING
2	significant impact on our dependence upon fossil
3	fuels.
4	These new efficiency standards will pay
5	dividends both in terms of extending climate change
6	in the long run and in terms of the impacts on
7	national security in the immediate.
8	Avoiding environmental degradation and
9	catastrophic climate change requires innovation and
10	progress. Auto efficiency standards do just that
11	by asking us to make better use of the technology
12	and know how we have today.
13	In 2008, 12 national Jewish organizations
14	including the Coalition on the Environment and
15	Jewish Life and the Jewish Council for Public
16	Affairs came together to adopt Jewish community
17	priorities for climate and energy policy.
18	The community strongly stated its support for
19	specific domestic policies that reduce our
20	dependence on foreign oil and urge that such
21	policies include measures to increase fuel economy.
22	This year over 30 Jewish community leaders of
23	national organizations have signed the Jewish
24	Environmental and Energy Imperative Declaration,
25	committing to reduce their personal use by

	148
1	EPA/NHTSA PUBLIC HEARING
2	14 percent by September 2014.
3	Along with that personal commitment, leaders
4	are committing to the community-wide intention of
5	reducing greenhouse gases by 83 percent of 2005
6	levels by 2050, a goal set by the U.S. government.
7	It has been long known that inefficient cars
8	come at a great expense to our nation and that this
9	contributes to excessive energy use.
10	We are dependent on other nations, many of
11	them unfriendly to the United States, to provide
12	the world's supply of oil.
13	Thanks to these standards, the EPA has
14	estimated that by 2025 we will be using one billion
15	fewer barrels of oil a year, reducing our
16	dependence on foreign nations and giving our
17	economy and nation more stability and security.
18	Cleaner burning engines use less fuel and emit less
19	pollution.
20	We have been producing dangerous amounts of
21	greenhouse gases that experts across the board
22	agree are responsible for global climate change.
23	Allowing this to go unchecked will have
24	consequences ranging from refugee crisis and food
25	shortages to resource wars and unpredictable

	149
1	EPA/NHTSA PUBLIC HEARING
2	weather changes.
3	Every step in protecting the environment
4	matters and these standards represent a significant
5	movement in the right direction.
6	The Jewish principle of which saying that one
7	should not destroy olive trees and enemy
8	battlefield for the trees last generations where
9	the battle does not.
10	Our energy environment and our health also
11	last for generations. In conserving oil and by
12	making our vehicles more efficient, we are living
13	out the commandment not to wantonly and unecessarily
14	waste our resources. This is why we support the
15	EPA's new fuel efficiency standards.
16	Thank you very much.
17	MS. OGE: Thank you.
18	Mr. Arthur Haywood.
19	MR. HAYWOOD: Thank you. I'm the
20	President of the Board of Commissioners of
21	Cheltenham Township, which is in Montgomery County.
22	Cheltenham Township is a suburb of
23	Philadelphia, and the board of commissioners are
24	elected to govern the township.
25	The township has a small fleet of vehicles and

	150
1	EPA/NHTSA PUBLIC HEARING
2	light trucks and the taxpayers pay for the fuel,
3	and the maintenance of those vehicles that we use
4	for the township operations.
5	Arising cost of gas are one of the top four
6	reasons the top four causes of cost increases in
7	our local government's budget for 2011.
8	We must address these rise in costs, not just
9	stand by and pass the cost onto the taxpayers.
10	So I'm in strong support of these proposed
11	changes that can ultimately reduce our cost of
12	using our vehicles and therefore allow us to avoid
13	passing additional costs onto our taxpayers.
14	In addition in Cheltenham, we recognize the
15	importance of making decisions today to protect our
16	future.
17	And in that regard, we have started a
18	sustainability effort and a sustainability planning
19	group of which I'm the chair.
20	And that sustainability planning group
21	includes Arcadia University, MossRehab, the School
22	District of Cheltenham Township, residents and
23	Transition Cheltenham.
24	One of our goals is to reduce carbon
25	emissions. These proposed regulations would help

## Capital Reporting Company

	151
1	EPA/NHTSA PUBLIC HEARING
2	us to do the same.
3	My third and final reason for supporting these
4	regulations is personal. I have three children in
5	college, one in Boston, one in Baltimore, and the
6	other in New Orleans. That's a lot of driving.
7	The rising cost of fuel creates a personal stress
8	on our family.
9	So I strongly encourage the adoption of these
10	regulations. In doing so on a schedule it's more
11	aggressive than what we have seen in the
12	regulations.
13	Thank you.
14	MS. OGE: Thank you.
15	Any questions for the Panel?
16	I'd like to thank the Panel for your testimony.
17	MR. MEDFORD: Thank you very much.
18	We're going to now move to the next Panel, and
19	add a couple of people to that.
20	Mr. David Champion from Consumers Union, if
21	you would join.
22	Mr. Richard Zilmer, if you would join the
23	Panel.
24	The next Panel.
25	My name is Dr. Judith Patton, my professional
l	

	152
1	EPA/NHTSA PUBLIC HEARING
2	name. I'm a retired physician, a pulmonologist,
3	which means the Panel knows it's the physician who
4	looks after patients with lung disease.
5	I spent my entire life treating patients with
6	asthma and with COPD, which is chronic obstructive
7	airway disease.
8	And these patients are really long-term
9	problems because they as opposed to the patients
10	with cancer, who unfortunately die relatively
11	early, these patients keep coming back and back and
12	back. They are in need of many different
13	medications.
14	There is no substitute for clean air.
15	Although there is no proof of causation with these
16	diseases and dirty air from all exhaust and other
17	matters are well recognized as causations for
18	flare-ups.
19	There is nothing better for an asthmatic with
20	COPD than to get clean air as far as their mental
21	health and their physical health because then they
22	can breathe.
23	I can say this for certain because I have a
24	friend who has obviously had some COPD, although I
25	didn't know it at all. And she went to Maine and her

	153
1	EPA/NHTSA PUBLIC HEARING
2	lungs opened up immediately when she crossed the
3	border, which is not surprising.
4	This is a really serious problem. I, of
5	course, am interested in global warming, and am
6	interested in the economics that we would get from
7	not having to buy foreign oil.
8	However, my major issue is really the medical
9	one, which I want to stress is the most important
10	We have an epidemic of asthma. And certainly in
11	the city and also in the country, there are
12	numerous patients, older patients, who have asthma
13	or who have had asthma before and has come back,
14	patients who have had chronic bronchitis, and who
15	have emphysema, and they all fall into the COPD
16	moniker.
17	Our spending on our health care spending is
18	enormous for this group of patients. And we cannot
19	afford this.
20	The only long-term thing that we have is to
21	reduce these numbers by improving their long-term
22	outcome by passing the clean air bill.
23	Thank you.
24	MR. MEDFORD: Thank you.
25	Next is Mr. Seligson.
l	

	154
1	EPA/NHTSA PUBLIC HEARING
2	MR. SELIGSON: Good afternoon. My name
3	is Paul Seligson. I've lived in the Main Line for
4	22 years in Delaware County.
5	And I am definitely for the CAFE standards for
6	improving and to get cars to go 55 miles per
7	gallon.
8	I have a few reasons. The first is as a
9	child, I had chronic asthma as I this is before
10	inhalers were invented.
11	I got rid of my asthma when I was about 25
12	years old. And in the last seven years it's come
13	back. So now I'm back on inhalers.
14	And I live out in the suburbs. But I can
15	certainly empathize with the people that live in
16	Center City with children who can't get any kind of
17	air that's been filtered by trees or enough oxygen.
18	So that's one of my reasons.
19	Another reason would be we together with China
20	are the two leading power houses in the world.
21	Between the two of us we contribute well over 50
22	percent of all of the pollution.
23	If China doesn't want to move, we should. And
24	we should lead since we like to think of ourselves
25	as a leading country.
I	

## EPA/NHTSA PUBLIC HEARING

Another reason as a leading country we should show all countries and we should kind of set the standards, set the pace, set the idea that to just sit around and allow pollution to slowly suffocate ourselves, and to use every and ever more of our precious dollars buying gasoline, as we kill ourselves, why not just move to the next step and show the world that we know how to lead ourselves through that.

Burning fossil fuels makes us dependent on foreign government. And frequently it has been shown I think in testimony and in different journals that the governments that rely primarily on the export of fossil fuels are more corrupt and have a greater tendency towards a single leader, could be a dictator, could be a totalitarian type of government, and here we are disparaging that type of government, but at the same time we're keeping that kind of government in play.

It would be -- it would behoove our whole foreign policy if we didn't have -- if we weren't funding governments that really we disapproved of.

One of my last reasons that would be  $\mbox{--}$  that we own and drive more cars per capita than anybody

	156
1	EPA/NHTSA PUBLIC HEARING
2	else in the world.
3	In 2005, when I was doing my research, I found
4	that we owned, the United States, had two hundred
5	million cars. By now that was 2005. Who knows
6	what it is in 2012.
7	Since we use motor vehicles to such an extent
8	that we could by just adopting CAFE standards, we
9	could dramatically decrease the amount of pollution
10	in the air that we breathe.
11	And we can be a leadership country showing all
12	countries how to do it. We could also learn
13	ourselves how to do it. We could join the ranks of
14	maybe Switzerland or Germany, the countries who are
15	making an industry out of exporting the knowledge
16	and the technical base of making smart
17	fuel-efficient machinery, electric, how to make
18	electricity without all of this, how to run the
19	cars with electric batteries, with lithium.
20	We could be developing a whole another
21	thing another way of making money for our
22	citizens.
23	People sometimes say, well, you're talking in
24	2030. That's 18 years out. So I like to think
25	what have we achieved going back?

157 1 EPA/NHTSA PUBLIC HEARING Well, 20 years ago, frequently in hotels, 2 3 restaurants and airports there was a smoking area, there was a smoking floor. You could smoke in restaurants. You could smoke in lobbies. You 5 could smoke at the theater and in the lobby. 7 You cannot do that anymore. It's very small little areas for smoking. We've almost turned the corner on smoking in the last 20 years. And I 10 applaud the states for doing that. 11 Going back 30 years, I remember when catalytic 12 converters came into play. That was around 1980, 1981. Many people, not everybody said, wow, why 13 14 are we doing this? We're trying to perfect 15 something that really is not necessary. 16 And now when you get behind a van, a car or a 17 truck that does not have a catalytic converter, you 18 almost fall out of your own car with gasping from 19 the fumes. 20 We accepted, adopted and now it's part of the 21 landscape, catalytic converters. 22 If you go into movements, I'm thinking 40 23 years ago, when the women's lib movement had just 24 started -- I'm from the Bay Area originally. And I 25 thought this was only a Bay Area and a Manhattan

	158
1	EPA/NHTSA PUBLIC HEARING
2	phenomenon period.
3	It's now suddenly, you know, 40 years later
4	it's been embraced by just about every American
5	family.
6	When families make decisions it's equal man
7	and woman putting in their input, coming out with
8	the decision that they want to do on anything. And
9	I applaud that, too.
10	So this is a country that has the ability to
11	move. This is the country that can transform
12	itself.
13	Certain countries have a very difficult time.
14	But I applaud the United States for being able to
15	move.
16	I would like to think forward and then embrace
17	new technology and get better.
18	Thank you very much.
19	MR. MEDFORD: Ms. Spaeth.
20	MS. SPAETH: Thank you. I'm very
21	grateful to you for the opportunity to speak.
22	Though heaven knows what will come out because I'm
23	not organized giving testimony.
24	I've been long interested in the environment
25	and support multiple groups that support the
ı	

	159
1	EPA/NHTSA PUBLIC HEARING
2	environment, Environmental Defense Fund.
3	I'm concerned about the polar bears, about the
4	people that live in the far north whose permafrost
5	is now their houses are sinking.
6	I'm concerned about the air quality here. I
7	have asthma. I have COPD. I have cancer. And I
8	hear every day how these diseases are increasing in
9	groups of people, and yet there have been few moves
10	that I have been able to see that address the
11	causes that you are attempting to do.
12	With these regulations, it's really very
13	exciting. I travel a lot. My husband is a
14	physician and travels all over the world lecturing
15	on glaucoma. So, when I go with him, I see the
16	clouds of smog, the brown clouds.
17	I remember being in Mexico City. This was
18	'72. This was years ago. You couldn't see the
19	blue sky. It was brown. It was the color of
20	cement.
21	This affects everyone. It affects the trees
22	alongside the road. They're dying. Oak trees in
23	Maine are dying.
24	This new regulation will benefit everyone.
25	The short-term effects may frighten people, but the

160 1 EPA/NHTSA PUBLIC HEARING 2 long-term effects will have great benefit both on 3 the health of people, animals, and it will change the quality of the air and the streams because of runoffs from the roads where oil is leaked onto the 5 roads and goes into streams and into the rivers and 7 into the water supply. Our manufacturing does not even deal with the 9 toxins that go into this water. We don't know how 10 to deal with it. 11 So this affords great opportunities for new 12 jobs, new research not only in our own country, but 13 in other countries. 14 And we ask this person that said earlier, we 15 can be leaders in that and should be as what we'd 16 like to call ourselves as the richest country in 17 the world, though sometimes that seems to be a 18 question. 19 We want to lead and lead in a good way and be 20 proud of our leadership. I applaud you for working 21 on this, and I sincerely hope that you are 22 successful in making it as strong as possible so 23 that everyone, not only people, but the inanimate 24 objects as well in the world will benefit. 25 Thank you very much.

	161
1	EPA/NHTSA PUBLIC HEARING
2	MR. MEDFORD: Thank you very much.
3	Mr. Rogers.
4	MR. ROGERS: My name is Nick Rogers. I'm
5	a competitive cyclist and an asthmatic who lives in
6	Philadelphia and I spend most of my time outdoors.
7	I'm a strong supporter of the proposed new
8	standards for car and light truck fuel economy and
9	carbon pollution. I hope my testimony today can
10	help the EPA go forward with the implementation.
11	As someone who suffers from asthma and spends
12	most of my days outside, especially during the
13	summer, when the ozone is already higher during
14	those months, I'm at a particular high risk of
15	health problems caused by air pollution.
16	It's especially important to me to protect my
17	health because of racing bikes. I spend hours
18	every day training outside on my bike, and I'm
19	constantly subjected to the poor air quality both
20	in Philadelphia and other places in Pennsylvania
21	and along the East Coast.
22	I recently biked against other athletes, who
23	take impeccable care of their health. So my lungs
24	need to be physically up to the task every weekend
25	of being pushed to the limit.

162 1 EPA/NHTSA PUBLIC HEARING 2 When air pollution from cars and light trucks 3 causes me to suffer from one problem, and prevent me from performing at a high level, it takes all the hard work that I've done and makes it obsolete. 5 More important than my athletic performance 7 being affected by pollution from cars is the serious impact this pollution has on my health. 9 Nationally, vehicles currently emit 10 approximately 1.7 billion tons of carbon 11 dioxide every year. The vehicles are also 12 significant sources of air pollution such as 13 particulate matter, nitrogen oxide, volatile organic 14 compounds and other toxins. 15 The proposed standards substantially decrease 16 exhaust emissions of these harmful pollutants from 17 these cars and trucks. I fear if the rule isn't 18 adopted, my life might be one of those that might 19 have been saved with the help of this reduced 20 pollution. 21 My high risk for serious lung problems as an 22 asthmatic and as a cyclist makes it crucial to me 23 that the EPA tighten manufacturers' restrictions on 24 cars and light trucks. Otherwise, I and people

like me will cost the government and private

25

163 1 EPA/NHTSA PUBLIC HEARING 2 insurance companies billions of dollars in health 3 care costs, and families burdened by the loss of loved ones because of this pollution. 5 Cleaning up cars and light trucks is critically important because ozone smog causes 7 coughing and wheezing and triggers asthma attacks and sends people to the emergency room and causes heart attacks and strokes, as well as premature 10 death. 11 I think the EPA could do even more, though. 12 The investment in cleaning up even more leads to 13 even greater benefits including more lives saved 14 each year. 15 Thanks for giving me the opportunity to 16 testify about this important issue today. 17 It is my request that the EPA goes forward 18 with the proposed rule and protect everyone's 19 health and air quality, especially those like 20 myself with the higher risk of health problems. 2.1 MR. MEDFORD: Thank you very much. 22 Mr. Elling. MR. ELLING: Good afternoon. 23 I come here 24 primarily as a person of faith and a Quaker leader 25 within Philadelphia.

	164
1	EPA/NHTSA PUBLIC HEARING
2	As a Quaker, I believe that stewardship of the
3	earth is one of our main priorities, and that I
4	currently live within a culture that is addicted to
5	fossil fuels.
6	I personally as a Quaker feel the need to
7	witness and minister to this overuse of fossil
8	fuels, and have been led to lay my car down. I
9	don't I'm not a car owner currently.
10	I still use a car once in a while, and I feel
11	access to using Zip Cars or other cars is good.
12	I think these regulations would be helpful in
13	terms of our care for the earth, in terms of our
14	care for our health, in terms of our care for other
15	citizens of the world, in terms of decreasing the
16	chances of war, and also decreases chances of us
17	spending our lives working huge amounts to deal
18	with health problems and environmental problems
19	rather than really enjoying this beautiful earth
20	that God has given us.
21	Thank you.
22	MS. OGE: Thank you.
23	Mr. Champion, good afternoon.
24	MR. CHAMPION: Good afternoon, and thank
25	you for the opportunity to speak to you.

	165
1	EPA/NHTSA PUBLIC HEARING
2	My name is David Champion. I'm Director of
3	the Automobile Testing Department of Consumer
4	Reports.
5	I appreciate the opportunity to testify at
6	this public hearing and convey Consumer Reports'
7	support for the proposed fuel standards between
8	2017 and 2025.
9	Consumer Reports conducts a whole range of
10	tests on approximately 80 new vehicles every year.
11	We buy these vehicles anonymously to make sure we
12	get the same vehicles that everybody else would.
13	We provide consumers with objective,
14	comparative ratings about the performance, fuel
15	economy, comfort, handling, safety, and reliability
16	of these vehicles. We do not accept advertising.
17	Consumer Reports has more than eight million
18	subscribers to our magazine, Web sites and other
19	publications.
20	Since the inception of Consumer Reports, auto
21	safety and value have been paramount to us. We
22	believe that improving consumer choice is
23	important.
24	It is our view that implementing these
25	proposed fuel economy standards, will increase

166 1 EPA/NHTSA PUBLIC HEARING 2 vehicle choice and provide consumers with more efficient and alternative fuel vehicles. Many of these fuel-saving devices are 5 currently being developed. And in some cars today, we believe these new standards will push auto 7 manufacturers to deploy these new standards without sacrificing functionality of the vehicles. 9 In a recent Consumer Reports survey, consumers 10 demonstrated a strong support for fuel economy 11 standards and alternative fuel vehicles and a 12 willingness to pay more for these technologies. 13 Consumers want it all. They want function, performance, a variety of choices, and better fuel 14 15 economy. And they have indicated that they'd 16 rather pay slightly more for these vehicles if it 17 means they would save money at the gas pump. 18 According to the survey, 93 percent believe 19 that the fuel efficiency standards for all vehicles 20 should be improved. Nearly 80 percent support the 21 55 miles per gallon target for the fleet by 2025 22 As the availability of these vehicles, many 23 consumers would buy or consider an alternative fuel 24 vehicle such as a hybrid, electric vehicle or 25 natural gas.

167 1 EPA/NHTSA PUBLIC HEARING 2 Most are willing to pay extra for the extra 3 fuel economy if the payback is -- will mean a lower overall cost of that vehicle over five years. 5 It's true that when gas prices are relatively low, consumers tend to -- tend to put less emphasis 7 on fuel economy when buying a car. But as we saw in 2008, when gas prices soar, consumers quickly try to sell their vehicles, especially the gas 10 guzzling ones, to buy more fuel-efficient vehicles. 11 Unfortunately, manufacturers cannot design, 12 build and supply these vehicles on a monthly basis. A typical model cycle is about five years. 13 14 And to take the best advantage of weight 15 saving technologies, new fuel efficiency, and 16 engine technologies these decisions need to be made 17 beginning at the model's concept and cannot easily 18 be retrofitted. 19 The CAFE standards for 2017 to 2025 give 20 manufacturers and the engineers working on the cars 21 a competitive landscape that gives them the impetus 22 to incorporate these technologies and sell desirable vehicles that and save consumers money in 23 24 the future. 25 Because the proposed rule provides ample lead

168 1 EPA/NHTSA PUBLIC HEARING 2 time, auto makers will be able to incorporate more of these efficient technologies and materials into their vehicles at the measured pace, thus reducing 5 the costs and putting everybody on the same playing field in the race to find the best most fuel 7 efficient way of meeting the new fuel economy targets. 9 The proposed targets are aggressive, but 10 they're also conservative enough to allow the 11 manufacturers to increase the deployment of new 12 technologies to meet these requirements. 13 Importantly, proposed targets will unlikely 14 compromise vehicle safety. Cars have been getting 15 safe as fuel economy has improved. And this trend 16 will continue. 17 The safety of future vehicles will be 18 dominated by vehicle design, not size and weight. 19 Advanced materials can decouple size form mass and therefore give economy, safety and functionality 20 21 that people require. 22 Because the CAFE standards are now 23 footprint-based, improvements across all vehicle 24 sizes, so each class will see an efficiency. 25 In summary, we support the proposed fuel

	169
1	EPA/NHTSA PUBLIC HEARING
2	economy standards because in addition to achieving
3	national security and environmental goals, they
4	will save consumers thousands of dollars, and
5	improve the selection of fuel efficient and
6	alternative fuel vehicles and maintain the range of
7	wide vehicle options.
8	Thank you for all your time in considering my
9	views.
10	MR. MEDFORD: Thank you very much.
11	Mr. Zilmer.
12	MR. ZILMER: Good afternoon, Members of
13	the Panel, Ladies and Gentlemen. My name is
14	Lieutenant General Rick Zilmer. I'm a retired
15	Marine, and I spent 36 years in the service to our
16	nation.
17	It's an honor to be here. And by way of
18	introduction, let me also tell you that I represent
19	CNA. Some of you may know it is the Center for
20	Naval Analyses. CNA is a think tank in the
21	Washington, DC area that is about to celebrate its
22	70th birthday.
23	The reason we've been invited here to be here
24	today is we just completed a study entitled
25	"Ensuring America's Freedom of Movement, a National

	170
1	EPA/NHTSA PUBLIC HEARING
2	Security Imperative to Reduce U.S. Oil Dependence."
3	This is a study that we spend most of last
4	year working on. It is the fourth in a series of
5	studies conducted by the Military Advisory Board.
6	Those series of studies look at the nexus of
7	national security, global warming, and energy
8	independence of the United States of America.
9	This last study looked a little bit outside of
10	our lane by bringing it into looking at what the
11	potential would be for incorporating the use of
12	alternative fuels to reduce our dependency on U.S.
13	oil and U.S. oil imports into this nation.
14	We are about 11 members in this Military
15	Advisory Board. We have about 400 years of
16	collective experience. I'm not sure why we brag
17	like that. It makes us all seem very, very old.
18	But the board is made up of senior-level
19	admirals, generals who spent their lives, their
20	professional lives, in support of the security of
21	the United States of America.
22	I was invited to join last year, and I think
23	in large part from my role in 2006 to 2007, I
24	commanded all the U.S. forces in Anbar Province in
25	Iraq.

		171
1	EPA/NHTSA PUBLIC HEARING	
2	During that year, we submitted a joint	
3	universal needs statement. And a purpose of a	
4	JUNS, as we call them, was to look at commercial	
5	off-the-shelf technologies that could be used in a	
6	variety of different ways.	
7	We looked at it from a perspective at looking	
8	at the threat that we were encountering in Iraq;	
9	notably, the IED attacks, the ambush that our	
10	Marines, sailor, soldiers and airmen were facing	
11	on a daily basis.	
12	Particularly, on the convoys for very	
13	lucrative targets, those convoys were taking in	
14	most cases fuels, batteries, things that enabled	
15	our force to continue a very difficult fight in	
16	Iraq. And we're seeing the same thing in	
17	Afghanistan.	
18	Looking back in some of my experience at 29	
19	Palms, California, we have one of the largest sola	r
20	fields, the Department of Defense, 29 Palms,	
21	California.	
22	We were looking at wind technologies to help	
23	reduce that use of fuel. We incorporated gas	
24	turbines to help augment the grid out in	
25	California.	

		172
1	EPA/NHTSA PUBLIC HEARING	
2	Based upon some of this experience, we thought	t
3	we could incorporate some of these technologies to	
4	get our Marines and sailors and soldiers off the	
5	roads, reduce the number of convoys and thereby	
6	reduce the threat that we were facing.	
7	I believe that was in large part the reason	
8	why I was invited to join CNA and the Military	
9	Advisory Board.	
10	But the study that we spent the last five	
11	years working on or the last year rather and	
12	I'll leave a copy for the Panel here was based	
13	upon this overreliance that we have.	
14	United States of America uses about 20 billion	ח
15	million barrels of oil a day. 11 million of that	
16	is imported. And it has been brought out in the	
17	Panel it's often imported from customers who would	
18	rather not have to work with you.	
19	It's a fact of life. And as many of you in	
20	the audience remember back in 1974, when we faced	
21	the first oil crisis and the embargo, President	
22	Nixon said that we needed to develop energy	
23	independence.	
24	At that time we imported roughly 30 percent of	f
25	our oil. Today we are just around the 50	

percentile of importing of oil, foreign oil.  We have not gotten any closer to energy independence, and it becomes an increasing national security issue when we have to constantly have forces deployed in that region of the world, the Middle East and southwest Asia.  We have a requirement to ensure that the sea lanes of communication remain open. We looked at one example that if we close the Strait of Hormuz through which the 20 to 30 percent of the global fuel flows.  If the Strait of Hormuz closed, how would we respond to that? By looking at efficiencies that we could take by reducing consumption demand, by looking at the development of alternative fuel sources, we could reduce in the next ten years about 30 percent of our requirement right now.  And here just in the last two weeks you've read the newspapers just like I have we are, you know, saber rattling with Iran right now, and the threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to the Strait of Hormuz. But if the Strait of Hormuz closed for 30 days, it would bring our trucking		1	173
We have not gotten any closer to energy independence, and it becomes an increasing national security issue when we have to constantly have forces deployed in that region of the world, the Middle East and southwest Asia.  We have a requirement to ensure that the sea lanes of communication remain open. We looked at one example that if we close the Strait of Hormuz through which the 20 to 30 percent of the global fuel flows.  If the Strait of Hormuz closed, how would we respond to that? By looking at efficiencies that we could take by reducing consumption demand, by looking at the development of alternative fuel sources, we could reduce in the next ten years about 30 percent of our requirement right now.  And here just in the last two weeks you've read the newspapers just like I have we are, you know, saber rattling with Iran right now, and the threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to the Strait of Hormuz. But if the Strait of Hormuz	1	EPA/NHTSA PUBLIC HEARING	
independence, and it becomes an increasing national security issue when we have to constantly have forces deployed in that region of the world, the Middle East and southwest Asia.  We have a requirement to ensure that the sea lanes of communication remain open. We looked at one example that if we close the Strait of Hormuz through which the 20 to 30 percent of the global fuel flows.  If the Strait of Hormuz closed, how would we respond to that? By looking at efficiencies that we could take by reducing consumption demand, by looking at the development of alternative fuel sources, we could reduce in the next ten years about 30 percent of our requirement right now.  And here just in the last two weeks you've read the newspapers just like I have we are, you know, saber rattling with Iran right now, and the threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to the Strait of Hormuz. But if the Strait of Hormuz	2	percentile of importing of oil, foreign oil.	
security issue when we have to constantly have forces deployed in that region of the world, the Middle East and southwest Asia.  We have a requirement to ensure that the sea lanes of communication remain open. We looked at one example that if we close the Strait of Hormuz through which the 20 to 30 percent of the global fuel flows.  If the Strait of Hormuz closed, how would we respond to that? By looking at efficiencies that we could take by reducing consumption demand, by looking at the development of alternative fuel sources, we could reduce in the next ten years about 30 percent of our requirement right now.  And here just in the last two weeks you've read the newspapers just like I have we are, you know, saber rattling with Iran right now, and the threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to the Strait of Hormuz. But if the Strait of Hormuz	3	We have not gotten any closer to energy	
forces deployed in that region of the world, the  Middle East and southwest Asia.  We have a requirement to ensure that the sea  lanes of communication remain open. We looked at  one example that if we close the Strait of Hormuz  through which the 20 to 30 percent of the global fuel  flows.  If the Strait of Hormuz closed, how would we  respond to that? By looking at efficiencies that  we could take by reducing consumption demand, by  looking at the development of alternative fuel  sources, we could reduce in the next ten years  about 30 percent of our requirement right now.  And here just in the last two weeks you've  read the newspapers just like I have we are, you  know, saber rattling with Iran right now, and the  threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to  the Strait of Hormuz. But if the Strait of Hormuz	4	independence, and it becomes an increasing national	
Middle East and southwest Asia.  We have a requirement to ensure that the sea  lanes of communication remain open. We looked at  one example that if we close the Strait of Hormuz  through which the 20 to 30 percent of the global fuel  flows.  If the Strait of Hormuz closed, how would we  respond to that? By looking at efficiencies that  we could take by reducing consumption demand, by  looking at the development of alternative fuel  sources, we could reduce in the next ten years  about 30 percent of our requirement right now.  And here just in the last two weeks you've  read the newspapers just like I have we are, you  know, saber rattling with Iran right now, and the  threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to  the Strait of Hormuz. But if the Strait of Hormuz	5	security issue when we have to constantly have	
1 lanes of communication remain open. We looked at 10 one example that if we close the Strait of Hormuz 11 through which the 20 to 30 percent of the global fuel 12 flows. 13 If the Strait of Hormuz closed, how would we 14 respond to that? By looking at efficiencies that 15 we could take by reducing consumption demand, by 16 looking at the development of alternative fuel 17 sources, we could reduce in the next ten years 18 about 30 percent of our requirement right now. 19 And here just in the last two weeks you've 20 read the newspapers just like I have we are, you 21 know, saber rattling with Iran right now, and the 22 threat is to close the Strait of Hormuz. 23 We didn't give any reason for the closure to 24 the Strait of Hormuz. But if the Strait of Hormuz	6	forces deployed in that region of the world, the	
lanes of communication remain open. We looked at one example that if we close the Strait of Hormuz through which the 20 to 30 percent of the global fuel flows.  If the Strait of Hormuz closed, how would we respond to that? By looking at efficiencies that we could take by reducing consumption demand, by looking at the development of alternative fuel sources, we could reduce in the next ten years about 30 percent of our requirement right now.  And here just in the last two weeks you've read the newspapers just like I have we are, you know, saber rattling with Iran right now, and the threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to the Strait of Hormuz. But if the Strait of Hormuz	7	Middle East and southwest Asia.	
one example that if we close the Strait of Hormuz through which the 20 to 30 percent of the global fuel flows.  If the Strait of Hormuz closed, how would we respond to that? By looking at efficiencies that we could take by reducing consumption demand, by looking at the development of alternative fuel sources, we could reduce in the next ten years about 30 percent of our requirement right now.  And here just in the last two weeks you've read the newspapers just like I have we are, you know, saber rattling with Iran right now, and the threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to the Strait of Hormuz. But if the Strait of Hormuz	8	We have a requirement to ensure that the sea	
through which the 20 to 30 percent of the global fuel  flows.  If the Strait of Hormuz closed, how would we respond to that? By looking at efficiencies that  we could take by reducing consumption demand, by looking at the development of alternative fuel sources, we could reduce in the next ten years about 30 percent of our requirement right now.  And here just in the last two weeks you've read the newspapers just like I have we are, you  know, saber rattling with Iran right now, and the threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to the Strait of Hormuz. But if the Strait of Hormuz	9	lanes of communication remain open. We looked at	
If the Strait of Hormuz closed, how would we respond to that? By looking at efficiencies that we could take by reducing consumption demand, by looking at the development of alternative fuel sources, we could reduce in the next ten years about 30 percent of our requirement right now.  And here just in the last two weeks you've read the newspapers just like I have we are, you know, saber rattling with Iran right now, and the threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to the Strait of Hormuz. But if the Strait of Hormuz	10	one example that if we close the Strait of Hormuz	
13 If the Strait of Hormuz closed, how would we 14 respond to that? By looking at efficiencies that 15 we could take by reducing consumption demand, by 16 looking at the development of alternative fuel 17 sources, we could reduce in the next ten years 18 about 30 percent of our requirement right now. 19 And here just in the last two weeks you've 20 read the newspapers just like I have we are, you 21 know, saber rattling with Iran right now, and the 22 threat is to close the Strait of Hormuz. 23 We didn't give any reason for the closure to 24 the Strait of Hormuz. But if the Strait of Hormuz	11	through which the 20 to 30 percent of the global fue	el
respond to that? By looking at efficiencies that  we could take by reducing consumption demand, by  looking at the development of alternative fuel  sources, we could reduce in the next ten years  about 30 percent of our requirement right now.  And here just in the last two weeks you've  read the newspapers just like I have we are, you  know, saber rattling with Iran right now, and the  threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to  the Strait of Hormuz. But if the Strait of Hormuz	12	flows.	
we could take by reducing consumption demand, by looking at the development of alternative fuel sources, we could reduce in the next ten years about 30 percent of our requirement right now.  And here just in the last two weeks you've read the newspapers just like I have we are, you know, saber rattling with Iran right now, and the threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to the Strait of Hormuz. But if the Strait of Hormuz	13	If the Strait of Hormuz closed, how would we	
looking at the development of alternative fuel sources, we could reduce in the next ten years about 30 percent of our requirement right now.  And here just in the last two weeks you've read the newspapers just like I have we are, you know, saber rattling with Iran right now, and the threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to the Strait of Hormuz. But if the Strait of Hormuz	14	respond to that? By looking at efficiencies that	
sources, we could reduce in the next ten years  about 30 percent of our requirement right now.  And here just in the last two weeks you've  read the newspapers just like I have we are, you  know, saber rattling with Iran right now, and the  threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to  the Strait of Hormuz. But if the Strait of Hormuz	15	we could take by reducing consumption demand, by	
about 30 percent of our requirement right now.  And here just in the last two weeks you've  read the newspapers just like I have we are, you  know, saber rattling with Iran right now, and the  threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to  the Strait of Hormuz. But if the Strait of Hormuz	16	looking at the development of alternative fuel	
And here just in the last two weeks you've read the newspapers just like I have we are, you know, saber rattling with Iran right now, and the threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to the Strait of Hormuz. But if the Strait of Hormuz	17	sources, we could reduce in the next ten years	
read the newspapers just like I have we are, you know, saber rattling with Iran right now, and the threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to the Strait of Hormuz. But if the Strait of Hormuz	18	about 30 percent of our requirement right now.	
know, saber rattling with Iran right now, and the threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to the Strait of Hormuz. But if the Strait of Hormuz	19	And here just in the last two weeks you've	
threat is to close the Strait of Hormuz.  We didn't give any reason for the closure to  the Strait of Hormuz. But if the Strait of Hormuz	20	read the newspapers just like I have we are, you	
We didn't give any reason for the closure to the Strait of Hormuz. But if the Strait of Hormuz	21	know, saber rattling with Iran right now, and the	
the Strait of Hormuz. But if the Strait of Hormuz	22	threat is to close the Strait of Hormuz.	
	23	We didn't give any reason for the closure to	
closed for 30 days, it would bring our trucking	24	the Strait of Hormuz. But if the Strait of Hormuz	
	25	closed for 30 days, it would bring our trucking	

	174
1	EPA/NHTSA PUBLIC HEARING
2	industry to its knees, it would reduce our gross
3	domestic product by somewhere in the order of four
4	billion dollars just over a 30-day period.
5	But if we were smart enough, if we were able
6	to get this sort of initiatives the level that we
7	need to make long-term comprehensive binding policy
8	changes to the way we view energy in this country,
9	we could do that.
10	We could reduce our consumption within ten
11	years by 30 percent, and we could take some of
12	these emergent technologies of alternative fuels
13	that are not yet ready for marketplace forces.
14	They need more support. They need policy,
15	national leadership, that is going to create the
16	environment through which these emergent
17	technologies can develop.
18	Oil, as we have talked about, is a finite
19	resource. It will not be here forever. We owe it
20	to our next generation who follow us I don't
21	want my children, grandchildren worrying about
22	where the fuel is going to come from that's going
23	to maintain their standard of living.
24	It's incumbent upon us to look at these
25	important measures. And these are not just left

	175
1	EPA/NHTSA PUBLIC HEARING
2	with just one administration. This is a long-term
3	administration to administration, the leadership of
4	our Congress, the leadership of our industry, this
5	is a national leadership issue for this country to
6	solve.
7	It's not going to get solved by hoping and
8	praying that we can drill more. That's not the
9	answer. It's looking to efficiency.
10	And in closing, thank you again, and we do
11	strongly from CNA support and urge the National
12	Highway Traffic Safety Administration and EPA to
13	finalize these rules that will set the bar at 54
14	and a half miles per gallon by 2025 for this simple
15	reason, better gas mileage is simply a matter of
16	national security.
17	Thank you.
18	MR. MEDFORD: Thank you, General. We
19	also like to thank you for your service to our
20	country. It's appreciated very much.
21	MS. OGE: I have a question for
22	Mr. Champion.
23	I don't know if you were here earlier, but we
24	heard testimony from the National Dealers
25	Association. I don't know if they're still here.
1	

	176
1	EPA/NHTSA PUBLIC HEARING
2	And their testimony basically raised the issue
3	of additional costs that we have clearly indicated
4	in our proposal. We're saying \$2,000 additional
5	cost, but the fuel savings would be over \$6,000 for
6	the life of the vehicle, net savings \$4,400.
7	We heard from the National Dealers
8	Association and this gentleman who was
9	representing the dealership, I believe was Ford and
10	GM vehicles is that the consumer goes in and
11	they're not looking for this type of attribute.
12	Also, what we heard is that it's one thing
13	what they're saying in surveys, it's another thing
14	what they do.
15	There's somewhat of a disconnect because as
16	you know we are supporting the program, you know,
17	that was carefully, you know, crafted and
18	implemented many other stakeholders, and we're
19	taking public comments now and the dealers
20	associations and what you testified.
21	So could you give us your views of what
22	given your expertise and given the sense of Europe,
23	representing a reputable consumer group, what are
24	your thoughts about consumer acceptance and
25	willingness to pay?

	177
1	EPA/NHTSA PUBLIC HEARING
2	MR. CHAMPION: To a certain extent, I
3	understand where the dealers are coming from.
4	Yes, consumers go and they want to buy a
5	hybrid vehicle. They look at the increasing costs.
6	But we're also seeing a lot of increase in
7	fuel economy in just regular vehicles. So we're
8	seeing direct injection. We're seeing many more
9	multi-speed transmissions. We're seeing electric
10	steering, low-rolling resistance tires, lighter
11	body structures.
12	If you look at some of the successes in the
13	industry over the past year or so, I think
14	everybody sees how well Hyundai and Kia are doing
15	these days. Their vehicles are one of the most
16	fuel efficient in the category.
17	I think we're going to see the normal gasoline
18	engine getting maybe 30, 40 percent better fuel
19	economy over time anyway.
20	You add on hybrid technology on top of that as
21	that becomes more ruled out in many vehicles. The
22	average cost increase is going to be possibly less
23	than \$2,000.
24	We're seeing more in the way of diesel
25	vehicles as welcome coming in terms of improved

	178
1	EPA/NHTSA PUBLIC HEARING
2	fuel economy.
3	So I think in the future we will see the
4	difference between the fuel-efficient vehicles, the
5	normal gasoline powered, and hybrids that reducing
6	costs.
7	You know, I was just at the Detroit Auto Show.
8	Everybody there was talking fuel economy. And, you
9	know, the dealers you talk about, Ford and General
10	Motors, they introduced hybrid vehicles.
11	The new Ford Fusion is going to be four
12	cylinder, four-cylinder turbos, hybrid and plug-in
13	hybrid virtually from day one.
14	So this is probably Ford's biggest selling
15	vehicle. And they're going to be producing it in a
16	regular porcelain 1.6 liter turbo, two
17	liter turbo, instead of V6. So there can be no V6
18	version, and then hybrid and plug-in hybrid.
19	So the manufacturers behind it, I don't think
20	with the world demand that we see at the moment for
21	gasoline that we're going to see a reduction in
22	gasoline.
23	Over the past ten years it's almost doubled in
24	price in the real dollars compared to what it was
25	in the '90s. As we move forward, I think that will

	179
1	EPA/NHTSA PUBLIC HEARING
2	only increase, so the paybacks are going to be
3	less.
4	And many of our readers come to us and say,
5	you know, I'm going to buy a hybrid next year,
6	which do you suggest. Well, at the moment there's
7	not that many out there.
8	If we look at the new Toyota Camry, the last
9	time we got 34 miles per gallon in Consumer Reports
10	testing, this new Camry gets 38, I believe, 38
11	miles per gallon.
12	So there it's gone up four miles per gallon,
13	which is ten percent in one generation. So I think
14	going forward we are going to see the manufacturers
15	building more fuel-efficient cars.
16	And I was a car engineer for many years. And
17	you'd have a really good idea and you'd go to the
18	management. Management tends to be timid. And
19	then you got the bean counters, which are even
20	worse.
21	You say this is going to give maybe half a
22	mile per gallon or one mile per gallon. They go
23	it's going to be how much per vehicle, ten dollars.
24	They start scratching their heads.
25	With having this standard in place, the

```
180
 1
                  EPA/NHTSA PUBLIC HEARING
 2
         engineers can go, look, we need to meet this
 3
         target, this is where we need to get to. If you
         don't put this, we're not going to meet that
 5
        target.
              So it's giving the engineers, the designer,
 7
         it's going to the whole vehicle development fleet a
        motivation to build more fuel-efficient cars in the
 9
         future.
10
                   MR. MEDFORD: Great. David, you are
11
        better without a script.
12
              We're finally going to give our Court Reporter
13
         a 20-minute break, so we're going to take a short
14
         20-minute break. Thank you.
15
16
                     (Whereupon, a short recess
17
          was taken.)
18
19
                   MS. OGE: We'll start with Ms. Susan
20
        Wolf.
21
                   MS. WOLF: Good day. My name is Susan
22
         Wolf, and I am happy to be a citizen of the United
23
         States and have the opportunity to speak at this
24
        public hearing in favor of higher auto fuel
25
         efficiency standards.
```

	Capital Reporting Company
	181
1	EPA/NHTSA PUBLIC HEARING
2	I speak as a citizen who is very concerned
3	about climate change and its effect on our planet,
4	the people and creatures that inhabit the earth,
5	and all of nature that is being affected by the
6	changes that we all are witnessing.
7	The scientific community is alarmed by the
8	serious damage that has already occurred to our
9	planet; the EPA has written about the harm that is
10	projected to come to all of us as a result of
11	climate change.
12	And, as you know, the information is found on
13	your own Web site. The EPA site addresses how
14	climate change will impact temperature changes
15	leading to an increased heat wave affecting
16	vulnerable people including those with heart
17	problems, asthma, the elderly, and the very young.
18	Your site acknowledges that there will be
19	increases in extreme weather such as floods,
20	hurricanes as well as droughts leading to
21	event-related deaths, injuries, infectious diseases
22	and stress-related illnesses.
23	Your site also addresses a temperature
24	increases will lead to an increase in mosquitoes
25	and other insects leading to a rise in such

182 1 EPA/NHTSA PUBLIC HEARING 2 diseases as malaria, yellow -- and yellow fever. 3 It also focuses on how this will impact agriculture and food production leading to problems with starvation as already witnessed in Africa. 5 And we certainly witnessed the effects of 7 drought in Texas this past summer and its impact on cattle, agriculture and food production. 9 I am very concerned about the impact of carbon 10 emissions on health and the increase in such 11 diseases as cancer, asthma, COPD, and 12 cardiovascular disease. 13 Those most at risk are children, the elderly, 14 and those with compromised immune systems. These 15 diseases are costly in money, health and general 16 emotional well-being. 17 I would like to see some studies around the 18 impact of carbon emissions on health care cost. 19 And, of course, we feel more the impact in densely 20 populated areas such as Philadelphia. 2.1 I, who live in Cherry Hill, New Jersey, feel 22 it more and more as we increase the numbers of 23 shopping centers and subsequent cars on the road. 24 I am grateful for the Clean Air Act, and now I 25 am extremely pleased with the improved fuel

	183
1	EPA/NHTSA PUBLIC HEARING
2	efficiency standards that have been proposed by the
3	Obama administration.
4	I urge that these standards are adopted
5	without any exemptions to the rules if we are to
6	take climate change seriously.
7	We as a nation need to take climate change
8	seriously. We must abide by standards that will
9	cut carbon emissions and the health risks that are
10	associated with it.
11	We must reduce our addiction to oil and
12	continue to be creative with the development of
13	renewable energy sources. I know we can and will be
14	successful with this endeavor by adopting these
15	standards. We as a nation are serious in our
16	concern. These standards are a win, win for all.
17	I applaud the Obama administration for
18	developing these standards and taking climate
19	change seriously.
20	Thank you.
21	MS. OGE: I'm going to call on Mr. Ken
22	Weinstein of Trolley Car Diner.
23	MR. WEINSTEIN: Good afternoon. I'm Ken
24	Weinstein. I'm the owner of Trolley Car Diner and
25	Trolley Car Cafe both in Philadelphia.

	184
1	EPA/NHTSA PUBLIC HEARING
2	For 11 years, I've run my businesses with
3	innovative and efficient standards that help us
4	save money on energy cost. I then invest that
5	extra money into my businesses, which help the
6	economy grow.
7	My staff will tell you that I run a tight
8	ship. As soon as the last customer leaves, we turn
9	the lights off to save electricity.
10	We recently rewired all of our parking lot
11	lights and neon signs so they don't continue to
12	stay on all night. And we also use solar hot water
13	heating, LED lighting at our new cafe.
14	The diner will soon be installing a charging
15	station for the new hopefully the new fleet of
16	electric cars going forward.
17	As a small business owner who knows strong
18	energy standards are good for my bottom line, I
19	fully support raising the fuel efficiency
20	requirements auto makers must meet.
21	For my business, improved fuel standards would
22	help lower food costs since our suppliers would pay
23	less to transport it. I'm tired of seeing fuel
24	charges as an extra charge on my supply and trash
25	invoices.

	185
1	EPA/NHTSA PUBLIC HEARING
2	Our revenue also fluctuates with our customers'
3	fuel cost. When I mentioned to my general manager
4	that I was testifying here today, he said make sure
5	you tell them that gas prices are the single
6	biggest determining factor whether revenues go up
7	or down.
8	When gas prices are high, our customers come
9	less often. Gas prices go down, business picks up.
10	It's been an amazing cycle to watch.
11	The same result can come from higher
12	efficiency standards. Legislation that will
13	ultimately reduce what customers spend on gas will
14	bring more customers to Trolley Car and other
15	businesses in our area.
16	The sooner the standards are strengthened, the
17	sooner I'll have greater spending power to expand
18	my business, hire more employees, and better
19	support the economy.
20	Fuel efficiency standards is a policy
21	lawmakers should enact immediately for the sake of
22	small businesses and our difficult economy.
23	Higher fuel economy standards can help save
24	money. We could use that money to grow our
25	businesses and create jobs for some of the

	186
1	EPA/NHTSA PUBLIC HEARING
2	14 million unemployed Americans.
3	I recently saw a survey from the Small
4	Business Majority that found 87 percent of small
5	business owners nationally, nearly nine in ten
6	believe it's important for the United States to
7	take action now to increase fuel efficiency in cars
8	and light trucks.
9	A 59 percent majority as you say describe this
10	as very important. A Small Business Majority poll
11	also revealed just how strong small business owners
12	would like to see fuel standards become over the
13	next few years.
14	Four in five respondents said they would
15	support raising requirements to 60 miles per
16	gallons by 2025 and even higher standards than
17	the 54.5 percent that Obama is now proposing.
18	The polls showed that 71 percent of the
19	nation's entrepreneurs say American car companies
20	do not innovate enough, and 73 percent agree the
21	federal government should do more to make them do
22	so annual estimated usage.
23	It's essential these standards are met now.
24	Small business owners have a strong economic reason
25	to favor bold fuel standards.

	187
1	EPA/NHTSA PUBLIC HEARING
2	Of the more Small Business Majority polled
3	they cited the rising cost of doing business
4	including fuel costs as what burdens them the most.
5	Improved fuel economy standards have the power
6	to cut long-term business expenses. 87 percent of
7	owners agree that improving innovation and energy
8	efficiency are good ways to increase prosperity for
9	small firms like mine.
10	This helps explain why so many small business
11	owners believe stronger fuel economy standards have
12	the potential to boost their bottom lines.
13	Put simply, higher fuel standards would help
14	me expand my business and would increase my
15	employees' spending power. More customers means
16	higher tips and wages.
17	Consumers across the country would also save
18	money on the cost to fuel, better positioning them
19	to spend money at businesses like mine.
20	With the help of bold fuel efficiency
21	standards like the ones proposed, we can all do our
22	part in growing the economy.
23	Thanks for listening.
24	Unless you have any questions, I'm going to
25	head back to the restaurant.

	188
1	EPA/NHTSA PUBLIC HEARING
2	MS. OGE: Okay. Thank you for coming.
3	Now I will call Dorsha Turpin. Good
4	afternoon.
5	MS. TURPIN: My name is Dorsha Turpin. I
6	am a mother of two children that have asthma.
7	Asthma runs in my family. My aunt is allergic to
8	certain pets, dust.
9	My daughter's asthma started up when she walks
10	out the front door. I was born with asthma. And
11	my mother and grandmother told me took me to a
12	doctor and he told them what to do for the asthma.
13	I am now 53 years old. And when I run or walk
14	up a lot of steps, my asthma acts up. I can be
15	walking down I can be walking down the street or
16	walking fast, and all of a sudden I can't catch my
17	breath or find it hard to breathe.
18	It took me about two months of having to go to
19	the doctor and explain what is happening to me and
20	to and to have him tell me my asthma is back.
21	My mother used to smoke and stopped and now.
22	She has COPD. She uses an inhaler for asthma.
23	After two years, she has lung cancer. My aunt used
24	to smoke. And after 20 years, she has cancer of
25	the thyroid.
I	

	189
1	EPA/NHTSA PUBLIC HEARING
2	The air changed since I was younger because I
3	now I now have full blown asthma. What I mean
4	by full blown asthma is when I when my children
5	were young younger they're grown now we
6	used to go bike riding, we used to run, we used to
7	do a lot of different things.
8	Now the air has changed. It's hard for me to
9	walk fast, run, ride my bike like I used to do with
10	my kids because it's we have more cars, we have
11	more gasoline, and stuff is messing up with the
12	ozone.
13	So a lot of things have changed with me
14	personally. I do believe that the hybrid cars will
15	be good for the ozone because they're using less
16	gasoline and less that's on the ozone.
17	The ozone is changing because of the
18	refineries that are closing down and that's causing
19	a lot of the smog.
20	So please pass this for all of us that have
21	asthma.
22	Thank you.
23	MS. OGE: Thank you.
24	Ms. Margie Laughlin, good afternoon.
25	MS. LAUGHLIN: Good afternoon. Thank you
ĺ	

	190
1	EPA/NHTSA PUBLIC HEARING
2	for this opportunity.
3	On your table, you'll find the portfolio a
4	picture portfolio. These are pictures that I took
5	up in the gas fields in Pennsylvania. This is for
6	your keeping.
7	About three, maybe four weeks ago, the UN
8	summit on climate was held and they were able to
9	extend the protocol about greenhouse gas emissions
10	for another five years. That was good.
11	But of the three largest industrial countries:
12	China, India and the United States only agreed to
13	think about it, and they can back down without
14	making any kind of an agreement whatsoever.
15	The three hugest estimated usage polluters in
16	the world and a commitment could not be made. And
17	we in this country are partly guilty on that.
18	Okay. About the cars, we have the capacity to
19	manufacture automobiles that can experience up to
20	100 miles per gallon. We're selling out at 50, we
21	really are.
22	And if we don't do something soon, some of our
23	favorite vacation places, the islands out in the
24	ocean, are going to be experiencing submersion
25	because of melting ice caps.
I	

	191
1	EPA/NHTSA PUBLIC HEARING
2	This is not a good thing. We really have not
3	taken the responsibility for our environment. It's
4	time for us to grow up.
5	For years the advertisements have been
6	comparing automobiles as fast, sleek, gas-guzzling
7	sport cars with machoism. That hasn't lost.
8	You don't see the sports jocks getting in-line
9	to buy a station wagon. The reason is because our
10	psyches can be manipulated.
11	They are getting in freedom of speech. This
12	is good. Okay. You as an organization with a
13	legislation that we have in Washington, DC right
14	now is liabele to put you out of business all
15	together.
16	But I do congratulate you on the latest on
17	what you have been able to accomplish in getting
18	this limited. That I congratulate you on. Keep up
19	the good work. I'm very proud of that.
20	We need to do something now and we need to do it
21	with everybody involved and pushing it in
22	advertisements that it is the right thing for
23	humans to do.
24	Thank you.
25	MS. OGE: Thank you.

	192
1	EPA/NHTSA PUBLIC HEARING
2	Ms. Alexa Manning, good afternoon.
3	MS. MANNING: Good afternoon. My name is
4	Alexa Manning, and I recently moved to this area
5	from Cincinnati, Ohio.
6	I'm an educator. I have taught fourth grade,
7	third grade, special education, and I'm also a
8	naturalist and environmental educator.
9	And that is one of the main reasons why I'm
10	here today. I am very dedicated to teaching
11	children how to respect and care for our earth.
12	Thank you very much for the opportunity to
13	voice my opinion in support of the proposed standards
14	for new passenger cars and trucks sold from 2017 to
15	2025 for an average of 54.5 miles per gallon.
16	I appreciate the progressive actions that you
17	are taking now and in the future with this and
18	other decisions that positively impact the
19	consumers, workers, transportation, and the
20	environment.
21	I am pleased that many major automobile
22	manufacturers, consumers, and environmental
23	organizations, and a majority of Americans support
24	these proposed standards.
25	These standards benefit our daily lives and

		193
1	EPA/NHTSA PUBLIC HEARING	
2	add up to a better way of life now and for future	
3	generations.	
4	By 2030 annual oil consumption will be cut by	
5	approximately 23 billion gallons. I will have the	
6	opportunity to purchase the most efficient vehicle	
7	available that meets my needs with greater gas	
8	mileage that will save me hundreds of dollars at	
9	the pump a year.	
10	This action will add approximately 43,000 more	Э
11	jobs in the auto industry and approximately ten	
12	times more jobs in the nation's economy and about	
13	21,000 jobs in this state.	
14	This affects my family personally. My husband	d
15	is a mechanical engineer in the auto parts	
16	industry, who lost his job of 24 years in 2009,	
17	when we moved to Ohio, when he worked at a company	,
18	his company moved from New Jersey to Ohio. And he	
19	lost his position in a corporate layoff.	
20	Fortunately, he is now employed in a similar	
21	position in this area.	
22	The proposed standards will promote	
23	innovations in vehicles on a mass scale providing	
24	more jobs like for my husband, greater vehicle	
25	efficiency, and consumer choice.	

	194
1	EPA/NHTSA PUBLIC HEARING
2	It is critical that the standards do not have
3	loopholes, credits and flexibilities that can
4	undermine the stringency of the standards that can
5	give consumers true savings and cut our dependence
6	on oil.
7	It is most important to reduce climate change
8	by cutting CO2 emissions that affect the quality of
9	our air and overall health of our citizens.
10	Thank you again for giving me this time to
11	state the reasons why my family and I support the
12	proposed clean vehicle standards.
13	I appreciate your proactive work and look
14	forward to these changes.
15	MS. OGE: Thank you.
16	Mr. Brian Shapiro, good afternoon.
17	MR. SHAPIRO: Thank you all for being
18	here today and for this opportunity.
19	I speak to you as a citizen of the United
20	States and as a small business owner and as someone
21	with a family.
22	And like many families, we have decisions we
23	have to make based on economics and in relation to
24	our transportation, in relation to our housing and
25	such.

195 1 EPA/NHTSA PUBLIC HEARING 2 And we make choices to live in urban areas so 3 we can walk to as many places as possible because we feel like that's the conscious way to live. 5 And presently, we had a situation where we want to reduce down from a two-car household to a 7 one-car household, and then I have a motorcycle as I'm a motorcycle rider. 9 Of all the vehicles we had, we have my 10 motorcycle, which gets 45 plus miles per gallon. 11 Honda Civic, two door, small car, gets 30-something 12 miles to the gallon, and Subaru Forester, which 13 still is a teenager when it comes to getting mileage. 14 And having a two-door Honda, I loved it. 15 My wife's car was the other car. it wasn't practical with a child and getting a 16 child in and out of the car seat and the back of 17 18 the car. 19 And then, you know, the motorcycle is the solo 20 form of transportation. I mean, I would like to 21 put my son on a car seat on the back of the 22 motorcycle and take him around, but I would be 23 arrested, and my wife wouldn't stand for me to do 24 that anyway. 25 So I'm thinking about, well, maybe we'll buy a

196 1 EPA/NHTSA PUBLIC HEARING 2 new car, a car that is a larger car that will get 3 us the room that we want and look for fuel efficiency standards. So I did my due diligence, I did my research. 5 I looked through Consumer Reports, I looked through 7 everything. Do you realize how limited the choices are to 9 try and find a high mileage car that has some size 10 to it, to be able to not only put a family in 11 there, but with the various creative businesses 12 that both my wife and I are in, to be able to 13 transport the various things that we need to 14 transport in order to be able to conduct our 15 business? We just stuck with the Forester, which gets 16 17 abysmal miles to the gallon. Why economically it 18 doesn't make sense for us to buy a new car that is 19 only going to get maximum maybe 30 miles to the 20 gallon, if we could find that in a larger car. 2.1 I mean, the fact is the choices and options 22 are not available for families who would like to 23 get a car with higher mileage in larger cars. 24 not available. 25 I'm not talking about a massive SUV. I'm just

197 1 EPA/NHTSA PUBLIC HEARING 2 talking about a car with a bit more room. And my 3 thinking is if we place -- if we place these standards out there for an industry that 5 historically has been innovative, that historically, except for a few occasions, has been 7 profitable, who have very intelligent people working within it, my goodness, I can't imagine they wouldn't find the motivation and incentive not 10 only to make sure that these standards can become a 11 reality, but you know what, they might be able to 12 find other forms of energy that we can use to be 13 able to transport us from A to B. 14 So I'm a strong supporter of having these 15 standards in place. And if the existing industry 16 is the one that's able to come up with a way in 17 which to make these standards a reality and could 18 come up with alternative energy, I'm fine with 19 that. 20 It's a win, win for everybody. But I just 21 think it needs to be out there. The bar needs to 22 be set. Because if we do not set that bar like 23 most industries, like most people, hey, if there's 24 a path of least resistance, that's the way I'm 25 going to go.

## Capital Reporting Company

	198
1	EPA/NHTSA PUBLIC HEARING
2	Thank you for your time.
3	MS. OGE: Thank you.
4	Mr. Bob Pierson.
5	MR. PIERSON: Thank you for the
6	opportunity to present this testimony. My name is
7	Bob Pierson.
8	I live in Philadelphia, and I am an owner of a
9	small business called Farm the City. We bring
10	farmers into farmers' markets in the city and other
11	local food programs.
12	I strongly support the new fuel efficiency
13	standards proposed by the Obama Administration.
14	This is a small step in the right direction for
15	public health, health of the planet, human race, my
16	public, my city and my family.
17	I'm also very pleased about the President's
18	decision to deny permits to the Canadian tar sands
19	oil pipeline.
20	I hope that you will be able to resist
21	political pressure to change this decision.
22	Jim Hansen, former I guess he's currently
23	with NASA, stated that if the full extent of the
24	tar sands are exploited along with the world's coal
25	reserves, quote, it is essentially game over for

199 1 EPA/NHTSA PUBLIC HEARING 2 the climate. The biggest problem facing the world is global 3 warming. Armageddon is approaching relentlessly. The initiating cause of global warming is burning 5 fossil fuel, releasing more CO2 than nature can assimilate. 7 The transportation sector is a major 9 contributor. Continued educational growth without constraints on fossil fuel cause unknown, untold 10 11 economic social, environment catastrophes. 12 Industrial development is leading us toward 13 this catastrophe. And those countries responsible 14 are paralyzed to act because large corporations 15 control governments. Most of the people on this 16 planet do not own or drive a motor vehicle. 17 I proudly call myself and my family among this 18 overwhelming majority. Maybe not the 99 percent of 19 current income, but we are the transportation fuel 20 efficient 90 percent. 2.1 You've heard about the money people could save 22 if more fuel-efficient vehicles were mandated. 23 Imagine how much more money people would save if 24 they stopped driving and walked or took public 25 transportation.

200 1 EPA/NHTSA PUBLIC HEARING 2 My friends say this is not practical. 3 answer is neither is global meltdown. Upgrading fuel efficiency standards closing loopholes is the 5 first of many steps a government industry and individuals must make to pull us back from the brink of climate disaster. 7 This is very difficult given the very slow 9 start to reforms and the amount of CO2 that must be 10 cut from exhaust pipes. And the per capita average 11 CO2 admitted in the U.S. is about 20 tons per year. 12 In Europe that's roughly eight to 12. Global average 13 is two tons per year. 14 Global warming is it fair to ask the people in 15 the third world to reduce their CO2 emissions even 16 further so we can continue to enjoy our fossil 17 fuel-rich life. No, it is not fair. 18 The U.S. and other industrial nations must 19 figure out how to reduce their use of fossil fuels 20 by at least 90 percent and quickly, too. 2.1 Again, I strongly support the fuel efficiency 22 standards proposed by the Obama Aministration, but 23 I realize it is a very small step in the right 24 direction. 25 Thank you.

## Capital Reporting Company

	201
1	EPA/NHTSA PUBLIC HEARING
2	MS. OGE: Thank you.
3	Ms. Giuliana Pierson, good afternoon.
4	MS. PIERSON: I'm Giuliana Pierson, and
5	I'm testifying as a citizen.
6	I very much support the proposal of the Obama
7	Administration to increase the fuel efficiency
8	standards to 54.5 miles per gallon.
9	U.S. use of energy per capita is among the
10	highest in the world and the American addiction
11	to our health, threatens our environment, and
12	threatens our planet, and makes us dependent on
13	foreign oil.
14	As a mother and grandmother, I want cleaner
15	air for my children and my grandchildren. On a
16	personal note, my husband and I decided long ago
17	that living and working in the city, we don't need
18	a car, and we use public transportation or bike to
19	get around.
20	Perhaps the car of the future is no car at
21	all. On rare occasions, we use a hybrid car.
22	So I applaud the Obama Administration for
23	having the courage to make such a change, and I
24	hope it will become a reality.
25	Thank you.

```
202
 1
                  EPA/NHTSA PUBLIC HEARING
 2
                   MS. OGE: Ms. Pierson, thank you.
 3
              Ms. Gili Ronen.
                   MS. RONEN: Good afternoon.
                                                My name is
 5
         Gili Ronen.
                      I'm a Philadelphia citizen in favor of
         the higher fuel efficiency standards, and I thank
 7
         you for the opportunity to speak today.
              I'm going to tell you about me and my
 9
         environmental perspective, about my kids and their
10
         environmental perspective, and about me as a
11
         consumer.
12
              Don't worry, I won't tell you too much about
13
        my kids. I can go on and on about them.
14
              So it was interesting for me to write down all
15
         the reasons why I consider myself an
16
         environmentalist. I'll start off with that I own a
17
         Prius, which based on the last testimony, I feel a
18
         little bit quilty about, but I do own a Prius.
19
              I ride my bicycle as much as possible, when
20
         I'm not driving my Prius.
21
              I did an energy audit of my house. So not
22
         only do I pay less money every month to PECO and
23
         PGW, but it's actually warmish in my house.
24
        very exciting.
25
              I recycle, I'm a vegetarian, and I purchase
```

	203
1	EPA/NHTSA PUBLIC HEARING
2	locally grown and made products as often as
3	possible. That's me as an environmentalist.
4	My perspective about, how my perspective as an
5	environmentalist changed some since the adoption of
6	my kids in 2008. Obviously, my life perspective
7	changed, but also as an environmentalist.
8	It's amazing to me I take for granted or what
9	they take for granted as normal in life because,
10	you know, they didn't know anything different.
11	So just to clarify, they are three and four
12	years old. But they take for granted single stream
13	recycling.
14	They don't know anything different than you
15	take everything and you open the door to the back
16	door and you throw it all on the big blue bin.
17	That's just how things are. That's how things
18	are in Philadelphia, and I think many of our
19	neighboring cities.
20	They don't know what the inefficient light
21	bulbs the name of which is escaping me at the
22	moment incandescent light bulbs.
23	Going to the gas station is a treat because we
24	do it so rarely because we have a Prius with very
25	high fuel efficiency. We just don't go that often.

	204
1	EPA/NHTSA PUBLIC HEARING
2	So that's something that's new and exciting for
3	them.
4	So those are the kinds of things that are
5	standard for them that wouldn't have been
6	standard for them.
7	And many others, like there's a farm down the
8	street from us in North Philadelphia that we go to.
9	And they pick the tomatoes off the vines. Maybe
10	they eat them, maybe they throw them.
11	But the fact is that they love they are
12	aware of the fact that our food comes from
13	someplace. So these kinds of things that they take
14	for granted I think are really important.
15	And having fuel-efficient cars is part of
16	what's standard for them. And we want everybody
17	to what I would like for all consumers in the
18	future to have it be standard that their car is
19	more energy efficient than it is today.
20	Me, as a consumer, I purchased a Prius
21	because even though it cost more, because it was
22	more fuel efficient in the long term. It has
23	actually saved us money, and I'm able to spend that
24	money in other ways as a consumer.
25	And I think that that is something that can
I	

205 1 EPA/NHTSA PUBLIC HEARING 2 translate to many people who are able to buy more fuel-efficient cars that maybe they spend a little bit more on the car, but long term they are saving 5 money or are able to put down money in other 6 places. 7 So thank you very much for the opportunity to speak. And I'm going to now pick up my kids from school. I appreciate. 10 MS. OGE: Wonderful, good luck. 11 And the final member of this Panel is Mr. Tom 12 Morris, good afternoon. 13 MR. MORRIS: My name is Tom Morris. 14 the Director of Business Development for Honeywell 15 Flourine Products, which is a business unit of 16 Honeywell International. 17 We're global leaders in providing innovative 18 technology to help the world solve its energy and 19 environmental challenges. 20 We employ over 50,000 people in the United 21 States, and are globally recognized as a leading 22 innovator in the development of environmentally 23 preferable refrigerants and blowing agents, 24 including low-global warming potential refrigerants 25 for automobile air-conditioning systems.

206 1 EPA/NHTSA PUBLIC HEARING Honeywell greatly appreciates the opportunity 2 3 to offer testimony to EPA and NHTSA on the proposed rule. 5 Honeywell commends EPA and NHTSA for their hard work and foresight in developing a proposed 7 rule that responds to our country's critical need to address global climate change and reduce oil consumption. 10 In particular, we offer comment on the 11 air-conditioning provisions with regard to both 12 leakage credits and engine efficiency. 13 We support EPA and NHTSA's decision to 14 continue and expand upon the AC credit program to 15 provide a strong incentive to eliminate emissions 16 of greenhouse gases from AC systems, and improve 17 energy efficiency of AC operations to reduce fuel 18 consumption. 19 Consistency and technology are critical factors 20 in the designing regulations that enable business to 2.1 invest in innovative technologies. 22 Continuation of the AC credit program beyond 23 2016 will accelerate the transition to low-GWP 24 refrigerant technology and provide clear market 25 signals to manufacturers as they incorporate these

207 1 EPA/NHTSA PUBLIC HEARING 2 cleaner technologies into their vehicles. 3 Because of time limitations, I will keep my oral arguments brief, but please note that a full 5 copy of my testimony has been entered into the record. 7 In response to the European Union calls for more environmental-friendly refrigerants for cars, Honeywell's team of world-class scientists launched 10 an accelerated effort to develop a next-generation 11 refrigerant. The result is Solstice 1234yf, a 12 product that not only exceeded the goal 13 politically, but one that represented a long-term 14 global and energy efficiency solution. 15 EPA and NHTSA properly acknowledge that the large number of light-duty vehicles with AC in use 16 17 has a substantial impact on the amount of energies 18 vehicles consume and the amount of refrigerant 19 leakage that occurs due to their significant use. 20 With forecasts predicting more than 90 million 21 light vehicles to be built per year by 2019, 22 Solstice 1234yf refrigerant can serve as a 23 important component of global climate protection. 24 Honeywell appreciates and supports the 25 proposed rules' recognition of the dual benefits

208 1 EPA/NHTSA PUBLIC HEARING 2 alternate refrigerants can bring in leading our 3 climate change and energy dependent objective compared to other alternatives referred to in the 5 proposed rule, which has the most favorable climate footprint of its entire life cycle. 7 A major part of refrigerants' global warming potential is due to indirect emissions, CO2 emissions, caused by the increased fuel consumption 10 require to power the AC system. 11 Solstice 1234yf refrigerant uses markedly less 12 fuel and produces 20 to 30 percent fewer emissions 13 than CO2 used as refrigerants. These efficiencies offer OEMs additional 14 15 benefits towards meeting the fuel economy standards 16 in the proposed rule. Solstice 1234yf has a 17 99.7 percent lower global warming potential than 18 134A, the refrigerant in use today. 19 Adoption of Solstice will require few changes 20 to the AC systems. The operating pressures are 21 similar to the most popular refrigerant today, 22 134A. 23 Unlike CO2 systems, which require completely 24 new equipment design, which require significant 25 investment and resources to implement.

209 1 EPA/NHTSA PUBLIC HEARING 2 The ability of Solstice 1234yf to operate as a near drop-in substitute for 134A brings, as EPA and NHTSA recognized, challenges in developing 5 regulations to prevent backsliding to higher global refrigerant -- global warming refrigerant during 7 recharging. We support regulatory measures to protect 9 against backsliding and provide incentives for the 10 aftermarket to use below-GWP refrigerants. 11 Honeywell is offering to assist EPA and NHTSA 12 to develop a clear and appropriate approach to assure 13 the use and maintenance of low-GWP refrigerants in 14 the aftermarket. 15 EPA and NHTSA must continue to maintain clear 16 and appropriate regulatory programs so that 17 business may effectively commercialize and 18 transition rapidly to these low-GPW refrigerants. 19 Manufacturers must have confidence in a regulatory 20 approach to take the risks necessary to innovate and 21 world's most pressing environment and energy 22 security challenges. We believe that better 23 regulatory approaches are performance-driven, 24 technology neutral, and provide some flexibility, and 25 they must reflect the best available data and signs

	210
1	EPA/NHTSA PUBLIC HEARING
2	incorporating the most up-to-date research and
3	technical information.
4	The regulations will add credibility to the AC
5	credit program. Solstice 1234yf will serve as a
6	valuable tool for auto makers to achieve their
7	greenhouse gas emissions target and fuel economy
8	requirements while transitioning to low-GWP
9	refrigerants.
10	Solstice will contribute significantly to the
11	U.S. economy throughout the life of the rule.
12	We're committed to putting capacity in place, and
13	this will create many new jobs in construction
14	engineering and manufacturing.
15	In sum, Honeywell supports EPA and NHTSA's
16	approach to the continued use of the AC credit
17	program beyond 2016.
18	Thank you for your consideration.
19	MS. OGE: Mr. Crenshaw.
20	MR. CRENSHAW: Thank you. I'm Dr. Bryan
21	Crenshaw. I'm here as a citizen/activist with the
22	Sierra Club.
23	I want to thank you for the opportunity to
24	speak at this hearing in support of the new mileage
25	standards for passenger vehicles.

	Capital Reporting Company
	211
1	EPA/NHTSA PUBLIC HEARING
2	Today I bring two perspectives to this
3	hearing. First, as a biomechanical scientist at
4	the Children's Hospital of Philadelphia and the
5	University of Pennsylvania School of Medicine, and
6	more importantly, a perspective as a father of my
7	12-year-old son, Zachary, shown here expressing his
8	interest in stopping the environment stopping
9	global warming.
10	Many of the major scientific articles
11	addressing climate change and the release of
12	anthropogenic greenhouse gases that it causes
13	that cause it are published in major scientific
14	journals that I read daily, such as Science and
15	Nature.
16	I followed for interest I followed with
17	interest for years the strengthening evidence in
18	support of the science behind global warming.
19	Not only do the journals address the evidence
20	in support of climate change, but they also address
21	the engineering policy and economic solutions to
22	mitigate the worst effects of climate destruction

mitigate the worst effects of climate destruction.

In 2004, Nature and Science outlined an approach that could effectively address the problem, not by using a single solution, but a

23

24

25

	212
1	EPA/NHTSA PUBLIC HEARING
2	series of incremental and the feasible solutions
3	for different sectors of the economy, which they
4	refer to as stabilization wedges.
5	No single wedge could address the entire
6	problem, but by addressing each wedge individually
7	and collectively, it would lead to carbon
8	reductions necessary to stem global warming.
9	And relevant to this hearing, transportation
10	represents a fundamental component to the solution.
11	And I laud these new standards as an important step
12	in the wedge to decarbonize our transportation
13	sector.
14	Although as a scientist, the solutions of
15	decarbonizing our economy seem concrete and
16	feasible, as a father, I am concerned that our
17	public and private institutions are not doing
18	enough to address the impending serious problems
19	that will result if we do not reduce emissions of
20	greenhouse gases.
21	As a scientist, I read policy papers which the
22	best military minds, including General Zilmer, who
23	we heard in the previous session, view global
24	warming as a major national security issue.
25	And I'm encouraged that our military is active

213 1 EPA/NHTSA PUBLIC HEARING 2 upon this security concern by increasing their use of sustainable energy. Nonetheless, as a father, I fear that not 5 enough is being done to ensure the security of the world that I'm leaving behind for my son. 7 Also, as a scientist, I've read many policy papers by groups such as McKensey & Company that outline the dangers of global warming to the 10 economy and the modest costs such as those incurred 11 by this rule that is being proposed today. 12 costs are necessary to enumerate the negative 13 economic consequences. 14 As a father, I am here to encourage our 15 government to take necessary steps to ensure the 16 prosperity of our economy in the future. 17 Working at a major pediatric hospital, I'm 18 well aware of the numerous ill effects of burning 19 fossil fuels in vulnerable populations such as the 20 children. 2.1 So in venues such as the one today, I would 22 like to speak up to protect my child and children 23 like him in -- and by supporting actions that 24 reduce the amount of pollution that is spewed into 25 our environment.

214 1 EPA/NHTSA PUBLIC HEARING 2 For these reasons, I support the efforts of 3 the EPA and the NHTSA, the ones they are taking to implement an important rule critical for the 5 reduction of our use of fossil fuel, and consequently the production of greenhouse gases 7 that are endangering our climate. For my son and his generation, for their 9 security, for their prosperity, for their health 10 and well-being, I implore you to implement this rule 11 for their future and the future of their economy. 12 Thank you. 13 MS. OGE: Thank you. 14 I want to thank the Panel. We appreciate it. 15 MR. MEDFORD: I think we are now ready for the next Panel, which includes the following: 16 Jim Kliesch, Professor John Sorrentino, Steven 17 18 Stern, Emily Stern, Nora Nash, and Brendan Flynn. 19 MR. KLIESCH: Good afternoon. My name is 20 Jim Kliesch. I'm here today on behalf of the Union 21 of Concerned Scientists and our more than 350,000 22 supporters. 23 UCS strongly supports the proposed model year 24 2017 through 2025 vehicle greenhouse gas and fuel 25 economy standards, and applaud the National Highway

215

_		EPA/NHTSA	TODLIC	11111111111	
$\circ$	0-5-+	71		+1 0-1:6	

5

7

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Safety Administration and the California Air Resources Board for their respective roles in the development of the proposed standards.

Throughout the regulatory process the agencies have been transparent, relied heavily on independent technical analyses, sought ongoing input from the public, and other stakeholders.

UCS urges the agencies to finalize strong vehicle standards with the attention paid to susceptible provisions in the proposal that if exploited by auto makers would reduce the programs anticipated benefits.

America's dependence on oil puts our health and our environment and our national security at Whether it's the threat of international terrorism, the devastating impact of global climate change or lost income and jobs due to oil price shocks, the damage caused by American's heavy reliance on oil is clear.

Since transportation accounts for the majority of our -- of America's oil consumption, making our cars and light trucks clean and more fuel efficient is a keystone in cutting reliance and putting money back into the pockets of American consumers.

	216
1	EPA/NHTSA PUBLIC HEARING
2	Based on UCS analysis, the 2017 through 2025
3	standards alone would reduce global warming
4	pollution by as much as 290 million metric tons in
5	2030.
6	This is equivalent to shutting down 62
7	600-mega watt coal-fired power plants for an entire
8	year.
9	Cumulatively, this program will reduce
10	emissions by more than 1.7 billion
11	metric tons through 2030. The proposed standards
12	will also dramatically reduce U.S. oil consumption
13	by as much as 1.5 million barrels per day in 2030
14	alone.
15	That's equivalent to what the U.S. imported in
16	2010 from Saudi Arabia and Iraq combined.
17	In the oil savings of the full model year 2012
18	through 2025 program could result in a total oil
19	reduction of oil consumption of nearly 37.5 MBD in
20	2030, almost double the amount U.S. currently
21	imports from the entire Persian Gulf.
22	No other federal policy has delivered great
23	oil savings, energy, security benefits or
24	greenhouse gas emission reductions to the country.
25	Supplying clean, efficient technologies to our

	0.1.5
1	217 EPA/NHTSA PUBLIC HEARING
2	car and trucks that is a boon for the auto industry,
3	environment, and the economy alike. According to
4	our analysis, full implementation of the proposed
5	'17 through '25 standards would save consumers
6	cumulatively \$535 billion at the pump through 2030.
7	Even after paying for the additional cost of
8	better technology, consumers would still see over
9	\$260 billion of that savings through 2030.
10	While the cost of clean car technology will
11	lead to an increase in vehicle price, the average
12	consumer will save money the moment they drive off
13	a lot.
14	Since most Americans finance the purchase of a
15	new vehicle, the higher vehicle price is borne as a
16	slightly higher monthly loan payment, which is more
17	than off-set by avoided monthly fuel expenses.
18	The standards also strengthen our economy. By
19	spending less on oil, consumers will have more
20	money to spend on goods and services that will
21	create U.S. jobs.
22	A recent report from CERES found that
23	standards similar to those proposed by the agencies
24	would create nearly 500,000 new jobs nationwide in
25	2030.

218 1 EPA/NHTSA PUBLIC HEARING 2 Moreover, better fuel efficiency and 3 greenhouse gas performance will improve the competitiveness of the American auto industry. 5 In 2008, in the face of rising gas prices and declining economy, American auto makers were ill 7 prepared to meet consumers' needs. These standards will ensure that manufacturers continue to innovate over the coming decade, providing consumers clean 10 and efficient vehicle choices that will help them 11 fight for years to come. 12 UCS applauds the agents for proposing 13 standards that represent historic progress for 14 American consumers, U.S. auto industry, clean air 15 and U.S. energy security. 16 That said, key provisions in the proposal 17 could erode these benefits if auto makers exploit 18 them, and should be addressed by the agencies 19 before the standards are finalized. 20 For example, the proposal's midterm evaluation 21 provision must be structured to ensure that it is 22 used to support strong standards moving forward, 23 and not merely as an opportunity by the industry to 24 stall or forego regulatory obligations.

We're also very concerned that significantly

25

219 1 EPA/NHTSA PUBLIC HEARING 2 weaker standards for light trucks could give auto makers an incentive to reclassify passenger vehicles as non-passenger vehicles. 5 For example, the gap of roughly six to ten MPG exist between car and light truck target 7 stringencies in the footprint range seen by many crossover vehicles. 9 This gap is much larger than the fuel economy 10 loss a crossover would face from adding four-wheel 11 drive, which could enable it to qualify it for a 12 weaker standard as a non-passenger vehicle. 13 Gaming of the system like this will cut down on the anticipated program benefits giving the 14 15 sizable and growing popularity of the crossover vehicle segment. The agencies cannot afford to 16 17 dismiss this issue. 18 That said, the proposed 2017 through 2025 19 light-duty vehicle standards represent a historic 20 step forward with the potential to nearly double 21 the fuel efficiency and halve the greenhouse gas 22 emissions of light-duty vehicles sold in model year 23 2025 compared to those sold today. 24 Together with the 2012 through 2016 standards

there represents the most significant action taken

25

220 1 EPA/NHTSA PUBLIC HEARING 2 by the federal government to cut America's oil 3 dependency and curb global warming pollution. We thank the agency for the diligent work in 5 developing these proposed standards, and look forward to the finalization of strong standards 7 through 2025 by this July consistent with the time line issued in the most recent notice of intent. 9 Thank you. 10 MR. MEDFORD: Thank you. 11 Professor Sorrentino. 12 MR. SORRENTINO: Thank you. My name is 13 John Sorrentino. I'm an Associate Professor of 14 Economics at Temple University with a specialty in 15 Environmental Economics. 16 I recently published an article in the Journal 17 of Environmental Management on reducing air pollution 18 greenhouse emissions through sustainable housing 19 placement. 20 Part of the research was funded by EPA's 21 Office of Science Policy. 22 My comments today will include the following: 23 a quote from the Stern Review, the economic for 24 climate change, auto market benefits associated 25 with fuel-efficient vehicles, benefits from reduced

221 1 EPA/NHTSA PUBLIC HEARING 2 greenhouse gases, and my own personal response to 3 the proposed standards. A quote from the Stern Review: Climate change 5 is the greatest market failure the world has ever It interacts with other market 7 imperfections. The three elements of policy are required for 9 an effective global response. The first is the 10 pricing of carbon, implemented through tax, trading 11 or regulation. 12 The second is policy to support innovation and 13 the deployment of low carbon technologies. And the 14 third is action to remove barriers to energy 15 efficiency and to inform, educate and persuade 16 individuals about what they can do to respond to 17 climate change. 18 We are here for the first -- not here for the 19 first, but we are here for the second and third. 20 Auto market benefits associated with increased 21 fuel efficiency standards. In the 1979 paper, 22 Jerry Hausman pointed out that consumers of an 23 energy-using durable goods effectively used a 24 25-percent discount rate in calculating the present 25 value of energy expenditures over the life of the

222 1 EPA/NHTSA PUBLIC HEARING 2 good. In 1994, Jaffe and Stavens discussed what they call the "energy paradox," that consumer and firms have been remarkably slow to adopt apparently high 5 return energy efficient technologies. 7 These and other observations motivated a pair of MIT researchers to examine whether consumers of automobiles were responsive to future gasoline 10 prices. 11 While the Congressional Budget Office in 2008 12 concluded that consumers do respond to higher 13 gasoline prices, Mr. Widley at MIT concluded in a 14 2010 paper that consumer adoption rates of high 15 efficiency vehicles in the face of rising gas 16 prices were suboptimal, causing a welfare loss of 17 about \$3.6 billion in year 2005. 18 The welfare measure was lost consumer surplus, 19 plus what the office called a financial 20 internality. Policies to increase adoption rates will help avoid the welfare loss. 21 22 In 2002, the Office of National Academy of 23 Science study found that previous CAFE standards 24 have saved 14 percent of the-then current gasoline 25 expenditures.

2.1

More recently, the Union of Concerned

Scientists in collaboration with Nature Resource

Defense Council and go60.org estimate that drivers

in the State of Pennsylvania will save over

\$900 million annually as a result of the proposed

standards. The nationwide savings are estimated to

be \$44 billion.

The energy paradox provides justification for policies that directly affect consumer choices at vehicle purchase time as opposed to affecting the cost of using the vehicle over time.

Hence, the CAFE and GHG standards being discussed in this meeting appear to be necessary from the consumer choice side; that the U.S. auto industry has been party to the setting of this specific standards under discussion in the case; that the standards are feasible and not unduly burdensome. Both sides of the auto market stand to benefit.

In terms of broader economic impacts, the

Management Information Systems, Inc. performed

analysis for the Coalition of Environmentally

Responsible Economies series in 2010 that estimated

the creation of over 480,000 nationwide jobs in

	224
1	EPA/NHTSA PUBLIC HEARING
2	2030 as a result of the CAFE standards. That's
3	their 4 percent scenario.
4	Pennsylvania would see over 21,000 of these
5	jobs, as was mentioned earlier. The proposed
6	rule in a proposed rule, EPA estimates an
7	overall present value of net benefit of the
8	proposed standards to be \$421 billion in 2009 dollars
9	three-percent discount rate. NHTSA has a similar
10	estimate of \$358 billion.
11	Net benefits of reduced greenhouse gases. A
12	couple of studies that I mentioned here are the
13	Stern Review and the Norhaus DICE model, both of
14	which come up with positive net benefits for GHG
15	reduction.
16	While the magnitude and net benefits is open
17	to question, it is encouraging that the signs are
18	positive. Hence, policy policies reducing GHGs
19	are beneficial.
20	The UCS Go 60 study estimated that the
21	proposed standards would cut CO2-equivalent
22	emissions by over eight million tons annually in
23	Pennsylvania as a result of the standards. The
24	nationwide reduction in emissions is estimated to
25	be 280 million tons.

	225	)
1	EPA/NHTSA PUBLIC HEARING	
2	Using the global social cost of carbon given	
3	in the proposed rule of \$22 per ton in 2009 dollars,	
4	value of avoided emissions in Pennsylvania is	
5	\$176 million, and in the U.S., \$6.16 billion.	
6	In summary, the analysis and empirical data	
7	have led me to support the proposed standards.	
8	They will promote consumer welfare, encourage the	
9	innovation of the U.S. business sector, and have a	
10	positive effect on the U.S. economy.	
11	As a whole, it will reduce GHGs in the	
12	relatively short term, which many think will avoid	
13	serious problems in the long term.	
14	Personally, I support the standards because	
15	I'm a fairly strong environmentalist, and I feel	
16	that giving consumers the fewer technological	
17	options will make the choice of fuel efficiency	
18	easier.	
19	Thank you.	
20	MR. MEDFORD: Thank you.	
21	Next, Mr. Flynn.	
22	MR. FLYNN: Ladies and Gentlemen,	
23	representatives of the Environmental Protection	
24	Agency and the National Highway Traffic Safety	
25	Administration, thank you for holding this hearing	

226 1 EPA/NHTSA PUBLIC HEARING 2 today. 3 It's encouraging to see such a strong turnout for strong fuel economy standards. My name is Brendan Flynn. I'm a proud 5 graduate of the United States Coast Guard Academy. 6 7 I'm very happy to be here to encourage the EPA and NHTSA to follow the lead of the United States 8 military and take active steps to reduce our 10 dependence on oil by enacting a strong 54.5 miles 11 per gallon standard. 12 For over ten years, the U.S. military has been 13 engaged in a multi-front war in Afghanistan, Iraq 14 and around the world. The one constant in this 15 fight has been the copious amounts of diesel fuel 16 consumed by our forces. 17 Forward operating bases rely on a steady supply 18 of diesel to sustain operation. AlOs and AVAB's 19 providing closed air support burn through hundreds of 20 gallons of fuel simply staying aloft, a significant 21 expense, and in war zones a serious security 22 concern as every drop of that fuel must be brought 23 in with fuel convoys under continual attack. 24 It's very clear to me that America's oil 25 dependence makes us vulnerable. Some of my good

	227
1	EPA/NHTSA PUBLIC HEARING
2	friends in the Coast Guard have served guarding oil
3	platforms just off the coast of Iraq from
4	waterborne suicide boat attacks.
5	One such attack in 2004 took the life of
6	Damage Controlman Third Class, Nate Buckenthal, the
7	first Coast Guardsman to be killed in action since
8	Vietnam.
9	U.S. forces recently turned over oil platform
10	security duties to the Iraqis, but oil
11	infrastructure continues to be a target for attacks
12	overseas and here at home.
13	Furthermore, some of the money we spend for
14	oil goes into the hands of our enemies. 60 percent
15	of Iran's revenue comes from oil profits.
16	6-0 percent.
17	Oil-rich Gulf sheiks continue to donate money
18	to Afghan insurgents, Al-Qaeda franchise
19	organizations, and other organizations and
20	individuals we're fighting against.
21	As Former Director of Central Intelligence James
22	Woolsey said, we're fighting both sides of the war
23	for the first time since the Civil War.
24	This is why I believe we must adopt the 54.5
25	miles per gallon standard. Nearly half the oil

228 1 EPA/NHTSA PUBLIC HEARING that we use goes towards fueling our cars and 2 3 trucks. So that means that cars that use less gas will help break our addiction. 5 The standard is good for the economy as it will bring new investment in energy. It's good for 7 our national security as the less reliant we are on one source of energy, the less vulnerable we are to major destruction of supply. 10 Frankly, the only people in -- that this 11 standard is bad for are the insurgents and 12 terrorists fighting against our troops and plotting 13 against our nation. 14 So for the sake of our service members in 15 harm's way and for the future of our country, I 16 strongly urge the EPA and NHTSA to adopt this 17 standard. 18 Thank you. 19 MR. MEDFORD: Mr. Steven Stern. 20 MR. STERN: Good afternoon, everyone. 21 I'm here with my daughter, Emily. We're originally 22 from Delaware County, Pennsylvania. We moved to 23 New Jersey right outside of Atlantic City back in 24 June. 25 And I had the pleasure of taking a trip to

229 1 EPA/NHTSA PUBLIC HEARING 2 California over the summer. And we actually 3 purchased a 2003 Toyota RAV4 EV, electric vehicle. And the individual we bought it from -- we had 5 it transported here, back to New Jersey, back in the summer. And the individual had just purchased 7 a 2011 Nissan Leaf along with a second Toyota RAV4 EV. 9 And the car is nine years old. And I would 10 say that in my experience and my education into 11 electric vehicles, which is very short, that the 12 Toyota RAV4 comes with a nickel-metal hydride 13 battery. 14 And they say that a nickel-metal hydride 15 battery is probably ahead of its time even as today cars are being built with these lithium batteries. 16 17 The nickel-metal hydride battery is actually 18 manufactured by Panasonic. And Panasonic in a 19 lawsuit with Chevron, an oil company, purchasing a 20 nickel-metal hydride battery that's used for 21 electric vehicles. Okay? Chevron owns the patent 22 and seems that nobody can actually use the 23 nickel-metal hydride battery on any electric 24 vehicle unless they want to get sued. 25 So my suggestion is this, is that President

230 1 EPA/NHTSA PUBLIC HEARING 2 Obama has with a stroke of his left hand be able 3 to release the patent restrictions from Chevron, an oil company, to -- that other car manufacturers use 5 the technology of a nickel-metal hydride batteries in electric vehicles. 7 Now, I have a nine-year-old, 2003 Toyota RAV4 EV that gets 80 miles on a full charge, has almost 90,000 miles on it. 10 The gentleman in California, he has a 2003 11 Toyota RAV4, which gets a hundred miles on a range 12 on a full charge. 13 My daughter takes the car to Stockton College, 14 charges it up in the evening when she comes home, 15 takes it school. Sometimes she'll go to school without even charging it for two days. 16 17 So, again, my beef is that the nickel-metal 18 hydride battery needs to get back into these 19 companies, these car manufacturers, to start 20 building these cars. 2.1 The lady on the last Panel said we need to 22 have a car that has a hundred miles per gallon. 23 That's correct, we need to have a car right now 24 that has a hundred miles per gallon. 25 We don't need a car that gets 54 next year,

231 1 EPA/NHTSA PUBLIC HEARING 2 60, next year 65. We need to break our dependency 3 on foreign oil right now. Actually, we had to do it yesterday, last 5 year, five years ago, ten years ago. We see Presidents that say we need to break up 7 the dependency of foreign oil. We have Nixon, Carter, Clinton. Every president has said we need to break up dependency on foreign oil. 10 The only way they're going to do this is if we 11 start taking this innovation of nickel-metal 12 hydride batteries and putting them back into the 13 companies that produce electric vehicles. That's 14 my beef. 15 Thank you. 16 Emily, do you want to have an opportunity to 17 say something? 18 Okay. Thank you so much. 19 MR. MEDFORD: Thank you. 20 Okay. Ms. Nash. 21 MS. NASH: Good afternoon everyone. 22 am Sister Nora Nash of the Sisters of St. Francis of Philadelphia, and I do thank you for the 23 24 opportunity to be here today to publicly support 25 the clean car standards.

	232
1	EPA/NHTSA PUBLIC HEARING
2	I represent my congregation, a community of
3	over 500 women, but I also represent the Interfaith
4	Center on Corporate Responsibility.
5	This is a faith-based and socially responsible
6	organization of approximately 300 active
7	institutional investors.
8	We work with corporations to try to build a
9	more just and sustainable world by integrating
10	social values into investor actions.
11	I am a Franciscan, and our fait calls us to be
12	proponents for the care of creation,
13	sustainability. And that certainly includes
14	vehicle fuel efficiency.
15	We believe that the development of the
16	cleanest, not necessarily 50 or 60 miles an hour,
17	the cleanest car standards possible is not only a
18	moral responsibility, but it is a commitment to our
19	environment, to human rights, to human health, and
20	the overall well-being of our global community.
21	Global climate change and public health as
22	well as energy independence are strong reasons to
23	reduce U.S. reliance on oil and other fossil fuels.
24	Our fragile earth is already threatened by
25	cyclones, hurricanes, earthquakes, flooding and
I	

233 1 EPA/NHTSA PUBLIC HEARING 2 other disasters. 3 But other economic security is also threatened by our dependence on imported oil. It is estimated that the newer implementation of these standards 5 and better standards will reduce our consumption of 7 oil by several billion gallons, and even more cut global warming pollution by millions of metric tons. 10 It is encouraging to note that our country is 11 finally beginning to give serious thought to 12 seeking better ways to reduce our oil consumption, 13 dependence on foreign oil and move into a future 14 that is not totally dependent but directed toward a 15 deeper sense of our responsibility to care for the 16 earth. 17 We also know that the auto industry is getting 18 back on its feet and the news from Detroit is 19 hopeful. 20 It is evident that the technology to build 21 cleaner, more efficient cars has been available for 22 many years, and our auto industry I think is geared 23 up to get back on track. 24 I believe that this is an historic moment that 25 we need to take hold of, all of us. We have come

	234
1	EPA/NHTSA PUBLIC HEARING
2	together today to support clean air standards.
3	Hopefully, it's a real charter to lead us forward.
4	I believe also that it contains a world view
5	that we have and we share that we need to spread
6	and this world view, is a world view that is more
7	just more prudent, but also directed at the
8	common good, it's directed towards the greater
9	sense of national and personal responsibility.
10	We are called to take care of the earth and to
11	protect our natural resources. We are called to
12	pursue a healthier environment and promote
13	healthier communities.
14	And we certainly are called to support
15	economics of sustainability, greater independence
16	from foreign oil, and ultimately I think this is
17	key a more peaceful world where oil wars will be
18	offset by greater cooperation between nations and
19	the world's poorest nations will not be the victim
20	of our oil greed and consumption.
21	Why would we not support an opportunity to
22	move in the direction of clean cars, clean air, and
23	a healthier environment for all?
24	As a stakeholder, the Sisters of St. Francis
25	of Philadelphia and the Interfaith Center on

235 1 EPA/NHTSA PUBLIC HEARING 2 Corporate Responsibility are committed to move towards more efficient, cleaner vehicles to a better environment for all of us. And we thank the EPA and President Obama for 5 6 officially proposing these new standards, and we 7 thank you for the privilege of being present here today. 9 I am particularly grateful to the EPA, Penn 10 Environment, and all the other organizations that 11 have supported this. 12 Thank you. 13 MR. MEDFORD: Thank you very much. 14 Mr. Harper. 15 MR. HARPER: Good afternoon. I'm 16 Reverend Fletcher Harper, Executive Director of 17 Green Faith, the National Interfaith Environmental 18 Coalition. 19 Green Faith works with over 5,000 faith-based 20 groups nationwide to educate, equip and mobilize 21 them to offer leadership on behalf of the 22 environment. 23 I'm here today to offer Green Faith's strong 24 support to the fuel efficiency standards that are 25 the subject of this hearing.

236 1 EPA/NHTSA PUBLIC HEARING 2 The world's great religions, Judaism, Islam, Hinduism, Buddhism, Christianity and others affirm 3 three core beliefs that are consistent with both 5 the intent and the impact of the proposed standards. 7 First, these traditions teach that the earth reveals the existence of its creator, and therefore 9 those activities which protect or preserve a 10 healthy environment are morally significant because 11 they show respect to the creator and make it 12 possible for others to appreciate creation's 13 majesty and beauty. 14 Conversely, actions to degrade creation are 15 wrong because they show disrespect to the creator 16 while depriving many of the chance to enjoy the 17 beauty of God's earth. 18 This religious perspective is in certain ways 19 echoed in widespread recognition that there are 20 in the environment and that regulations and policies 2.1 must take these non-financial values into account. 22 By reducing air pollutions substantially, the 23 proposed standards are deeply consistent with this 24 first religious view.

Second, religion teaches us that society owes

25

2 a particular duty of care to its most vulnerable
3 members.

Again, the proposed standards support this value. Others here have testified about the harms to human health caused, for instance, by tailpipe emissions.

Green Faith is particularly aware of the disproportionate impact of air pollution on communities whose rates of asthma and respiratory illness are far higher than those in wealthier whiter communities.

The proposed standards would substantially decrease the particulate matter that contributes to these negative health impacts, an outcome clearly consistent with religious values.

In addition, the proposed standards would contribute to lessening our nation's greenhouse gas emissions, reducing the pace and level of climate change, which will again decrease negative health impacts on vulnerable communities domestically and internationally by reducing heat-related illness and death, slowing the spread of infectious diseases, decreasing damage due to severe weather events, and more. Clearly, these are morally

238 1 EPA/NHTSA PUBLIC HEARING 2 favorable outcomes. 3 Third, religions teach that human being are called to protect, care for and steward an earth 5 which in the end does not belong fully to us. Whether religion sees ownership in residing in 7 whole or in part with the divine, with future generations, or with the wider community of life, the point is clear, we are not free to use the 10 earth's resources solely for our own narrowly 11 defined well-being because ultimately the earth 12 does not belong to us. Rather than interpreting this as rejection of 13 14 the notion of private property, we prefer to 15 recognize that all human society develops some form 16 of ownership of earth's resources, whether 17 familial, clan base, governmental or private. 18 The issue is not whether or not we will 19 develop these systems of ownership. We always have 20 and we always will. The issue is whether the 21 ownership systems we develop are consistent with 22 our obligation to steward earth's resources 23 consistent with earth's inalienable purpose of 24 supporting life with which it was endowed with by

25

its creator.

239 1 EPA/NHTSA PUBLIC HEARING Once again, the proposed standards, by fighting 2 3 pollution and climate change and protecting human and ecological health, represent an important step 5 in making an ethic of stewardship real. In closing, let me repeat that the proposed 7 standards are deeply consistent with teachings and values from the world's great religious communities. 10 Thank you for the opportunity to testify in 11 their support. 12 MR. MEDFORD: Thank you. 13 Mr. David Ross. 14 MR. ROSS: My name is David Ross, 15 Associate Professor of economics at Bryn Mawr College. I'm the co-author of a classic industrial 16 17 organization textbook. My courses include 18 environmental economics, and I serve on my local 19 township planning commission. 2.0 In a perfect world, the price of gasoline 21 reflecting the environmental, national security and 22 public health externalities of fossil fuel 23 consumption, consumers would demand the most fuel 24 efficient vehicles and major auto makers would be 25 rushing to provide them.

	240
1	EPA/NHTSA PUBLIC HEARING
2	In our very imperfect world, the ongoing
3	political grid-lock, the proposed CAFE and
4	greenhouse gas standards are the single most
5	effective policy option on the table for addressing
6	our over-dependence on fossil fuels.
7	At current prices and with a public
8	misinformed about the consequences of greenhouse
9	gas greenhouse gases and other tailpipe
10	emissions, no one automobile company would
11	voluntarily shift to a truly fuel efficient fleet.
12	While demand for fuel-efficient vehicles is on
13	the rise, proper policy incentives still are needed
14	for a sustained shift to a more fuel-efficient and
15	climate-friendly fleet.
16	That's why I applaud both the details of the
17	rules you are considering today, and importantly,
18	the process that led to their preliminary
19	adoption.
20	The net benefits of proposals to raise fuel
21	economy standards in the past were eroded by
22	vehement industry opposition and conflicting
23	regulatory goals leading to delays through
24	litigation and gaming of the regulatory frame
25	work.

		241
1	EPA/NHTSA PUBLIC HEARING	
2	These 2017-25 compromised standards	
3	represent a consensus of relevant regulatory	
4	agencies, and many of the largest private sector	
5	players.	
6	The proposed rules make sense for a host of	
7	reasons, but I want to use my time today to addres	S
8	the criticisms that the few remaining opponents	
9	have been raising in the media.	
10	Focusing on affordability, passenger safety,	
11	impacts on automobile dealers, consumer freedom,	
12	and the consequences for our failing road network.	
13	Critics see the new standards as a formula fo	r
14	sticker shock. With price increases of \$2,000 to	
15	\$3,100, making automobiles unaffordable for low	
16	income consumers.	
17	Well, history demonstrates that initial	
18	estimates of the cost of complying with new	
19	environmental standards have proven grossly	
20	exaggerated as human ingenuity, when facing the	
21	proper incentives, finds novel cost-effective	
22	solutions.	
23	But suppose those purchase price estimates ar	ie
24	accurate, at current, gasoline prices, the savings	i
25	and lower fuel costs over the lifetime of the	

	242
1	EPA/NHTSA PUBLIC HEARING
2	vehicle would be approximately \$6,000.
3	And most low income consumers finance vehicle
4	purchases so that their net out-of-pocket expense
5	would actually be lower from day one.
6	Anticipated net savings could be much greater
7	if the real price of gasoline rises between now and
8	2025 as seems all too plausible given rising
9	demand for fossil fuels in low income countries,
10	political and economic unrest in oil-rich regions,
11	and the eventual recognition by the public and
12	political elites of the dire consequences of
13	human-influenced climate change.
14	Are fuel-efficient vehicles unsafe? Critics
15	anticipate that weight reduction will be a major
16	strategy to achieve greater fuel economy in a
17	cost-effective manner, and that this will increase
18	the likelihood of injury or death from vehicle
19	collisions.
20	They point to the 50 percent increase in
21	fatalities resulting from accidents involving
22	passenger cars and light-truck SUVs experienced
23	between 1979 and 1999.
24	But it wasn't so much the decrease in weight
25	of passenger cars as the dramatic increase in the

		243
1	EPA/NHTSA PUBLIC HEARING	
2	light-truck SUV share of all vehicles on the road	
3	that drove that statistic.	
4	The proposed standard limits any further	
5	worsening in vehicle weight disparities by linking	
6	fuel economy standards to vehicle footprint.	
7	If fuel economy gains are concentrated in	
8	high-end vehicles through new materials or	
9	increasing reliance on hybrid technology, then	
10	fleet weight disparities may even diminish.	
11	In my view, critics have failed to refute the	
12	reasonable NHTSA projections of a modest increase	
13	in safety under the 2017-25 standards.	
14	Now some automobile dealers groups claim harm	
15	through lost sales and lost jobs. In reality, all	
16	else equal, the projected drop in the net cost of	
17	vehicle ownership will result in an increase in	
18	sales.	
19	New fuel economy standards are one element in	
20	a portfolio of policies needed to protect the U.S.	
21	economy from fossil fuel price volatility.	
22	Nothing has been more harmful to local	
23	automobile dealers than the unpredictable	
24	plummeting demand we have seen following spikes in	
25	gasoline prices.	

2.44 1 EPA/NHTSA PUBLIC HEARING 2 Thoughtful observations note that higher fuel 3 economy standards threaten to increase the funding shortfall facing our failing road network. 5 This is certainly true. Road maintenance revenues flow primarily from gasoline taxes while cost are a function of miles driven. 7 By lowering vehicle operating cost per mile driven, new fuel economy standards may actually 10 increase total wear and tear on our roads. 11 The solution is to reform funding mechanisms 12 for road repair, not block these necessary new 13 standards. Thus, none of the criticisms I've 14 encountered hold water. 15 As an economist and a local government official, I'm clear that the benefits of these 16 17 standards far outweigh the cost for our environment 18 and our economy. 19 I thank everyone involved in developing the 20 proposed standards. I thank you for your patience 21 in hearing me out, and urge finalization of strong 22 standards for model years 2017, 2025 this summer. 23 Thank you. 24 MS. OGE: Good afternoon. 25 MS. FEENEY: My name is Katie Feeney.

2.45 1 EPA/NHTSA PUBLIC HEARING 2 For the sake of full disclosure, I work for the 3 Clean Air Council, but I hope you'll all take my comments as a concerned citizen today. 5 MS. OGE: We will. MS. FEENEY: Thank you. As someone who 6 7 is very, very concerned about global warming, I'm so pleased that a major action is finally being taken to decrease greenhouse gas emissions in 10 America, and I can't stress how much I mean that 11 sentence. 12 The 2017 and later model year light-duty 13 vehicle greenhouse gas emissions rule is 14 undoubtedly, as many people have said, one of the 15 biggest most progressive steps that America has 16 taken to tackle global warming. 17 The EPA and the National Highway Traffic 18 Safety Administration have collaborated to create 19 cleaner and more efficient vehicles that will effectively address major national concerns. 20 2.1 The continuation of the national program will 22 require auto makers to comply with regulations that 23 ultimately reduce greenhouse gas emissions, 24 decrease U.S. oil consumption and save American 25 consumers money at the pump.

246 1 EPA/NHTSA PUBLIC HEARING 2 I can't find anything wrong with those three 3 things. Finally, Americans can look forward to 5 reduction of harmful emissions, cut back in foreign oil dependency, and maintain a competitive role in 7 the automobile industry and clean energy technology industries for the future. 9 Again, nothing bad about anything that I just 10 said. 11 As a result of climate change, more frequent 12 natural disasters and weather events have already 13 damaged the earth, already threatening human 14 welfare across the globe. 15 In 2011, U.S. Department of Homeland Security recorded 99 major disaster declarations throughout 16 17 the country. These events collectively accumulated 18 approximately \$27 billion in economic losses. 19 From personal experience on Tuesday, 20 January 17th in Philadelphia at noon, it was 21 55 degrees outside. And today I say it's about --22 last time I checked it was 25, feels like 23. 23 Because I believe in science, I know that is 24 not just crazy weather that we're having. 25 Furthermore, within the past year nearly every

	247
1	EPA/NHTSA PUBLIC HEARING
2	Western oil company has reported an onshore or
3	offshore oil spill in Europe, Asia or North
4	America.
5	For this reason, we need to take action. The
6	consequence of climate change also negatively
7	impacts human health through increased heat-related
8	mortality in cities, increased rates of water- and
9	foodborne diseases and allows for industrial-borne
10	diseases, allergens, and skin cancer.
11	The allergen thing I actually understand all
12	too well. For this reason, we need to take action.
13	Finally, as the dangers of global warming
14	become realistic and indisputable, the government,
15	environmentalists, and the automobile industry must
16	confront this crisis head on, and I am so pleased
17	that they are.
18	America's addiction to foreign oil damages the
19	environment with devastating oil spills that
20	pollutes the air we breathe or water. It
21	contributes to climate change.
22	But we live in a world of dollars and cents,
23	and I understand that, so let's talk about them.
24	The United States spends approximately \$1
25	billion a day on foreign oil. The proposed

2.48 1 EPA/NHTSA PUBLIC HEARING 2 national program will address this problem. 3 approximately four billion barrels of oil and two billion metric tons of greenhouse gas emissions over the lifetime of those light-duty vehicles sold 5 in years 2017 through 2025. 7 This is a major step for us, for the U.S., whose light-duty vehicles emit 1.7 billion 9 tons of carbon dioxide a year. That 10 accounts for roughly 20 percent of the nation's 11 carbon emissions. 12 I know a lot of these have been said, but I 13 really don't think they can be stressed enough. 14 As our vice president would say, this is a big 15 "explicative" deal. The new fuel efficiency 16 standards have significant benefits and people like 17 me will see them. 18 Consumers who drive their 2025 model year 19 vehicle for its entire lifetime are predicted to 20 safe on average \$5,200 to \$6,600 in fuel savings. 2.1 In 2030, consumers as a whole are predicted to 22 save \$45 billion in gas. That same year 23 Pennsylvanians can expect to save \$991 million in 24 gas. 25 The program also promises to create thousands

		249
1	EPA/NHTSA PUBLIC HEARING	
2	of domestic jobs through hybrid and plug-in	
3	electric vehicle production. It will also allow	
4	American suppliers to enter into the market.	
5	In Pennsylvania 13 factories employ 8,662	
6	workers making it fifth out of the top 15 states	
7	with the highest number of auto workers in clean,	
8	efficient technologies.	
9	Estimates show that the national program will	-
10	create an additional 21,300 jobs in Pennsylvania,	
11	as well as 484,000 new jobs across the country	
12	potentially.	
13	So, to close, as a concerned citizen, this is	3
14	just a huge victory. The fuel efficient standards	3
15	would be a huge victory across the board for our	
16	country.	
17	I thank U.S. EPA and the U.S. Department of	
18	Transportation National Highway Traffic Safety	
19	Administration for the cleaner air that these	
20	standards will bring to me and to all Americans.	
21	Thank you.	
22	MS. OGE: Thank you. Ms. Rachel	
23	Arenstein.	
24	MS. ARENSTEIN: Thank you for the	
25	opportunity to speak today regarding the proposed	

250 1 EPA/NHTSA PUBLIC HEARING 2 fuel economy and carbon emissions standards. 3 My name is Rachel Arenstein. As part of the staff of the National Wildlife Federation, I care 5 deeply about the impacts of our greenhouse gas emissions on America's wildlife. 7 Most of us depend on cars in our daily lives, whether they are getting us to work, connecting us to our family and friends, or taking us on outdoor 10 adventures. 11 The mobility they afford us has enriched our 12 lives in innumerable ways. Unfortunately, America's 13 wildlife is bearing the burden of our 14 transportation needs. 15 But now we have the opportunity to reduce that 16 burden. These standards give us a real opportunity 17 to -- opportunity to roll back the pollution that 18 causes climate change and to protect wildlife for 19 generations to come. 20 Carbon pollution is causing warming climate 21 worldwide. These changes are causing habitat loss 22 and shifting weather patterns that impact wildlife 23 species, some of which may never adopt. 24 The 20 million barrels of oil America uses a 25 day are the largest source of carbon pollution in

251 1 EPA/NHTSA PUBLIC HEARING 2 our country. New vehicle standards would cut this 3 carbon pollution by over 600 million metric tons, about 10 percent of total U.S. carbon pollution 5 today. Deep cuts in oil use also means less pressure 7 for risky new drilling projects and pipelines in environmentally-sensitive areas and fewer leaks and 9 threats to people, wildlife, water, and our public 10 and private lands. 11 When drilling projects go wrong, whole eco 12 systems are threatened by disasters like the 13 Deepwater Horizon spill in 2010. 14 The U.S. auto industry has the opportunity to 15 lead the way to a green energy future. Freeing us from our dependence on oil, strengthening our 16 17 national security, saving American families 18 billions of dollars, creating jobs, and taking a 19 huge step in the fight to mitigate climate change. 20 With these landmark fuel economy and carbon 21 pollution standards, America's wildlife and auto 22 industry can flourish together. 23 MS. OGE: Thank you. 24 Mr. Jim Wyle. 25 MR. WYLE: My name is Jim Wyle from West

252 1 EPA/NHTSA PUBLIC HEARING 2 Chester, Pennsylvania. I'm an environmental activist and Sierra Club member. I was fascinated by the testimony this morning 5 of Rabbi Waskow, who made the analogy of the story of the Garden of Eden where people had not even a little bit of self-restraint even after being 7 warned. 9 I was also interested in the testimony of the 10 native German woman this morning -- I'm sorry, I've 11 lost her name -- that likened the consumer buying 12 habits to those of an addict. 13 I wouldn't say that America or the world is 14 addicted to fossil fuels or are, but our 15 transportation energy and our global economy is 16 certainly heavily dependent on oil and other fossil 17 fuels. 18 The supply of fossil fuels on this planet is 19 finite. We can debate the size of the supply, but 20 the fact that it is finite is beyond debate. 21 Our oil supply will run out someday. So given 22 that, that there is a finite supply of something 23 that our global economy is very dependent on, what 24 possibly can be the argument for having a national 25 strategy of use it up as fast as possible?

	253
1	EPA/NHTSA PUBLIC HEARING
2	Where is the logic in this strategy? This is
3	only one argument I can think of. I better get my
4	share before you use it all up.
5	The U.S. should eat fast before China eats the
6	whole pie. This is a juvenile argument.
7	The growth and energy policies of developing
8	nations is an issue to be sure, but this but
9	still unrestrained gluttony does not seem like a
10	thoughtful strategy.
11	Please help us realize a little bit of
12	self-restraints. I endorse higher fuel efficiency
13	standards.
14	Thank you.
15	MS. OGE: Mr. Andrew Bloom, Mr. David
16	Bennett, Ms. Colleen Guine.
17	MS. GUINE: Thank you. Good afternoon,
18	my name is Colleen Guine. I'm a pediatric nurse
19	practitioner. I've cared for children in South
20	Philadelphia for 16 years.
21	And a little statement that I have prepared:
22	Over 10 percent of the children in Philadelphia
23	suffer from asthma.
24	And as the earlier presenter talked about her
25	personal experience with asthma, I just wanted to

	254
1	EPA/NHTSA PUBLIC HEARING
2	share with you today briefly, the personal side of
3	asthma is devastating for families, not just for
4	the children who are patients, but also for the
5	patients who need to miss work, who can't plan
6	their day, and their week and their month because
7	they don't know when their child's asthma will
8	trigger again.
9	Some children are fortunate enough to have
10	health insurance which will ensure them quality
11	care with severe exacerbations and others are
12	trapped in their homes afraid to walk up the
13	stairwell because they might trigger another asthma
14	attack.
15	I see children every day and I do know, as you
16	do as well, that by getting these standards
17	approved, we will help those children's lives.
18	A lot of people talk about dollars and cents,
19	and clearly the cost of asthma is huge economically
20	in this country.
21	But the personal cost is higher and cannot be
22	truly measured. The fear, the uncertainty in these
23	children's lives can be overwhelming.
24	Just last week I had a patient who seemed to
25	be well, was in between doses, didn't need any

255 1 EPA/NHTSA PUBLIC HEARING 2 medicine for months on end, and literally within 24 hours she was in the ICU on the verge of being intubated. Now, whether or not these standards had come 5 in five or ten years ago, might have made a 7 difference in this children's day or week or month, I don't know. 9 But I can tell you that that admission has 10 changed his life. Anything you can do to get these 11 standards approved and through, I wholeheartedly 12 support. 13 I thank you so much your time. I hope you 14 guys get home before midnight. 15 Thank you. I appreciate it. MS. OGE: Jon Gensler. 16 17 MR. GENSLER: Thank you for allowing me 18 the opportunity to address you Ladies and Gentlemen 19 this afternoon on the proposed rule to improve the 20 fuel economy of our automobile and light truck 2.1 fleet. 22 My name is Jonathan Gensler, and I consider 23 myself a climate hawk here today to speak on behalf of thousands of veterans across the country who 24 believe that our nation's -- I will call it an 25

256 1 EPA/NHTSA PUBLIC HEARING 2 addiction, addiction to oil and fossil fuels, are 3 absolutely contributing to climate change and are threatened very direct to national security. 5 I believe that the proposal that we're discussing here today is a vitally important step 7 towards reducing that threat, protecting our troops, and furthering our national interest abroad. 10 I know that General Zilmer and Former 11 Coastquardsman Brandon Flynn and another gentleman 12 this morning told a little bit about their stories 13 and illuminated the reasons why the military 14 believes this and would be behind you by taking its 15 own actions. 16 I'm today going to tell you little about me 17 personally and why I as a soldier and veteran 18 support what you're doing. 19 I am a very lucky man to be here today before 20 you. I'm a proud son of the State of West 21 Virginia. I grew up a stone's throw away from the 22 fields in the south of the state. 23 I'm also a graduate of the United States 24 Military Academy at West Point. 25 During the Iraq war, where I led an

257 1 EPA/NHTSA PUBLIC HEARING 2 in-between motor platoon with the 4th Infantry 3 Division during the first year of that conflict, I made it back from my combat tour safely with all of my limbs, without major injury to myself, or any 5 sustained casualties amongst the soldiers that I 7 was leading. But my experiences in war have made me 9 understand and care very deeply about our national 10 security, as I still have countless friends 11 fighting overseas, not all of them have made it 12 back like me. 13 Since I got out of the Army a few years ago, 14 I've spent my time very wisely. I worked -- I've worked and lived in Bethlehem just up the road from 15 couple of years for a lighting controls company. 16 17 I was very involved with the Delaware Valley 18 Green Building Council. And I spent the last few 19 years in Boston in graduate school studying 20 national security, energy, the economy, and the 2.1 business solutions that I believe are fundamental 22 to solving those problems. 23 It's really deepened my understanding between 24 the links that exist between resource consumption, 25 figuring out how to sustain an environment that can

258 1 EPA/NHTSA PUBLIC HEARING 2 sustain us, all the while providing a safe international neighborhood for the expansion and promotion of America's ideal of liberty and freedom. 5 So let me be very clear that the connection 7 between oil consumption, climate change and national security is very real. 9 The U.S. consumes nearly a quarter of the 10 oil, but only controls around three percent of the 11 production. 12 The longer the U.S. will remain dependent on 13 fossil fuels, the more we have to engage in tough 14 wars just to protect our energy supplies, all the 15 while putting American lives at continued risks. But this threat isn't one that merely stems 16 from our involvement overseas. In actuality, we 17 18 have been financing both sides of our current 19 conflicts through our unencumbered consumption of 20 petroleum. 21 Every day our nation spends around 22 \$100 million overseas to import oil. While all of 23 that money certainly doesn't go directly into the 24 coffers of our enemies, it supports a global system 25 of petroleum trade underpinning the revenues of

	25:
1	EPA/NHTSA PUBLIC HEARING
2	what we learned earlier, 60 percent of the
3	revenues that go into the nation of Iran.
4	This global system of oil trading ultimately
5	benefits most those who are trying to kill us and
6	end our way of life. If we didn't consume so much
7	oil, we wouldn't be hearing about the war with
8	Iran.
9	We wouldn't have to figure out how to
10	implement global sanctions on Iranian commodity
11	trading banks because that heinous regime would be
12	out of money and the people in that country would
13	likely join the Arab Spring in declaring for
14	change on their own.
15	But this also isn't just an academic or
16	economic threat to veterans like me. It is a very
17	deep and profound personal trend.
18	For me, understanding this came on a cold day
19	in December of 2007 as I helped lay to rest in
20	Arlington National Cemetery a West Point classmate
21	and fellow West Virginian, Captain Ben Tiffner.
22	He was killed in Iraq while on patrol by an
23	advanced roadside bomb that was designed, built and
24	financed by the Iranian government that is as we
25	discussed to this day propped up by oil revenues.

260 1 EPA/NHTSA PUBLIC HEARING 2 But not two months later, nearly four years 3 ago to this very day, I was burying another friend and football teammate at West Point, Captain Tori Malerd. 5 He was killed in a strikingly similar incident 7 by a very similar weapon, again, funded by black-stained petro-dollars. 9 How many more of our bravest young Americans 10 will we lose while we continue to debate and 11 prolong action? 12 It is for all of the other Bens out there, the 13 Toris, their wives and families, that we must today support this proposed new regulations. 14 15 Troops abroad continue to risk their lives to protect our nation from threats that are caused and 16 17 propagated by dependence on oil. 18 I believe, as do thousands of other veterans 19 like me, that working together all of us here can 20 also make efforts to protect national security. 2.1 As a veteran, I thank many in the automobile 22 industry for developing and manufacturing cleaner 23 and more efficient engines and vehicles. 24 America can and will move forward with this 25 important action today, undoubtedly strengthen our

	261	
1	EPA/NHTSA PUBLIC HEARING	
2	national security, and preserving the lives of	
3	great Americans like Tori and Ben.	
4	Thank you.	
5	MS. OGE: Thank you for your testimony.	
6	Thank you for your service.	
7	Any questions?	
8	I'd like to thank the Panel for taking the	
9	time to share your views with us. We really	
10	appreciate it.	
11	Next Panel.	
12	MR. MEDFORD: Reverend Nathan Walker,	
13	Jeff Hornstein, Ashland Farren, Sue Edward, Sue	
14	Garelik, Bob Carey, good afternoon.	
15	MR. HORNSTEIN: Thank you so much for	
16	coming to Philadelphia to hold this set of	
17	hearings.	
18	I'm the executive director of the newly formed	
19	Greater Philadelphia Taxi Association.	
20	This is the 501(c)(6) trade organization that	
21	represents the interest of taxi cab medallion	
22	owners, operators, dispatchers, taxi companies, and	
23	allied industries here in Philadelphia.	
24	We're trying to unite the forward-thinking	
25	elements in Philadelphia's taxi industry around a	

262 1 EPA/NHTSA PUBLIC HEARING 2 common goal of improving the industry's function of 3 the vital element in our city's transportation system and hospitality sector. I thank you for this opportunity to testify 5 here. 7 To paraphrase, a taxi industry leader, the Ford Crown Victoria is the workhorse of the taxicab 9 business. That is surely the case here in 10 Philadelphia. 11 There are 1600 medallion taxi cabs in the City 12 of Philadelphia, of which 1,514 or 95 percent are Crown Vics. 13 14 At the present moment only 15 cars, slightly 15 less than one percent of the fleet, are 16 fuel-efficient hybrids. 17 According to a 2008 study in New York City, 18 Crown Victoria taxi cabs pumps 1.5 thousand 19 pounds of carbon dioxide into the atmosphere 20 per mile. 21 A typical Philadelphia taxi cab is driven 500 22 to 1,000 miles per week, depending on whether the 23 cab is driven by an individual driver or is part of a fleet. 24 25 That means that each of the 1,514 Crown Vic

263 1 EPA/NHTSA PUBLIC HEARING 2 taxis currently in the Philadelphia fleet, spew anywhere from 39,000 to 78,000 pounds of carbon dioxide into the environment per year. The Crown Vic taxis contribute between 5 59 million and 118 million pounds of carbon dioxide 7 to the Philadelphia atmosphere per year. No wonder this Philadelphia is regularly 9 included on the asthma foundation's ten worst list. 10 By contrast, the hybrid vehicle omits 0.4 11 pounds of CO2 per mile. For every hybrid that 12 replaces a Crown Vic or other similar vehicle in 13 the taxi fleet, there are about between 29 and 58,000 thousand fewer pounds of CO2 released into 14 15 the atmosphere per year. 16 In sum, for every one percent conversion in 17 Philly's fleet, we can reduce CO2 emissions by 18 460,000 to 930,000 pounds per year. 19 As if the impact on air pollution were not 20 enough, we should also consider the economic impact 21 of low-efficiency taxi cabs. 22 With average fuel efficiency of 13 miles per 23 gallon in a stop-and-go driving typical of urban 24 taxi cabs, cars like Crown Vic also hurt drivers 25 economically and the local economy as a whole.

2.64 1 EPA/NHTSA PUBLIC HEARING 2 Virtually all taxi drivers are independent 3 contractors, and they pay for their own gas, which today ranges from \$3.30 to \$3.99 per gallon in 5 Philadelphia. The typical Philadelphia taxi cab driver logs about 500 miles a week. Behind the wheel of a 7 Crown Vic, he can expect fuel bills of about \$127 9 to \$153 a week. 10 Hybrids by contrast gets 46.6 miles per gallon 11 in city driving for a total fuel bill of about \$35 12 to \$43 per week. In other words, driving a hybrid taxi could 13 14 save the average Philadelphia cab driver between 15 \$84 and \$118 per week, putting about \$4,000 to 16 \$6,000 of additional income in each driver's pocket 17 per year. 18 With the average cab driver in Philadelphia 19 earning about \$24,000 per year, according to 20 federal data, shifting to more fuel-efficient 21 vehicles would be a huge income boost for some of 22 the hardest working people in our city. 23 As we know, additional income earned by people 24 in the lower deciles generally goes directly back

into local economy, in the form of consumer

25

265 1 EPA/NHTSA PUBLIC HEARING 2 spending. 3 So shifting to a fully fuel-efficient taxi fleet translates into millions of dollars and additional local spending and saving. 5 6 But as everyone in this room knows, it's 7 cheaper today to buy a sturdy lower fuel efficiency vehicle. That is why most taxis are still repurposed Crown Vics and similar vehicles. 10 There's glimmers of change here in 11 Philadelphia with 15 hybrids entering the fleet in 12 the past year purchased mostly by larger medallion 13 owners with the requisite financial capacity. 14 But if the federal government changes 15 standards, the auto market will have to follow 16 suit. 17 President Obama's clean car standards go a 18 long way towards more rapid adoption of 19 fuel-efficient cars for Philadelphia taxi fleet. 20 As we have seen, this should be for both the 2.1 environment and the economy. 22 Thank you. 23 MS. OGE: Thank you, Mr. Walker. 24 MR. WALKER: Thank you. I'm Reverend 25 Nathan Walker, and I serve the First Unitarian

	266
1	EPA/NHTSA PUBLIC HEARING
2	Church of Philadelphia. I'm also the Vice
3	President of the Unitarian Universalist
4	Pennsylvania Legislative Advocacy Ministry
5	representing 6,000 Unitarian Universalists.
6	I was a lifelong Democrat until last September
7	when President Obama rejected the clean air
8	regulations proposed by the Environmental
9	Protection Agency.
10	I am testifying today about the EPA's proposed
11	fuel efficiency standards with the hope that
12	President Obama will put science before politics
13	and love before fear.
14	The science is clear. U.S. greenhouse gas
15	emissions from transportation are significantly
16	higher than they were in 1990 due to our extreme
17	reliance on oil.
18	For this reason, the proposed fuel efficiency
19	standards are far too weak and are not equal to the
20	international peer countries.
21	The European Union, for example, requires
22	vehicles to meet an estimated combined average
23	emissions level of 209 grams of carbon dioxide per
24	mile as compared to the EPA's proposed 250
25	grams.

267 1 EPA/NHTSA PUBLIC HEARING 2 I strongly urge the EPA to revise this 3 proposal and recommend U.S. standards that at least parallel international standards demonstrating our 5 commitment to take shared responsibility for being the second largest producer of greenhouse gases in the world. 7 Such a revision could invite President Obama 9 to do what he could have done with the smog 10 standards, to put science before politics. 11 Our policies need not be rooted in the belief 12 that all creation was made for our consumption. 13 For the government to refuse its duty to 14 regulate private industry can severely endanger the 15 health of people and our planet. 16 Just as smog can contribute to asthma and 17 heart disease, so can irresponsible levels of 18 greenhouse emissions significantly contribute to 19 climate change and threaten the interdependent web 20 of existence of which we are a part. 2.1 It also threatens our economy. By 22 strengthening the greenhouse gas emission 23 standards, we can offset the current \$23 billion in 24 gross external damages caused by transportation in 25 the U.S.

268 1 EPA/NHTSA PUBLIC HEARING 2 I urge the EPA to propose higher standards, 3 and to require President Obama to be vigilant about putting science before politics and love before fear. 5 When we reduce greenhouse gas emissions, we 7 express our love for the earth and all its inhabitants, and we stimulate our economy by 9 providing incentives for technological advances, 10 and in doing so we make comparable advances in our 11 democracy. 12 We are stewards of the earth. And how we 13 govern today will determine our future well-being. 14 May we govern wisely, aware of the ancient 15 proverb that we use at the First Unitarian Church 16 here in Philadelphia, we pick fruit from trees we 17 did not plant, we drink water from wells that we 18 did not dig, and this is as it should be, so long 19 as we dig and plant for those who come after. 20 Thank you. 21 MR. MEDFORD: Ms. Farren. 22 Thank you for hearing me MS. FARREN: 23 speak today. My name is Aislinn Pennicost Farren, and I live and work in Philadelphia. I support the 24 25 proposal for stronger fuel efficiency standards.

269 1 EPA/NHTSA PUBLIC HEARING 2 As a member of the millennial generation, my 3 country's relationship to fossil fuels is something that I worry about on a daily basis. 5 In the past few years I've noticed the strange and extreme weather and in my daily life, changes 7 caused by global warming. These changes were already having an effect on 9 our agricultural industry and coastal areas and I 10 see this in prices at the farmer's market. 11 proposed standards would cut global -- annual 12 global warming pollution by 280 million metric tons 13 by 2030. We definitely need to do that. 14 I also worry about the economy. 15 standards will create 500,000 new jobs in America, including 21,000 here in Pennsylvania. We really 16 17 need to do that. 18 And several of my friends from school have 19 fought in wars in the Middle East risking their 20 lives in a region we send hundreds of millions of 21 dollars to every day to sustain our dependency on 22 oil. 23 We need to cut that cost flow. 24 standards don't seem like enough to me. But they 25 seem like a good start.

270 1 EPA/NHTSA PUBLIC HEARING 2 I support the proposed standards because I would like to be able to buy a car that saves me 3 money on gas, doesn't depend on risking my friends lives overseas, doesn't contribute to global 5 warming related turmoil in coastal areas, and in 7 agriculture industry and creates jobs for me and my fellow Americans. 9 Thank you. 10 MR. MEDFORD: Thank you very much. 11 Ms. Edward. 12 MS. EDWARDS: Hello. My name is Sue 13 Edwards. I appreciate the chance to speak to you. 14 I'm afraid that what I have to say is 15 something you've already been hearing all day, but you're very kindly listening to all of us. 16 I'm a Sierra Club volunteer. I recently 17 18 retired and I'm spending as much time as I can 19 working to protect the planet because to me that's 20 the issue of our age and what that's what I want to 21 -- people say you're going to go traveling now that 22 you're retired, nope, I'm working to stop climate 23 change, so that's the position I'll be speaking 24 from. 25 I've been reading all I can in the past few

271 1 EPA/NHTSA PUBLIC HEARING 2 years on scientists finding about climate change. 3 It is clear to me that the vast majority of authoritative peer reviewed scientific studies 5 conclude that there is already serious damage being done to fragile balances of nature as humans 7 continue to spew carbon dioxide, methane and other greenhouse gases into the atmosphere. 9 I am concerned enough about this that I was 10 one of over 1200 who committed civil disobedience 11 and were arrested at the White House at the end of 12 this past summer to call for rejection of the 13 Keystone XL pipeline that would end up massively 14 increasing the amount of greenhouse gases going 15 into the atmosphere. 16 I applaud President Obama's rejection of that 17 pipeline this week and I hope he sticks with that 18 position. 19 I am very encouraged by the improved fuel 20 efficiency standards that have been proposed, and I 21 urge you to adopt them without loopholes. 22 We need to curb our use of fossil fuels if we 23 are to have a livable planet for our children and 24 grandchildren.

25 I have two sons and hope there may be

272 1 EPA/NHTSA PUBLIC HEARING 2 grandchildren in my future, though I'm trying not 3 to pressure them, so I have a good stake in doing my part, so they'll have an environment that's livable, not just for cockroaches, but also for 5 humans. 7 I am sure you must be aware of the many predictions that were made in 2007 by the intergovernmental panel on climate change, the 10 IPCC, about the effects of climate change in a wide 11 variety of places on our planet. 12 Devastatingly, a whole litany of these 13 predictions have come about precisely as the IPCC 14 warned. Examples from 2010 include the hottest 15 summer in record -- on record in Russia -- I'm 16 trying to shorten this a little bit -- Pakistan's 17 heaviest monsoon rains on record. 18 Northwest China's flood and landslides which 19 killed at least 1100 people. Iowa's latest 20 thirty-six month period in 127 years of record 21 keeping. And the breaking off of a 100-square mile 22 chunk of ice from the great Peterman Glacier in 23 Greenland. 24 Worldwide temperature readings show that the

first half of 2010 was the hottest six months since

25

273 1 EPA/NHTSA PUBLIC HEARING 2 record keeping began in the mid 1970 century. nations recorded all-time high temperature in 2010 more than in any other year. 2011 was no better with a summer that was the 5 third hottest on record for the globe as a whole. 7 There was an unprecedented numbers of weather related disasters including droughts in Texas and East Africa. 10 Thailand, Australia, Columbia and Brazil all 11 experienced floods that were either the deadliest 12 or the most costly natural disasters in their 13 histories. 14 The U.S. had major floods, too, but most of 15 our weather-related natural disasters involved 16 tornados and other storms. 17 Iowa and Missouri had heightened tornado 18 activity including the one in Joplin, Missouri that 19 killed 161 people. 20 As a Quaker, my faith holds that, "We 21 recognize that the well-being of the earth is a 22 fundamental spiritual concern. Our planet as a 23 whole, not just the small parts of it in our 24 immediate custody, requires our responsible 25 attention."

		274
1	EPA/NHTSA PUBLIC HEARING	
2	I firmly believe that human kind has the	
3	intelligence to understand our situation and act	
4	swiftly to protect the environment upon which we	
5	are dependent. What we need is the courage and	
6	political will to act.	
7	I urge you to adopt the strongest possible	
8	fuel efficiency standards for the sake of the	
9	future of human kind. Thank you.	
10	MR. MEDFORD: Ms. Garelik.	
11	MS. GARELIK: Thank you for the	
12	opportunity to offer my enthusiastic support for	
13	new loophole-free 21st century CAFE standard.	
14	This use of regulations of setting stretch	
15	goals to encourage innovation and vastly improved	
16	energy efficiency reflects the best of government	
17	alliance with science and technology with benefits	3
18	to all of us who breathe air, to our industrial	
19	competitiveness and to the planet's future.	
20	As one who has always chosen cars based on	
21	their efficiency and reliability, I'm thrilled by	
22	the new choices this will generate. I bring at	
23	least two perspectives to this issue.	
24	First, as an avid gardener, I am already	
25	seeing the effects of instability in temperature	

	275
1	EPA/NHTSA PUBLIC HEARING
2	and precipitation in my own backyard.
3	Deluge, followed by drought, changes in growing
4	season and invasives are happening now as predicted
5	in the models of climate change.
6	By extension, this is a threat to our health
7	that is the entire planet from rapid change is
8	already apparent and has the potential to
9	accelerate becoming much worse in a short time.
10	Second, as a nurse, another nurse testifier,
11	I've struggled with the difficulty of helping
12	patients with chronic diseases in learning how to
13	manage them effectively.
14	The highest hurdle is always denial. Surely
15	that one more candy bar can't matter, the ongoing
16	damage to heart, kidneys, and brain are vivid to them
17	and invisible to them.
18	Our energy policy too closely resembles an
19	obese sedentary diabetic refusing to acknowledge
20	the necessity of major dietary and activity changes
21	to prevent the ravages of this disease.
22	No abstract lecture can penetrate, but if the
23	needed changes can be introduced one at a time, the
24	resulting improvement in how he feels can lead to
25	acceptance of larger reality, disasters averted.

276 1 EPA/NHTSA PUBLIC HEARING 2 These CAFE standards are only one of many 3 changes in our energy, diet, and activities, so to speak, required to limit the huge energy imbalance 5 we have created by our over dependence on fossil fuel, and our wasteful outdated 7 infrastructure. They have the potential to demonstrate in a 9 vivid and personal way, the advantages of improved 10 technology to not only our air quality and carbon 11 dioxide emission, but the life cycle cost of 12 vehicle ownership. 13 I'm hopeful this model will help pave the way for greater acceptance of the reality of climate 14 15 change and the ability of intelligent regulation to 16 spur needed innovation. 17 Thank you. 18 Thank you. Mr. Carey. MR. MEDFORD: 19 MR. CAREY: Hi. My name is Bob Carey. 20 I'm here not as a scientist, a researcher, or a 21 writer, or reporter, or any sort of technical 22 background. I'm here as a citizen invited by the 23 Sierra Club. 24 By the way, happy birthday to the Sierra Club. 25 120 years of successfully representing our common

277 1 EPA/NHTSA PUBLIC HEARING 2 welfare. 3 Our common welfare is a phrase that should be They've excluded no one in who they underlined. 5 represent. Also, thank you for the EPA for hosting this 7 important event. I understand that it's to be carried forward to Congress and it will be recording our public support for it. 10 Also, thank you for providing me, a citizen 11 with no particular background, the opportunity to 12 speak on behalf of people who would not normally be 13 heard, if ever, regarding policy that affects the 14 public welfare, goes before Congress or decisions 15 from the White House. 16 Mainly, those are my children: Avery, six 17 years old, and Vaughn (ph), nine. The three older siblings fortunately have 18 19 grown healthfully to an age where they're able to 20 articulate and defend their own positions. 2.1 I will assure you that's a mixed blessing. 22 Surprisingly to me, as I was thinking about being 23 here today, my nine year old asked me from the backseat of the car: Dad, what do you suppose the 24 25 Urban planners were thinking about when they were

		278
1	EPA/NHTSA PUBLIC HEARING	
2	planting the green space for median. My	
3	six-year-old said what's green space.	
4	I was immediately excluded from the	
5	conversation. They were no longer interested in my	У
6	opinion. I didn't know that they were aware of	
7	what an Urban planner was or what green space was.	
8	So it changed my focus for today, because I	
9	realized that their voices are never chosen to be	
10	heard on these topics, but they're the ones that	
11	they're going to affect most.	
12	So I'm here today primarily as a dad. Since	
13	they're already having these conversations, I'm	
14	here to represent their concerns, the future is	
15	arriving quickly.	
16	I'm particularly wary of the possible changes	
17	to the new standards which we're applauding here	
18	today, being watered down during what's called the	
19	midterm review.	
20	That's my concern. I do recognize that we are	е
21	in an election year, a very important election	
22	year, that the auto makers had signed this.	
23	I thought was a little suspect. It seems like	е
24	an agreement not to disagree in a very heated time	,
25	that we will be able to put off for future, a	

	279
1	EPA/NHTSA PUBLIC HEARING
2	possible conflict.
3	And I would like to beg the EPA to stay on top
4	of that, to make sure that those midterm reviews
5	are based on science and towards health.
6	Air quality is not something that specific to
7	any group. As far as I know, being a citizen is
8	not even required. Oxygen is a right that we all
9	have. It's a basic need to biology.
10	We all it's a universal right. It should
11	never take second place to politics or money. It's
12	a universal need, and I hope that that's what we
13	keep focused on.
14	I mean, the economy is important and I
15	understand that. It will always be here. We will
16	always be trading, but we can't trade away the
17	future right of our children to clean air. It's
18	basic to their need. It's basic to the survival
19	and their quality of life. I hope we stay on top
20	of that rigidly.
21	Thank you.
22	MR. SILVERMAN: I wanted to just reply
23	very brief, quickly to one thing that Reverend
24	Walker said, which was comparison to the EU
25	standards.

2.80 1 EPA/NHTSA PUBLIC HEARING You should understand these are fleet average 2 standards and what that European Union is 3 reflecting is that there are a whole lot more small 5 cars in the European fleet than the domestic fleet. If you put our standards with the same fleet, 7 you'd actually come up with the lower CO2 number than the European Union. 9 So our standards technically are requiring 10 more technology even in the European Union. 11 what you're seeing there is different fleet 12 composition and not different stringency. 13 MR. MEDFORD: Thank you, Panel, very 14 much. 15 MS. OGE: The next Panel, two 16 representatives from Masterman School, I understand 17 that also we have students attending this public 18 hearing. 19 So I'm going to ask Ms. Katherine Breiner and 20 Susan Erlich to come forward. 21 You can bring the students with you or you can 22 stand up and we can recognize them. 23 Welcome. 24 MS. BREINER: Thank you for this 25 opportunity.

```
2.81
 1
                  EPA/NHTSA PUBLIC HEARING
 2
              Would you guys like to introduce yourselves at
 3
         the end.
                   MR. HAVEN: I'm Gayle Haven, and I'm a
         freshman.
 5
                   MR. BALDWIN: I'm Christopher Baldwin,
 7
         and I am a junior.
                   MR. FRY: I'm Nick Fry, and I'm also a
 9
         senior.
10
                   MS. ELWELL: I am Madeline Elwell, and
11
         I'm a sophomore.
12
                   MS. MAHMOUD: I'm Emtithal Mahmoud, and
13
         I'm a senior.
14
                   MS. ERLICH: I'm Susanna Erlich, and I'm
15
         a sophomore.
                   MS. BREINER: And I am Katherine Breiner.
16
17
              We represent Masterman High School's Division
18
        of the Environmental Club. We call ourselves the
19
        environmental consciousness organization, and we
20
         just started this year, so this is a new thing for
2.1
        us.
22
              Thank you so much for this opportunity to
23
         speak. We have been listening to different
24
         opinions from people today and we come with our
25
         opinions as youth, as students, from Philadelphia.
```

282 1 EPA/NHTSA PUBLIC HEARING 2 Masterman is on 17th and Spring Garden. 3 So here's our opinion. As youth here in Philadelphia, we support the green movement. 5 Global warming is just an incredibly huge issue today as you all are aware of more than us. 6 7 And, you know, car emissions are just a big part of that. Clean air is such an important part 9 of our life here on this planet, and we need to 10 preserve that. 11 These standards are a big step. They're a 12 very significant step, but we believe that we need 13 these -- we need these steps to keep our forward 14 movement in this -- in this initiative to make this 15 planet last. 16 So along with clean air, nonrenewable 17 resources is also, you know, fracking the pipeline, 18 all of these issues are just, you know, booming 19 today, and these standards would help limit the 20 exploitation of these resources. 21 Especially, with the way this -- this planet 22 is heading, we need more green innovation, and the 23 car industry is the good place to start, especially 24 with all these auto makers agreeing to these 25 standards.

2.83 1 EPA/NHTSA PUBLIC HEARING 2 It's not too late. They think, that they 3 can -- they're able to do this. And so we should help guide them. 5 Susanna. MS. ERLICH: I'd just like to add that one 6 7 of the reasons we think these standards are really important is for people who maybe think that, okay, I don't know if I can afford to buy a hybrid, like, 10 I don't even really understand what a hybrid is, 11 instead of having to make that decision. 12 This is what all cars are going to be like. 13 It's not going to be the choice to, like, go out of 14 your way and have to do this. This is just how 15 things are going to be. And it will result in a 16 planet that is better for everyone. 17 And we also think it's important because the 18 United states, obviously, has a lot of influence on 19 the world stage, and we think that setting these 20 standards will set an important precedent for other 21 countries to raise their fuel efficiency standards, 22 and we will support the EPA and government 23 interaction on this issue. 24 MS. BREINER: Lastly, we just want to say 25 that we're not able to vote yet. We are students.

2.84 1 EPA/NHTSA PUBLIC HEARING 2 Most of us are under 18. Next election for me. 3 But in 2025, we will have cars. We will be -we will have families. We want -- this is what we want for our future, if we're allowed to say that. 5 We want to have green cars as a part of our 7 daily life. That's what we want to see and we'd like to see the EPA have some more involvement in -- in the daily life of people for such an 10 important issue as this. 11 So thank you so much for your time. 12 MS. OGE: Great. Thank you. 13 Anybody else want to make any comments or 14 statements for the record? 15 MS. SPEAKER: So I feel like my friend has already covered everything. 16 17 But I've done a lot of research and as part of 18 science it's little things that I do, I've seen the 19 difference when I go home to see Sudan and come back 20 here, and, like, over there, there are a lot of 2.1 dust storms and a lot of other things that are 22 really threatening to our health, among other 23 things that I'm going to talk about. 24 But it's kind of weird to think about not 25 having air as -- as something that's -- I don't

2.85 1 EPA/NHTSA PUBLIC HEARING 2 want to say that I take clean air for granted, I 3 just never had to think about breathing in and out, and whether or not we can still do that later on. 5 And as my friend said we kind of want to keep doing that. 7 MS. BREINER: If I may add, we just finished our midterms today. This is midterm week. 9 And, you know, so all of all of us go through our 10 daily lives, you know, thinking about these issues. 11 But, you know, in a way we are taking 12 advantage of clean air and, you know, so many 13 statistics have shown that, you know, soon -- we 14 need to pay attention to this, because soon, you 15 know what's going to happen. 16 We don't need to say that. So, you know, we 17 need to make this a -- a part of our lives. 18 MS. OGE: Wonderful. Well, thank you. 19 We were in Detroit on MR. MEDFORD: 20 Tuesday to start these hearings, and we had four 21 grandmothers who wrote and sang two songs about 22 these proposals. I think now sort of the other end of the 23 24 spectrum it's great to see students so involved in 25 the environmental issues. So thank you for having

286 1 EPA/NHTSA PUBLIC HEARING 2 the courage and taking the time to come today. 3 MS. OGE: You know, we are hearing from 250 people today. And clearly, what we're doing here is to have a positive impact hopefully on 5 6 everybody. 7 It's going to be mostly for all of you and by 2025. Hopefully, all of you will be able to own a 9 car. 10 Thank you. 11 MR. MEDFORD: Moving on to our next 12 Panel. 13 MR. MACLEOD: My name is Mark MaCleod 14 with Environmental Defense Fund. 15 On behalf of the Environmental Defense Fund and our more than 700,000 members nationwide, I 16 17 sincerely thank you for the opportunity to testify 18 today on this landmark proposal to address the 19 extensive climate-disrupting pollution from 20 passenger vehicles, and to provide consumers with 21 nearly double the fuel economy of today's cars and 22 light trucks. 23 As Pulitzer prize winning author Thomas Freedom recently wrote, "this is a big deal." We'll 24 25 come back to that at the end.

2.87 1 EPA/NHTSA PUBLIC HEARING 2 Increasing the efficiency of our passenger 3 fleet is one of the most effective things we can do to reduce our dependence on oil and will likely to be one of President Obama's greatest climate and 5 energy security legacies. 7 The proposed rule will help to provide energy security, economic security, and climate security. 8 9 With respect to energy security, when combined 10 with the Phase one passenger vehicle standards, the 11 proposed rules on fuel economy and emission standards 12 will cut our oil consumption by over two million barrels a day by more than we import from the 13 14 entire Persian Gulf today. 15

With respect to economic security, again, combined with the Phase I standards, the proposed rule will provide families with more than \$8,000 in fuel savings over the lifetime of the new vehicle by 2025, for a total of \$1.7 seven trillion and national fuel savings over the life of the program.

16

17

18

19

20

2.1

22

23

24

25

With respect to climate security, it is important to note that the combustion of oil in our nation's fleet of light-duty vehicles, accounts for about 20 percent of the total U.S. greenhouse gas emissions.

288 1 EPA/NHTSA PUBLIC HEARING 2 Together with the model year 2012-2016 clean 3 air, clean car standards that were finalized in 2010, the proposed standards will cut heat-trapping carbon dioxide pollution by over six trillion 5 metric tons. 7 Why is that important? Those emission reductions are an important part of a national and global effort to ward off the worst consequences of 10 climate change. 11 The U.S. global change research program has 12 found that climate changes are already affecting 13 water, energy, transportation, agriculture, 14 ecosystems and health. 15 The 2009 assessment predicts that water resources will be further stressed, livestock 16 17 production will be increasingly challenged, coastal 18 areas will be increasingly threatened, and human 19 health will be impacted due to heat stress, 20 waterborne diseases, poor air quality, extreme 21 weather events, and diseases transmitted by insects 22 and rodents. 23 Here in Pennsylvania, the Pennsylvania climate 24 impact assessment prepared by the Environment and 25 Natural Resources Institute at Pennsylvania State

		289
1	EPA/NHTSA PUBLIC HEARING	
2	University in 2009 for the Pennsylvania Department	
3	of the Environment contains similar predictions.	
4	It states that climate change will likely	
5	cause many changes in Pennsylvania's forests.	
6	First, the state will become increasingly	
7	unsuitable for many of the tree species that are	
8	now present, especially those generally associated	
9	with northern hardwood ecosystems.	
10	Northern species that many of us are familiar	
11	with, such as Paper Birch, Quaking Aspen, and Big	
12	Tooth Aspen, and Yellow Birch are projected to be	
13	extinct in the state under high emission scenarios	
14	and greatly reduced, if not eliminated even under	
15	low emissions scenarios.	
16	They go on further, existing aquatic	
17	ecosystems and fisheries in Pennsylvania are	
18	expected to be stressed by projected climate	
19	changes.	
20	A special concern is the impact of higher	
21	temperatures and altered flow regimes on Eastern	
22	Brook Trout. Not only because of its status as a	
23	recreationally and culturally important species,	
24	but because it is an indicator of high water	

quality and maybe an early victim of dilatory

25

290 1 EPA/NHTSA PUBLIC HEARING 2 impacts of climate change. 3 Well, let's take a minute to celebrate success, though. The collaboration that helped develop the proposed rule, demonstrates the best 5 practices of our government. 7 Beginning with two intersecting public policy goals of improving fuel economy, and reducing greenhouse gas emissions, two expert agencies, the 10 Department of Transportation and the Environmental 11 Protection Agency worked with a broad group of 12 stakeholders including auto makers labor and 13 states. 14 The final outcome when this proposal is 15 adopted will be that fuel economy improvements and emission reductions will be achieved in a way that 16 17 saves American consumers money. 18 One can only wonder what could be possible if 19 we could replicate this collaboration with other 20 sectors. 2.1 How great would it be if the National 22 Association of Manufacturers would ask the 23 President to set up a similar collaborative effect 24 to address energy efficiency and greenhouse gas 25 emissions and the industrial sector.

	291
1	EPA/NHTSA PUBLIC HEARING
2	Similarly, how much could the nation benefit
3	if the oil industry and the coal industry would
4	also come to the table. The auto industry will
5	know its greenhouse gas commitment through 2025.
6	Imagine how setting a similar pathway for
7	these other sectors could unshackle frozen capital
8	and unleash a new generation of technological
9	development and job creation.
10	If I were the chair of the House Committee on
11	Oversight and Government Reform, I would hold a
12	hearing to honor all of the staff of the DOT and
13	the EPA that worked on this role, and I would thank
14	them for their service to America.
15	I might even suggest that the agencies have
16	their budgets increased so that they could do other
17	good work.
18	Sadly, rather than take that course of action,
19	Chairman Darrell Issa have instead castigated those
20	involved and sent interrogatories to the auto
21	companies that helped produce such a momentous
22	proposal.
23	A far better use of Chairman Issa's time would
24	be for him to encourage the coal, oil, and
25	manufacturing industries to begin a similar

292 1 EPA/NHTSA PUBLIC HEARING 2 collaboration with the Administration. 3 That would be another big deal. I want to thank you so much for the opportunity to be here. 5 And on behalf of my organization, we really mean thank you. Thank you for your work. 6 7 MS. KRIGER: I am Linda Kriger. Thank you for listening to all of us come and parade and 9 repeat ourselves, but I hope you get the message 10 that we are very serious about this. 11 The other night my husband and I were at a 12 dinner party with a group of people we didn't know 13 very well. 14 The discussion turned to climate change. 15 general view at the table was that it was too late; that there was nothing that any of us could do to 16 17 stem -- literally stem the tide. 18 My husband said what about your grandchildren. 19 That's a low blow, someone answered. That was the 20 end of that conversation. 2.1 I'm here because I want a cleaner and safer 22 world for my children and our twin granddaughters 23 than we are headed for right now. 24 I don't believe it's too late, and that we 25 can't do anything as individuals. That's why I'm

		293
1	EPA/NHTSA PUBLIC HEARING	
2	here.	
3	I'm old enough to remember when the EPA was	
4	established. It was created with the hope that my	
5	generation would not blame our parents and	
6	grandparents for the filthy rivers and air	
7	pollution clogging and choking our cities and	
8	towns.	
9	I bought a Toyota Prius the Prius seems to	
10	take center stage here today in 2004, and I've	
11	driven one ever since.	
12	When my husband asked me to donate my first	
13	Prius to one of the kids and offered to buy me	
14	another car, I test drove a number of cars.	
15	And in the end, I couldn't justify driving any	
16	car that got less than 35 miles to the gallon in	
17	he city, which was virtually every car I drove.	
18		
19	It wasn't fair to my pocketbook and it wasn't	
20	fair to the environment. But not everyone can	
21	afford a new Prius or even a used one.	
22	The people with the least money end up drivin	g
23	the most inefficient and expensive cars to gas up	
24	because that's all they can afford.	
25	Imagine if all the used cars on the road got	

294 1 EPA/NHTSA PUBLIC HEARING 2 50, 60, 70 miles per gallon or better yet including plugged in to the electric socket to run, which will ultimately happen if this regulation moves forward and isn't tampered with. 5 Our dangerous dependence on oil has American 7 families and businesses sending over \$1 billion overseas every single day to the Middle East. 9 We haven't changed the essential mechanics of 10 automobiles since the days of Henry Ford. 11 With our technological know-how, that's 12 inexcusable and speaks to our deeply-rooted, 13 stubborn and irrational dependence on oil. 14 With climate change breathing down our necks, 15 or as Tom Freedman calls it, global weirdness, it's completely appropriate to require car companies to 16 17 use their best minds to help avert the unthinkable. 18 This is where government should and must move 19 When year after year our corporations don't 20 respond to a serious national security threat, it 2.1 becomes clear that the marketplace isn't meeting 22 the challenges we face. 23 The Obama Administration and the EPA should be 24 applauded for their leadership to end our addiction 25 of oil through these standards.

	295
1	EPA/NHTSA PUBLIC HEARING
2	These rules should be kept free of loopholes.
3	We know that the power of lobbyists that chip away
4	at the effectiveness of regulations they believe
5	threaten their bottom line is a true threat to this
6	regulation.
7	I strongly urge that the EPA keep these
8	regulations air tight. Our nation's national
9	security depends on it, and these regulations are
10	long overdue positive first steps.
11	Thank you.
12	MR. MCKERNAN: Good afternoon. Thank you
13	for having me to make a brief statement in support
14	of fuel efficiency standards.
15	I wanted to bring attention to a recent study
16	by the Centera Institute, which found that
17	inflation-adjusted median income for American
18	families has fallen 6.7 percent since
19	the end of the recession, which was in June of 2009
20	through June 2011.
21	That's compared with the drop of only 3.2
22	percent during the recession that lasted
23	from December 2007 to June 2009, which is for a
24	total loss of nearly ten percent of household
25	income.

296 1 EPA/NHTSA PUBLIC HEARING 2 Raising the fuel efficiency standards is an 3 important long-term way to provide our families with very real savings. Americans want and need fuel-efficient 5 vehicles. I thank the EPA for their efforts in 7 these regards. Thank you. 8 MS. OGE: Ms. Ward. 9 MS. WARD: My name is Carol Ward. 10 didn't mention it when I applied to speak, but I do 11 represent about 1,000 retired city employees, white 12 collar. 13 We still have a local because we found out 14 that just because you're retired, you can't just 15 sit down and relax, you have to keep active today. 16 There's so many things on the griddle here. 17 And this is one of them, very important thing. 18 I only wish that I had been in the category to 19 buy a Prius myself last year. I bought a Nissan 20 Sentra, and I thought that was good mileage. what I'm hearing today, we can do better. 21 22 In my own way, though, I have condensed my 23 driving, and I do all the errands in one place that 24 I can so I try not. But that's just personal 25 things, but it helps a little bit. I'm going to go

	297
1	EPA/NHTSA PUBLIC HEARING
2	into a little more background here.
3	Since watching the movie well, first of
4	all, I'm very thankful to the Sierra Club and to
5	the EPA for giving me the opportunity to speak out
6	on my views on this. The President and
7	you have opened up a vista of opportunity.
8	It will be a milestone in the environmental history
9	of this country.
10	It will be a tough fight. And I'm speaking in
11	terms of my own generation. It will be blood,
12	sweat and tears just like Churchill said before
13	World War II, but it's worth it.
14	Since watching the movie by Al Gore, that
15	movie, An Inconvenient Truth, that really brought
16	it home to me when I could see the whole world
17	perspective on global and I still call it global
18	warming, not just climate change.
19	There's two seasons in Philadelphia now:
20	Summer and winter. Or is it fall? I mean, it
21	can't make its mind, can it?
22	One day we wear cottons, and the next day we
23	have to pull out our stronger clothes for the
24	weather.
25	I'm extremely concerned because although I
I	

298 1 EPA/NHTSA PUBLIC HEARING 2 don't have any children or grandchildren, I have 3 great nieces and nephews. I want them to have the opportunities that my generation did to lead a good life. 5 So we produce 25 percent of the world's 7 greenhouse gases. Does anyone remember the cartoon it was in, I think, the New Yorker? 9 It was the world climate conference and all 10 the cars were in the parking lot, these tiny 11 And then there was the American European cars. 12 car, this great big, humungous Cadillac. 13 Well, you know, this is why your standards are 14 so important. We have to do something. 15 The results of our dependence on oil is very clear and the oil spills, I think, are very 16 17 concerning to everyone in this room, ruining coast 18 lines, fishing, wildlife, and they keep on 19 happening. 20 So I hope that we can reduce some of this 21 dependence and I would be very happy if we could 22 because, from the information I got, we could 23 eliminate the oil that we import from at least two 24 Middle Eastern countries if your standards go 25 through.

299 1 EPA/NHTSA PUBLIC HEARING 2 Now in my case, as far as affording gasoline, I'm a retiree on a fixed income, a former 3 librarian. So you know I'm not rich. I really 5 budget very carefully. But I did some estimation. I found out I 7 spend about \$2,000 a year just on gas. That was with a modest amount of driving. 9 I'm sure many of you spend much more than 10 that. So automobiles today contribute to asthma 11 and COPD. 12 Now, as a former person that had -- former 13 asthmatic. Boy, that is a horrible disease. 14 So if we can cut down on the health problems 15 from these emissions, we will be doing a tremendous favor, because it is as if the person has freedom for 16 17 the first time in their life if they can get over 18 asthma, for example. 19 Anyway, I hope we can move forward with this. 20 We'll have to be careful about the loopholes and 21 careful about oversized vehicles because I think 22 that's where people -- they want these vehicles, 23 you know, it's great to drive this great big 24 vehicle on the expressway and you feel so powerful. 25 But we've got to make things safer, and less

	300	C
1	EPA/NHTSA PUBLIC HEARING	
2	consumptive.	
3	Thank you very much.	
4	MR. MEDFORD: Thank you very much.	
5	MR. VANSTONE: Good afternoon. I am	
6	William Vanstone, M.D. I'm a doctor, current	
7	resident of Philadelphia, having retired in	
8	2010 from the Central Offices of the Departmen	
9	of Veterans Affairs in Washington.	
10		
11	One aspect of these proposed standards that I	
12	think cannot be emphasized enough is their	
13	potential positive impact on smog and air pollution	
14	in our cities.	
15	I've read that the greatest contribution to	
16	urban air pollution is exhaust fumes from	
17	automobiles.	
18	If less gasoline is burned under stricter	
19	standards, there will be less pollution in the air.	
20	As a retired physician, I'm aware of the	
21	profound negative impact of foul air on persons	
22	with lung ailments, having lived through the red	
23	days in Washington, DC, when persons with impaired	
24	lungs were advised not even to go out of doors.	
25		

	301
1	EPA/NHTSA PUBLIC HEARING
2	I know that this is a clear and present danger
3	to a significant portion of our citizen.
4	Having worked in the Veterans Health
5	Administration, I'm also aware of the many older
6	veterans suffering and dying from chronic
7	obstructive pulmonary disease or COPD.
8	I'm sure they would rally behind any action
9	that EPA or the Obama Administration could do that
10	would cut down on smog, though smoking is
11	considered a major cause of COPD.
12	Once the damage to the lungs is there, ongoing
13	air pollution remains an additional and unnecessary
14	hazard to these and future veterans.
15	The Obama Administration's proposed new global
16	warming and fuel efficiency standard for cars and
17	light trucks in model years 2017 through 2025
18	should spur automobile manufacturers to begin
19	creating cars with improved mileage as soon as
20	possibl, in order to gain experience in
21	preparation for the looming deadlines. We can all
22	breathe better when they do so.
23	Thank you so much for your time.
24	MR. MEDFORD: JoAnn Seaver.
25	MS. SEAVER: I'm JoAnn Seaver, a retired
ĺ	

302 1 EPA/NHTSA PUBLIC HEARING 2 educator, Ph.D., from the graduate school of at University of Pennsylvania. And I want to talk about motivation and the importance of setting 5 standards. There seems to be part of our population 7 that's worried about setting regulations and standards, and I'd like to speak up for them because they supply the compelling reason for 10 making the change to clean air. 11 They motivate remediation. There's a category 12 of people who are compelled by a desire and need 13 for cleaner air. 14 This category includes, for example, people or 15 parents of children with asthma or lung disease, 16 people whose livelihood depends on living and 17 working in urban areas. 18 People making a living in agriculture, 19 forestry, fishing or recreation, communities whose 20 lands are threatened by rising sea levels or 21 chronic drought, they have a compelling reason to 22 see some change in our climate for the better. 23 Ironically, those of us in that category find 24 ourselves driving cars or small trucks despite 25 their contribution to pollution.

	30
1	EPA/NHTSA PUBLIC HEARING
2	Our concerns to the effects of pollution is
3	overridden. We are compelled by our sense that
4	driving cars is essential to our daily lives.
5	And what compels car manufacturers? The
6	makers of cars are compelled by the desire and need
7	to be competitive and profitable.
8	Without strong enforced universal standards
9	without loopholes, no company can economically or
10	competitively justify putting time and money into
11	creating fuel-efficient clean cars.
12	Establishing standards for clean cars by 2017
13	through 2025 creates the reason and motivation for
14	all car companies to do what must be done for the
15	health of the living creatures on this planet.
16	Setting clean car standards is the first and
17	essential step. When a standard is set for all car
18	manufacturers to comply with, there's a fair
19	playing field. There is a requirement that defines
20	the task.
21	The car companies can then turn their
22	attention to meeting the goal in the time frame
23	set. They can focus on finding the solution to a

	3 3	304
1	EPA/NHTSA PUBLIC HEARING	
2	By putting in place strong standards and	
3	enforcement with no loopholes affecting all car	
4	makers, a car company can focus its attention, time	
5	and resources without fear of competitive	
6	disadvantage.	
7	The standards supply the compelling reason to	
8	make the change that previously has been lacking.	
9	As far as drivers, we'll drive whatever is put in	
10	front of us.	
11	And I thank you for the time that you spend	
12	thinking about these standards, working on them,	
13	and I hope that you will support us.	
14	MR. MEDFORD: Thank all of you very much.	
15	We appreciate your testimony.	
16		
17	(Whereupon, the Court	
18	Reporter was excused at 5:00 p.m.)	
19		
20		
21		
22		
23		
24		
25		

		305
1	CERTIFICATE	
2		
3	I, Jennifer Miller, a Certified	
4	Shorthand Reporter and Notary Public,	
5	within and for the Commonwealth of	
6	Pennsylvania, do hereby certify that the	
7	hearing hereinbefore set forth was duly	
8	taken by me and that such hearing is a true	
9	record of the testimony given by such	
10	witnesses.	
11	I further certify that I am not	
12	related to any of the parties to this	
13	hearing by blood or marriage and that I am	
14	in no way interested in the outcome of this	
15	hearing.	
16		
17		
18	IN WITNESS WHEREOF, I have hereunto	
19	set my hand this day of	
20	, 2012.	
21		
22		
23		
24		
25	JENNIFER MILLER, COURT REPORTER	

	<u>Capital Report</u>	0 1 7	
\$	<b>\$45</b> 75:11 119:3	<b>118</b> 263:6	109:23 126:5
<b>\$1</b> 247:24 294:7	248:22	<b>12</b> 61:4,18 110:6	<b>165</b> 36:23
<b>\$1.7</b> 287:19	<b>\$5</b> 82:7	147:13 200:12	<b>16th</b> 17:6
<b>\$10</b> 82:7	<b>\$5,200</b> 248:20	<b>120</b> 5:15 80:16	<b>17</b> 217:5 273:2
<b>\$100</b> 146:11	<b>\$535</b> 217:6	276:25	<b>173</b> 7:4
258:22	<b>\$6,000</b> 176:5 242:2	<b>1200</b> 271:10	<b>175</b> 7:6
<b>\$118</b> 264:15	264:16	<b>1234yf</b> 207:11,22 208:11,16 209:2	17th 246:20 282:2
<b>\$12</b> 68:12	<b>\$6,600</b> 13:20 248:20	210:5	<b>18</b> 44:4 156:24
<b>\$125</b> 51:23	<b>\$6.16</b> 225:5	<b>124</b> 5:17	284:2
<b>\$127</b> 264:8	\$7500 44:11	<b>127</b> 272:20	<b>180</b> 7:8
<b>\$153</b> 264:9	\$8,000 287:17	<b>129</b> 5:19	<b>1800</b> 1:20
<b>\$176</b> 225:5	\$80 127:14	<b>12-year-old</b> 211:7	182nd 85:22
<b>\$2,000</b> 13:18 41:11	\$84 264:15	<b>13</b> 14:15 58:9	<b>183</b> 7:10
176:4 177:23 241:14 299:7	\$900 77:5 223:6	60:14 249:5	<b>187</b> 7:12
<b>\$2000</b> 41:18	\$900 //.3 223.6 \$991 248:23	263:22	<b>188</b> 7:14
<b>\$22</b> 225:3	\$991 240.23	<b>134</b> 5:21	<b>19</b> 1:6,21 3:11 12:3
<b>\$23</b> 267:23	0	<b>134A</b> 208:18,22 209:3	115:19
<b>\$24,000</b> 264:19	<b>0.4</b> 263:10	138 6:5	<b>1903</b> 32:25
\$260 118:17 217:9		136 6.5 13th 15:16 18:3	19103, commencin
<b>\$27</b> 246:18	1 1 3:8		g 1:21
\$3,100 241:15		<b>14</b> 3:9 148:2 186:2 222:24	<b>193</b> 7:16
\$3,500 52:7	<b>1,000</b> 262:22 296:11	<b>14,000</b> 140:24	<b>1967</b> 129:7
\$3,30 264:4	<b>1,430</b> 101:8	<b>144</b> 6:7	<b>1970</b> 273:2
\$3.37 75:9	<b>1,514</b> 262:12,25	<b>145</b> 6:9	<b>1974</b> 172:20
<b>\$3.46</b> 75:9	<b>1.5</b> 106:9 127:11	<b>149</b> 6:11	<b>1975</b> 128:9 132:22
\$3.40 73.9 \$3.6 222:17	216:13 262:18	<b>15</b> 54:14 73:17	<b>1979</b> 221:21 242:23
\$3.99 264:4	<b>1.6</b> 178:16	103:3 109:2	<b>1980</b> 157:12
	<b>1.7</b> 127:7 162:10	134:21 249:6	<b>1980</b> 157:12
\$311 38:5	216:10 248:8	262:14 265:11	<b>1982</b> 127:2
\$330 75:15	<b>10</b> 251:4 253:22	<b>150,000</b> 127:15	<b>1990</b> 37:15 266:16
\$347 38:3	<b>10:00</b> 1:21 12:4	<b>1500</b> 59:9	<b>1994</b> 222:3
\$35 264:11	<b>100</b> 190:20	<b>156</b> 6:13	<b>1999</b> 242:23
\$358 224:10	<b>100-square</b> 272:21	<b>157</b> 6:15	1777 444.43
<b>\$4,000</b> 264:15	<b>101</b> 5:9	<b>16</b> 44:3 61:4,6,18 253:20	2
<b>\$4,400</b> 176:6	<b>108</b> 5:11	<b>160</b> 6:17	<b>2</b> 4:5
<b>\$421</b> 38:5 224:8	<b>11</b> 170:14 172:15	<b>1600</b> 0.17 <b>1600</b> 262:11	<b>20</b> 103:4 117:19
<b>\$43</b> 264:12	184:2		146:18 157:2,9
<b>\$44</b> 223:8	<b>1100</b> 272:19	<b>161</b> 273:19	172:14 173:11 188:24 200:11
<b>\$444</b> 38:3	<b>115</b> 5:13	<b>163</b> 6:19 13:9 39:19 58:7	208:12 248:10
		37.17 30.1	

	<u>capital Repol</u>	0 1 /	
250:24 287:24	<b>2012-2016</b> 288:2	126:6,8 148:14	<b>236</b> 8:9
<b>2000</b> 77:18	<b>2013</b> 31:16,17	165:8 166:21	<b>24</b> 193:16 255:2
<b>2001</b> 63:19	<b>2014</b> 148:2	167:19 175:14 186:16 192:15	<b>24,000</b> 111:2
<b>2002</b> 142:15	<b>2015</b> 43:15 45:16	214:24 216:2,18	<b>240</b> 44:16
222:22	48:7,8 106:24	219:18,23 220:7	<b>243</b> 8:11
<b>2003</b> 229:3	<b>2016</b> 14:3 21:17	242:8 244:22	
230:7,10	22:25 25:21	248:6,18 284:3	<b>248</b> 9:4
<b>2004</b> 89:10,12	30:17 35:3,7	286:8 287:19 291:5 301:17	<b>24th</b> 15:13
211:23 227:5	37:12 48:5 57:25	303:13	<b>25</b> 39:16 128:10
293:10	78:8 110:2 206:23 210:17	<b>2030</b> 27:13	154:11 217:5 246:22 298:6
<b>2005</b> 64:5 131:7	219:24	75:10,20 83:24	<b>250</b> 12:17 266:24
148:5 156:3,5	<b>2017</b> 13:7,16 17:3	118:23 127:10	286:4
222:17	25:18 39:10,14	156:24 193:4	<b>255</b> 9:6
<b>2006</b> 170:23	54:8,18 58:2,20	216:5,11,13,20 217:6,9,25 224:2	
<b>2007</b> 37:13,20 170:23 259:19	61:2,11 63:7 70:17 72:25	248:21 269:13	<b>25-percent</b> 221:24
272:8 295:23	79:19 94:24	<b>2040</b> 81:24	<b>26</b> 3:13 84:2
<b>2008</b> 147:13 167:8	98:23 109:21	<b>2050</b> 148:6	<b>262</b> 9:8
203:6 218:5	119:8 126:7	<b>206</b> 7:18	<b>265</b> 9:10
222:11 262:17	137:7,17,18		<b>269</b> 9:12
<b>2009</b> 57:24 193:16	165:8 167:19 192:14 214:24	<b>209</b> 266:23	<b>27</b> 132:24
224:8 225:3	216:2 219:18	<b>209-year-old</b> 99:3	<b>273</b> 9:14
288:15 289:2	244:22 245:12	20-minute	<b>278</b> 9:16
295:19,23	248:6 301:17	180:13,14	<b>28</b> 89:16 127:8
<b>2010</b> 14:4 22:3 27:14 31:12	303:12	<b>20th</b> 49:19	<b>280</b> 29:2 75:18
37:10 70:9	<b>2017-25</b> 241:2 243:13	<b>21</b> 41:3 89:18	119:2 224:25
117:23 125:17		<b>21,000</b> 193:13	269:12
146:14 216:16	<b>2018</b> 107:21	224:4 269:16	<b>284</b> 9:18
222:14 223:24	<b>2019</b> 207:21	<b>21,300</b> 249:10	<b>29</b> 83:25 117:11
251:13 272:14,25 273:3	<b>2021</b> 39:14 70:17	<b>215</b> 7:20	171:18,20
288:4 300:8	71:7 72:25	<b>21st</b> 274:13	263:13
<b>2011</b> 22:2 27:6	<b>2022</b> 34:3,12 39:25 73:10	<b>22</b> 39:15 41:3	<b>290</b> 9:20 216:4
37:12 65:7,12,20		70:20 146:21	<b>292</b> 9:22
67:12,24 118:14	<b>2025</b> 13:7,16,19,24 22:4 24:9 25:18	154:4	<b>297</b> 9:24
150:7 229:7	29:3 31:21 33:10	<b>220</b> 7:22	
246:15 273:5 295:20	34:3,12 39:11,25	<b>223</b> 7:24	3
<b>2012</b> 1:6,21 12:3	41:15,21 42:11	<b>225,000</b> 66:6	<b>3</b> 5:4 6:4 83:20
14:2 22:25 25:20	48:10 54:18	<b>228</b> 8:3	106:8 138:18
35:2,7 42:8	58:3,8 61:2,11 63:7 66:7 70:20	<b>23</b> 75:19 118:24	<b>3,000</b> 45:14
57:25 61:6 67:25	71:7,15 73:10	193:5 246:22	<b>3.2</b> 295:21
78:7 109:25	79:19 94:24	<b>231</b> 8:5	<b>30</b> 19:2 27:6 31:21
156:6 216:17 219:24 305:20	106:14 107:7	<b>232</b> 8:7	96:20 103:3
217.27 303.20	109:21 110:5 118:13 119:8		131:10 146:2 147:22 157:11
	110.13 119.8		147.22 137.11

172:24 173:11,18,25 174:11 177:18 196:19 208:12 <b>300</b> 58:23 232:6 <b>305</b> 10:4 <b>30-day</b> 174:4 <b>30-percent</b> 48:8 <b>30-something</b> 195:11 <b>30th</b> 15:18	4.3 146:13 40 21:21,25 31:10 65:3 131:2 133:21 157:22 158:3 177:18 40,000 111:13 400 170:15 41 3:17 42 94:2 43,000 26:23 193:10	40:3,15 48:9,23 66:7,10 107:6 109:21 186:17 192:15 201:8 226:10 227:24 <b>540,000</b> 45:17 <b>55</b> 154:6 166:21 246:21 <b>56</b> 4:8 <b>58,000</b> 263:14 <b>59</b> 4:10 89:17 186:9 263:6	8 8 11:3 8,662 249:5 80 165:10 166:20 230:8 81 4:18 83 148:5 85 4:20 87 54:16 186:4 187:6
31 37:13 58:24 310 10:6 313 10:8 315 10:10 31st 17:25 320 10:12 323 10:14 327 11:4	<b>45</b> 65:5 195:10 <b>46</b> 3:19 <b>46.6</b> 264:10 <b>460,000</b> 263:18 <b>47</b> 89:21 118:17 <b>48</b> 89:16 <b>480,000</b> 223:25 <b>484,000</b> 26:23 249:11	6 6 9:3 6,000 266:5 6.7 295:18 60 37:18 186:15 224:20 227:14 231:2 232:16 259:2 294:2	9 9 3:5 11:9 9:30 18:5 90 12:22 14:16 95:12 126:21 131:12 199:20 200:20 207:20 90,000 230:9 90s 178:25
331 11:6 335 11:10 34 3:15 179:9 341 11:12 345 11:14 346 11:16 35 63:20 65:10 293:16 35 5 21:16	49 3:21 4th 257:2 5 5 8:2 5,000 235:19 5:00 12:4 304:18 50 22:3,7 36:22	6-0 227:16 600 251:3 600-mega 216:7 60-mile 89:4 62 216:6 64 139:22 65 4:12 231:2	93 5:5 166:18 930,000 263:18 94 37:21 95 5:7 262:12 99 199:18 246:16 99.7 101:6 208:17
35.5 21:16 350,000 214:21 351 11:18 353 11:20 36 169:15 37.5 216:19 38 84:2 179:10 39,000 263:3 4 4 3:4 7:3 224:3 4,000 48:3	48:4,6 154:21 172:25 190:20 232:16 242:20 294:2 <b>50,000</b> 205:20 <b>500</b> 59:6 232:3 262:21 264:7 <b>500,000</b> 57:10 217:24 269:15 <b>501(c)(6</b> 261:20 <b>53</b> 188:13 <b>54</b> 4:6 132:17 175:13 230:25	7 7 10:3 70 294:2 700 77:6 700,000 286:16 70th 169:22 71 65:11 186:18 72 4:14 29:4 159:18 73 186:20 75 118:15 78,000 263:3	a.m 1:21 12:4  A10s 226:18  Abdullah 146:16  abide 183:8  ability 56:22 57:8  82:20 94:20  114:21 135:14  158:10 209:2  276:15  able 93:6 97:6  120:14 158:14  159:10 168:2  174:5 190:8
<b>4,400</b> 13:21	<b>54.5</b> 13:10 39:20	<b>79</b> 4:16	191:17 196:10,12,14

	capital Repor		
197:11,13,16	accommodation	acknowledge 33:2	actuality 258:17
198:20 204:23	72:17	35:8 207:15	actually 32:19
205:2,5 230:2	accomplish 44:25	275:19	36:5 51:3 91:22
270:3 277:19	82:14 191:17	acknowledged	122:12 202:23
278:25 283:3,25		35:4 62:8 66:23	204:23
286:8	accomplished	33.4 02.8 00.23	
	83:10	acknowledges	229:2,17,22
abroad 256:9	according 83:23	181:18	231:4 242:5
260:15	106:10 146:12	acquisition 97:18	244:9 247:11
absent 97:25			280:7
105:10	166:18 217:3	acre 103:17,18	<b>Adam</b> 6:19
	262:17 264:19	across 36:23 38:23	145:19,21
absolutely 116:17	Accordingly 40:17	47:2 77:25 81:14	•
132:16 256:3	. ·		add 13:17 35:11
abstract 275:22	account 22:2 71:6	90:14,21 108:13	41:11 65:8 134:3
	72:22 73:22	113:3 148:21	151:19 177:20
abundance 113:22	119:16 236:21	168:23 187:17	193:2,10 210:4
114:4,13	accounted 22:16	246:14	283:6 285:7
abysmal 196:17		249:11,15	added 41:20 70:7
	accounting 73:6	255:24	aaaea 41:20 /0:/
AC	75:13	act 97:8 98:6	addict 252:12
206:14,16,17,22	accounts 215:21	182:24 199:14	addicted 55:20
207:16	248:10 287:23		
208:10,20		274:3,6	115:2 164:4
210:4,16	accumulated	action 15:20 75:4	252:14
academic 259:15	246:17	81:16 146:24	addiction 27:3
academic 239.13	accuracy 33:9	186:7 193:10	123:3 144:6
Academy 222:22	,	219:25 221:14	183:11 201:10
226:6 256:24	accurate 241:24	227:7 245:8	228:4 247:18
accelerate 90:9	accurately 24:9	247:5,12	256:2 294:24
	128:22	· · · · · · · · · · · · · · · · · · ·	
94:11 103:7		260:11,25	addictions 121:11
206:23 275:9	achievable 54:2	291:18 301:8	addicts 121:22
accelerated 207:10	75:23 78:16	actions 37:8 58:19	
aggalayating	144:17	62:4 63:16	<b>adding</b> 77:5,9
accelerating	achieve 21:20 31:9	192:16 213:23	219:10
105:25	54:25 65:2 69:22	232:10 236:14	addition 15:15
Accent 21:19 65:5	71:21 82:20	256:15	17:15 31:11
againt 70.0 165.16			39:23 40:20
accept 79:8 165:16	96:10 107:5	active 124:18	
acceptance 24:11	118:4 132:17	143:15 212:25	41:2,19 72:10
36:5 54:20 59:24	210:6 242:16	226:9 232:6	127:16 140:12
60:9 62:11	achieved 40:19	296:15	150:14 169:2
107:15 122:10	41:21 58:9 71:13	activist 252:3	237:17
135:10 176:24	95:8 156:25		additional 15:19
275:25 276:14	290:16	activities 68:13	24:18 25:23
		236:9 276:3	39:4,6 41:17
accepted 157:20	achievement 40:6	activity 273:18	61:15 95:18
access 164:11	67:9	275:20	138:24 150:13
accidental 38:17	achievements 81:7		176:3,4 208:14
	achieves 58:23	acts 188:14	217:7 249:10
accidents 242:21	65:9 82:13 83:8	actual 72:22 73:17	264:16,23 265:5
Accommodating		82:16 128:11	301:13
61:8	achieving 66:10,17	136:3	
	169:2		Additionally 68:8
1	•	•	

© 2012

	1 1	9 I - J	
137:22	admitted 200:11	advised 300:24	59:16
address 23:12	adopt 92:13	advisers 114:23	afraid 254:12
50:24 57:23 61:3	137:19 147:16	Advisor 16:24	270:14
72:12 74:10	222:5 227:24	Auvisor 10:24	<b>A fui</b> co 116.11
77:13 95:11	228:16 250:23	<b>Advisory</b> 170:5,15	<b>Africa</b> 116:11
99:12,13 115:16	271:21 274:7	172:9	182:5 273:9
117:2 138:22		advocacy 117:11	African-American
140:11 144:3	adopted 29:7	124:18 266:4	139:21 140:15
150:8 159:10	37:10 91:13		African-
206:8	157:20 162:18	advocate 84:5	Americans
211:19,20,24	183:4 290:15	121:18	139:22 140:3
212:5,18 241:7	adopters 107:15	advocates 47:11	
245:20 248:2	1		aftermarket
255:18 286:18	<b>adopting</b> 156:8 183:14	advocating 47:10	209:10,14
290:24		Affairs 20:25	afternoon 117:7
	adoption 72:18	57:16 104:23	130:8 139:7,9
addressed 119:24	90:9 151:9 203:5	145:25 147:16	140:19
122:3 218:18	208:19	300:9	143:10,11
addresses 75:4	222:14,20	affect 15:2 131:21	145:19 154:2
181:13,23	240:19 265:18	194:8 223:10	163:23
· ·	advance 66:8	278:11	164:23,24
addressing 118:2 211:11 212:6			169:12 183:23
240:5	advanced 31:24	affected 38:12	188:4 189:24,25
	42:5 59:5 71:20	131:5 162:7	192:2,3 194:16
adequate 33:20	72:21 107:16	181:5	201:3 202:4
adjust 60:18 90:16	110:13	affecting 181:15	205:12 214:19
l °	111:5,11,14	223:11 288:12	228:20 231:21
adjustment 136:19	112:12 134:13 135:24 136:6,14	304:3	235:15 244:24
administration	138:13,15	affects 159:21	253:17 255:19
16:13 25:20	168:19 259:23	193:14 277:13	261:14 295:12
27:24 28:24		affiliation 19:21	300:5
29:20 50:23 81:2	advancements		against 38:19,20
86:17,21 100:14	68:6 69:4 107:12	<b>affirm</b> 70:22 236:3	67:20 116:18
109:5,8 112:24	advances 66:2	<b>afford</b> 32:14 49:7	161:22 209:9
125:18 140:10	67:8,14 268:9,10	57:5 59:14 69:2	227:20
141:11 146:13	advantage 26:17	93:15,21 94:10	228:12,13
175:2,3,12	167:14 285:12	153:19 219:16	ŕ
183:3,17 198:13		250:11 283:9	age 270:20 277:19
201:7,22 215:2	advantages 276:9	293:21,24	<b>agencies</b> 3:16 14:8
225:25 245:18	adventures 250:10	affordability 32:6	17:3 21:5
249:19 292:2 294:23 301:5,9	adverse	241:10	22:5,8,22 23:3
<u> </u>	38:11,15,16		29:25 34:25
administration's		affordable 33:5	35:14,17,23
110:3 139:12	advertisement	affording 299:2	36:20,22 40:19
301:15	122:4	<b>affords</b> 160:11	58:2 61:18 62:17
Administrator	advertisements		63:9 66:23 69:17
16:12 83:19	191:5,22	<b>Afghan</b> 227:18	83:24 90:14
141:12	advertising 43:21	Afghanistan	99:18 105:2,13
admirals 170:19	96:13 122:15,19	171:17 226:13	108:3,16 110:16
	165:16	aforementioned	120:10 134:18,23
admission 255:9			134.10,23
	Į		

	eaptar repor	0 1 7	
135:12 137:16	air 3:16 6:6 9:19	alarming 26:8	216:3,14
138:17 139:5	12:12 29:3 30:19	<b>Alaska's</b> 27:25	alongside 126:23
141:10 215:5,9 217:23 218:18	36:20,21 48:4	alcohol 123:3	159:22
217.23 218.18 219:16 241:4	57:4 69:14,16 76:10 80:13,21	aldehydes 81:12	<b>Al-Qaeda</b> 227:18
290:9 291:15	81:8,15	· ·	already 18:18
agency 12:13	82:4,5,13	alerted 121:7	25:24 43:20
16:14 17:7,10	83:9,11,15,24	Alexa 7:22 192:2,4	45:11 58:21
23:7,18 47:16	86:10 105:3	Alexandria 4:13	60:13 89:24
78:11 80:15,24	117:13 124:17	62:25 63:13,18	91:13 106:3
92:7 99:24 100:8	125:4 126:25	64:11 69:3	111:9 113:12
104:11 109:7	130:2 134:9	align 32:13	116:2,7 130:23
112:8 125:11	139:23,24 140:9	alike 126:20 217:3	131:5,6,22 142:4
134:8 220:4	152:14,16,20 153:22 154:17		161:13 181:8
225:24 266:9	156:10 159:6	allergen 247:11	182:5 232:24
290:11	160:4 161:15,19	allergens 247:10	246:12,13 269:8 270:15 271:5
agency's 101:23	162:2,12 163:19	allergic 188:7	274:24 275:8
108:5	182:24 189:2,8	alliance 5:16	278:13 284:16
agenda 18:10	194:9 201:15	108:22,23	288:12
Ü	215:2 218:14	108.22,23	
<b>agents</b> 205:23 218:12	220:17 226:19	274:17	altered 289:21
	234:2,22 236:22		alternate 43:7,23
aggressive 31:2	237:9 245:3	allied 110:22	44:9 208:2
76:25 96:14	247:20 249:19	261:23	alternative 38:22
144:19 151:11	263:19 266:7	allow 22:24 23:22	49:5 70:3 73:16
168:9	274:18 276:10	97:6 102:5,6	74:8 81:16,17
<b>ago</b> 30:12 43:4	279:6,17	123:13 136:20	134:2 135:8
77:3 79:12 80:16	282:8,16 284:25	137:16 138:3	166:3,11,23
114:12 115:15	285:2,12	150:12 155:5 168:10 249:3	169:6 170:12
142:11 157:2,23	288:3,20 293:6 295:8		173:16 174:12
159:18 190:7	300:13,16,19,21	allowed 141:17	197:18
201:16 231:5 255:6 257:13	300:13,10,19,21	284:5	alternatives 17:20
260:3	302:10,13	allowing 26:8	81:14 208:4
	ĺ	40:10 41:7 72:4	am 20:24 36:24
agreed 190:12	air-conditioning 72:11 101:11,22	73:3 100:10	42:19 46:21
agreeing 282:24	136:11 205:25	102:18	52:25 57:15
agreement 59:21	206:11	103:16,21	62:24 66:14
190:14 278:24		125:24 127:18	80:7,10 85:18
agricultural	airmen 171:10	141:13 148:23	86:13 87:11
103:15 269:9	airports 157:3	255:17	92:18 98:17,18
	airway 152:7	allows 15:9 59:12	117:7 124:17
agriculture 99:7	<b>Airy</b> 142:14	247:9	153:5 154:5 180:22
182:4,8 270:7 288:13 302:18	,	<b>all-time</b> 273:3	180:22
	<b>Aislinn</b> 10:8	aloft 226:20	188:6,13
ahead 89:25	268:23		192:10,21 198:8
229:15	<b>Al</b> 297:14	<b>alone</b> 26:24 28:22 68:13 97:5 111:3	212:16 213:14
ailments 300:22	<b>ALA</b> 81:13	118:10,14	231:22 232:11
aims 48:6	alarmed 181:7	120:13 146:15	235:9 247:16
	######################################	120.10 110.10	256:19 266:10

	eapital Repor		
271:9,19 272:7 274:24	260:9 261:3 270:8 296:5	animal 130:23	<b>apparent</b> 115:21 275:8
281:7,10,16	American's	<b>animals</b> 142:9 160:3	apparently 222:5
292:7 300:5	215:19		
305:11,13		<b>Ann</b> 7:8	appear 87:13
amazing 185:10	America's 47:12	announce 77:4	128:12 223:14
203:8	48:16 108:24	announced 14:10	appearance 49:16
ambient 80:21	109:11 111:14,23	28:8 31:16 65:21	appears 132:19
81:15 82:24	169:25	announcement	applaud 29:12
83:15	215:14,22 220:2	14:20	30:18 83:7
	226:24 247:18		112:14 120:10
ambitious 47:25	250:6,12 251:21	annual 70:12,17	157:10 158:9,14
ambush 171:9	258:4	71:13,22 74:15	160:20 183:17
America 4:19	Aministration	75:14,17 118:25	201:22 214:25
5:8,14,20 47:2,9	200:22	186:22 193:4 269:11	240:16 271:16
48:25 66:5 76:21			applauded 140:10
77:2,5,9 78:15	among 42:24	annually 75:11	294:24
87:12 104:24	112:3 126:16	223:6 224:22	
110:12 117:9,10	199:17 201:9 284:22	anonymously	applauding
170:8,21 172:14		165:11	278:17
245:10,15 247:4	amongst 257:6	answer 88:3 98:13	applauds 128:17
250:24 252:13	<b>amount</b> 27:13	175:9 200:3	218:12
260:24 269:15	44:11 141:24	answered 292:19	application 22:15
291:14	156:9 200:9		72:24
American 4:21	207:17,18	anthropogenic 211:12	applications
26:21 32:20	213:24 216:20	·	102:7,16
33:25 49:8 53:24	271:14 299:8	anticipate 242:15	applied 296:10
67:25 75:11	amounts 148:20	anticipated 33:23	• •
80:8,23 82:8 83:16 84:11	164:17 226:15	83:12 95:24	apply 19:13 42:10
87:23 109:16	<b>ample</b> 167:25	215:13 219:14	77:25 78:2
110:20	analogy 252:5	242:6	appointed 64:4
111:10,21		anybody 155:25	appreciate 21:4
112:13,16 113:8	analyses 118:3 169:20 215:7	284:13	23:25 36:10
119:2 127:23		anymore 91:17	42:13 57:18
140:12 158:4	analysis 17:9,14	157:7	58:11 63:5,8
186:19 201:10	35:2,14 93:12	anyone 18:17	79:23 87:4,13
215:25	94:14,17 98:9 99:24 118:12,21	52:10 298:7	100:8 165:5
218:4,6,14	216:2 217:4		192:16 194:13 205:9 214:14
245:24 249:4	223:23 225:6	<b>anything</b> 50:3 52:11 86:20	236:12 255:15
251:17 258:15 290:17 294:6		115:11,13	261:10 270:13
290:17 294:6	analyze 138:21	121:23 158:8	304:15
	analyzers 137:14	203:10,14	
Americans 29:10	<b>Anbar</b> 170:24	246:2,9 255:10	appreciated 175:20
76:6 89:22 112:3	ancient 113:13	292:25	
118:14,17 127:15 130:19	114:9 268:14	anyway 143:20	appreciates 23:10
146:20 186:2		177:19 195:24	24:4 206:2
192:23 217:14	Andrew 51:10	299:19	207:24
246:4 249:20	253:15		approach 40:5
210.1217.20		anywhere 263:3	62:6 74:3 90:2,5

	- Capital Repor		
99:18 100:17 107:22 133:24	<b>Arenstein</b> 9:20 249:23,24 250:3	assimilate 199:7 assist 20:18 54:12	asthmatic 152:19 161:5 162:22
136:19 137:23	aren't 144:12	97:21 209:11	299:13
138:9 209:12,20 210:16 211:24	argue 75:21	Assistant 36:24	athletes 161:22
approaches	argument 252:24	Associate 117:8	athletic 162:6
209:23	253:3,6	220:13 239:15	Atlantic 228:23
approaching 199:4	<b>arguments</b> 26:12 207:4	associated 28:21 38:10 135:19	atmosphere 141:23 262:19
appropriate 35:22	Arising 150:5	183:10 220:24 221:20 289:8	263:7,15
209:12,16	Arlington 259:20		271:8,15
294:16	Armageddon	association 3:16	attack 226:23
appropriateness	199:4	4:21 10:5	227:5 254:14
34:7		36:20,21 53:25	attacks 163:7,9
	Army 47:15 48:3	69:16 80:9,23	171:9 227:4,11
approval 39:24	257:13	82:8 83:17,23	attainment 32:15
approved 254:17	arrangements	84:12 125:3 127:23 133:15	
255:11	19:6	175:25 176:8	attempting 159:11
approximately	arrested 195:23	261:19 290:22	attending 18:20
13:23 37:21	271:11		280:17
111:2 127:7	arriving 64:16,24	associations	attention 27:16
162:10 165:10	278:15	133:19 176:20	62:19 84:25
193:5,10,11		assume 20:4	104:18 114:22
232:6 242:2	arrogant 114:21	assuming 13:22	119:15 215:10
246:18 247:24	Arthur 5:17	95:7	273:25 285:14
248:3	112:22 149:18	assumptions 33:18	295:15 303:22
<b>April</b> 14:3	article 220:16	60:17 134:20	304:4
aquatic 130:10	articles 211:10	assurance 41:20	attitudes 91:2
289:16	articulate 277:20	assure 98:2 209:12	attorney 16:24
<b>Arab</b> 259:13	<b>Ashland</b> 261:13	277:21	63:24
Arabia 27:14	Asia 173:7 247:3	asthma 56:12	attribute 176:11
146:17 216:16		76:7,9 84:15	attribute-based
Arcadia 150:21	aspect 45:22 46:3	124:23	90:5
<b>Arctic</b> 26:7 55:14	67:9 300:11	139:18,21,25	attributes 32:12
area 21:12 22:19	aspects 24:18 36:13 61:24	152:6 153:10,12,13	audience 172:20
24:3 56:9 80:11	78:22 99:21	153:10,12,13	audit 202:21
85:23	<b>Aspen</b> 289:11,12	161:11 163:7	augment 171:24
157:3,24,25	,	181:17 182:11	S
169:21 185:15	asphalt 55:5	188:6,7,9,10,12,	aunt 188:7,23
192:4 193:21	aspirations 68:18	14,20,22	Australia 273:10
areas 36:23 39:5	assert 94:25	189:3,4,21	<b>author</b> 286:23
45:24 57:3	assessing 42:9	237:10	authoritative
116:10 119:14	assessment 16:2	253:23,25	271:4
157:8 182:20 195:2 251:8	60:16 110:17	254:3,7,13,19 263:9 267:16	authority 108:5
269:9 270:6	288:15,24	299:10,18	· ·
288:18 302:17	· ·	302:15	authorized 19:14
200.10 302.17	assets 51:13	5.2.10	<b>auto</b> 14:15,18

	Capital Repor	0 1 7	
21:14,22 26:24	300:17	213:18 237:8	banks 259:11
33:25 41:4	4	268:14 272:7	1.75.12
64:7,22 67:2	automotive 38:24	278:6 282:6	bar 175:13
68:23 71:8 72:25	66:11 92:19	300:20 301:5	197:21,22
	98:19 99:14	300.20 301.3	275:15
76:24 77:15 78:9	104:15 111:19	awareness 112:3	<b>Barack</b> 141:12
79:13 88:5	112:12 126:15	away 27:16 54:3	•
89:11,25 90:3	automotive-	87:5 145:6	<b>bare</b> 114:6
91:4,6,14,16,21			barrel 51:22
99:19	related 133:18	256:21 279:16	146:10
100:10,16,19	<b>AVAB's</b> 226:18	295:3	
101:5,10,21	availability 22:5		barrels 13:14
107:2 110:15	availability 33:5	В	27:12 37:25
111:6,13	59:15 95:12	<b>Babette</b> 5:5 85:12	110:6 127:12
112:2,11 118:11	135:8 166:22	124:20	146:14 148:15
121:15 125:2	available 19:9		172:15 216:13
126:21,22	97:12 100:7	B-A-B-E-T-T-E	248:3 250:24
120.21,22	101:2 135:13	85:13	287:13
	193:7 196:22,24	backbone 88:12	
129:15,22	209:25 233:21		barriers 72:18
132:22 134:20		backdrop 67:20	221:14
138:12 143:14	<b>Avalon</b> 45:12	background 63:18	base 136:17
147:10 165:20	average 13:18,20	99:3 121:2	137:20 156:16
166:6 168:2	17:5 21:7	276:22 277:11	238:17
178:7 180:24	39:9,13,18,20	297:2	
184:20	41:5,11 43:24		based 23:6 34:25
193:11,15 210:6	58:7 70:16	backs 62:12	46:24 60:24
215:12 217:2	75:8,9 81:4	backseat 277:24	93:20 110:16
218:4,6,14,17	*		121:21 128:8
219:2 220:24	98:25 107:6	backslide 61:9	134:19 172:2,12
221:20	118:12 126:5	backsliding	194:23 202:17
223:15,19	128:10 177:22	209:5,9	216:2 274:20
233:17,22	192:15	,	279:5
239:24 245:22	200:10,12	backyard 275:2	h 226 17
249:7 251:14,21	217:11 248:20	bacteria 131:15	bases 226:17
265:15 278:22	263:22	<b>bad</b> 129:16 228:11	<b>basic</b> 279:9,18
282:24 290:12	264:14,18	246:9	basically 176:2
	266:22 280:2		v
291:4,20	avert 294:17	<b>badly</b> 111:2	basis 31:22 62:6
Automakers 6:12		<b>Baker</b> 51:10	71:3 95:24
133:15,16,22	averted 275:25	<b>balance</b> 67:9,11	167:12 171:11
137:22	<b>Avery</b> 277:16		269:4
automobile 49:2	aviation 48:5	balances 271:6	Bass
165:3 192:21	avid 274:24	Baldwin 281:6	131:9,13,18,19,2
205:25 240:10		<b>balls</b> 27:20	4
241:11	avoid 33:24		batteries 102:24
243:14,23 246:7	150:12 222:21	<b>Baloga</b> 4:18	103:9 156:19
247:15 255:20	225:12	76:17,19,20	171:14 229:16
260:21 301:18	avoided 217:17	Baltimore 151:5	230:5 231:12
automobiles	225:4	bankable 101:24	
190:19 191:6			battery 71:4
222:9 241:15	Avoiding 147:8	banking 22:14	102:21
294:10 299:10	aware 113:16	135:22	103:2,3,4,6,8
294.10 299.10	115:15 204:12		111:16

	eapital Repor	0 1 /	
229:13,15,17,20,	behaviors 91:3	224:7 291:2	206:22 210:17
23 230:18	<b>behind</b> 46:8 120:6	benefits 22:16	252:20
battle 149:9	122:9 157:16	28:13 29:23	<b>Bible</b> 113:16
<b>battlefield</b> 149:8	178:19 211:18	37:23 38:6 57:21	bicycle 202:19
Bay 157:24,25	213:6 256:14 264:7 301:8	69:23 72:7 73:4 75:24 82:3 87:14	biggest 28:23
<b>bean</b> 179:19	behoove 155:21	100:7 110:25	76:4,13 117:16
beans 103:16		119:13,25 120:8	144:15 178:14
bear 116:19	<b>beings</b> 113:25 115:11	123:15 125:4	185:6 199:3 245:15
	<b>belief</b> 267:11	134:6 135:17 136:3 163:13	<b>bike</b> 56:22 161:18
bearing 250:13		207:25 208:15	189:6,9 201:18
bears 159:3	beliefs 236:4	215:13 216:23	biked 161:22
beautiful 164:19	<b>believe</b> 22:9 24:7 47:9 52:24 58:6	218:17 219:14	bikes 161:17
<b>beauty</b> 236:13,17	60:4 61:2 65:13	220:24,25	
<b>become</b> 55:19	86:4 87:14 88:3	221:20	<b>bill</b> 5:9 92:18
115:20 137:11	90:24 91:22	224:11,14,16 240:20 244:16	153:22 264:11
142:19 186:12	92:24 100:2,24	248:16 259:5	<b>billion</b> 13:14 37:25
197:10 201:24	112:15	248.10 239.3 274:17	38:2,3,5 47:21
247:14 289:6	122:20,24		48:13,18,21
becomes 173:4	141:14 142:2,25	Bennett 253:16	68:12 75:11,19
177:21 294:21	146:7 164:2	Bens 260:12	77:24 82:7
becoming 275:9	165:22 166:6,18	benzene 81:23	110:6,8 118:24 119:3 127:7
beef 230:17 231:14	172:7 176:9	best 58:24 63:2	146:13 148:14
	179:10 186:6	93:24 100:11	162:10 172:14
<b>beep</b> 18:14	187:11 189:14	112:16 128:11	174:4 193:5
<b>beg</b> 279:3	209:22 227:24 232:15 233:24	167:14 168:6	216:10 217:6,9
begin	234:4 246:23	209:25 212:22	222:17 223:8
20:2,14,19,22	255:25 256:5	274:16 290:5	224:8,10 225:5
42:9 46:5 133:4	257:21 260:18	294:17	233:7 246:18
145:3 291:25	274:2 282:12	Bethlehem 257:15	247:25
301:18	292:24 295:4		248:3,4,8,22
beginning 54:8		better 26:19 54:12	267:23 294:7
117:2 137:7	<b>believes</b> 22:18 256:14	97:25 105:22 119:6 147:11	billions 87:18
167:17 233:11		152:19 158:17	141:17 163:2
290:7	<b>belong</b> 238:5,12	166:14 175:15	251:18
	below-GWP	177:18 180:11	<b>bills</b> 264:8
<b>begun</b> 25:24 58:21	209:10	185:18 187:18	
<b>behalf</b> 16:14 25:8	<b>belts</b> 44:5	193:2 209:22	<b>bin</b> 203:16
37:3 69:13 77:10 98:21 113:21	<b>Ben</b> 259:21 261:3	217:8 218:2	binding 174:7
145:23 214:20		233:6,12 235:4	<b>bio</b> 103:20
235:21 255:23	<b>beneficial</b> 88:7 224:19	253:3 273:5	biobutanol 104:8
277:12 286:15		283:16 291:23 294:2 296:21	<b>biofuel</b> 104:2,7
292:5	<b>benefit</b> 28:18 38:4 44:23 45:5,21	301:22 302:22	biofuels 48:5
behavior 63:17	70:4 87:2,23		103:18 104:9
88:18 95:9 96:3	120:20 137:4	beyond 25:7 26:13	
121:14	159:24 160:2,24	30:16 31:19 51:22 68:25	biologist 130:10
	192:25 223:20	75:16 107:14	<b>biology</b> 279:9
		70.10 107.11	

	capital hepol		
biomechanical 211:3	172:9 215:3 249:15	102:18,20 272:21	bronchitis 153:14
Birch 289:11,12	<b>boat</b> 227:4	breaks 18:23 19:8	Brook 132:2 289:22
birthday 169:22 276:24	<b>Bob</b> 8:3 10:14	breath 188:17	<b>brought</b> 29:16 115:21 116:19
	198:4,7 261:14 276:19	breathe 80:13	131:20 172:16
bit 53:3 63:13		86:10 140:9	226:22 297:15
130:18 170:9 197:2 202:18	<b>bodies</b> 115:25	152:22 156:10 188:17 247:20	<b>brown</b> 159:16,19
205:4 252:7	body 177:11	274:18 301:22	Brune 25:12
253:11 256:12	<b>bold</b> 186:25 187:20	breathes 125:3	Bryan 8:11 210:20
272:16 296:25	<b>bomb</b> 259:23	breathing 129:18	Bryn 239:15
blacker 129:11	bone-chilling	285:3 294:14	BU 51:11
black-stained 260:8	25:22	Breiner 11:4	Buckenthal 227:6
Blakely 6:13	<b>booming</b> 282:18	280:19,24 281:16 283:24	Buddhism 236:3
139:7,9,10	<b>boon</b> 217:2	285:7	<b>budget</b> 51:15
<b>blame</b> 293:5	<b>boost</b> 26:22 187:12	Brendan 9:8	150:7 222:11
blanket 140:8	264:21	214:18 226:5	299:5
blessing 277:21	boosted 66:3	<b>Brian</b> 7:24 194:16	<b>budgets</b> 291:16
blessings 143:8	<b>boosts</b> 47:20	<b>brief</b> 58:12 207:4	<b>buffering</b> 38:19
<b>blink</b> 52:10	border 153:3	279:23 295:13	<b>Buick</b> 92:21 93:23
block 52:12	<b>born</b> 188:10	<b>briefly</b> 88:14 254:2	<b>build</b> 25:19 37:9
244:12	<b>borne</b> 217:15	Bright 5:15	61:18 78:3,9,14,20
<b>blog</b> 51:20	Boston 151:5	108:18,20,21	105:20 109:24
<b>blood</b> 297:11	257:19	<b>bring</b> 19:19 41:24	128:5,16,24
305:13	bottom 98:4	63:13 114:6	134:13 167:12
<b>Bloom</b> 253:15	184:18 187:12	119:4 120:10	180:8 232:8
<b>blow</b> 292:19	295:5	141:8 173:25 185:14 198:9	233:20
<b>blowing</b> 205:23	<b>bought</b> 93:8 142:14 229:4	208:2 211:2	<b>building</b> 14:6 42:22 46:10
<b>blown</b> 189:3,4	293:9 296:19	228:6 249:20	146:9 179:15
<b>blue</b> 5:16 159:19	<b>Boy</b> 299:13	274:22 280:21 295:15	230:20 257:18
203:16	<b>BP</b> 114:14	293:13 <b>bringing</b> 104:2	buildings 99:8
BlueGreen	<b>brag</b> 170:16	111:9 115:3	<b>builds</b> 13:25 69:21
108:22,23 109:19 111:25	<b>brain</b> 275:16	141:10 170:10	74:12
BMW 4:19	<b>brand</b> 64:19	brings 134:15	<b>buildup</b> 82:23 <b>built</b> 43:10 62:7
76:21,22	<b>Brandon</b> 256:11	209:3	93:7 207:21
77:5,7,10,14,18	bravest 260:9	brink 200:7	229:16 259:23
79:16 <b>board</b> 25:4 30:20	<b>Brazil</b> 273:10	<b>broad</b> 32:9 37:7 59:25 88:14	<b>bulbs</b> 203:21,22
64:5 105:3 134:9	break 55:22	99:12,13 290:11	<b>bulk</b> 74:3
148:21	180:13,14 228:4	broader 80:18	<b>bullet</b> 132:10
149:20,23	231:2,6,9	223:21	burden 75:5
170:5,15,18	breaking		

250:13,16	60:5,10 89:8	<b>cap</b> 23:4,5,8 50:21	<b>CARB</b> 23:21
burdened 163:3	95:9 141:5 155:7 167:7 252:11	73:8	<b>carbon</b> 29:3 37:20
burdens 187:4		capabilities 34:23	39:18 44:18
burdensome	buzzer 42:2	35:10,13	45:21 50:22 58:8
100:15 223:19		capacity 64:11	70:16 79:9
	C	99:11 190:18	81:11,19 99:22
<b>burn</b> 226:19	<b>cab</b> 261:21	210:12 265:13	100:5,20 104:17
burned 300:18	262:21,23	<b>capita</b> 155:25	118:16,25 119:9
burning 148:18	264:6,14,18	200:10 201:9	120:12 126:5
155:11 199:5	cabs 262:11,18		127:9 132:11
213:18	263:21,24	capital 291:7	136:20 141:24
		capitalize 127:18	150:24 161:9
burying 260:3	Cadillac 298:12	caps 190:25	162:10 182:9,18
<b>buses</b> 43:18	<b>cafe</b> 50:6 63:11	-	183:9 212:7
142:13	69:21 74:13,25	Captain 259:21	221:10,13 225:2 248:9,11
Bush 55:20	128:9 154:5	260:4	250:2,20,25
	156:8 167:19	captured 61:21	250.2,20,25
busiest 118:10	168:22 183:25	capturing 61:16	262:19 263:3,6
<b>business</b> 43:3 64:3	184:13 222:23	car 26:21 34:22	266:23 271:7
93:25 98:20	223:13 224:2	43:25 44:2,4	276:10 288:5
100:11 101:4	240:3 274:13	52:6 54:5,22	
103:15 121:16	276:2	55:3 68:2 72:5	cardiovascular
184:17,21	calculate 73:16	75:2 86:3,23	182:12
185:9,18	calculating 221:24	111:22 118:12	<b>cards</b> 20:17
186:4,5,10,11,24	calculations 82:16	124:21	care 153:17
187:2,3,6,10,14	97:9	142:7,15,16,17,2	161:23 163:3
191:14 194:20 196:15 198:9		0 157:16,18	164:13,14
205:14,15	<b>California</b> 14:9,15	161:8 164:8,9,10	182:18 192:11
206:20 209:17	29:12 30:19	167:7 179:16	232:12 233:15
225:9 257:21	78:12 79:24	183:22,24,25	234:10 237:2
262:9	105:3 134:9	185:14 186:19	238:4 250:4
	171:19,21,25 215:2 229:2	195:11,15,17,18,	254:11 257:9
<b>businesses</b> 184:2,5	230:10	21	<b>cared</b> 253:19
185:15,22,25 187:19 196:11		196:2,9,18,20,23	career 56:17
294:7	California's 29:8,9	197:2	
	campaign 25:6	201:18,20,21	<b>careful</b> 299:20,21
<b>busy</b> 16:16	47:4 122:15	204:18 205:4	carefully 128:2,14
<b>buy</b> 59:13 60:6,12	130:12	217:2,10 219:6 229:9	176:17 299:5
78:20 79:7 88:4	campaigns 25:6	230:4,13,19,22,2	Carey 10:14
90:25 93:6,20	camped 130:14	3,25 231:25	261:14
121:18 153:7	<u>-</u>	232:17 265:17	276:18,19
165:11 166:23	Camry 179:8,10	270:3 277:24	cargo-carrying
167:10 177:4	Canadian 198:18	282:7,23 286:9	23:18
179:5 191:9	cancer 152:10	288:3	Carol 11:16 296:9
195:25 196:18 205:2 265:7	159:7 182:11	293:14,16,17	
270:3 283:9	188:23,24	294:16 298:12	Carolina 76:22
293:13 296:19	247:10	303:5,14,16,17,2	77:4
buying 13:19	<b>candy</b> 275:15	1 304:3,4	carried 277:8

		O 1- )	
carry 72:8	castigated 291:19	234:25 293:10	<b>chances</b> 164:16
carrying 35:9	casualties 257:6	Centera 295:16	change 28:17
cars 14:22 28:16	catalytic	centers 182:23	33:24 44:7 46:6
29:10,11 39:9	157:11,17,21		47:6,13
_	137.11,17,21	Central 227:21	50:8,10,20,25
43:18 48:9 50:14	catastrophe	300:8	55:3,4,7 57:8
54:11,20 70:18	199:13	cents 44:3,4	65:25 77:14
89:16,20 90:7	44	247:22 254:18	82:23 83:4 90:6
91:8 94:4 102:19	catastrophes	247.22 234.18	
111:7 117:18	199:11	century 80:22	106:16 121:13
119:5 120:4,7	catastrophic 147:9	273:2 274:13	129:18 137:12
125:15 126:7	-		141:3 144:2,13
130:17 132:18	<b>catch</b> 188:16	<b>CEO</b> 58:15	145:5 147:5,9
133:2 136:24	categories 88:14	<b>CERES</b> 217:22	148:22 160:3
140:5 142:23	S	20114	181:3,11,14
	category 177:16	certain 66:14	183:6,7,19 194:7
143:23 146:5	296:18	94:15 152:23	198:21 201:23
148:7 154:6	302:11,14,23	158:13 177:2	206:8 208:3
155:25 156:5,19	cattle 182:8	188:8 236:18	211:11,20
162:2,7,17,24		certainly 66:11	215:18 220:24
163:5 164:11	causation 152:15	116:5 153:10	
166:5 167:20	causations 152:17	154:15 182:6	221:4,17 232:21
168:14 179:15			237:20 239:3
180:8 182:23	cause 130:21	232:13 234:14	242:13 246:11
184:16 186:7	142:5 199:5,10	244:5 252:16	247:6,21 250:18
189:10,14	211:13 289:5	258:23	251:19 256:3
190:18 191:7	301:11	Certified 305:3	258:7 259:14
192:14 196:23	caused 82:23		265:10 267:19
204:15 205:3	161:15 208:9	<b>certify</b> 305:6,11	270:23 271:2
204.13 203.3 207:8 215:23	215:19 237:6	chains 26:5	272:9,10 275:5,7
	260:16 267:24	<b>chair</b> 150:19	276:15
228:2,3 229:16		291:10	288:10,11 289:4
230:20 233:21	269:7	291:10	290:2 292:14
234:22	causes 143:16	Chairman 42:19	294:14 297:18
242:22,25 250:7	150:6 159:11	64:6 87:10	
262:14 263:24	162:3 163:6,8	291:19,23	302:10,22 304:8
265:19 274:20	211:12 250:18	ĺ	changed
280:5 283:12		challenge 33:13	189:2,8,13
284:3,6 286:21	causing 139:25	58:4 60:13 107:8	203:5,7 255:10
293:14,23,25	189:18 222:16	challenged 32:8	278:8 294:9
298:10,11	250:20,21	288:17	
301:16,19	celebrate 169:21		changer 54:6
302:24	290:3	<b>challenges</b> 106:15	changes 44:6
303:4,6,11,12		145:8 205:19	53:16 82:15
	cell 54:21 68:19	209:4,22 294:22	88:18 89:10 95:8
Carter 231:8	73:20 106:21,25	challenging 23:24	96:3 149:2
cartoon 298:7	cellulosic 103:23	35:11 61:12	150:11 174:8
case 89:6 122:18	<b>cement</b> 159:20	Champion 7:14	181:6,14 194:14
223:17 262:9		151:20	208:19 250:21
299:2	Cemetery 259:20	164:23,24 165:2	265:14 269:6,8
<i>∠</i> ∃∃.∠	center 5:18 9:13	175:22 177:2	275:3,20,23
case-by-case	86:6,7 115:17		276:3,20,23
137:23 138:2	129:6 154:16	<b>chance</b> 236:16	288:12 289:5,19
cases 83:12 171:14	169:19 232:4	270:13	200.12 207.5,17
(ascs 03.12 1/1.14	107.17 434.4		

	Capital Report	0 1 7	
changing 189:17	271:23 277:16	cities 130:5 203:19	54:5 55:22
Chapter 140:23	279:17 292:22	247:8 293:7	76:3,10 80:13
<u> </u>	298:2 302:15	300:14	83:23 109:3
charge 55:11	children's 55:24	<b>citizen</b> 4:9 5:22	111:7 117:8,13
103:7 184:24	211:4 254:17,23	6:8,14,16,18	124:17 125:20
230:8,12	255:7	7:5,7,9,11,13,19,	126:25 130:2,11
charged 119:21	child's 254:7	21,23,25	133:6 152:14,20
charges 184:24		8:4,6,8,12	153:22 182:24
230:14	<b>China</b> 154:19,23	9:7,9,11,17,25	194:12 215:23
charging 42:23	190:12 253:5	10:9,13	216:25 217:10
45:12,15,17	<b>China's</b> 272:18	11:13,15,17,19,2	218:9,14 231:25
46:13 55:5	<b>chip</b> 295:3	1 121:2 180:22	234:2,22 245:3
184:14 230:16	-	181:2 194:19	246:7 249:7
	choice 14:24 56:22	201:5 202:5	265:17 266:7
charter 234:3	144:3 165:22	245:4 249:13	279:17 282:8,16
cheap 91:8	166:2 193:25	276:22 277:10	285:2,12 288:2,3 302:10
cheaper 265:7	223:15 225:17	279:7 301:3	303:11,12,16
-	283:13	citizen/activist	· · ·
checked 246:22	choices 64:16	210:21	cleaner 28:16
checkpoint 34:14	134:14 166:14	citizens 156:22	29:10 38:16
Cheltenham	195:2 196:8,21	164:15 194:9	41:19 54:22
149:21,22	218:10 223:10		111:10 119:5
150:14,22,23	274:22	city 22:16 53:23	125:24 128:18 146:9 148:18
chemicals 131:23	choking 293:7	54:9 86:6,8	201:14 207:2
	chosen 274:20	120:15 129:6,10 142:12 153:11	233:21 235:3
Cherry 182:21	278:9	154:16 159:17	245:19 249:19
Cheryl 6:15	Christianity 236:3	198:9,10,16	260:22 292:21
140:19,20	Ĭ	201:17 228:23	302:13
Chester 252:2	Christopher 281:6	262:11,17	cleanest 232:16,17
Chet 2:6 15:25	chronic 80:12	264:11,22	, in the second of the second
	152:6 153:14	293:17 296:11	<b>cleaning</b> 163:5,12
Chevrolet 92:21 93:23	154:9 275:12	city's 129:9 262:3	<b>clear</b> 50:18 67:3
	301:6 302:21		86:18 137:3
Chevron	Chrysler 4:11	Civic 195:11	206:24
229:19,21 230:3	57:16,21	civil 227:23 271:10	209:12,15
Chief 16:22,24	58:11,13,19,21,2	<b>claim</b> 243:14	215:20 226:24
<b>child</b> 56:11 139:18	3 59:4,10,19	<b>claimed</b> 115:5,9,10	238:9 244:16
154:9 195:16,17	60:20,23 61:15		258:6 266:14 271:3 294:21
213:22	Chrysler's 62:13	<b>claims</b> 115:12	298:16 301:2
children 56:9	chunk 272:22	<b>clan</b> 238:17	
116:4 139:25		clarification 52:21	clearly 19:22
140:6 143:13	Church 10:7 140:21 266:2	clarify 203:11	43:12 64:20 83:6
151:4 154:16	268:15	•	119:4 176:3
174:21 182:13		class 58:24 72:13	237:15,25 254:19 286:4
188:6 189:4	Churchill 297:12	168:24 227:6	
192:11 201:15	Cincinnati 192:5	classic 239:16	climate 25:24
213:20,22	circulates 25:22	classmate 259:20	28:17 29:23
253:19,22	cited 187:3	<b>clean</b> 3:16 6:6 9:19	36:25 47:6,13 50:8,10,20,24
254:4,9,15	Cittu 10/.3	36:20 47:10,14	30.8,10,20,24
		30.20 47.10,14	

	1 1	- O I - J	
77:13 82:22 83:4	200:4 239:6	coffers 258:24	188:2 218:9
106:16 130:12	closure 173:23	cold 51:12 259:18	261:16
137:12 141:3	<b>clothes</b> 297:23	collaborate	commanded
144:2,13 145:5 147:5,9,17	clouds 159:16	99:15,18	170:24
148:22		collaborated	commandment
181:3,11,14	Club 3:12 9:23	245:18	149:13
183:6,7,18 190:8	10:11,15 24:25 49:15 210:22	collaboration	commend 78:5
194:7 199:2	252:3 270:17	101:5 223:3	109:4
200:7 206:8	276:23,24	290:4,19 292:2	commends 206:5
207:23 208:3,5	281:18 297:4	collaborative 59:7	
211:11,20,22	club's 25:5,8	290:23	commensurate 78:17
214:7 215:17 220:24 221:4,17	ĺ		
232:21 237:19	C-Max 31:15	<b>collar</b> 296:12	<b>comment</b> 15:15,17 17:22,24,25
239:3 242:13	CNA 7:17	colleague 12:14	24:19 57:18 63:5
246:11 247:6,21	169:19,20 172:8	16:6 63:8	69:6 74:17 79:22
250:18,20	175:11	colleagues 15:22	125:13 206:10
251:19 255:23	CO 84:2	52:19 124:7	commenting 30:13
256:3 258:7	CO2 13:9 31:21	collective 67:10	Q
267:19 270:22	32:16 77:20	141:8 170:16	comments 14:14 15:10,19 17:2
271:2 272:9,10 275:5 276:14	110:7 127:8	collectively 212:7	19:24 20:2,3,5
287:5,8,21	194:8 199:6	246:17	24:17 25:14
288:10,12,23	200:9,11,15 208:8,13,23	<b>Colleen</b> 253:16,18	34:9,20 39:5
289:4,18 290:2	263:11,14,17	college 151:5	57:12 58:12
292:14 294:14	280:7	230:13 239:16	60:21 63:2 70:9
297:18 298:9	CO2-equivalent	collisions 242:19	74:16,17 79:20
302:22	224:21		98:22 120:14,17
climate-		<b>color</b> 159:19	138:23 176:19 220:22 245:4
disrupting	<b>coal</b> 198:24 256:21 291:3,24	Columbia 273:10	284:13
286:19	ĺ	Columnaris	
climate-friendly	coal-fired 29:4	131:15	commercial 48:7 104:2 171:4
240:15	119:23 216:7	combat 257:4	
Clinton 231:8	coalition 47:6	combined 27:14	commercialize
clogging 293:7	110:23 115:18 145:24 147:14	30:18 71:14	104:7 209:17
close 17:25 74:17	223:23 235:18	110:3 216:16	commission
79:22 173:10,22		266:22 287:9,16	239:19
249:13	coast 46:8 161:21	combustion	commissioner
	226:6 227:2,3,7 298:17	287:22	36:24 53:23
closed 125:20 173:13,25		comes 75:14	69:11
226:19	coastal 26:3 27:18 269:9 270:6	195:13 204:12	commissioners
closely 40:24	288:17	227:15 229:12	149:20,23
56:14 275:18		230:14	commitment 27:7
	Coastguardsman 256:11	comfort 32:10	31:19 59:20
closer 24:14 134:15 173:3		141:18 165:15	105:9 111:21
	<b>co-author</b> 239:16	<b>coming</b> 46:6 54:14	113:10,12 115:22 123:5 10
closing 138:25	<b>Co-chair</b> 36:18	127:2 152:11	115:22 123:5,10 148:3 190:16
175:10 189:18	cockroaches 272:5	158:7 177:3,25	232:18 267:5
	<u> </u>		232.10 201.3

		ing company	
291:5	42:19 92:25	compliance 32:7	245:4,7 249:13
commitments	98:18 99:4	36:2 71:25 72:6	271:9 297:25
58:18	193:17,18 213:8	90:4 101:24	concerning 58:12
	229:19 230:4	108:4 134:25	298:17
committed 27:4	240:10 247:2	136:17,23	
30:24 77:7 79:16	257:16 303:9	137:3,17 139:3	concerns 121:16
111:25 116:17	304:4	·	127:21 245:20
210:12 235:2	304.4	comply 60:7 90:22	278:14 303:2
271:10	comparable	91:5,9 93:3	
2/1.10	268:10	134:2 138:14	concert 83:17
Committee 36:19		245:22 303:18	conclude 18:16
49:20 291:10	comparative	243.22 303.16	
	165:14	complying 241:18	271:5
committing	compare 97:17	22mnonent 111:16	concluded
147:25 148:4	compare 97.17	component 111:16	222:12,13
commodity 259:10	compared 75:23	207:23 212:10	r
Commodity 239.10	81:16 101:13	components 54:23	concludes 24:16
<b>common</b> 29:18	178:24 208:4	102:7,12 111:15	conclusion 35:15
101:7 131:14	219:23 266:24	·	62:13 71:19
234:8 262:2		composition	
276:25 277:3	295:21	280:12	79:16
210.23 211.3	compares 17:18	dr. 01 22	concrete 146:24
Commonwealth	<u> </u>	compounds 81:22	212:15
1:24 305:5	comparing 191:6	162:14	
	comparison	comprehensive	concur 35:14
communication	279:24	78:21 123:12	a a m a su mu a m t l v
173:9	219.24		concurrently
communities 26:3	compelled 302:12	133:23 174:7	34:10
27:19 38:12	303:3,6	compressed 73:19	condensed 296:22
	,	-	
56:18,19,21	compelling 26:13	comprise 84:20	conditional 39:24
112:17 139:21	302:9,21 304:7	compromise	conditions 34:16
140:6 234:13	compels 303:5	168:14	83:2
237:10,12,21	<u> </u>		83.2
239:9 302:19	compete	compromised	conduct 98:9
	91:11,15,17	182:14 241:2	196:14
community 6:20	00 mars 04:4: vo 47:14		
56:17 113:3,11	competitive 47:14	compromising	conducted 19:12
115:14 116:16	48:25 126:16	68:17	41:3 88:20 170:5
140:16 145:22	161:5 167:21	conceived 77:18	conducts 165:9
147:16,18,22	246:6 303:7		
181:7 232:2,20	304:5	concentrated	conference 298:9
238:8		243:7	confidence 30:23
238.8	competitively	concept 73:6	35:20 209:19
community-wide	303:10	167:17	33.40 407.17
148:4	competitiveness	10/.1/	configurations
	218:4 274:19	concern 56:12	35:6
compact 106:6		113:7 115:23	
companies 27:23	competitors	183:16 213:2	conflict 257:3
122:16 132:23	100:21 303:24	226:22 273:22	279:2
163:2 186:19	a a mam late 50 15		conflicting 105:12
	complete 50:15	278:20 289:20	240:22
230:19 231:13	81:24	concerned 9:5	44U.44
261:22 291:21	completed 107:20	40:5 88:16,22	conflicts 258:19
294:16	169:24	118:21 159:3,6	00mfrom4 047 16
303:14,21		,	confront 247:16
ĺ ,	completely 119:19	181:2 182:9	congratulate
company 3:10,14	208:23 294:16	212:16 214:21	191:16,18
5:12 20:25 30:9		218:25 223:2	1,1,10,10

	<u> </u>		
congregation	120:18 210:18	107:13 110:17	248:18,21
232:2	considerations	135:9	286:20 290:17
gongrogations	59:17 64:18	165:3,6,9,17,20,	consumes 258:9
congregations		22 166:9	Consumes 238.9
140:24	considered 81:14	176:10,23,24	consumption
Congress 50:19	301:11	179:9 193:25	27:12 37:24
52:11 175:4	considering 34:8	196:6 202:11	69:25 70:14
277:8,14	169:8 240:17	204:20,24	74:11 75:19
,	109.8 240.17	217:12	88:25 123:17
Congressional	Consistency		127:11 132:14
222:11	206:19	222:4,14,18	173:15 174:10
conjunction 96:23	consistent 28:10	223:10,15 225:8	193:4 206:9,18
107:25	34:15 98:4 105:8	241:11 252:11	208:9 215:22
Connect 31:11	108:4 220:7	264:25	216:12,19
		consumer-	233:6,12 234:20
Connecticut 69:17	236:4,23 237:16	friendly 87:22	
connecting 250:8	238:21,23 239:7	88:10	239:23 245:24
	consistently 22:6		257:24 258:7,19
connection 258:6	constant 89:20	consumers	267:12 287:12
conscious 195:4		13:18,20	consumptive
	226:14	26:16,17,19	300:2
consciousness	constantly 161:19	32:13,20 38:20	44-156.6
281:19	173:5	41:13 50:9	contacted 56:6
consensus 82:22	constituent 49:17	65:23,25	contain 94:17
88:12 241:3		66:14,18	containing 84:13
	constituents 50:3	67:2,5,19	<u> </u>
consequence 247:6	85:25 86:5	68:5,25 70:4	contains 234:4
consequences	4.4 1 1 0 4 1 2	75:11 76:12	289:3
Louisequences	L constituted X4.14	1 /3.11 /0.14	207.5
114:20 148:24	constituted 84:13		
114:20 148:24	constituted 84:13	78:20 79:6	<b>cont'd</b> 4:1 5:1 6:1
114:20 148:24 213:13 240:8	constitutes 127:8	78:20 79:6 87:17,24 88:4	<b>cont'd</b> 4:1 5:1 6:1 7:1 8:1 9:1 10:1
114:20 148:24 213:13 240:8 241:12 242:12	constitutes 127:8 constituting	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1
114:20 148:24 213:13 240:8 241:12 242:12 288:9	constitutes 127:8 constituting 126:21	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16	<b>cont'd</b> 4:1 5:1 6:1 7:1 8:1 9:1 10:1
114:20 148:24 213:13 240:8 241:12 242:12 288:9 consequently	constitutes 127:8 constituting	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10
114:20 148:24 213:13 240:8 241:12 242:12 288:9	constitutes 127:8 constituting 126:21	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12
114:20 148:24 213:13 240:8 241:12 242:12 288:9 consequently 214:6	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18
114:20 148:24 213:13 240:8 241:12 242:12 288:9 consequently 214:6 conservation 4:15	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12
114:20 148:24 213:13 240:8 241:12 242:12 288:9 consequently 214:6	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18
114:20 148:24 213:13 240:8 241:12 242:12 288:9 consequently 214:6 conservation 4:15 69:12 98:6 121:6 142:2	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23
114:20 148:24 213:13 240:8 241:12 242:12 288:9 consequently 214:6 conservation 4:15 69:12 98:6 121:6 142:2 conservative 23:8	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23 continually 31:4
114:20 148:24 213:13 240:8 241:12 242:12 288:9 consequently 214:6 conservation 4:15 69:12 98:6 121:6 142:2	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13 constructively 79:17	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7 126:12 127:14	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23
114:20 148:24 213:13 240:8 241:12 242:12 288:9 consequently 214:6 conservation 4:15 69:12 98:6 121:6 142:2 conservative 23:8	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13 constructively 79:17 consultant 56:18	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7 126:12 127:14 134:14 140:12	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23 continually 31:4
114:20 148:24 213:13 240:8 241:12 242:12 288:9 consequently 214:6 conservation 4:15 69:12 98:6 121:6 142:2 conservative 23:8 168:10 conserve 141:22	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13 constructively 79:17 consultant 56:18 63:24	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7 126:12 127:14 134:14 140:12 151:20 165:13	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23 continually 31:4 continuation
114:20 148:24 213:13 240:8 241:12 242:12 288:9  consequently 214:6  conservation 4:15 69:12 98:6 121:6 142:2  conservative 23:8 168:10  conserve 141:22  conserving 141:22	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13 constructively 79:17 consultant 56:18 63:24 consume 146:20	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7 126:12 127:14 134:14 140:12 151:20 165:13 166:2,9,13,23	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23 continually 31:4 continuation 30:16 79:24 206:22 245:21
114:20 148:24 213:13 240:8 241:12 242:12 288:9  consequently 214:6  conservation 4:15 69:12 98:6 121:6 142:2  conservative 23:8 168:10  conserve 141:22 conserving 141:22 149:11	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13 constructively 79:17 consultant 56:18 63:24	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7 126:12 127:14 134:14 140:12 151:20 165:13 166:2,9,13,23 167:6,8,23 169:4	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23 continually 31:4 continuation 30:16 79:24 206:22 245:21 continue 14:6 22:8
114:20 148:24 213:13 240:8 241:12 242:12 288:9  consequently 214:6  conservation 4:15 69:12 98:6 121:6 142:2  conservative 23:8 168:10  conserve 141:22  conserving 141:22	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13 constructively 79:17 consultant 56:18 63:24 consume 146:20 207:18 259:6	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7 126:12 127:14 134:14 140:12 151:20 165:13 166:2,9,13,23 167:6,8,23 169:4 177:4 187:17	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23 continually 31:4 continuation 30:16 79:24 206:22 245:21 continue 14:6 22:8 27:20 29:14
114:20 148:24 213:13 240:8 241:12 242:12 288:9  consequently 214:6  conservation 4:15 69:12 98:6 121:6 142:2  conservative 23:8 168:10  conserve 141:22 conserving 141:22 149:11	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13 constructively 79:17 consultant 56:18 63:24 consume 146:20 207:18 259:6 consumed 73:18	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7 126:12 127:14 134:14 140:12 151:20 165:13 166:2,9,13,23 167:6,8,23 169:4	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23 continually 31:4 continuation 30:16 79:24 206:22 245:21 continue 14:6 22:8 27:20 29:14 31:23 35:16 37:9
114:20 148:24 213:13 240:8 241:12 242:12 288:9  consequently 214:6  conservation 4:15 69:12 98:6 121:6 142:2  conservative 23:8 168:10  conserve 141:22 conserving 141:22 149:11 consider 40:9	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13 constructively 79:17 consultant 56:18 63:24 consume 146:20 207:18 259:6 consumed 73:18 226:16	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7 126:12 127:14 134:14 140:12 151:20 165:13 166:2,9,13,23 167:6,8,23 169:4 177:4 187:17	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23 continually 31:4 continuation 30:16 79:24 206:22 245:21 continue 14:6 22:8 27:20 29:14 31:23 35:16 37:9 48:15 60:6 65:13
114:20 148:24 213:13 240:8 241:12 242:12 288:9  consequently 214:6  conservation 4:15 69:12 98:6 121:6 142:2  conservative 23:8 168:10  conserve 141:22 conserving 141:22 149:11  consider 40:9 70:11,25 74:14	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13 constructively 79:17 consultant 56:18 63:24 consume 146:20 207:18 259:6 consumed 73:18 226:16 consumer 5:8 7:15	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7 126:12 127:14 134:14 140:12 151:20 165:13 166:2,9,13,23 167:6,8,23 169:4 177:4 187:17 192:19,22 194:5	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23 continually 31:4 continuation 30:16 79:24 206:22 245:21 continue 14:6 22:8 27:20 29:14 31:23 35:16 37:9 48:15 60:6 65:13 66:14 68:10
114:20 148:24 213:13 240:8 241:12 242:12 288:9  consequently 214:6  conservation 4:15 69:12 98:6 121:6 142:2  conservative 23:8 168:10  conserve 141:22 conserving 141:22 149:11  consider 40:9 70:11,25 74:14 78:22 166:23	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13 constructively 79:17 consultant 56:18 63:24 consume 146:20 207:18 259:6 consumed 73:18 226:16 consumer 5:8 7:15 14:24 15:2 24:11	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7 126:12 127:14 134:14 140:12 151:20 165:13 166:2,9,13,23 167:6,8,23 169:4 177:4 187:17 192:19,22 194:5 204:17 215:25	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23 continually 31:4 continuation 30:16 79:24 206:22 245:21 continue 14:6 22:8 27:20 29:14 31:23 35:16 37:9 48:15 60:6 65:13 66:14 68:10 70:22 71:16
114:20 148:24 213:13 240:8 241:12 242:12 288:9  consequently 214:6  conservation 4:15 69:12 98:6 121:6 142:2  conservative 23:8 168:10  conserve 141:22 conserving 141:22 149:11  consider 40:9 70:11,25 74:14 78:22 166:23 202:15 255:22 263:20	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13 constructively 79:17 consultant 56:18 63:24 consume 146:20 207:18 259:6 consumed 73:18 226:16 consumer 5:8 7:15 14:24 15:2 24:11 32:5 36:5 45:20	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7 126:12 127:14 134:14 140:12 151:20 165:13 166:2,9,13,23 167:6,8,23 169:4 177:4 187:17 192:19,22 194:5 204:17 215:25 217:5,8,19	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23 continually 31:4 continuation 30:16 79:24 206:22 245:21 continue 14:6 22:8 27:20 29:14 31:23 35:16 37:9 48:15 60:6 65:13 66:14 68:10 70:22 71:16 73:11 78:6 79:18
114:20 148:24 213:13 240:8 241:12 242:12 288:9  consequently 214:6  conservation 4:15 69:12 98:6 121:6 142:2  conservative 23:8 168:10  conserve 141:22 conserving 141:22 149:11  consider 40:9 70:11,25 74:14 78:22 166:23 202:15 255:22 263:20 considerable	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13 constructively 79:17 consultant 56:18 63:24 consume 146:20 207:18 259:6 consumed 73:18 226:16 consumer 5:8 7:15 14:24 15:2 24:11 32:5 36:5 45:20 52:3,5 78:23	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7 126:12 127:14 134:14 140:12 151:20 165:13 166:2,9,13,23 167:6,8,23 169:4 177:4 187:17 192:19,22 194:5 204:17 215:25 217:5,8,19 218:7,9,14	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23 continually 31:4 continuation 30:16 79:24 206:22 245:21 continue 14:6 22:8 27:20 29:14 31:23 35:16 37:9 48:15 60:6 65:13 66:14 68:10 70:22 71:16 73:11 78:6 79:18 98:3 99:15
114:20 148:24 213:13 240:8 241:12 242:12 288:9  consequently 214:6  conservation 4:15 69:12 98:6 121:6 142:2  conservative 23:8 168:10  conserve 141:22 conserving 141:22 149:11  consider 40:9 70:11,25 74:14 78:22 166:23 202:15 255:22 263:20	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13 constructively 79:17 consultant 56:18 63:24 consume 146:20 207:18 259:6 consumed 73:18 226:16 consumer 5:8 7:15 14:24 15:2 24:11 32:5 36:5 45:20	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7 126:12 127:14 134:14 140:12 151:20 165:13 166:2,9,13,23 167:6,8,23 169:4 177:4 187:17 192:19,22 194:5 204:17 215:25 217:5,8,19 218:7,9,14 221:22 222:8,12 225:16 239:23	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23 continually 31:4 continuation 30:16 79:24 206:22 245:21 continue 14:6 22:8 27:20 29:14 31:23 35:16 37:9 48:15 60:6 65:13 66:14 68:10 70:22 71:16 73:11 78:6 79:18 98:3 99:15 105:24 107:14
114:20 148:24 213:13 240:8 241:12 242:12 288:9  consequently 214:6  conservation 4:15 69:12 98:6 121:6 142:2  conservative 23:8 168:10  conserve 141:22 conserving 141:22 149:11  consider 40:9 70:11,25 74:14 78:22 166:23 202:15 255:22 263:20 considerable	constitutes 127:8 constituting 126:21 constrained 96:3 constraints 199:10 construction 210:13 constructively 79:17 consultant 56:18 63:24 consume 146:20 207:18 259:6 consumed 73:18 226:16 consumer 5:8 7:15 14:24 15:2 24:11 32:5 36:5 45:20 52:3,5 78:23	78:20 79:6 87:17,24 88:4 89:7 90:7,15,25 92:11 94:9 95:16 96:2,11,24 97:17 107:14,16 109:15 111:8,22 112:4 119:3 121:13,14,18 122:23 123:14,18 125:7 126:12 127:14 134:14 140:12 151:20 165:13 166:2,9,13,23 167:6,8,23 169:4 177:4 187:17 192:19,22 194:5 204:17 215:25 217:5,8,19 218:7,9,14 221:22 222:8,12	cont'd 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 content 79:10 context 33:12 113:18 contingency 66:18 continual 226:23 continually 31:4 continuation 30:16 79:24 206:22 245:21 continue 14:6 22:8 27:20 29:14 31:23 35:16 37:9 48:15 60:6 65:13 66:14 68:10 70:22 71:16 73:11 78:6 79:18 98:3 99:15

	eapital Repor		
137:17 138:9	convenience 32:10	corporations	150:8,13 163:3
144:25 168:16	conventional	199:14 232:8	168:5 176:3
171:15 183:12		294:19	177:5 178:6
184:11 200:16	71:16 105:24		184:22 187:4
206:14 209:15	106:2	correct 230:23	213:10,12
218:8 227:17	conversation	corrections 19:4	241:25
260:10,15 271:7	278:5 292:20	correlated 100:6	
ĺ	conversations		cottons 297:22
continued 22:14	278:13	corresponding	coughing 163:7
74:2 106:12		82:2 134:5	<b>council</b> 6:6,20
199:9 210:16 258:15	Conversely 236:14	<b>corrupt</b> 155:15	9:19 109:6
	conversion 103:21	<b>cost</b> 13:17 24:10	118:23 124:17
continues 27:17	263:16	41:10,14,17,24	126:25 127:20
128:20 227:11	converter 157:17	44:2,14 45:20	128:17,21
continuing 14:5,11		52:6	145:22,25
36:12 57:22 58:2	converters	53:2,8,10,11,12	147:15 223:4
62:16 112:7	157:12,21	59:15 66:25	245:3 257:18
138:21 139:4	convey 165:6	68:4,9 70:6	<b>Counsel</b> 16:4,24
continuous 103:15	convoys 171:12,13	71:18	,
	172:5 226:23	75:13,21,24	counters 179:19
continuously 77:7	apoleing 25:22	87:16 90:23	countless 257:10
contractors 264:3	cooking 25:23	92:5,8 95:3,19	countries 46:9
contrast 44:3	Cooper 5:7	97:14 100:19	110:10 122:8
263:10 264:10	87:9,10,11	104:15 107:12	155:3 156:12,14
	122:22 123:6	123:24 124:4	158:13 160:13
contribute 154:21	cooperation	137:8 144:23	190:11 199:13
210:10 237:18	234:18	146:10	242:9 266:20
263:5 267:16,18	coordinated 69:14	150:5,6,9,11	283:21 298:24
270:5 299:10	90:14	151:7 162:25	
contributes 83:14		167:4 176:5	country 28:20
117:20 148:9	<b>COPD</b> 152:6,20,24	177:22 182:18	38:24 55:19,24
237:14 247:21	153:15 159:7	184:4 185:3	57:11,22 75:3
contributing	182:11 188:22	187:3,18 204:21	76:4,14 90:15 110:8 113:3
256:3	299:11 301:7,11	217:7,10 223:12	110.8 113.3
contribution	<b>coping</b> 123:8	225:2 241:18	130:15 132:4,18
130:3 300:15	<b>copious</b> 226:15	243:16	143:5 144:16
302:25	-	244:7,8,17	146:9,18 153:11
	co-pollutant 38:6	254:19,21	154:25 155:2
contributions	<b>copy</b> 172:12 207:5	269:23 276:11	156:11
99:21	core 56:20 236:4	cost-effective	158:10,11
contributor 199:9	corn 103:16,24	100:4 241:21	160:12,16 174:8
control 33:4 36:22	ŕ	242:17	175:5,20 187:17
51:25 69:17	corner 129:13	cost-effectively	190:17 216:24
79:3,9 138:6	157:9	101:20	228:15 233:10
199:15	Corp 92:25	<b>costly</b> 182:15	246:17
controlling 83:8	corporate 9:13	273:12	249:11,16 251:2
	17:4 21:7 81:4		254:20 255:24
Controlman 227:6	98:25 193:19	costs 67:4 70:7	259:12 297:9
controls 146:18	232:4 235:2	90:10 93:4 94:25	<b>country's</b> 117:21
257:16 258:10		97:18 123:20	206:7 269:3
	Corporation 92:25	134:4 135:8	
T			

	- Capital Repor	0 1 7	
<b>counts</b> 71:17	creative 183:12	219:8,10,15	185:2,8,13,14
County 149:21	196:11	cross-over 106:5	187:15
154:4 228:22	creator	Crown	<b>cut</b> 27:7 29:14
<b>couple</b> 151:19	236:8,11,15	262:8,13,18,25	75:17 111:23
224:12 257:16	238:25	263:5,12,24	118:16,25 183:9
courage 201:23	creatures 181:4	264:8 265:9	187:6 193:4
274:5 286:2	303:15	Crowne 1:19	194:5 200:10 219:13 220:2
course 32:11 95:4	credibility 210:4	crucial 125:25	224:21 233:8
118:20 153:5	credible 60:17	162:22	246:5 251:2
182:19 291:18			269:11,23
	credit 22:14 23:15	crude 38:17	287:12 288:4
courses 239:17	35:22 41:5,7 42:5 44:12	146:10,14	299:14 301:10
Court 19:7,22	45:3,20 62:12	culturally 289:23	<b>cute</b> 118:7
85:10 180:12	72:4	culture 164:4	
304:17 305:24	95:11,13,16,24	cumulatively	<b>cuts</b> 251:6
covered 145:4	96:2 101:24	216:9 217:6	cutting 29:19
284:16	102:2 135:22	curb 220:3 271:22	194:8 215:24
covers 14:21	136:17		cutting-edge
coworker 85:2	206:14,22	curbing 125:25	127:19
crafted 176:17	210:5,16	current 69:21	<b>cycle</b> 104:3 136:5
	credits 22:13,15	74:12 101:9,13	167:13 185:10
crazy 52:12 89:13	23:6,8 41:4	109:25 121:12	208:6 276:11
246:24	72:9,10	128:7 138:8	cycles 22:17 58:10
create 15:6 55:10	135:12,20,25	199:19 222:24 240:7 241:24	cyclist 161:5
57:10 109:15	136:6,11 194:3	258:18 267:23	162:22
111:6,13,21	206:12	300:6	
112:13 127:14	Crenshaw 8:11		cyclones 232:25
134:9 174:15 185:25 210:13	210:19,20,21	currently 21:18 49:2 64:6 77:14	cylinder 178:12
217:21,24	crisis 148:24	97:13 101:2	
245:18 248:25	172:21 247:16	122:12 127:6	D
249:10 269:15	criteria 82:4 83:9	146:16 162:9	dad 277:24 278:12
created 26:23	<b>critical</b> 26:4 34:18	164:4,9 166:5	<b>daily</b> 171:11
86:12 276:5	40:24 60:4 78:13	198:22 216:20	192:25 211:14
293:4	79:5 102:11	263:2	250:7 269:4,6
creates 40:12	109:9 194:2	custody 273:24	284:7,9 285:10
111:10 151:7	206:7,19 214:4	customer 32:9	303:4
270:7 303:13	critically 163:6	59:17,24 60:9,19	damage 27:22
	criticism 142:20	64:15 94:19	33:25 46:3 181:8
creating 23:12 110:13 140:13		184:8	215:19 227:6
251:18 301:19	criticisms 241:8	customers 31:3	237:24 271:5
303:11	244:13	32:3 59:13	275:16 301:12
creation 38:23	<b>critics</b> 241:13	60:5,12 62:8	damaged 246:13
111:2 223:25	242:14 243:11	63:15	damages 247:18
232:12 236:14	<b>crop</b> 26:2	64:18,20,23	267:24
267:12 291:9	crossed 153:2	65:13,17 69:5	danger 301:2
creation's 236:12	crossover 89:17	97:6 100:12	dangerous 148:20
Cication 5 250.12		105:21 172:17	dungerous 170.20
	Į		

	capital Report	0 1 7	
294:6	248:15 286:24	Declaration	definition 137:24
dangers 213:9	292:3	147:24	definitive 97:16
247:13	<b>dealer</b> 64:5 67:11	declarations	<b>defray</b> 123:19
<b>Darrell</b> 291:19	<b>dealers</b> 63:20 67:3	246:16	degradation 147:8
<b>Dart</b> 59:2	96:6 97:20 125:3	declaring 259:13	degrade 236:14
data 23:6 63:22	175:24 176:7,19 177:3 178:9	declining 218:6	degree 82:13
97:10 209:25	241:11	decouple 168:19	126:10
225:6 264:20	243:14,23	decrease 68:16	degrees 131:12
date 77:23	dealership 63:23	91:24 132:13	246:21
dates 135:24	64:14,16,25	156:9 162:15	<b>Delaware</b> 92:19,20
daughter 228:21	96:17,24 176:9	237:14,20 242:24 245:9,24	96:17 99:4
230:13	dealerships	decreased 70:4	124:19 154:4
daughter's 188:9	128:13		228:22 257:17
daunting 107:7	dealership's 65:6	decreases 164:16	delays 240:23
<b>David</b> 7:14 9:16	dealing 135:18	decreasing 126:2	deliver 32:2 79:6
43:4,8 151:20	deals 42:4	164:15 237:24	99:11
165:2 180:10	death 163:10	<b>dedicated</b> 73:16 80:18 192:10	delivered 31:12
239:13,14	237:23 242:18		216:22
253:15	deaths 181:21	deemed 19:16	deliveries 95:13
day 18:24 25:22 27:13 47:22	debate 252:19,20	deep 27:25 55:14	delivering 99:19
48:13,18,21	260:10	113:7,10,12 114:15 251:6	<b>Deluge</b> 275:3
110:8 115:8	decade 27:8 68:25	259:17	<b>demand</b> 29:10
117:19 127:12	218:9	deepened 257:23	32:5 51:25 66:15
159:8 161:18	decades 79:12	deeper 233:15	78:19,23 135:15
172:15 178:13 180:21 216:13	decarbonize	deeply 143:25	173:15 178:20 239:23 240:12
242:5 247:25	212:12	236:23 239:7	242:9 243:24
250:25 254:6,15	decarbonizing	250:5 257:9	demands 31:2
255:7 258:21	212:15	deeply-rooted	67:8
259:18,25 260:3 269:21 270:15	December 259:19	294:12	democracy 268:11
287:13 294:8	295:23	Deepwater 27:17	Democrat 266:6
297:22 305:19	decent 96:10	251:13	
days 19:2 43:20	decided 201:16	<b>defend</b> 277:20	demonstrate 137:17 276:8
161:12 173:25	deciles 264:24	Defense 11:11	demonstrated
177:15 230:16	decision 28:8,10	47:24 118:22	29:10 166:10
294:10 300:23	94:19 123:2	159:2 171:20	demonstrates
DC 46:25 64:7	158:8 198:18,21	223:4 286:14,15	241:17 290:5
76:24 169:21 191:13 300:23	206:13 283:11	deficiencies 61:4	demonstrating
	decisions 79:11	<b>defined</b> 238:11	267:4
deadliest 273:11	96:7 116:24 125:8 150:15	303:24	<b>denial</b> 130:19
deadlines 301:21	158:6 167:16	defines 303:19	275:14
<b>deaf</b> 26:11	192:18 194:22	definitely 154:5	densely 182:19
deal 66:11	277:14	269:13	deny 198:18
160:8,10 164:17			<sub>0</sub> 170.10

	<u> </u>	enig company	
<b>DEP</b> 51:19	<b>Deputy</b> 16:12	detractors 86:19	dietary 275:20
Departmen 300:8	36:24 69:11	Detroit 12:21	difference 144:19
Department 4:15	derived 38:6	15:12 43:8 107:2	145:13 178:4
16:14 37:2 47:24	describe 139:23	178:7 233:18	255:7 284:19
59:7 69:12 71:11	186:9	285:19	differences 122:7
134:8 165:3	described 17:12	devastating 26:3	different 23:12
171:20 246:15	138:23	51:24 117:22	35:5 36:13 42:21
249:17 289:2		215:17 247:19	135:20 136:23
290:10	description 123:22	254:3	152:12 155:13
depend 57:3 250:7	deserve 119:14	Devastatingly	171:6 189:7
270:4	140:9	272:12	203:10,14 212:3
dependence 27:5	<b>design</b> 53:7 78:14	develop 35:17 59:8	280:11,12
28:11 47:7 54:4	134:12 167:11	93:2 125:19	281:23
56:25 88:23	168:18 208:24	136:7 172:22	<b>difficult</b> 21:5 24:9
111:24 113:7	designed 14:23	174:17 207:10	33:8 158:13
117:21 126:14	102:22 259:23	209:12	171:15 185:22
147:2,20 148:16	designer 180:6	238:19,21 290:5	200:8
170:2 194:5	designing 78:18	developed 68:15	difficulty 275:11
215:14 226:10,25	206:20	101:4 104:6	dig 268:18,19
233:4,13 251:16	desirable 167:23	107:25 166:5	dilatory 289:25
260:17 276:5		developing 21:6	_
287:4 294:6,13	<b>desire</b> 32:3 80:13 302:12 303:6	63:10 111:4	diligence 196:5
298:15,21		156:20 183:18	diligent 220:4
dependency 48:2	desperately 145:6	206:6 209:4 220:5 244:19	dimensionally
126:3 145:5	despite 302:24	253:7 260:22	102:4
170:12 220:3	destroy 149:7		diminish 243:10
231:2,7,9 246:6	destruction 25:24	<b>development</b> 54:19 68:13 79:2	diner 183:22,24
269:21	211:22 228:9	123:7,8 144:20	184:14
dependent 32:23	destructions 26:4	173:16 180:7	dinner 292:12
33:3 36:5 55:16		183:12 199:12	dioxide 29:3 37:20
148:10 155:11	destructive 28:4	205:14,22 215:4	39:18 44:18
201:12 208:3 233:14	detail 61:16 79:21	232:15 291:9	45:21 58:8 70:16
252:16,23	105:6	developments 49:6	81:19,21 126:5
258:12 274:5	detailed 25:14	develops 238:15	136:21 162:11
depending 262:22	94:13	devices 166:4	248:9 262:19
	details 39:6 138:22		263:4,6 266:23
<b>depends</b> 78:17 95:5 295:9	240:16	diabetic 275:19	271:7 276:11
302:16	determination	diagnosed 56:11	288:5
	34:6	<b>DICE</b> 224:13	dire 141:2 242:12
deploy 166:7	determine 97:6	dictator 155:17	direct 79:3 177:8
deployed 173:6	128:4,8,23	die 152:10	256:4
deployment	268:13		directed 19:24
73:3,19 108:9,13	determined 58:18	diesel 81:23	20:4,5,6 233:14
112:11 168:11	77:16 137:15	177:24 226:15,18	234:7,8
221:13	determining 60:5	ŕ	direction 49:6
depriving 236:16	128:3 185:6	diet 276:3	61:9 83:6 132:15

	capital repor		
144:15 149:5	disease 80:12,20	document 17:11	<b>doubt</b> 68:10
198:14 200:24	84:16 124:22	documents	doubts 116:15
234:22	152:4,7 182:12 267:17 275:21	17:7,9,12	<b>Dow</b> 77:16
directly 19:6 75:4	299:13 301:7	Dodge 59:2	downsize 15:8
223:10 258:23 264:24	302:15	dollars 47:22	downstream
	diseases 152:16	48:13,19,21	131:14
director 12:11 15:25 25:12 80:7	159:8 181:21	77:24 87:17,19	Downtown 1:20
87:11 92:18	182:2,11,15	110:8,11 126:12	
124:17 145:21	237:24 247:9,10	155:7 163:2 169:4 174:4	dozen 29:7 88:21 105:13
165:2 205:14	275:12	178:24 179:23	
227:21 235:16	288:20,21	193:8 224:8	<b>Dr</b> 53:18,20 87:11 151:25 210:20
261:18	disgrace 29:15	225:3 247:22	
directors 25:4	disincentives 62:2	251:18 254:18	draft
dirtiest 28:3,12	dislocation 27:18	265:4 269:21	17:15,18,23,24 19:25
dirty 133:5 152:16	dismiss 219:17	domestic 38:21	dramatic 43:13
disadvantage	disobedience	47:10 147:19	242:25
304:6	271:10	174:3 249:2 280:5	
disagree 278:24	disparaging		<b>dramatically</b> 46:9 54:19 156:9
disappointed	155:18	domestically 237:21	216:12
125:2	disparities		draw 63:22 113:15
disapproved	243:5,10	dominate 98:3	
155:23	dispatchers	dominated 168:18	drawing 113:13
disaster 27:17	261:22	<b>donate</b> 227:17	drill 175:8
114:17 200:7	disproportionate	293:12	<b>drilling</b> 28:2 55:14
246:16	38:11 237:9	done 105:4 124:4	251:7,11
disasters 117:22	disproportionatel	132:25 142:5	<b>drink</b> 268:17
233:2 246:12	v 76:9	162:5 213:5 267:9 271:6	drive 43:25 44:2,4
251:12	disrespect 236:15	284:17 303:14	86:3 111:16,22
273:8,12,15	disruptions 87:21	door 93:23 188:10	142:25 143:2,5
275:25	-	195:11	155:25 199:16 217:12 219:11
disclosure 245:2	<b>distribution</b> 38:9,14 39:3	203:15,16	248:18 299:23
disconnect 176:15	, and the second	doors 300:24	304:9
discount 221:24	<b>district</b> 76:8 85:23 150:22	Dorothea 5:21	driven 44:4 51:16
224:9		120:25	95:6 244:7,9
discouraged 62:10	dividends 147:5	<b>Dorsha</b> 7:20	262:21,23
discussed 117:14	divine 238:7	188:3,5	293:11
222:3 223:14	<b>Division</b> 16:2,23	doses 254:25	driver 262:23
259:25	30:9 257:3		264:6,14,18
discussing 21:9	281:17	<b>DOT</b> 291:12	drivers 103:6
256:6	docket 19:10	double 126:6	110:20 223:4
discussion 63:14	24:17 25:15	132:23 216:20 219:20 286:21	263:24 264:2 304:9
121:9 223:17	doctor 188:12,19		
292:14	300:6	<b>doubled</b> 89:18 178:23	driver's 264:16
discussions 22:5	doctor's 56:10	170.23	driving 45:25

	- Capital Repor		
77:8,21 87:16	145:3 161:12,13	253:5	64:17,21
89:22 90:23	171:2 209:6		65:2,10,14
103:15 119:19	256:25 257:3	eats 253:5	66:3,15 67:16,22
130:21 133:2	278:18 295:22	<b>echoed</b> 236:19	68:11 73:16
136:3,5 142:20	dust 188:8 284:21	eco 27:21 251:11	76:25 77:20
145:3 151:6			78:17 81:5 86:11
199:24 202:20	<b>duties</b> 227:10	eco-friendly 75:2	87:18 88:17,25
263:23	duty 45:25 47:9	ecological 114:16	92:11,23 93:11
264:11,13	237:2 267:13	239:4	94:11,19,22
293:15,22	dying 159:22,23	economic 26:21	95:19
296:23 299:8	301:6	27:18 29:22	96:5,12,14,25
302:24 303:4		38:22 48:24	97:15,18,19
drop 226:22	<b>dynamics</b> 77:19,24	69:22 99:21	98:25 99:22
243:16 295:21		109:13	102:14 105:18
	E	110:14,24	109:3,17 110:21
drop-in 104:7	ear 26:11	114:16 186:24	112:17 118:5
209:3	earlier 15:11	199:11 211:21	119:6 133:25
drops 53:13	41:16,19,23	213:13 220:23	136:10 138:3
drought 182:7	52:25 53:8	223:21 233:3	147:21 148:17
275:3 302:21	160:14 175:23	242:10 246:18	161:8 165:15,25
drought-induced	224:5 253:24	259:16 263:20	166:10,15
26:2	259:2	287:8,15	167:3,7
	early 60:2 77:14	economically	168:7,15,20
droughts	107:15 135:24	70:24 196:17	169:2 177:7,19
116:8,10,13	152:11 289:25	254:19 263:25	178:2,8 184:6
181:20 273:8		303:9	185:19,22,23 187:5,11,22
drove 243:3	<b>earned</b> 264:23	economically-	193:12 208:15
293:14,17	earning 264:19	sensible 100:3	210:7,11
drugs 123:4	earth 113:14 114:7		210.7,11
dry-clutch 59:3	116:23	economics 88:7 153:6 194:23	213:10,16
	164:3,13,19	220:14,15	214:11,25
dual 59:3 207:25	181:4 192:11	234:15	217:3,18 218:6
due	232:24 233:16	239:15,18	219:9 225:10
38:8,15,17,21,24	234:10 236:7,17	ĺ	226:4 228:5
39:2 67:14	238:4,11 246:13	Economies 223:24	240:21 242:16
122:15 196:5	268:7,12 273:21	economist 244:15	243:6,7,19,21
207:19 208:8	earthquakes	economy 1:3,19	244:3,9,18 250:2
215:18 237:24	232:25	13:6,12 16:18,22	251:20
266:16 288:19	earth's	17:5,17,19	252:15,23
<b>Duke</b> 64:2	238:10,16,22,23	21:7,16,20,23	255:20 257:20
duly 305:7		22:20 26:20	263:25 264:25
	easier 225:18	30:7,15 31:5	265:21 267:21
<b>DuPont</b> 5:12	<b>easily</b> 167:17	32:11 33:5,12,25	268:8 269:14
98:18,21 99:3	East 46:7 161:21	34:24 35:11	279:14 286:21
101:18 102:11	173:7 269:19	37:11 47:20	287:11 290:8,15
103:2,14,19	273:9 294:8	48:14,20 51:24	economy-wide
durable 105:22		56:13 57:20,23	26:23
221:23	<b>Eastern</b> 131:19 289:21 298:24	58:13,16 59:11	ecosystems 288:14
duration 19:17		61:14,17,20	289:9,17
during 18:23 19:8	eat 114:2,3 204:10	62:15 63:6	Ź
uuring 10.23 19.8			<b>Eden</b> 113:19

	eaptai nepoi	0 1 - 1	
114:11 252:6	96:13	218:10 222:6	111:16
	100:5,14,20	233:21 235:3	119:17,18
educate 123:14	101:17 102:9	239:24 240:11	127:17,10
141:7 221:15	103:13,20	245:19 249:8,14	156:17,19
235:20	103:15,20	260:23	166:24 177:9
educated 64:14	104.10		184:16
122:24	110:4,25 119:8	efficiently 97:3	229:3,11,21,23
	120:5,11 122:23	143:2	230:6 231:13
education 122:19	,	effort 21:4 63:9	249:3 294:3
192:7 229:10	125:15 126:6,9	67:10 74:9 110:3	249.3 294.3
302:2	128:4,8,12,23	150:18 207:10	electricity 55:10
educational 199:9	130:16 132:23	288:9	72:20 74:8 79:10
educator 192:6,8	136:13 139:13		102:20 119:21
302:2	144:23 146:5,7	efforts 21:11 30:18	156:18 184:9
	147:4,10 149:15	35:21 59:7 60:8	electronic 99:7
Edward 6:9	166:19 167:15	78:6 79:23 97:5	
130:8,9 261:13	168:24 175:9	112:14 214:2	element 243:19
270:11	180:25 183:2	260:20 296:6	262:3
Edwards 10:10	184:19	<b>Egypt</b> 114:25	elements 35:15
270:12,13	185:12,20 186:7		221:8 261:25
	187:8,20 193:25	eight 145:2 165:17	
effect 51:24	196:4 198:12	200:12 224:22	eliminate 23:3
122:17,18,21	200:4,21 201:7	eight-speed 58:25	65:22 132:2
181:3 225:10	202:6 203:25	0 1	206:15 298:23
269:8 290:23	206:12,17	EIS 17:18,23,24	eliminated 121:25
effective 59:15	207:14 218:2	19:25 20:6	132:6 289:14
144:24 221:9	219:21	either 113:23	
240:5 287:3	221:15,21	133:3 273:11	eliminating 109:22
	222:15 225:17	elaborate 53:3	elites 242:12
effectively 100:20	232:14 235:24		Elling 7:12
104:16 126:6	248:15 253:12	elaborating 79:20	163:22,23
209:17 211:24	263:22 265:7	<b>Elantra</b> 21:19 65:4	
221:23 245:20	266:11,18	67:13,17,24,25	else 156:2 165:12
275:13	268:25 271:20	elastomers 102:10	243:16 284:13
effectiveness 137:8	274:8,16,21		else's 86:24
295:4	283:21 287:2	elderly 84:15	elsewhere 45:13
effects 73:12 74:2	290:24 295:14	181:17 182:13	
126:11 159:25	296:2 301:16	elected 149:24	Elwell 281:10
160:2 182:6	efficiency-	election 278:21	embargo 172:21
211:22 213:18	·	284:2	embrace 29:18
272:10 274:25	boosting 102:12		158:16
303:2	efficient 28:16	electric 23:15	
	68:11 72:2	31:11,13 42:23	embraced 158:4
efficacy 42:10	77:19,24 78:14	43:12,16,18,21,2	emergency 163:8
efficiencies 173:14	90:8 101:15	2,25	~ ·
208:14	110:12 125:24	44:2,12,20,21	emergent
	143:23 149:12	45:11,14,22	174:12,16
efficiency 21:11	166:3 168:3,7	46:11 48:3 54:20	emerging 144:21
23:17,20 25:17	169:5 177:16	55:8 59:6,8	<b>Emily</b> 214:18
29:19 31:3,25	184:3 193:6	71:4,5,18 72:22	228:21 231:16
32:19 58:22	199:20	73:7 102:18,24	
63:16 69:4 77:8	204:19,22	103:10	emission 16:18
78:2 79:9 91:6	215:23 216:25	106:20,22	23:23 25:17
	<u> </u>	ŕ	

39:19 72:20	299:15	151:9 213:14	207:14 208:3
78:16,21		225:8 226:7	209:21 213:3
	<b>emit</b> 119:18 127:6	274:15 291:24	
83:21,25 98:25	148:18 162:9	274.13 291.24	216:23 218:15
106:24 119:20	248:8	encouraged	221:14,25
216:24 267:22	omitted 27:14	212:25 271:19	222:4,6 223:9
276:11 287:11	emitted 37:14		228:6,8 232:22
288:7 289:13	emotional 182:16	encourages 42:8	246:7 251:15
290:16	236:19	54:3	252:15 253:7
emissions 13:5,15	omen odle i zo 154.15	encouraging 30:15	257:20 258:14
	empathize 154:15	70:11 224:17	274:16 275:18
28:19,21	emphasis 65:14	226:3 233:10	276:3,4
29:8,14,19	167:6		287:6,7,9 288:13
31:6,21	amen h a sima 70.4	endanger 267:14	290:24
37:10,14,16,19,2	emphasize 79:4	endangering	
0,22 38:2,8,9,13	84:7	214:7	energy-using
39:2 41:16	emphasized		221:23
44:15,19 45:21	300:12	endeavor 183:14	enforce 19:17
50:16 54:22		endorse 146:5	
62:15 70:2,13,16	emphatic 88:3	253:12	enforced 303:8
72:12,22	emphysema		enforcement 304:3
73:7,9,24	153:15	endorsed 133:23	
74:3,10 77:20	omnivical 225.6	endorses 58:17	engage 55:16
79:14,15	empirical 225:6		93:10,11 258:13
81:4,9,15,19	<b>employ</b> 205:20	endowed 238:24	engaged 226:13
83:8 101:13	249:5	enemies 227:14	
	employed 128:7	258:24	engagement 112:7
105:19 108:8	193:20	<b>enemy</b> 149:7	<b>engine</b> 39:21 59:3
109:23			65:23 66:3
118:16,25	employees 185:18	Energain 102:21	105:24 167:16
119:17,24	187:15 296:11	103:2	177:18 206:12
125:14 126:14	empower 97:17	energies 207:17	
132:8 133:24	_	Ŭ.	<b>engineer</b> 179:16
135:16	Emtithal 281:12	energy 22:11	193:15
136:10,20,21	<b>enable</b> 91:10 97:20	28:21 31:15	engineering 30:9
137:6,10,19	102:17 107:25	32:16 43:7,23	76:20 93:2
138:6 139:16	206:20 219:11	44:9 47:10,14,18	210:14 211:21
140:4 150:25		48:8 49:4 59:7	
162:16	enabled 171:14	68:20 73:18 74:8	<b>engineers</b> 107:8
182:10,18 183:9	enables 30:22	79:11 98:5	167:20 180:2,6
190:9 194:8		100:5,7 102:19	engines 45:23
200:15 206:15	enabling 88:5	104:9 106:16	89:15 148:18
208:8,9,12 210:7	<b>enact</b> 50:6 51:17	109:3 123:25	260:23
212:19 216:10	185:21	130:11 133:6,14	
212.19 210.10 219:22 220:18		134:6,10 135:16	enhance 82:25
	enacting 226:10	145:5 146:12	103:13 135:14
224:22,24 225:4	encountered		enhanced 39:21
237:7,19 240:10	244:14	147:17,24 148:9	
245:9,13,23	ancountoring	149:10 170:7	enhancements
246:5 248:4,11	encountering	172:22 173:3	67:21 136:13
250:2,6 263:17	171:8	174:8 183:13	<b>enjoy</b> 76:10
266:15,23	encourage 35:23	184:4,18 187:7	113:23 200:16
267:18 268:6	56:19 57:2 59:25	197:12,18 201:9	236:16
282:7 287:25	70:24 74:14	202:21 204:19	
289:15 290:9,25	82:11 97:21,24	205:18 206:17	enjoying 164:19

	- Capital Repor		
enormous 28:16	192:20 199:11	223:23	25:1 26:1 27:1
86:4 113:22	201:11 209:21		28:1 29:1 30:1
114:13 144:14	211:8 213:25	environmentally-	31:1 32:1 33:1
153:18	215:15 217:3	sensitive 251:8	34:1 35:1 36:1
	232:19	envisioned 39:18	37:1 38:1 39:1
enriched 250:11	234:12,23	40:18 105:8	40:1 41:1 42:1
ensure 14:6 24:13	234.12,23	onzwmos 102.10	43:1 44:1 45:1
25:19 32:4 34:14	236:10,20	enzymes 103:19	46:1 47:1 48:1
40:17 42:7 47:18	244:17 247:19	<b>EPA</b> 2:4 14:12	49:1 50:1 51:1
73:13 74:3 76:2	257:25 263:4	15:23 17:6 21:20	52:1 53:1 54:1
79:24 119:11		22:24 23:5 25:16	55:1 56:1 57:1
126:15	265:21 272:4	29:13 30:18 34:6	
128:15,24 173:8	274:4 288:24	35:4 37:4,8 39:8	58:1 59:1 60:1
213:5,15	289:3 293:20	40:2,17,20,24	61:1 62:1 63:1
218:8,21 254:10	environmental	41:6,10 42:6,8	64:1 65:1 66:1
·	4:15 11:11 12:13	49:14,23	67:1 68:1 69:1
ensuring 107:24	17:16,18 25:2,3	57:19,23 65:2,9	70:1 71:1 72:1
169:25	38:12 49:20,21	70:11,25 71:4,11	73:1 74:1,9 75:1
entanglement	50:11 54:7 68:20	73:11 74:14	76:1 77:1 78:1
51:18,21	69:12,23 73:4	77:11 78:5 79:17	79:1 80:1 81:1
,	75:24 80:8,24	82:12 83:19	82:1 83:1 84:1
entangling 51:7	100:6 105:23	96:23 98:6,22	85:1 86:1 87:1
enter 249:4	108:25 109:6	99:17 100:13	88:1 89:1 90:1
entered 207:5	110:23	104:14 112:23	91:1 92:1 93:1
	117:11,22	116:17 125:9,17	94:1 95:1 96:1
entering 265:11	119:13 120:20	127:21,25	97:1 98:1 99:1
enthusiastic	124:18 125:11	128:2,7,14,17,20	100:1 101:1
274:12	126:23	137:7,19 138:18	102:1 103:1
ontino 50.16	134:5,7,10 137:4	148:13 161:10	104:1 105:1
entire 50:16	143:16 147:8,24	162:23	106:1 107:1
118:20 152:5	159:2 164:18	163:11,17	108:1 109:1
208:6 212:5	169:3 192:8,22	175:12 181:9,13	110:1 111:1
216:7,21 248:19	202:9,10 205:19	206:3,5,13	112:1 113:1
275:7 287:14	220:15,17	207:15	114:1 115:1
entirely 36:4	225:23 235:17	207:13	116:1 117:1
entitled 169:24	239:18,21	210:15 214:3	118:1 119:1
	241:19 252:2	224:6 226:7	120:1 121:1
entrepreneurs	266:8 281:18,19	228:16 235:5,9	122:1 123:1
186:19	285:25	245:17 249:17	124:1 125:1
enumerate 213:12	286:14,15	267:2 268:2	126:1 127:1
environment 5:20	290:10 297:8	277:6 279:3	128:1 129:1
22:10 30:8 37:2		283:22 284:8	130:1 131:1
44:22 56:5 92:12	environmental-	291:13 293:3	132:1 133:1
105:22 112:18	friendly 207:8	291:13 293:3	134:1 135:1
115:18	environmentalist	294.23 293.7	136:1 137:1
117:9,10,12,15	202:16 203:3,5,7	301:9	138:1 139:1
117.9,10,12,13	225:15		140:1 141:1
133:14 139:17	environmentalists	EPA/NHTSA	142:1 143:1
140:14 145:24		1:2,18,22 12:1	144:1 145:1
	86:22 126:20	13:1 14:1 15:1	146:1 147:1
147:14 149:3,10	247:15	16:1 17:1 18:1	148:1 149:1
158:24 159:2	environmentally	19:1 20:1 21:1	150:1 151:1
174:16 191:3	55:15 205:22	22:1 23:1 24:1	152:1 153:1
	<u> </u>		104.1 100.1

	<u> </u>	ing company	
154:1 155:1	258:1 259:1	errands 56:23	280:3,5,8,10
156:1 157:1	260:1 261:1	296:23	298:11
158:1 159:1	262:1 263:1		
		escaping 203:21	<b>EV</b> 46:13 106:23
160:1 161:1	264:1 265:1	especially 28:12	229:3,8 230:8
162:1 163:1	266:1 267:1		avaluata 41.2 6
164:1 165:1	268:1 269:1	66:2 94:15	evaluate 41:3,6
166:1 167:1	270:1 271:1	121:15 122:5	73:11 74:5
168:1 169:1	272:1 273:1	135:3 161:12,16	128:14
170:1 171:1	274:1 275:1	163:19 167:9	evaluated 35:21
172:1 173:1	276:1 277:1	282:21,23 289:8	118:8
174:1 175:1	278:1 279:1	essential 34:13	
176:1 177:1	280:1 281:1	136:16 186:23	evaluation
178:1 179:1	282:1 283:1	294:9 303:4,17	34:2,5,13,18
180:1 181:1	284:1 285:1	ŕ	41:2 218:20
		essentially 198:25	evening 230:14
182:1 183:1	286:1 287:1	establish 13:5	Ü
184:1 185:1	288:1 289:1		<b>event</b> 277:7
186:1 187:1	290:1 291:1	111:17	event-related
188:1 189:1	292:1 293:1	established 35:25	181:21
190:1 191:1	294:1 295:1	47:25 78:7 128:9	
192:1 193:1	296:1 297:1	293:4	events 25:25
194:1 195:1	298:1 299:1	Establishing	237:25
196:1 197:1	300:1 301:1	Establishing	246:12,17
198:1 199:1	302:1 303:1	303:12	288:21
200:1 201:1	304:1	establishment	eventual 242:11
202:1 203:1		33:14	
204:1 205:1	EPA's 72:15		everybody 86:24
206:1 207:1	73:8,15 74:5	estimate 223:4	157:13 165:12
208:1 209:1	125:16 126:4	224:10	168:5 177:14
210:1 211:1	128:11 140:3	estimated 27:11	178:8 191:21
	149:15 220:20	29:2 37:23 54:16	197:20 204:16
212:1 213:1	266:10,24	71:12 110:5	286:6
214:1 215:1	epidemic 153:10	148:14 186:22	
216:1 217:1	_	190:15 223:7,24	everyone 16:11
218:1 219:1	<b>equal</b> 158:6	224:20,24 233:4	18:6,20 84:4
220:1 221:1	243:16 266:19	266:22	93:22 159:21,24
222:1 223:1	equip 235:20		160:23 228:20
224:1 225:1	1 1	estimates 128:11	231:21 244:19
226:1 227:1	equipment 133:17	224:6 241:18,23	265:6 283:16
228:1 229:1	208:24	249:9	293:20 298:17
230:1 231:1	equipped 41:14	estimation 299:6	everyone's 94:3
232:1 233:1	62:6		163:18
234:1 235:1		ethanol 103:23	
236:1 237:1	equitable 60:18	104:5	everything 85:20
238:1 239:1	62:6	<b>ethic</b> 239:5	141:4 196:7
240:1 241:1	equivalent 13:9,10		203:15 284:16
240.1 241.1 242:1 243:1	29:3 216:6,15	Ethical 121:4	evidence 19:13
	ĺ ,	EU 279:24	25:23 45:18
244:1 245:1	Erlich 11:6 280:20		
246:1 247:1	281:14 283:6	Europe 58:17	111:9 211:17,19
248:1 249:1	erode 119:13	176:22 200:12	evident 233:20
250:1 251:1	218:17	247:3	EVs 71:9,15 72:16
252:1 253:1		European 207:7	· ·
254:1 255:1	<b>eroded</b> 240:21	266:21	exacerbations
256:1 257:1			

254:11	257:24	experts 148:21	184:5,24
exactly 44:20 105:6	<b>existence</b> 34:17 236:8 267:20	<b>explain</b> 187:10 188:19	extraordinary 12:23
exaggerated 241:20 examine 222:8	existing 90:10 111:18 144:18 197:15 289:16 exists 26:14 111:9	explicative 248:15 exploit 218:17 exploitation	extreme 25:25 27:15 122:6 181:19 266:16 269:6 288:20
example 15:7 23:14 33:20 43:20 54:13	122:14 expand 70:2	282:20 <b>exploited</b> 198:24 215:12	<b>extremely</b> 134:19 182:25 297:25
65:20 68:3 96:4 97:12 111:11	185:17 187:14 206:14	exploration 55:14	<b>eye</b> 54:16
131:7 173:10 218:20 219:5	expanding 23:16	explore 98:7	<u>F</u>
266:21 299:18 302:14	<b>expansion</b> 106:12 258:3	export 155:15 exporting 156:15	face 105:10 218:5 219:10 222:15 294:22 303:24
<b>examples</b> 101:3 272:14	<b>expect</b> 15:20 77:22 248:23 264:8	<b>exposed</b> 84:17 129:19	faced 172:20 faces 50:12 114:6
exceed 13:9	expectations	exposure 84:8	
exceeded 207:12 excellent 77:9	107:13 expected 82:6	<b>express</b> 16:17 18:7 28:6 42:12 268:7	facilitate 72:6 facilitates 90:3
except 18:23 197:6	289:18	expressed 116:15	facilitating 49:15
excess 22:7 96:20	<b>expenditures</b> 110:18 221:25	121:16	facilities 38:14
	222:25	expressing 211:7	facility 31:20
excessive 148:9 excitement 77:8	<b>expense</b> 148:8 226:21 242:4	<b>expressway</b> 299:24	<b>facing</b> 171:10 172:6 199:3
exciting 111:19 159:13 202:24 204:2	expenses 123:24 187:6 217:17	extend 33:10 190:9	241:20 244:4 <b>fact</b> 40:8 66:18 91:2 94:7 112:2
<b>excluded</b> 277:4 278:4	<b>expensive</b> 115:12 293:23	extended 15:18 18:3 51:23 extending 134:22	130:20 131:4 143:18 172:19
excuse 49:11,24 excused 304:18	experience 82:17 121:21 122:8 123:9 170:16	147:5 <b>extension</b> 275:6	196:21 204:11,12 252:20
executive 25:12 124:17 235:16	171:18 172:2 190:19 229:10	<b>extensive</b> 137:14 286:19	factor 72:20,24 137:12 185:6
261:18	246:19 253:25 301:20	extent 27:21 40:13	factored 15:5
executives 76:24 exemptions 121:24	experienced 142:21 242:22	95:4 108:7,9 156:7 177:2 198:23	<b>factories</b> 111:14 249:5
183:5 exercise 113:25	273:11 <b>experiences</b> 257:8	external 79:2 267:24	<b>factors</b> 33:3,8 34:8 61:5 79:2 206:19
exhaust	experiencing	externalities	facts 146:25
129:15,19,23 152:16 162:16	190:24	239:22	<b>failed</b> 54:25
200:10 300:16	expert 290:9	extinct 289:13	114:14 243:11
exist 94:8 219:6	<b>expertise</b> 93:3 176:22	extra 167:2	<b>failing</b> 241:12 244:4

	Cupital Report	<u> </u>	
failure 221:5	farmer's 269:10	143:21 164:6,10	finalization
failures 26:2	farms 129:12	182:19,21 195:4	104:13 220:6
		202:17 225:15	244:21
fair 139:24 145:12	Farren 10:8	284:15 299:24	finalize 30:25
200:14,17	261:13	feels 246:22	83:22 112:6
293:19,20	268:21,22,23	275:24	175:13 215:9
303:18	fascinated 252:4		
<b>fairly</b> 35:22	fashion 88:10	Feeney 9:18	finalized 14:3
124:23 225:15		244:25 245:6	108:16 218:19
<b>fait</b> 232:11	fast 188:16 189:9	feet 233:18	288:3
	191:6 252:25	fellow 259:21	<b>finally</b> 24:4 28:17
faith 9:15 141:14	253:5	270:8	42:6 52:3 55:13
142:2 144:7	fastest 37:15		61:23 84:3 91:18
163:24	fatalities 242:21	felt 142:15	108:3 138:7
235:17,19 237:8		fever 182:2	180:12 233:11
273:20	<b>father</b> 63:3 143:13	fewer 118:15	245:8 246:4
faith-based 232:5	211:6 212:16	122:13 148:15	247:13
235:19	213:4,14	208:12 225:16	finance 95:18
Faith's 235:23	<b>favor</b> 26:12 86:13	251:8 263:14	217:14 242:3
	180:24 186:25		
fall 96:6 153:15	202:5 299:16	<b>Fiat</b> 58:16,21 59:6	financed 95:13
157:18 297:20	favorable 208:5	<b>field</b> 123:13 168:6	259:24
<b>fallen</b> 295:18	238:2	303:19	financial 75:16
falling 84:19		fields 171:20 190:5	222:19 265:13
	favorite 190:23	256:22	financing 95:22
false 20:11,12	fear 162:17 213:4		258:18
familial 238:17	254:22 266:13	<b>fifth</b> 91:4 249:6	
familiar 289:10	268:5 304:5	<b>fight</b> 80:16 141:5	<b>finding</b> 143:24
	<b>feasible</b> 21:6 24:8	171:15 218:11	271:2 303:23
families 75:5	63:10 70:24	226:15 251:19	<b>finds</b> 241:21
109:11 158:6	112:15 212:2,16	297:10	fine 38:8 81:21
163:3 194:22	223:18	fighting 80:20	84:8 124:14
196:22 251:17		227:20,22	197:18
254:3 260:13	feature 55:24	228:12 239:2	
284:4 287:17	<b>features</b> 15:4 32:2	257:11	<b>finest</b> 131:18
294:7 295:18	February 15:16		finished 20:7
296:3	18:3	<b>figure</b> 200:19	285:8
family 75:15 85:2		259:9	<b>finite</b> 174:18
106:3 151:8	federal 14:8	figures 21:24	252:19,20,22
158:5 188:7	105:12 117:8	figuring 257:25	´ ´
193:14	126:24 186:21		<b>fires</b> 116:8
194:11,21	216:22 220:2	<b>fill</b> 109:12	<b>firmly</b> 122:19
196:10 198:16	264:20 265:14	filtered 154:17	274:2
199:17 250:9	Federation 5:8	<b>filthy</b> 293:6	firms 187:9 222:4
famines 116:10	6:10 9:21 87:12	•	
	117:10 130:11	final 15:20 29:25	first 10:7 12:21
<b>fan</b> 51:10	250:4	34:11 42:7 59:19	14:2 15:12
fantastic 94:5	<b>feed</b> 55:8 144:5	62:18 82:12	16:20,22 19:19
<b>farm</b> 198:9 204:7		119:11 120:19	20:15 30:13
	feedback 63:22	151:3 205:11	31:13 39:8 49:23
farmers 198:10	feel 124:23 142:21	290:14	60:23 88:16
			93:13 95:11

	- Capital Repor		
109:4 113:19	73:25 75:2 78:10	focus 23:20 31:13	foremost 93:13
115:5,9 119:15	81:23 94:11	81:9 96:11 278:8	foresee 96:13
120:2 128:9	104:17 107:6	303:23 304:4	foresight 132:7
142:14,15 154:8	108:10 110:13	focused 279:13	206:6
172:21 200:5	149:25 166:21	focuses 182:3	
211:3 221:9,18,19	180:7 184:15 240:11,15		Forester 195:12
227:7,23	243:10 255:21	<b>focusing</b> 23:14 241:10	196:16
236:7,24 257:3	262:15,24		forestry 302:19
265:25 268:15	263:2,13,17	folks 76:8 86:23	forests 289:5
272:25 274:24	265:4,11,19	<b>food</b> 26:5 148:24	forever 174:19
289:6 293:12	280:2,5,6,11	182:4,8 184:22	form 95:2 168:19
295:10 297:3	287:3,23	198:11 204:12	195:20 238:15
299:17 303:16	<b>fleets</b> 23:13	foodborne 247:9	264:25
<b>first-generation</b> 104:5	fleet-wide 21:23	football 260:4	<b>formal</b> 19:13
	40:3 71:12,21	<b>footprint</b> 105:23	<b>format</b> 22:23
<b>firsthand</b> 65:17 67:12 129:10	Fletcher 9:14	127:9 128:4 208:6 219:7	formation 83:2
142:22	235:16	243:6	<b>formed</b> 261:18
fish 131:4,21	<b>flexibilities</b> 22:12 23:11 108:4,7,11	footprint-based	<b>former</b> 51:19
<b>fished</b> 130:14	194:3	168:23	55:20 198:22
		<b>Forbes</b> 146:16	227:21 256:10
fisheries 289:17	flexibility 71:24 82:18 90:11		299:3,12
fisherman 130:13	134:12 135:11	force 48:4 64:15	forms 116:23
Fishery 131:24	136:12,15 137:3	94:8 171:15	138:19 197:12
<b>fishing</b> 130:17	138:4 139:3	forces 47:25	formula 241:13
131:8 298:18	209:24	170:24 173:6	
302:19	<b>flip</b> 146:20	174:13 226:16 227:9	<b>forth</b> 114:7 120:18 305:7
<b>fit</b> 100:11	floating 131:14	Ford 3:14 30:9	
five 18:13,15	flood 272:18	31:13 32:24	<b>fortunate</b> 63:21 254:9
27:12		34:18 92:21,25	fortunately 117:25
39:10,13,15	flooding 26:3	93:23 176:9	193:20 277:18
40:10 41:9	232:25	178:9,11 262:8	
70:18,19,21 89:5 115:15 145:2	<b>floods</b> 116:9 181:19	294:10	forum 143:17
167:4,13 172:10	273:11,14	Ford's 178:14	forward 29:21 30:21 36:13
186:14 190:10	floor 157:4	forecast 130:25	52:15 62:16 72:8
231:5 255:6		forecasts 207:20	75:25 76:15
five-minute 63:3	Flourine 205:15	forego 73:6 218:24	79:25 83:20
	flourish 251:22		104:14 108:15
<b>fixed</b> 299:3	flow 244:6 269:23	foreign 49:2	112:7 138:17
flagship 58:23	289:21	110:10 111:24 113:9 126:3,15	139:4 158:16
65:21	flows 173:12	144:14 147:20	161:10 163:17
flare-ups 152:18	fluctuates 185:2	148:16 153:7	178:25 179:14 184:16 194:14
fleet 14:7 22:4		155:12,22 173:2	218:22 219:20
28:15 31:7 39:20	Flynn 9:8 214:18	201:13 231:3,7,9	220:6 226:17
40:14 41:5 48:7	225:21,22 226:5 256:11	233:13 234:16	234:3 246:4
58:22 64:25 72:5	430.11	246:5 247:18,25	260:24 277:8
	l		

	eaptai nepoi	0 1 7	
280:20 282:13	France 2:6 15:25	17:5,17,19	9,23 167:3,7,15
294:5 299:19	franchise 227:18	21:7,16,20,23	168:6,7,15,25
forward-thinking		22:20 23:17,20	169:5,6 171:23
261:24	Francis 231:22	26:18 28:14	173:11,16
	234:24	29:19 30:7,14	174:22 176:5
fossil 28:14 54:4	Franciscan 232:11	31:3,5,25	177:7,16,18
133:5 147:2	Francisco 15:14	32:11,18	178:2,8 180:24
155:11,15	25:13	33:4,12,21,22	182:25
164:5,7 199:6,10 200:16,19		34:24 35:11	184:19,21,23
213:19 214:5	frankly 42:25 132:16 143:18	37:11 38:2,21,22	185:3,20,23
232:23 239:22	228:10	39:2 41:21 49:5	186:7,12,25
240:6 242:9		54:4,21 57:20,23	187:4,5,11,13,18
243:21	free 47:4,11,16	58:13,16,22	,20 196:3 198:12
252:14,16,18	51:4 119:20	59:11 61:16,20	199:6,10,19
256:2 258:13	144:8 238:9	62:14 63:6,16	200:4,21 201:7
269:3 271:22	295:2	64:17,21	202:6 203:25
276:6	Freedman 294:15	65:2,9,14	204:22 206:17
	freedom 169:25	66:3,15 67:16,22	208:9,12,15
foster 144:20	191:11 241:11	68:11,18 69:4,25 70:5,6,13	210:7 214:5,24 215:23 217:17
fought 269:19	258:5 286:24	70.3,6,13	213.23 217.17 218:2 219:9,21
<b>foul</b> 300:21	299:16	74:8,10 76:25	221:21 225:17
foundation 107:4		77:20 78:17 81:4	226:4,15,20,22,2
	Freeing 251:15	83:21 88:17,25	3 232:14 235:24
foundational	frequent 246:11	90:8 91:6,8	239:22,23
59:20,22	frequently 25:25	92:23 93:11	240:11,20
foundation's	155:12 157:2	94:11,18,22	241:25 242:16
263:9	fresh 34:6 140:9	95:2,6,19	243:6,7,19,21
founded 80:15		96:4,12,13,14,25	244:2,9
	freshman 281:5	97:15,18 98:25	248:15,20
<b>four-cylinder</b> 66:3	friend 51:19 85:2	99:22 101:16	249:14 250:2
89:15 178:12	152:24 260:3	102:9,14	251:20 253:12
four-liter 59:2	284:15 285:5	103:13,14,22	255:20 263:22
four-state 80:11	friendly 90:3	104:16 105:18	264:8,11 265:7
<b>fourth</b> 90:17 170:4	· ·	106:21,25	266:11,18
192:6	friends 45:6,7 200:2 227:2	107:11,22	268:25 271:19
	250:9 257:10	109:9,17,21	274:8 276:6
four-wheel 219:10	269:18 270:4	110:17,25 111:5	283:21 286:21
fracking 282:17		112:4 119:8	287:11,18,20
fraction 73:22	frighten 159:25	120:11 122:23	290:8,15 295:14
83:14	front 45:24 46:2	125:14 126:6,9	296:2 301:16
	188:10 304:10	128:3,8,12,23	fueleconomy.gov
fragile 232:24	frozen 291:7	130:16	97:2
271:6		132:13,23 133:25 135:8	fuel-efficient
frame 13:24 24:10	fruit 268:16	136:10 138:3,10	21:14 23:13
33:11,17 41:3	fruition 33:19	130:10 136:3,10	64:22 65:10,23
63:3 73:5 240:24	Fry 281:8	147:21 148:18	68:9,24 78:18
303:22	fuel 1:3,19	149:15 150:2	88:4 89:23 111:7
framework 30:22	13:6,11,20	151:7 161:8	119:5 128:19
59:21	16:18,22	165:7,14,25	133:6 141:6
	10.10,22	166:3,10,11,14,1	156:17 167:10
		100.0,10,11,11,1	

	Capital Report	0 1 7	
178:4 179:15	29:22 61:7	132:24 154:7	105:18
180:8 199:22	212:10 257:21	166:21 175:14	109:12,15,18,22
204:15 205:3	273:22	179:9,11,12,22	111:23
220:25		190:20 192:15	112:10,24
	<b>funded</b> 220:20		7
240:12,14	260:7	195:10,12	118:8,18 119:3
242:14 262:16	funding 51:8	196:17,20 201:8	125:14
264:20 265:3,19	155:23 244:3,11	226:11 227:25	126:12,13
296:5 303:11	, and the second	230:22,24	132:14 133:24
fueling 21:11	Fuqua 64:2	263:23 264:4,10	138:2,6 140:4
228:2	furthering 256:8	293:16 294:2	150:5 166:17,25
	J	gallons 75:20	167:5,8,9 171:23
fuel-related 138:7	Furthermore	118:15,24	175:15
fuel-rich 200:17	111:4 227:13	132:17 186:16	185:5,8,9,13
fuels 36:19 48:5	246:25	193:5 226:20	190:5,9 193:7
70:3 107:24	<b>Fusion</b> 31:17	233:7	203:23 210:7
	178:11		214:24 216:24
133:5 147:3		game 54:6 198:25	218:3,5 219:21
155:11,15	future 30:23	<b>gaming</b> 219:13	222:15 228:3
164:5,8 170:12	33:7,16 36:14	240:24	237:18 240:4,9
171:14 174:12	43:10,22 44:8,13		245:9,13,23
200:19 213:19	45:10,19 46:16	gap 219:5,9	248:4,22,24
232:23 240:6	47:19 54:7,21	garages 55:4	250:5 264:3
242:9	55:5 57:6	<b>Garden</b> 113:19	266:14 267:22
252:14,17,18	60:14,18 107:11		268:6 270:4
256:2 258:13	134:23	114:11 252:6	287:24 290:9,24
269:3 271:22	137:12,20 142:8	282:2	291:5 293:23
fuel-saving 166:4	150:16 167:24	gardener 274:24	291.3 293.23 299:7
1	168:17 178:3	Garelik 10:12	
fulfill 111:20	180:9 192:17	261:14	gases 1:3,18 29:11
<b>full</b> 35:2,13 40:18	193:2 201:20	274:10,11	44:18 61:20
119:25 134:14	204:18 213:16	ŕ	82:23 148:5,21
140:7 189:3,4	214:11 222:9	<b>Gary</b> 4:10	206:16 211:12
198:23 207:4	228:15 233:13	57:14,15	212:20 214:6
216:17 217:4	238:7 246:8	gas 13:5,15 16:18	221:2 224:11
230:8,12 245:2	251:15 268:13	17:4 21:7 22:21	240:9 267:6
full-line 32:8	272:2 274:9,19	23:24 26:18	271:8,14 298:7
	278:14,25	28:19 29:14	gas-guzzling 191:6
<b>fully</b> 91:20 119:16	279:17 284:5	30:8,14 31:6	8 8 8
184:19 238:5	301:14	37:10,13,16,18,2	gasoline 13:22
265:3		2,25 50:16,20	23:21 38:9,14,19
<b>fumes</b> 157:19	G	51:14,22	42:25 44:4,5
300:16		55:13,18 56:14	88:16,23 91:25
	<b>gab</b> 127:4	57:20,23 58:13	138:12 155:7
<b>function</b> 32:10	<b>gain</b> 301:20	59:11 61:17	177:17
166:13 244:7	gains 22:20 243:7	62:15 63:6,11	178:5,21,22
262:2		70:2,13 72:7	189:11,16
functionality	gallon 13:10	73:12,19,24	222:9,13,24
35:13 166:8	21:16,21,25	73.12,19,24 74:7,10	239:20 241:24
168:20	22:4,7 31:10	75:5,8,12 76:6	242:7 243:25
	39:20 40:4,15,16		244:6 299:2
Fund 11:11 159:2	48:9,23 54:17	77:2 78:16 81:3	300:18
286:14,15	58:24 89:4 96:21	89:9 98:24	
fundamental	107:7 109:22	101:12,21 104:4	gasping 157:18
L	-		

© 2012

	Capital Repor		
<b>Gayle</b> 281:4	191:8,11,17	207:14,23	268:13,14
geared 233:22	195:13,16	208:7,17 209:5,6	governing 105:18
general 16:4 81:13	233:17 250:8 254:16	211:9,18 212:8,23 213:9	government 1:22
92:24 96:17	234.10		20:8,25 32:23
100:16 108:6	GHG 223:13	215:17 216:3	44:24 47:12 57:5
	224:14	220:3 221:9	148:6
169:14 175:18	CHC 224.19	225:2 232:20,21	
178:9 182:15	GHGs 224:18	233:8 245:7,16	155:12,18,19,20
185:3 212:22	225:11	247:13	162:25 186:21
256:10 292:15	<b>giant</b> 26:9	252:15,23	200:5 213:15
generally 65:15		258:24 259:4,10	220:2 244:15
264:24 289:8	gift 127:4	269:7,11,12	247:14 259:24
	141:15,17	270:5 282:5	265:14 267:13
generals 170:19	Gili 8:7 202:3,5	288:9,11 294:15	274:16 283:22
generate 120:14	·	297:17 301:15	290:6 291:11
274:22	Giuliana 8:5		294:18
	201:3,4	<b>globally</b> 91:15,17	
generated 72:9	given 35:22 63:12	99:5 106:9	governmental
generation 31:16	66:2 164:20	205:21	238:17
72:23 73:7 79:10	176:22 200:8	globo 246:14 272:6	governments
125:20 128:18	225:2 242:8	<b>globe</b> 246:14 273:6	155:14,23
174:20 179:13	252:21 305:9	gluttonous 28:20	199:15
214:8 269:2		gluttony 253:9	
	gives 90:15 167:21		government's
291:8 293:5	<b>giving</b> 148:16	<b>GM</b> 176:10	21:15 23:25
297:11 298:4	158:23 163:15	go60.org 223:4	150:7
generations	180:6 194:10		governor 77:4
141:19 142:8		<b>goal</b> 31:20 40:7,16	116:14
144:25 149:8,11	219:14 225:16	54:25 72:3	
193:3 238:8	297:5	125:22 126:24	<b>grad</b> 51:11
250:19	Glacier 272:22	132:19 134:16	grade 192:6,7
	glad 56:5 98:12	148:6 207:12	,
Gensler 9:24	U	262:2 303:22	graduate 63:24
255:16,17,22	145:17		226:6 256:23
gentleman 176:8	<b>gladly</b> 87:13 141:7	goals 32:15 40:2	257:19 302:2
230:10 256:11	glaucoma 159:15	47:25 54:3 58:14	grain 103:20,22
		66:21 73:14	,
Gentlemen 169:13	glimmers 265:10	82:21 150:24	<b>gram</b> 42:5 72:16
225:22 255:18	global 6:12 72:13	169:3 240:23	grams 13:9 39:19
Georgetown 63:25	75:17 76:5 91:11	274:15 290:8	58:7 109:23
	98:18 101:6	Gobbling 118:8	126:5 266:23,25
geothermal 55:9	115:5,6,10	God 113:21	· ·
German 252:10	117:17,20		grandchildren
Germany 122:9	117:17,20	141:16 164:20	116:5 174:21
156:14	122:10,13 126:2	God's 236:17	201:15 271:24
	-	gone 179:12	272:2 292:18
<b>gets</b> 179:10	133:15,16,22		298:2
195:10,11	136:14 137:22	goodness 197:8	granddaughters
196:16	139:12 142:4	goods 99:7 217:20	292:22
230:8,11,25	148:22 153:5	221:23	
264:10	170:7 173:11		grandmother
getting 133:5	199:3,5	Gore 297:14	188:11 201:14
142:17 168:14	200:3,12,14	<b>gotten</b> 173:3	grandmothers
177:18	205:17 206:8	govern 149:24	285:21
1//.10		guvei II 147.24	

	<u> </u>	0 1 /	
grandparents	29:11,14 30:7,14	150:19,20	hacking 87:5
293:6	31:6 34:3	153:18 176:23	<b>Haley</b> 77:4
<b>grant</b> 111:16	37:10,13,16,18,2	279:7 290:11	half 43:4 77:24
granted 203:8,9,12	2,25 50:6,16,20 57:20,23 58:13	292:12	84:20 117:18
204:14 285:2	59:11 61:17,20	<b>groups</b> 84:13,20	175:14 179:21
grants 44:25	62:15 63:6,11	110:24 117:11	227:25 272:25
8	70:2,13 72:7	126:23 158:25 159:9 213:8	halve 219:21
grass 25:2	73:12,24 74:7,10	235:20 243:14	Hampshire 69:18
grateful 158:21	77:2 78:16 81:3		-
182:24 235:9	82:23 98:24	<b>grow</b> 137:21 184:6 185:24 191:4	hand 135:2 230:2 305:19
gratitude	101:12,21 104:3		
141:16,20	105:18 109:18,22	growing 37:15	handling 165:15
great 36:15 51:9	112:10 125:14	75:5 133:21 187:22 219:15	hands 227:14
65:14 66:11	126:13 132:8	275:3	Hanger 51:20
75:22 125:23	133:24 138:2,6	grown 63:19 65:24	Hansen 198:22
130:15 134:24 144:7 148:8	140:4 148:5,21	189:5 203:2	happen 89:12
160:2,11 180:10	190:9 206:16	277:19	133:3 285:15
216:22 236:2	210:7 211:12	growth 38:22	294:4
239:8 261:3	212:20 214:6,24	199:9 253:7	happened 116:8
272:22 284:12	216:24 218:3 219:21 220:18		
285:24 290:21	221:2 224:11	guarantee 112:16	happens 18:15
298:3,12 299:23	237:18 240:4,8,9	Guard 226:6	<b>happy</b> 85:14
greater 10:5 31:3	245:9,13,23	227:2	142:12 180:22
33:17 41:8,22	248:4 250:5	guarding 227:2	226:7 276:24 298:21
73:2,4 118:19	266:14	Guardsman 227:7	
138:22 155:16 163:13 185:17	267:6,18,22	guess 133:3 198:22	hard 27:24 68:8
193:7,24	268:6 271:8,14 287:24 290:9,24	guide 283:4	143:23 162:5 188:17 189:8
234:8,15,18	291:5 298:7	S	206:6
242:6,16 261:19	Greenland 272:23	<b>guilty</b> 190:17 202:18	hardest 264:22
276:14			
greatest 221:5	<b>Greg</b> 3:21	<b>Guine</b> 253:16,17,18	hardwood 289:9
287:5 300:15	grew 256:21	r r	harm 181:9
greatly 132:13	grid 55:8 119:22	<b>gulf</b> 27:15 114:11 117:23 216:21	243:14
206:2 289:14	171:24	227:17 287:14	<b>harmful</b> 126:13
greed 234:20	<b>griddle</b> 296:16		139:16 162:16
greedily 143:3	grid-lock 240:3	guy 91:8	243:22 246:5
	gross 174:2 267:24	guys 255:14 281:2	harmonized 21:6
green 5:16 9:15 112:2	S	guzzling 167:10	30:16 59:10
235:17,19,23	grossly 241:19	<b>GWP</b> 101:8	62:14 63:10 133:23
237:8 251:15	ground 82:2		
257:18 278:2,3,7	ground-breaking	Н	harms 237:5
282:4,22 284:6	106:4	habit 55:22	harm's 228:15
greenhouse 1:2,18	<b>group</b> 4:11 37:7	habitat 26:4	Harper 9:14
13:5,15 16:18	56:18,20 57:16	250:21	235:14,15,16
17:4 21:7 22:21	77:10,14 79:16	habits 252:12	Harrisburg
23:24 28:18	92:20 124:18		

	<del> </del>	ting company	
131:11	232:19,21	74:1 75:1 76:1	187:1 188:1
Hausman 221:22	237:6,15,20	77:1 78:1 79:1	189:1 190:1
	239:4,22 247:7	80:1,6 81:1 82:1	191:1 192:1
Haven 281:4	254:10 267:15	83:1 84:1 85:1	193:1 194:1
haven't 294:9	275:6 279:5	86:1 87:1 88:1	195:1 196:1
having 53:9 77:13	284:22	89:1 90:1 91:1	197:1 198:1
134:2,16 142:16	288:14,19	92:1 93:1 94:1	199:1 200:1
143:7 153:7	299:14 301:4	95:1 96:1 97:1	201:1 202:1
179:25 188:18	303:15	98:1 99:1 100:1	203:1 204:1
195:14 197:14	healthfully 277:19	101:1 102:1	205:1 206:1
201:23 204:15	healthier	103:1 104:1	207:1 208:1
246:24 252:24	234:12,13,23	105:1 106:1	209:1 210:1,24
269:8 278:13		107:1 108:1	211:1,3 212:1,9
283:11 284:25	healthy 236:10	109:1 110:1	213:1 214:1
285:25 295:13	hear 18:14 88:2	111:1 112:1	215:1 216:1
300:7,22 301:4	116:3 124:13	113:1 114:1	217:1 218:1
hawk 255:23	145:17 159:8	115:1 116:1	219:1 220:1
	heard 1:22 41:25	117:1 118:1 119:1 120:1	221:1 222:1 223:1 224:1
Haywood	55:6 85:16 86:25	121:1,7 122:1	225:1,25 226:1
149:18,19	88:13 90:6 91:21	123:1 124:1	227:1 228:1
<b>hazard</b> 301:14	110:9 116:2	125:1 124:1	229:1 230:1
hazardous 82:5	122:22 143:22	127:1 128:1	231:1 232:1
83:9	175:24 176:7,12	129:1 130:1	233:1 234:1
head 76:22 145:8	199:21 212:23	131:1 132:1	235:1,25 236:1
187:25 247:16	277:13 278:10	133:1 134:1	237:1 238:1
	hearing 1:1,17,19	135:1 136:1	239:1 240:1
headed 292:23	12:1,9,16,21	137:1 138:1	241:1 242:1
heading 282:22	13:1,4 14:1	139:1 140:1	243:1 244:1,21
headquartered	15:1,9,11,12,14	141:1 142:1	245:1 246:1
99:4	16:1,25 17:1,21	143:1 144:1	247:1 248:1
heads 179:24	18:1,4,20	145:1 146:1	249:1 250:1
	19:1,2,12 20:1	147:1 148:1	251:1 252:1
health 28:13 29:23	21:1 22:1 23:1	149:1 150:1	253:1 254:1
38:11,15	24:1,24 25:1	151:1 152:1	255:1 256:1
53:22,24 57:7	26:1 27:1 28:1	153:1 154:1	257:1 258:1
80:8,14,19 82:3	29:1 30:1 31:1	155:1 156:1	259:1,7 260:1
83:3,18 84:5	32:1 33:1 34:1	157:1 158:1	261:1 262:1
86:23,24 116:22 125:4 130:3	35:1 36:1 37:1	159:1 160:1	263:1 264:1
139:20 140:15	38:1 39:1 40:1	161:1 162:1	265:1 266:1
143:4 149:10	41:1 42:1 43:1	163:1 164:1 165:1,6 166:1	267:1 268:1,22 269:1 270:1,15
152:21 153:17	44:1 45:1 46:1	167:1 168:1	271:1 272:1
160:3	47:1 48:1 49:1 50:1 51:1 52:1	169:1 170:1	273:1 274:1
161:15,17,23	53:1 54:1 55:1	171:1 172:1	275:1 274:1
162:8	56:1 57:1 58:1	173:1 174:1	277:1 278:1
163:2,19,20	59:1 60:1 61:1	175:1 176:1	279:1 280:1,18
164:14,18	62:1 63:1 64:1	177:1 178:1	281:1 282:1
182:10,15,18	65:1 66:1 67:1	179:1 180:1,24	283:1 284:1
183:9 194:9	68:1 69:1 70:1	181:1 182:1	285:1 286:1,3
198:15 201:11	71:1 72:1 73:1	183:1 184:1	287:1 288:1
214:9 215:14		185:1 186:1	289:1 290:1

© 2012

	Sup I was I top of	ing company	
291:1,12 292:1	187:13,20	289:13,24	historic 126:24
293:1 294:1	205:18 218:10	<b>high-end</b> 243:8	218:13 219:19
295:1 296:1,21	222:21 228:4		233:24
297:1 298:1	253:11 254:17	<b>higher</b> 13:17 49:3	historically 62:5
299:1 300:1	276:13 282:19	67:18 75:17	92:4 197:5,6
301:1 302:1	283:4 287:7	82:25 88:17,25	ŕ
303:1 304:1	294:17	92:2 94:21,25	histories 273:13
305:7,8,13,15	<b>helped</b> 259:19	95:19 134:4	history 66:6
hearings 49:14,24	290:4 291:21	146:7 161:13	241:17 297:8
141:9 261:17		163:20 180:24	<b>hit</b> 106:7
285:20	helpful 164:12	185:11,23	
	helping 111:17	186:16	<b>hold</b> 96:16,18
heart 48:17 84:16	275:11	187:13,16	233:25 244:14
163:9 181:16	helps 142:25 143:2	196:23 202:6	261:16 291:11
267:17 275:16	187:10 296:25	209:5 217:15,16	holding 24:23
heat 181:15		222:12 237:11	49:14 225:25
288:19	Hence 223:13	244:2 253:12	holds 60:14 273:20
heated 278:24	224:18	254:21 266:16	
	Hennessy 3:9	268:2 289:20	Holton 4:8
heating 129:22	20:22,23,24	higher-end 26:15	56:3,4,5 57:13
130:20 184:13	Henry 294:10	highest 66:5	home 227:12
heat-related	l -	201:10 249:7	230:14 255:14
237:22 247:7	hereby 305:6	275:14	284:19 297:16
heat-trapping	hereinbefore	highlight 101:3	Homeister 3:13
288:4	305:7		30:5,6,7 36:10
heaven 158:22	here's 282:3	highly 64:14	53:5
	hereunto 305:18	101:15 119:22	Homeland 246:15
heavier 102:6		high-quality 38:23	
heaviest 272:17	Herman 6:17	high-risk 84:19	Homeowners
heavily 215:6	143:10,11,12	G	55:10
252:16	145:16	high-strength	homes 254:12
	Hertzberg 5:19	68:15	Honda 195:11,14
heavy 45:25	117:5,6,7	highway 16:13	,
215:19	he's 15:25 16:3	21:20 22:17	Honeywell 8:10
<b>Hebrew</b> 113:16	198:22	43:17 44:17	101:5,19
hedge 38:20		65:2,9 80:25	205:14,16
	hey 197:23	109:7 112:23	206:2,5 207:24
heightened 273:17	HFO-1234yf	125:18 175:12	209:11 210:15
heinous 259:11	101:18,25	214:25 225:24	Honeywell's 207:9
held 1:19 55:18	Hi 276:19	245:17 249:18	honor 169:17
79:11 190:8	hides 140:8	hiked 130:15	291:12
Hello 270:12		Hill 182:21	hope 46:16 63:13
	high 36:4 38:13		145:6 160:21
help 24:13 27:9	68:18 72:13 92:7	Hillary 5:15	161:9 198:20
77:4 96:7 100:19	102:4 103:5,19	108:18,21	201:24 245:3
109:15 129:23	104:7 111:23	hinders 33:21	255:13 266:11
141:2,3,7 150:25	131:21 161:14	hindrance 36:6	271:17,25
161:10 162:19	162:4,21 185:8		279:12,19 292:9
171:22,24	196:9 203:25	Hinduism 236:3	293:4 298:20
184:3,5,22 185:23	222:5,14 273:3	hire 185:18	299:19 304:13
1 × 3 · 1 4	281:17		

	eaptar report	0 1 7	
hopeful 53:5	264:21 276:4	179:5 189:14	identify 20:3
233:19 276:13	282:5	201:21 243:9	idolatry 142:22
hopefully 184:15	hugest 190:15	249:2 263:10,11	IED 171:9
234:3 286:5,8	human 83:3 84:24	264:13 283:9,10	ignition 142:7
hoping 175:7	113:22,25	<b>hybrids</b> 59:8 71:16	· ·
Horizon 27:17	115:11 116:22	89:18 106:2,3,8,9,11,1	ignore 49:7
251:13	198:15 232:19	2,17,20 144:21	II 297:13
Hormuz	237:6 238:3,15 239:3 241:20	178:5 262:16	ill 213:18 218:6
173:10,13,22,24	246:13 247:7	264:10 265:11	<b>I'll</b> 41:25 64:10
Hornstein 10:4	274:2,9 288:18	hydride	98:12,13 172:12
261:13,15	human-influenced	229:12,14,17,20,	185:17 202:16
horrible 299:13	242:13	23 230:5,18	270:23
horsepower 66:4	humanist 121:4,5	231:12	illness 237:11,23
hospital 211:4	humans 191:23	hydrocarbon 39:2	illnesses 181:22
213:17	271:6 272:6	hydrofluorocarbo	illuminated
hospitality 262:4	humungous	ns 72:14	256:13
host 241:6	298:12	hydrogen 106:21	<b>I'm</b> 12:11 16:12
	hundred 43:16	<b>Hyundai</b> 3:10 4:13	24:24 25:10 30:6
hostile 51:7	156:4	20:25 21:13,18	36:18 49:16 51:10 52:14
hosting 277:6	230:11,22,24	22:12,18,24	53:20 56:5,13
hot 184:12	hundreds 84:13	23:7,10 24:4,8,16 62:25	63:4,24 69:11,13
hotel 129:14	87:18 110:13	63:8,13,19,20	76:20 77:10
hotels 157:2	131:13 193:8	64:12,20	85:14,15,16 87:5
hottest 131:7	226:19 269:20	65:6,12,20 66:4	100:13 104:22
272:14,25 273:6	<b>hunter</b> 130:13	67:11	108:18,21 112:22 113:16
hour 232:16	<b>hunting</b> 130:18	68:8,10,12,14,18 69:3 177:14	120:25 124:21
hours 161:17	hurdle 275:14		127:21 129:5
255:3	hurricanes 181:20	<b>Hyundai's</b> 21:10 64:21,25	130:9,13 133:13
house 3:22 4:17	232:25	04.21,23	139:10 140:20
5:6 49:18,19	hurt 263:24		143:12,14,18 145:17,21,23
109:5 202:21,23	husband 143:12	ice 26:7 190:25	149:19
271:11 277:15	159:13	272:22	150:10,19 152:2
291:10	193:14,24	iconic 132:2	154:13
household 195:6,7	201:16	ICU 255:3	157:22,24
295:24	292:11,18	I'd 12:8 16:5,15	158:20,22 159:3,6
houses 154:20	293:12	85:6 93:22 124:8	161:4,7,14,18
159:5	<b>hybrid</b> 21:19 31:15,17,18	142:10 151:16	164:9 165:2
housing 194:24	43:21 54:13,20	261:8 283:6	169:14 170:16
220:18	55:12 65:5 71:5	302:8	179:5
<b>hubris</b> 27:23	102:19,24	idea 53:10 132:16	183:21,23,24
huge 118:2 119:9	103:10,14 106:7	155:4 179:17	184:23 187:24 191:19 192:6,7,9
132:15 164:17	127:17 166:24	ideal 258:4	195:8,25 196:25
249:14,15	177:5,20 178:10,12,13,18	ideas 123:21	197:14,18,24
251:19 254:19	170.10,12,13,10		198:17 201:4,5

	Capital Report	0 1 7	
202:5,8,20,25	288:24 289:20	51:22 54:6 58:6	improved 32:18
204:23 205:8,13	300:13,21	60:10 69:22	67:21 94:22
210:20,21	ŕ	78:25 82:19	110:25 166:20
	impacted 288:19		
212:25 213:6,17	impacts 17:18	84:22 88:8,24	168:15 177:25
214:20 220:13	38:11,15 74:7	90:18 107:13	182:25 184:21
225:15 226:5,7	· ·	125:12 127:5	187:5 271:19
228:21	147:6 223:21	135:21 137:12	274:15 276:9
235:15,23	237:15,21	153:9 161:16	301:19
239:16 244:16	241:11 247:7	162:6 163:6,16	improvement
245:7 252:2,10	250:5 290:2	165:23 174:25	improvement
253:18	impaired 300:23	186:6,10 194:7	39:10,13,17
256:16,20,23	_	204:14 207:23	40:11 41:9 49:4
261:18 265:24	impeccable 161:23	212:11 214:4	70:13
266:2	impending 212:18	239:4 256:6	71:2,4,13,22
			74:15 101:20
270:14,17,18,22	imperative 142:3	260:25 277:7	104:3 275:24
272:2,15 274:21	147:24 170:2	278:21 279:14	improvoments
276:13,20,22	imperfect 240:2	282:8	improvements
278:12,13,16	-	283:8,17,20	13:12 58:22
280:19	imperfections	284:10 287:22	61:17,19 66:15
281:4,6,8,11,12,	221:7	288:7,8 289:23	72:11 78:3 94:12
13,14 284:23	impetus 68:23	296:3,17 298:14	100:5,13 103:15
292:21,25 293:3	167:21	ŕ	120:3,6,11 136:9
296:21,25		importantly 78:22	168:23 290:15
297:4,10,25	implement 112:8	135:9 168:13	improves 48:24
299:3,4,9	135:24 145:11	211:6 233:7	•
	208:25 214:4,10	240:17	improving 23:17
300:6,20	259:10	imported 27:13	35:12 77:7 80:19
301:5,8,25		47:22 48:11	101:16 102:9
imagine 197:8	implementation	146:13	133:25 153:21
199:23 291:6	24:15 121:20		154:6 165:22
293:25	161:10 217:4	172:16,17,24	187:7 262:2
	233:5	216:15 233:4	290:8
imbalance 276:4	implemented 81:6	importing 45:6	290.8
immediate 147:7	176:18 221:10	173:2	inadequacies
273:24			83:13
	implementing	imports 27:7	inalienable 238:23
immediately 153:2	28:25 53:12	38:18 87:20	
185:21 278:4	75:16 82:6 110:7	170:13 216:21	inanimate 160:23
immense 28:23	165:24	imposed 97:14	in-between 257:2
immune 116:12	implore 145:11	*	
	214:10	impossible 105:15	Inc 3:18 42:20
182:14		impressed 85:15	46:12 223:22
<b>impact</b> 17:9,16	<b>import</b> 258:22	impressive 85:17	incandescent
35:5 41:5 44:22	287:13 298:23	118:4	203:22
45:8 75:16 94:14	importance 50:2		
118:9 139:19	61:13 138:11	<b>improve</b> 31:5,25	incentive 15:8
140:14 147:2		34:23 37:11	40:12 72:16
162:8 181:14	141:4 150:15	68:6,11 77:20	73:2,18 90:6
	302:4	102:14,22	91:5 135:23
182:3,7,9,18,19	important 13:2	103:4,20 105:24	136:7 197:9
192:18 207:17	21:3 22:20 30:11	110:4 169:5	206:15 219:3
215:17 236:5	36:12 38:7 44:14	206:16 218:3	incentives 15:6
237:9 250:22	45:10 48:10	255:19	
263:19,20 286:5	49:25 50:11	433.19	23:19 24:3 59:25
	47.43 30.11		

© 2012

	r	thig company	
90:11 127:17	incorporated 53:7	incurred 213:10	industry 21:15
135:25 209:9	67:15 171:23	Indeed 84:18	26:24 30:20
240:13 241:21	incorporates		55:18 66:9 76:24
268:9	39:21 70:15	<b>independence</b> 47:13 68:20	86:23 88:11
incentivize 128:5		47:13 68:20 170:8 172:23	89:11,25 90:15
inception 99:15	incorporating 70:11,25 170:11	170.8 172.23	91:4,11 99:14,20
165:20	210:2	234:15	104:15 110:15
			112:11 123:13
incident 260:6	increase 54:19	independent 47:19	126:15,20
incidentally 54:24	66:25 67:5,19	215:7 264:2	127:18 138:4
include 37:24 38:7	71:16,20 81:4	independently	143:14 156:15
43:18 47:12	82:24 90:20	101:19	174:2 175:4
84:15 119:12	91:23 100:20	index 77:17	177:13 193:11,16
147:21 220:22	102:23 103:3		193.11,16
239:17 272:14	104:16 112:11 125:14 130:25	<b>India</b> 190:12	217:2
	131:6,25 147:21	indicate 52:4	217.2
included 17:8 73:9 123:24 136:20	165:25 168:11	95:23	223:16
263:9	177:6,22 179:2	indicated 16:11	233:17,22
	181:24	45:2 166:15	240:22 246:7
includes 64:25	182:10,22 186:7	176:3	247:15
106:3 121:3	187:8,14 201:7	indication 137:11	251:14,22
150:21 214:16	217:11 222:20		260:22 261:25
232:13 302:14	242:17,20,25	indicator 289:24	262:7 267:14
including 14:22	243:12,17	indifference 96:4	269:9 270:7
25:6 29:11 45:2	244:3,10	indirect 208:8	282:23 291:3,4
54:14 67:2,15,21	increased 38:21		industry's 21:13
74:6 95:5 99:6,9	67:16 73:19	indirectly 51:8	58:16 64:22
105:3 106:19	89:15,19 181:15	indisputable	77:15 262:2
115:4 117:12	208:9 221:20	247:14	inefficient 91:8
135:7 138:19	247:7,8 291:16	individual 126:11	148:7 203:20
141:5 147:14 163:13 181:16	increases 39:15	229:4,6 262:23	293:23
187:4 205:24	52:6 67:6 68:4	individually 212:6	
212:22 269:16	78:17 81:10 82:2	v	inexcusable
273:8,18 290:12	83:13 90:21	individuals 12:24	294:12
294:2	150:6 181:19,24	75:6 84:14	inexperience
_,	241:14	129:12 200:6 221:16 227:20	49:24
inclusion 71:23		292:25	Infantry 257:2
72:10 139:2	increasing 74:24 78:19 113:11		infants 84:15
income 199:19	132:14 159:8	industrial 99:7	
215:18 241:16	173:4 177:5	190:11 199:12	infectious 181:21
242:3,9	213:2 243:9	200:18 239:16	237:23
264:16,21,23	271:14 287:2	274:18 290:25	inflated 128:10
295:17,25 299:3		industrial-borne	inflation-adjusted
Inconvenient	increasingly 68:24	247:9	295:17
297:15	288:17,18 289:6	industrialized	
incorporate 85:19	incredibly 282:5	122:10	influence 79:13,14 283:18
127:22 167:22	incremental 212:2	industries 197:23	
168:2 172:3	incumbent 174:24	246:8 261:23	<b>inform</b> 221:15
206:25	meanibent 1/7.27	291:25	informally 19:12

	1 1		1
information 17:13	184:3 197:5	104:10,17	introduction
97:11,17,20	205:17 206:21	intent 14:12 220:8	33:21 41:19 43:2
98:2,5,8 123:23	innovator 205:22	236:5	67:12 82:19
125:7 146:12			169:18
181:12 210:3	innumerable 250:12	intention 148:4	introductions 36:2
223:22 298:22		interaction 283:23	introductory 16:7
informed 125:8	<b>input</b> 158:7 215:8	interacts 221:6	intubated 255:4
infrastructure	insects 181:25	interdependent	
33:21 104:8	288:21	267:19	invasives 275:4
138:16 227:11	inside 110:15	interest 48:16 49:8	invented 154:10
276:7	insist 91:21	110:24	inventory 83:15
ingenuity 66:12	Insisted 114:15	211:8,16,17	invest 30:23 62:2
241:20		256:8 261:21	68:12 184:4
inhabit 181:4	instability 274:25	interested 15:9	206:21
inhabitants 268:8	installation 46:13	122:23 124:25	invested 77:23
inhaler 188:22	installed 45:11,17	153:5,6 158:24	
	installing 42:23	252:9 278:5	investing 31:4 91:6 123:15
inhalers 154:10,13	46:10 184:14	305:14	127:19
inherent 236:19	instance 237:6	interesting 127:24	
initial 70:7 72:17	instead 178:17	202:14	<b>investment</b> 33:16 35:21 36:6 66:12
73:21 110:16	283:11 291:19	interests 116:20	77:5 96:10
123:19 241:17		Interfaith 9:13	123:20 163:12
initially 123:16	institute 46:24 288:25 295:16	140:23,25 232:3	208:25 228:6
initiating 199:5		234:25 235:17	investments 107:3
_	institutional 232:7	intergovernmenta	
initiative 121:12 282:14	institutions 212:17	1 272:9	investor 232:10
	instrumental	internality 222:20	investors 110:23
initiatives 174:6	138:12	international	232:7
injection 177:8	insulating 102:15	133:16 205:16	invisible 275:17
injuries 181:21	insurance 163:2	215:16 258:3	invite 267:8
injury 242:18	254:10	266:20 267:4	invited 169:23
257:5	insurgents 227:18	internationally	170:22 172:8
<b>in-line</b> 191:8	228:11	237:22	276:22
innovate 99:16	insurmountable	interpreting	invoices 97:13
186:20 209:20	132:19	238:13	184:25
218:8			involve 138:15
innovation 22:19	intake 102:7	interrogatories 291:20	involved 46:10
99:11 147:9	integrating 232:9		67:2 143:14
187:7 221:12	integration 60:2	intersecting 290:7	191:21 244:19
225:9 231:11	intelligence 227:21	introduce 15:22	257:17 273:15
274:15 276:16	274:3	16:7,20 281:2	285:24 291:20
282:22	intelligent 197:7	introduced 31:12	involvement
innovations 60:2	276:15	41:16 52:25	258:17 284:8
64:8 193:23	intends 94:13	178:10 275:23	involves 46:4
innovative 31:24		introducing 65:21	121:13 135:2
38:24 62:11	intensity 99:22	138:13	
	100:21		

	Capital Report		7
involving 242:21	issues 39:7 40:21	293:10 300:15	193:11,12,13,24
ion 102:23	51:5 79:21		210:13 215:18
	138:8,16,18,24	J	217:21,24
Iowa 273:17	282:18	Jackson 83:19	223:25 224:5
Iowa's 272:19	285:10,25	141:12	243:15
<b>IPCC</b> 272:10,13	items 97:14	<b>Jaffe</b> 222:3	249:2,10,11
iQ 106:23	it's 22:9 44:7 46:6		251:18 269:15 270:7
	50:5,13,18,25	<b>James</b> 3:19 227:21	
Iran 173:21	51:3 54:15 55:22	<b>Jane</b> 6:7 129:4	<b>jocks</b> 191:8
259:3,8	56:12,25 90:20	<b>January</b> 1:6,21	<b>Jody</b> 4:8 56:3,5
Iranian 259:10,24	115:12 122:12	12:3 15:13,18	<b>Joe</b> 6:17 143:10,12
<b>Iran's</b> 227:15	123:3 129:25	17:25 246:20	<b>John</b> 9:6 51:19
Iraq 27:14 170:25	131:24 133:4	<b>JCRC</b> 145:23	214:17 220:13
171:8,16 216:16	139:24 151:10	<b>Jeff</b> 10:4 261:13	
226:13 227:3	152:3 154:12 157:7,20		Johnson 4:14
256:25 259:22	158:3,4,6 159:12	<b>Jennifer</b> 1:23	69:9,10,11
Iraqis 227:10	158.5,4,6 159.12	305:3,24	join 121:6
ironic 51:3	169:17	<b>Jerry</b> 221:22	151:21,22
	172:17,19	<b>Jersey</b> 45:13 54:14	156:13 170:22
Ironically 302:23	174:24	69:18 124:19	172:8 259:13
irrational 294:13	175:7,9,20	182:21 193:18	joined 47:16
irrelevant 19:16	176:12,13	228:23 229:5	joining 29:9
irresponsible	178:23	Jewish 6:20	joint 17:7 34:4
267:17	179:12,23	113:2,11	37:4 70:10 74:9
Islam 236:2	180:6,7 185:10	115:14,16,17,18,	105:6 171:2
	186:6,23 189:8,10 191:3	20 116:16	jointly 81:2
<b>Island</b> 69:19	196:23 197:20	145:22,24,25 146:3	Jon 9:24 255:16
<b>islands</b> 190:23	202:23 203:8	140.3	
isn't 162:17	215:16 226:3,24	23 149:6	Jonathan 255:22
258:16 259:15	228:6 234:3,8	Jillian 5:19	<b>Jones</b> 77:16
294:5,21	246:21 257:23	117:5,7	<b>Joplin</b> 273:18
Issa 291:19	265:6 277:7	ŕ	Josef 76:23 77:3
Issa's 291:23	279:9,10,11,17,1	Jim 2:11 9:4,22	
	8 283:2,13,17	16:22 46:21 198:22	Joseph 6:5
issue 29:25 50:2	284:18,24	214:17,20	124:12,16
51:2,21 95:11 109:9 117:2	285:24 286:7 292:24 294:15	251:24,25	Josephs 5:5
109:9 117:2	292.24 294.13	ŕ	85:9,12,13
153:8 163:16		<b>JoAnn</b> 11:20 301:24,25	124:20
173:5 175:5	I've 49:19 53:22	ŕ	Journal 220:16
176:2 212:24	56:16 93:25 143:14,16 154:3	<b>job</b> 193:16 291:9	journals 155:14
219:17	158:24 162:5	jobs 26:23 33:25	211:14,19
238:18,20 253:8	184:2 213:7	38:23 57:9,10	joy 142:16
270:20 274:23	244:13 252:10	77:6,9 86:12	Judaism 236:2
282:5 283:23	253:19 257:14	109:16 110:14	
284:10	269:5 270:25	111:2,7,11,13,21 112:2,12 127:15	judgment 50:5
issued 13:8	275:11	140:13 160:12	<b>Judith</b> 7:4 151:25
17:6,15 220:8	284:17,18	185:25	Julia 6:11
		103.23	

	<u> capitai riepei</u>		
133:12,13	293:13	lanes 173:9	laud 212:11
July 14:11 30:2	kill 155:7 259:5	large 51:14 63:22	Laughlin
42:8 76:22 220:7	killed 131:14	83:14 116:10	189:24,25
<b>jump</b> 90:19	227:7 259:22	134:19 170:23 172:7 199:14	launch 59:6
June 228:24	260:6 272:19	207:16	106:22,24
295:19,20,23	273:19	largely 50:7 100:9	launched 77:19
junior 281:7	<b>kills</b> 131:18	105:8 119:22	207:9
JUNS 171:4	<b>kindly</b> 270:16	144:17	law 20:13 64:2
justice 38:12	kinds 204:4,13	larger 23:18	lawmakers 185:21
justification 223:9	<b>King</b> 146:16	40:11,13	laws 49:21
justify 293:15	Kliesch 9:4	128:6,16,25	<b>lawsuit</b> 229:19
303:10	214:17,19,20	196:2,20,23 219:9 265:12	lay 164:8 259:19
<b>Justin</b> 4:14	knees 174:2	275:25	layoff 193:19
69:9,11	know-how 294:11	largest 25:2 35:9	lead 24:5 41:22
juvenile 253:6	knowledge 100:23	108:24 171:19	47:2 118:19
	156:15	190:11 241:4	134:12,24 135:2
K	known 146:19	250:25 267:6	154:24 155:9
Katherine 11:4	148:7	last 13:8 14:11	160:19 167:25 181:24 212:7
280:19 281:16	Kriger 11:12	15:12,14 31:12,15 76:22	217:11 226:8
Kathleen 3:9	292:7	80:22 83:16	234:3 251:15
20:21,22,24		86:18 88:21	275:24 298:4
<b>Katie</b> 9:18 244:25	L labels 96:25 97:13	105:9 107:2	leader 58:17 77:15
Ken 183:21,23	128:13	117:24 149:8,11 154:12 155:24	91:15 111:18
kernels 103:24	labor 108:24	157:9 170:3,9,22	155:16 163:24 262:7
Kerscher 76:23	290:12	172:10,11	
77:3	laboratory 61:21	173:19 179:8	leaders 147:22 148:3 160:15
Kessler 6:19	136:4	184:8 202:17	205:17
145:19,20,21	lack 33:20	230:21 231:4 246:22 254:24	leadership 23:21
Kevin 4:12,20 5:11	lacking 304:8	257:18 266:6	46:24 109:9,14
62:21,24 80:4,7 98:17 127:23	Ladies 169:13	282:15 296:19	140:11 156:11
	225:22 255:18	lasted 295:22	160:20 174:15 175:3,4,5 235:21
<b>key</b> 32:4 39:5 64:18 66:13	lady 230:21	<b>Lastly</b> 283:24	175.3,4,5 235.21 294:24
106:13 107:21	lag 120:6 122:9	late 15:21 129:25	leading 29:8 83:18
111:15 142:7	<u> </u>	283:2 292:15,24	154:20,25 155:2
218:16 234:17	landmark 120:11 251:20 286:18	later 17:3 31:14	181:15,20,25
keystone 28:9	lands 251:10	62:18 98:23	182:4 199:12
215:24 271:13	302:20	106:22 129:8	205:21 208:2 240:23 257:7
<b>Kia</b> 177:14	landscape 157:21	135:3 158:3 245:12 260:2	
kidneys 275:16	167:21	245:12 260:2 285:4	leads 33:17 88:17 90:17 163:12
kids 130:4 145:2,7	landslides 272:18	latest 191:16	Leaf 229:7
189:10 202:9,13 203:6 205:8	lane 170:10	272:19	League 121:6
203.0 203.0			<del>g</del>

	Capital Repor	0 I - J	
leakage 206:12 207:19	185:9 189:15,16 202:22 208:11	<b>lifetime</b> 13:15,21 241:25 248:5,19	141:24 191:18 196:8
leaked 160:5	217:19 228:3,7,8	287:18	limits 19:17 137:2
	251:6 262:15	<b>light</b> 14:22 35:9	243:4
leaks 101:10 251:8	293:16 299:25	48:10 50:14	Linda 11:12 292:7
learn 156:12	300:18,19	70:19 72:5 89:8	
learned 259:2	lessen 45:6	92:22 97:9 111:8	line 26:21 31:9 97:13 98:4 154:3
learning 275:12	lessening 237:18	126:7 129:18 136:25	184:18 220:8
lease 95:14	lessens 42:25 53:9	140:23,25 146:6	295:5
least 31:9 43:16	lesson 46:2	150:2 161:8	lines 77:25 187:12
82:13 142:5	let's 247:23 290:3	162:2,24 163:5	298:18
197:24 200:20	letter 105:9	186:8 203:20,22 207:21 215:23	linking 243:5
267:3 272:19 274:23 293:22	letters 14:17	219:2,6 255:20	links 257:24
298:23	level 13:11,23 26:4	286:22 301:17	Lisa 83:19 141:12
leave 172:12	47:12 51:5 56:16	light-duty 13:6	list 18:9 263:9
leaves 184:8	82:2 91:11	14:21 17:4	listening 34:9
leaving 213:6	123:12 162:4	37:12,17,21	187:23 270:16
lecture 275:22	174:6 237:19 266:23	39:12 70:21 73:25 78:10	281:23 292:8
		98:24 109:20	litany 272:12
lecturing 159:14	levels 61:24 81:21 82:25 132:11	112:6 142:8	liter 178:16,17
<b>led</b> 117:21 164:8 184:13 225:7	148:6 267:17	207:16	literally 255:2
240:18 256:25	302:20	219:19,22 245:12 248:5,8	292:17
legacies 287:6	liabele 191:14	287:23	<b>lithium</b> 102:23
legal 108:5	<b>lib</b> 157:23	lighter 177:10	156:19 229:16
_	liberty 258:4	lighting 184:13	litigation 240:24
legend 114:9	librarian 299:4	257:16	little 18:14 32:17
legislation 185:12 191:13	Lieutenant 169:14	<b>lights</b> 184:9,11	52:14 53:3
	life 26:20 52:5	light-truck 242:22	71:6,14 86:16 113:23,24
Legislative 266:4	55:23 102:23	243:2	113.23,24
legislatively 52:13	103:4 104:3	light-weight 102:3	141:20
Leicher 5:21	115:18 116:23	light-weighting	142:19,24
120:24,25	145:24 147:15	102:5	146:22 157:8 170:9 202:18
leisure 75:7	152:5 162:18 172:19 176:6	likelihood 242:18	205:3 252:7
lenders 95:18	193:2 200:17	likely 91:23	253:11,21
length 49:20	203:6,9 208:6	259:13 287:4	256:12,16
lenient 40:10	210:11 221:25	289:4	272:16 278:23
less 18:13 28:14	227:5 238:8,24 255:10 259:6	likened 252:11	284:18 296:25 297:2
29:11 45:20,21	269:6 276:11	limbs 257:5	livable 271:23
54:23 65:22 89:19 100:15	279:19 282:9	limit 161:25 276:4	272:5
118:8 142:19	284:7,9 287:20	282:19	live 56:19 57:2
143:3 148:18	298:5 299:17	limitations 207:3	76:2,3 86:5,11
167:6 177:22	lifelong 124:21 130:13 266:6	limited 23:6,23	130:4 141:18
179:3 184:23	130.13 200.0		154:14,15 159:4

164:4 182:21	201:16 204:22	266:13 268:4,7	
195:2,4 198:8	205:4 225:13	loved 163:4 195:14	M
247:22 268:24	265:18 268:18	low 68:9 91:25	<b>M.D</b> 300:6
lived 142:12 154:3	295:10	136:14 137:10	machine 77:21
257:15 300:22	longer 33:17 49:6	167:6 221:13	machinery 156:17
livelihood 302:16	258:12 278:5	241:15 242:3,9	machoism 191:7
lives 68:7 141:18	longer-term 33:15	289:15 292:19	
161:5 163:13	long-term 24:6	low-alloy 68:15	macleod 286:13
164:17	27:21 32:23 70:6	low-carbon	Macleod 11:10
170:19,20	106:15 123:15	103:18	mad 55:13
192:25 250:7,12	134:16 136:9	low-efficiency	Madeline 281:10
254:17,23	152:8 153:20,21	263:21	magazine 165:18
258:15 260:15 261:2 269:20	160:2 174:7 175:2 187:6		· ·
270:5 285:10,17	207:13 296:3	lower 33:23 39:2 40:13 41:17	<b>magic</b> 114:19
303:4		81:15,18,20	magically 144:13
livestock 288:16	looming 301:21	87:16,20 92:8	magnitude 224:16
	loophole-free	101:7 167:3	<b>Mahmoud</b> 281:12
<b>living</b> 56:8 114:6 139:20 145:7	274:13	184:22 208:17	main 82:9 154:3
149:12 174:23	loopholes 82:19	241:25 242:5	164:3 192:9
201:17	86:15 119:12	264:24 265:7	<b>Maine</b> 69:17
302:16,18	121:24 145:12 194:3 200:4	280:7	152:25 159:23
303:15	271:21 295:2	lowering 244:8	<b>Mainly</b> 277:16
<b>LLC</b> 4:11	299:20 303:9	low-friction	-
<b>LLC's</b> 57:16	304:3	103:11	mainstreamed 26:16
load 35:9	lose 60:9 131:2	low-global 205:24	
loan 217:16	260:10	low-GPW 209:18	<b>maintain</b> 107:22 120:7 169:6
	loss 163:3 219:10	low-GWP 101:24	174:23 209:15
lobbies 157:5	222:16,21	206:23 209:13	246:6
<b>lobby</b> 29:16 157:6	250:21 295:24	210:8	maintaining
lobbyists 295:3	losses 246:18	low-rolling 177:10	135:16
local 150:7 198:11	<b>lost</b> 191:7	luck 205:10	maintains 35:12
239:18 243:22	193:16,19	lucky 49:16	maintenance
244:15 263:25 264:25 265:5	215:18 222:18 243:15 252:11	256:19	150:3 209:13
296:13		lucrative 171:13	244:5
	<b>lot</b> 121:15 143:21 151:6 159:13	lung 4:21	<b>majesty</b> 236:13
locally 203:2	177:6 184:10	80:8,12,19,20,23	major 44:21,22
located 38:13	188:14	82:8 83:16 84:12	45:8 46:12 71:8
locations 94:6	189:7,13,19	124:22 127:23	92:6 139:14,25
logic 253:2	217:13 248:12	152:4 162:21	153:8 192:21
logs 264:6	254:18 280:4	188:23 300:22 302:15	199:8 208:7
long 18:5 73:4	283:18		211:10,13 212:24 213:17
76:12 89:4 90:13	284:17,20,21 298:10	lungs 129:10,11,19 153:2 161:23	228:9 239:24
133:4 135:2		300:24 301:12	242:15 245:8,20
146:8 147:6	lots 55:5	500.21501.12	246:16 248:7
148:7 158:24	love 93:22 204:11		257:5 273:14

	<u> </u>	- O I - )	
275:20 301:11	242:17	<b>Margo</b> 2:5 12:11	matter 49:7 54:24
majority	Manning 7:22	16:10,11 18:2	81:23 93:16,19
	_	,	95:20 108:6
186:4,9,10 187:2	192:2,3,4	marine 38:19	140:11 162:13
192:23 199:18	manufacture 15:6	169:15	175:15 237:14
215:21 271:3	190:19	Marines 48:7	
maker 21:22 90:3		171:10 172:4	275:15
	manufactured		<b>matters</b> 138:23
makers 21:14	229:18	<b>Mark</b> 5:7 11:10	149:4 152:17
64:22 68:23 78:9	manufacturer	87:9,11 122:22	Mawr 239:15
79:13 88:5	32:8 39:21 40:12	286:13	Mawr 239.13
91:7,14,21	62:10 66:16 71:8	markedly 208:11	maximize 24:3
100:10,16,19	137:23		103:21 112:9
111:6 126:21		market 1:20 33:2	maximizing 29:18
138:12 168:2	manufacturers	34:16 64:13	77:8
184:20 210:6	14:6,16 30:22	78:19 89:10	
215:12 218:6,17	33:14,15	91:17 94:15	maximum 102:2
219:3 239:24	35:11,20 41:4	99:12,16 101:19	120:20 196:19
245:22 278:22	49:2 59:12 67:3	104:2 106:7	may 18:23 20:12
282:24 290:12	71:25 73:2 90:21	107:15 111:10	· ·
303:6 304:4	92:24 93:6	126:22 133:20	27:16 36:5 40:6
	106:18 123:18	134:20 135:15	43:19 46:14
malaria 182:2	128:5,15,24	136:8 206:24	48:16 75:21
Malerd 260:5	133:17	220:24	106:17 113:17
	134:11,23	221:5,6,20	142:24 159:25
man 132:21 158:6	135:15,23	223:19 249:4	169:19 209:17
256:19	136:2,7,12	265:15 269:10	243:10 244:9
manage 104:9	137:2,16,25		250:23 268:14
275:13	162:23 166:7	Marketing 98:19	271:25 285:7
		marketplace 32:22	maybe 55:6 85:2
management	167:11,20	174:13 294:21	129:14,15,25
63:24 69:15	168:11 178:19		156:14 177:18
77:18 179:18	179:14 192:22	markets 99:6	179:21 190:7
220:17 223:22	206:25 218:8	100:23 144:8	195:25 196:19
manager 30:7	230:4,19 301:18	198:10	199:18 204:9,10
57:17 98:19	303:5,18	marriage 305:13	205:3 283:8
133:14 185:3	manufacturer's		203.3 283.8 289:25
mandate 94:8	72:5 79:3	mass 107:15 168:19 193:23	
	Manufacturers		<b>MBD</b> 216:19
mandated 199:22	209:19 290:22	Massachusetts	McKensey 213:8
mandates 23:23		36:25 69:18	McKernan 11:14
97:15	manufacturing	massive 122:15	295:12
mandating 138:5	26:21 91:8 93:2	196:25	
	111:12 121:16	massively 271:13	McLaughlin 43:4
Manhattan 157:25	125:23 129:21 160:8 210:14		mean 43:24 53:3
manifolds 102:8	260:22 291:25	<b>Masterman</b> 11:5,7	93:7 167:3 189:3
manipulated		280:16 281:17	195:20 196:21
191:10	<b>March</b> 27:6 54:15	282:2	245:10 279:14
	Marchionne 58:15	materials 33:6	292:6 297:20
Mann 3:11		50:13 51:3 52:4	meaningful 76:2
24:22,23,24	<b>Margie</b> 189:24	99:11 100:19,25	144:19
49:17	margin 26:16	102:16 168:3,19	
manner 34:21	marginal 97:14	243:8	means 94:8 101:10
	S / / · · · ·		103:17 110:19

	Capital Repor	- O I - )	
135:18 141:20	295:17	merely 218:23	278:19 279:4
152:3 166:17	medical 83:18	258:16	285:8
187:15 228:3	153:8	massaga 105:5	<b>mid-term</b> 24:13
251:6 262:25		message 105:5 292:9	
measure 40:18	medications	_, _,,	midterms 285:8
59:18 60:8 137:6	152:13	messages 82:10	migratory 26:5
222:18	medicine 211:5	messing 189:11	mile 13:9 39:19
measured 136:4	255:2	met 107:18 118:13	40:16 42:5
168:4 254:22	meet 13:11 15:4	132:20 186:23	44:3,4 48:9,23
	32:9 41:8,15	metal 102:7	58:8 72:16
measures 41:22	58:19 66:24 70:8		109:23 114:15
83:4 84:5 147:21	72:2 93:14 94:3	methane 26:9	126:5 179:22
174:25 209:8	105:21 125:22	136:18,24 271:7	244:8 262:20
Measuring 60:12	135:15 168:12	methodology	263:11 266:24
mechanical 193:15	180:2,4 184:20	137:18	272:21
	218:7 266:22	metric 13:14 29:2	mileage 54:12
mechanics 294:9	meeting 40:25	38:2 75:18 110:6	112:25 132:14
mechanism 60:18	58:4 75:22 89:22	119:2 216:4,11	175:15 193:8
136:15	92:5 106:13	233:8 248:4	195:13 196:9,23
mechanisms 71:24	107:6 145:8	251:3 269:12	210:24 296:20
123:8 135:11	168:7 208:15	288:6	301:19
139:3 244:11	223:14 294:21		miles 13:10
medallion 261:21	303:22	metropolitan 36:23 64:13	21:16,21,25
262:11 265:12	meets 134:10		22:4,7 31:10
	193:7	<b>Mexico</b> 114:11	39:20 40:4,15
<b>Medford</b> 2:10 3:5		159:17	54:16 58:24 95:6
12:14 16:6,10,12	meltdown 200:3	Michael 25:12	96:20 107:7
24:21 30:4	melting 26:7	<b>Michigan</b> 40:9,22	109:22 131:11
36:8,15 42:3,16	190:25	45:13	132:17,24 154:6
46:18 49:10	member 85:2		166:21 175:14
52:18 85:7 87:7	205:11 252:3	<b>Mickey</b> 43:4,8	179:9,11,12
92:15 97:22 98:15 112:20	269:2	mid 65:9 273:2	186:15 190:20
117:4 120:23		Mid-Atlantic 4:21	192:15
124:6 151:17	members 2:4,9 16:21 18:9	80:9,23 82:9	195:10,12
153:24 158:19	25:9,10 109:2	84:12	196:17,19 201:8
161:2 163:21	133:20,22	middle 80:21	226:10 227:25
169:10 175:18	169:12 170:14	173:7 269:19	230:8,9,11,22,24
180:10 214:15	228:14 237:3	294:8 298:24	232:16 244:7
220:10 225:20	286:16		262:22 263:22
228:19 231:19		Mideast 88:23	264:7,10 293:16
235:13 239:12	membership 121:3	midnight 255:14	294:2
261:12 268:21	mental 152:20	mid-sized 89:17	milestone 297:8
270:10 274:10	mention 15:10		military 47:24
276:18 280:13	19:25 296:10	midterm	51:10,13,15,21
285:19 286:11	mentioned 123:6	34:2,5,13,17	144:5 170:5,14
300:4 301:24	125:4 185:3	41:2 59:23	172:8 212:22,25
304:14	224:5,12	60:4,16 66:20	226:9,12
media 241:9	ĺ	74:5 78:24 79:4	256:13,24
	menu 22:23,24	91:20,23 92:9 107:20 135:6	,
median 278:2	23:4,5		millennial 269:2
	<u> </u>	138:20 218:20	

© 2012

	Cupital Repor		
Miller 1:23	MIT 222:8,13	82:3	Moreover 218:2
305:3,24	mitigate 211:22	money 26:18	morgue 129:9
million 25:9 27:12	251:19	44:11 48:15,19	morning 12:8
29:2 38:2 43:16	mitigation 38:10	50:9 76:6 109:15	16:11 20:23 30:6
44:16 75:18 77:5	<u> </u>	110:20 140:13	36:17 46:20
80:10 106:8,9	<b>mix</b> 79:11	144:4 156:21	52:23 53:18,19
109:2 118:15,17	mixed 277:21	166:17 167:23	56:3,4 57:14,15
119:2 127:11,14	<b>mobile</b> 36:18	182:15 184:4,5	62:21,22 69:9,10
156:5 165:17	37:14,18 83:25	185:24	74:22,23
172:15 186:2	,	187:18,19	76:18,19 80:4,5
207:20 216:4,13	mobility 250:11	199:21,23	88:13 92:17
223:6 224:22,25	mobilize 235:20	202:22	104:20,21
225:5 248:23	<b>model</b> 13:7 14:2	204:23,24 205:5	108:19,20 110:9
250:24 251:3	17:3 21:17 23:2	215:25	124:11,13
258:22 263:6	31:9 33:11	217:12,20	129:4,5 252:4,10
269:12 287:12	34:7,12,15	227:13,17	256:12
millions 80:13	34:7,12,13 35:6,7 37:11	245:25 258:23	
84:14,23 132:6	39:10,14,15,25	259:12 270:4	Morris 8:9
143:21,25 233:8	41:15 42:11	279:11 290:17	205:12,13
265:4 269:20	57:25 58:2,8,20	293:22 303:10	mortality 247:8
	61:2,4,6,11,18	moniker 153:16	mosquitoes 181:24
mind 297:21	63:7 64:19 65:21		•
minds 212:22	67:13 70:17,20	monitor 79:2	MossRehab
294:17	72:24 73:10	137:19	150:21
mine 49:17 51:19	77:25 78:7 79:18	monitoring 74:2	mostly 265:12
187:9,19	94:24 98:24	monoxide 81:12	286:7
minimize 105:23	109:20,25 128:5	Monroney 97:12	mother
	137:7 167:13	•	188:6,11,21
minimum 61:23	214:23 216:17	monsoon 272:17	201:14
62:9	219:22 224:13	Montgomery	<b>motion</b> 25:20
minister 164:7	244:22 245:12	149:21	
Ministry 266:4	248:18 276:13	month 94:13	motivate 302:11
minivan 59:9	288:2 301:17	202:22 254:6	motivated 222:7
	models 21:18,25	255:7 272:20	motivation 180:8
minivans 14:23	65:2,4,11,24	monthly 21:24	197:9 302:4
minority 84:9,18	96:20 275:5	167:12	303:13
Minot 6:5	model's 167:17	217:16,17	motor 3:10,14
124:12,13,16	modest 83:11	months 54:15	5:14 20:25 30:9
minute 290:3	213:10 243:12	106:6 161:14	64:4 66:5 92:25
	299:8	188:18 255:2	99:9 104:23
<b>minutes</b> 18:13,15		260:2 272:25	133:17 156:7
misinformed	moment 28:6	monumental	199:16 257:2
240:8	178:20 179:6 203:22 217:12	117:15	motorcycle
miss 254:5	233:24 262:14		195:7,8,10,19,22
mission 80:19		moon 132:21	motors 96:17
140:25	momentous	moral 142:3	129:18 178:10
	291:21	232:18	
Missouri	moments 21:10	morally 236:10	<b>Mount</b> 142:14
273:17,18	monetized 38:4	237:25	move 25:6 53:11
			75:25 83:20

	<u> capital repol</u>	0 - 1 J	
107:14 110:12	30:5,6 36:18	222:22 225:24	Navy 48:5
130:23 139:14	52:22,23	228:7 234:9	•
151:18 154:23	, and the second	235:17 239:21	nearly 25:22 71:8
155:8 158:11,15	nanofiber 102:22	245:17,20,21	75:11,19 111:13
178:25 233:13	narrowly 238:10	, ,	117:19 133:21
	•	248:2 249:9,18	166:20 186:5
234:22 235:2	NASA 198:23	250:4 251:17	216:19 217:24
260:24 294:18	Nash 9:12 214:18	252:24 256:4,8	219:20 227:25
299:19	231:20,21,22	257:9,20 258:8	246:25 258:9
moved 142:11		259:20 260:20	260:2 286:21
192:4 193:17,18	Nate 227:6	261:2 287:20	295:24
228:22	Nathan 10:6	288:8 290:21	
	261:12 265:25	294:20 295:8	necessarily 232:16
movement 54:3	nation 25.6 20.10	nationally 83:17	necessary 23:9
149:5 157:23	nation 25:6 28:10	127:6 162:9	24:12 33:24
169:25 282:4,14	36:23 47:19 54:2	186:5	35:17 58:19 70:7
movements 157:22	63:21 83:3	186.3	73:13 98:9
	125:25 148:8,17	nationally-	134:12 138:5
moves 52:15 159:9	169:16 170:13	harmonized	157:15 209:20
294:4	183:7,15 228:13	30:14	
movie 297:3,14,15	258:21 259:3	matians 122.10	212:8 213:12,15
	260:16 291:2	nations 122:10	223:14 244:12
moving 30:21	national 3:16,20	148:10,16	necessity 275:20
142:14 218:22	6:10 9:21	200:18	necks 294:14
286:11	14:2,5,11 16:13	234:18,19 253:8	
<b>MPG</b> 65:3,10	5 5	273:3	needlessly 19:16
66:7,10 219:5	21:6 25:5 26:25	nation's 22:10	negative 122:18
,	29:15,22 32:15	24:25 27:16	213:12
multi-air 59:2	36:19 37:9	61:13 126:2,14	237:15,20
multi-front 226:13	46:21,23,24	127:11 130:5	300:21
multiple 118:3	47:2,5,8,17,20,2	139:15 186:19	
158:25	3 48:11,14,16,24	193:12 237:18	negatively 247:6
138.23	49:7 50:8 51:2	248:10 255:25	negligible 101:12
multipliers 23:16	56:15 57:19,22	287:23 295:8	6 6
multi-speed 177:9	58:12 59:11		neighbor 84:25
•	62:14 63:10	nationwide 47:5	neighborhood
myself 56:10 85:25	73:19 75:9	217:24 223:7,25	82:7 258:3
139:22 140:2	78:10,13	224:24 235:20	neighborhoods
143:20 163:20	79:18,25 80:25	286:16	28:15
199:17 202:15	81:3 83:23 87:18	native 252:10	
255:23 257:5	92:11,22 105:17		neighboring
296:19	108:23 109:7	natural 118:22	203:19
	118:5 119:7	130:22 141:15	neighbors 130:4
N	125:18,19 127:9	166:25 234:11	_
NACAA 36:19,21	130:10 133:23	246:12	neither 97:12
37:3,6 39:4 40:2	134:10,16	273:12,15	200:3
42:6	139:15 140:23	288:25	<b>neon</b> 184:11
NADA 5:10	144:6 146:2	naturalist 192:8	nephews 298:3
	147:7,13,23	nature 181:5	•
92:18,22 94:13	169:3,25 170:7	199:6 211:15,23	NESCAUM 69:16
95:22 96:22	173:4 174:15	223:3 271:6	70:9,22 71:23
98:13	175:5,11,16,24		72:15 73:15
nameless 84:23	176:7 212:24	<b>Naval</b> 169:20	74:14
Nancy 3:13,15	214:25 215:15		net 13:21 38:4
, 5.15,15	l .		

	Capital Repor	0 1 /	
73:6 110:17	nieces 298:3	42:18	201:6,22 230:2
176:6	<b>night</b> 140:7 184:12	<b>north</b> 4:19 5:14	235:5 266:7,12
224:7,11,14,16	292:11	67:25 76:21	267:8 268:3
240:20 242:4,6 243:16	nine 186:5 229:9	104:23 130:24	294:23 301:9,15
	277:17,23	159:4 204:8	Obama's 27:6
netted 52:7	nine-year-old	247:3	265:17 271:16
network 241:12	230:7	Northeast 69:14	287:5
244:4		Northeastern	<b>obese</b> 275:19
neutral 209:24	Nissan 229:7 296:19	132:3	obey 142:16
nevertheless 81:13		northern 289:9,10	objective 165:13
125:6	nitrogen 38:8	· ·	208:3
	81:22 162:13	Northwest 272:18	
newer 233:5	nitrous 136:18,24	notably 81:11	objectives 134:11
newly 261:18	137:6	171:9	<b>objects</b> 160:24
news 25:22 26:6	Nixon 27:2 172:22	<b>Notary</b> 1:24 305:4	obligation 238:22
233:18	231:7	note 37:7 95:22	obligations 218:24
newspapers	nobody 229:22	201:16 207:4	observations
173:20	nonattainment	233:10 244:2	222:7 244:2
next-generation	56:9 57:3	287:22	obsolete 162:5
207:10	none 85:21 90:19	noted 18:2	
nexus 170:6	96:16 244:13	nothing 94:6	obstructive 152:6
NHTSA 2:9 12:15	Nonetheless 107:6	152:19 243:22	301:7
16:21 17:6,15	213:4	246:9 292:16	<b>obvious</b> 42:25
22:24 29:13		notice 14:12 70:10	87:15
30:19 39:8,24	non-financial 236:21	220:8	obviously 44:10
40:17,20,24 41:6		noticed 269:5	45:4 118:19 152:24 203:6
42:7 49:14 57:24	non-governmental 14:19	<b>notion</b> 238:14	152:24 203:6 283:18
77:12 78:5 79:17	14.19		
82:12 92:7 98:6	non-passenger	novel 241:21	occasionally
99:17 206:3,5 207:15	219:4,12	November 13:8	116:15
207:13	nonrenewable	17:6 70:9	occasions 197:6
214:3 224:9	282:16	NOx 81:25 83:25	201:21
226:8 228:16	non-smoker	<b>NPRM</b> 18:2 20:5	occur 95:21 96:3
243:12	124:21	numerous 153:12	occurred 181:8
NHTSA's 19:24	noon 246:20	213:18	occurring 25:25
25:16 34:11 37:4,8 40:2	nope 270:22	nurse 253:18	occurs 95:5 207:19
57:19 98:23	nor 54:11 55:16	275:10	ocean 55:9 114:16
206:13 210:15	97:13		190:24
niche 32:17	Nora 9:12 214:18	0	<b>OEM</b> 24:2
	231:22	Oak 159:22	
Nick 7:10 161:4	<b>Norhaus</b> 224:13	<b>Obama</b> 14:10	OEMs 23:14,20,22 208:14
281:8	normal 177:17	50:23 76:23	
nickel-metal	178:5 203:9	109:4 139:12	<b>OEM's</b> 23:12
229:12,14,17,20,	normally 277:12	140:10 141:12	off-cycle
23 230:5,17	•	183:3,17 186:17	22:15,18,23
231:11	Norman 3:17	198:13 200:22	35:18 61:16

	Capital Report	0 - 1 J	
135:25	210:19 214:13	234:16,17,20	27:24 65:17
	244:24 245:5	245:24 246:6	117:13 173:9
offer 29:22	249:22 251:23	247:2,3,18,19,25	203:15 224:16
31:9,23 39:4	253:15 255:15	248:3 250:24	
58:12 59:13	261:5 265:23	251:6,16	opened 63:18
60:13,21 68:19	280:15 284:12	252:16,21 256:2	153:2 297:7
96:20 206:3,10	285:18 286:3	258:7,10,22	opening 3:3 63:23
208:14	296:8	259:4,7,25	operate 97:3 209:2
235:21,23		260:17 266:17	-
274:12	Ohio 45:13 192:5	269:22	operates 64:14
offered 23:8 93:25	193:17,18	287:4,12,22	operating 49:3
293:13	oil 13:14 25:7	291:3,24	99:5 208:20
	27:3,5,7,12,15,2	,	226:17 244:8
offering 94:22	3 28:3,4,12	294:6,13,25	
209:11	29:16 37:24	298:15,16,23	operation
offerings 66:16,19	38:17,18 43:2	oil-rich 227:17	47:4,11,16 51:4
office 12:12	44:6 45:6	242:10	94:5 226:18
16:4,24 220:21	47:7,13,22	okay 36:8 97:24	operational 97:19
222:11,19,22	48:2,12,19	124:8 188:2	operations 99:8
<i>''</i>	51:9,14	190:18 191:12	150:4 206:17
officers 12:16	55:7,17,18,21	229:21	
19:14	56:25 75:19 76:5	231:18,20 283:8	operators 261:22
offices 56:10 300:8	88:23,24 108:8	ŕ	opinion 88:20
official 18:25	110:6,10 111:24	old 145:2 154:12	116:2 192:13
	112:9 113:8	170:17 188:13	278:6 282:3
244:16	115:4 116:19	203:12 229:9	
officially 235:6	117:17,18,21,23	277:17,23 293:3	opinions
officials 126:24	118:15,24	older 153:12	281:24,25
offset 23:22 70:7	119:10 120:8	277:18 301:5	opponents 75:21
234:18 267:23	122:15 126:3,15	oldest 24:25 80:15	241:8
off-set 217:17	127:11,12	<b>olive</b> 149:7	opportunities
	139:15		28:23 45:2
offshore 247:3	141:17,22	omits 263:10	110:14 160:11
off-the-shelf 171:5	144:6,14 146:10,14,19,21,	one-car 195:7	298:4
<b>Oge</b> 2:5 3:4	22 147:20	ones 163:4 167:10	opportunity 15:2
12:8,11 52:21		187:21 214:3	16:25 17:21 18:6
53:14 56:2 57:13	148:12,15	278:10	20:9 24:19 29:17
62:20 69:8 74:20	149:11 153:7	one-third 22:2	36:11 37:4 42:13
76:17 80:3 85:4	160:5 170:2,13	27:7 31:8	46:15 57:9,18
104:19 108:17	172:15,21,25		58:11 63:5 66:20
124:11,15 129:3	173:2 174:18	ongoing 97:18	69:3,6 72:12
130:7 133:11	183:11 193:4	215:7 240:2	74:19,24 76:14
139:6 140:18	194:6 198:19	275:15 301:12	77:11 85:15
143:9 145:16	201:13 206:8	on-road 136:3	87:4,13 98:10,22
149:17 151:14	215:14,18,20,22		104:12,25
164:22 175:21	216:12,17,18,19,	onshore 247:2	108:14 109:14
180:19 183:21	23 217:19 220:2	on-the-road	111:20 112:13
188:2 189:23	226:10,24	128:12	120:21 124:5
191:25 194:15	227:2,9,10,14,15	<b>onto</b> 150:9,13	125:13 130:6
198:3 201:2	,25 229:19 230:4	160:5	158:21 163:15
202:2 205:10	231:3,7,9 232:23		164:25 165:5
404.4 403.10	233:4,7,12,13	open 15:16 19:2	180:23 190:2

	- Capital Repor	0 1 /	1
192:12 193:6	192:23 227:19	97:5	owes 236:25
194:18 198:6	235:10	outside 33:3	<b>owned</b> 156:4
202:7 205:7 206:2 210:23	organized 158:23	110:15 129:14	owner 54:10 62:24
218:23	organizer 108:21	138:8 161:12,18	64:11 164:9
231:16,24	original 92:5	170:9 228:23 246:21	183:24 184:17
234:21 239:10	128:9 133:17		194:20 198:8
249:25	originally 15:17	outstanding 32:2	owners 77:22
250:15,16,17	157:24 228:21	109:8	186:5,11,24
251:14 255:18 262:5 274:12	Orleans 151:6	outweigh 75:24	187:7,11 261:22
277:11 280:25	<b>O'Shea</b> 5:11	244:17	265:13
281:22 286:17	98:16,17,18	overall 40:14 58:7	ownership 142:20
292:4 297:5,7	<b>Oshnock</b> 4:10	73:14,23,24 83:25 103:12	238:6,16,19,21 243:17 276:12
oppose 82:19	57:14,15,16	105:7 167:4	
opposed 152:9	others 23:17 48:15	194:9 224:7	owning 63:12
223:11	50:11 99:20	232:20	owns 229:21
opposition 240:22	204:7 236:3,12	overcome 96:5	oxide 38:8
option 65:22 102:2	237:5 254:11	overcomplying	136:18,24 137:6 162:13
136:18 240:5	otherwise 96:23	23:23	
options 94:7	162:24	over-dependence	<b>oxides</b> 81:22
100:11 101:16	ours 84:12	240:6	oxygen 154:17
136:24 169:7	ourselves 51:7	overdue 295:10	279:8
196:21 225:17	96:6 154:24	overhead 129:22	ozone 54:23
oral 14:14 17:2	155:6,8,9 156:13	overlapping	82:2,24 83:2,4 84:8 161:13
207:4	160:16 281:18	105:11	163:6
order 18:10 33:24	292:9 302:24	overlook 61:5	189:12,15,16,17
35:19,25 38:3	outcome 112:16 153:22 237:15	overreliance	
77:25 78:25	290:14 305:14	172:13	P
114:6 119:24 120:7,19 174:3	outcomes 238:2	overridden 303:3	<b>p.m</b> 12:4 18:5
196:14 301:20			304:18
organic 81:22	outdated 276:6	overseas 48:19 144:5 227:12	<b>PA</b> 1:21
162:13	outdoor 250:9	257:11	pace 155:4 168:4
organization	outdoors 84:17	258:17,22 270:5	237:19
25:2,3,5,13	161:6	294:8	package 34:19
121:5 133:7	outer 28:5	oversees 25:5	packages 60:6
140:24 191:12	outlets 39:3	Oversight 291:11	<b>PAGE</b> 3:3,7 4:4
232:6 239:17 261:20 281:19	outline 213:9	oversized 299:21	5:3 6:3 7:2
292:5	outlined 211:23	overuse 164:7	<b>paid</b> 215:10
organizations	outlining 14:12	overwhelming	paints 103:12
12:25 14:19	out-of-pocket	199:18 254:23	pair 222:7
47:18 83:18	242:4	overwhelmingly	Pakistan 116:9
108:25 110:23	outpace 32:5	113:3 140:3	
115:16,24,25	output 102:23	owe 174:19	Pakistan's 272:16
141:2 146:2,3 147:13,23	_	UWC 1/7.1/	<b>Palms</b> 171:19,20
117.13,43	outreach 96:22		

		0 1 7	
Panasonic 229:18	participation	182:7 240:21	peaceful 234:17
panel 1:22 2:4,9	12:23 87:8	246:25 265:12	<b>PECO</b> 202:22
3:8 4:5 5:4 6:4	<b>particle</b> 81:21 84:9	269:5 270:25 271:12	pediatric 213:17
7:3 8:2 9:3 10:3	particular 15:7		253:18
11:3,9 15:23	35:4 41:6 50:4	<b>pastor</b> 140:21	peer 266:20 271:4
16:20 18:9 19:19	81:11 119:15	patchwork 134:3	•
20:7,8,15,20 53:15 80:6	161:14 206:10	patent 229:21	penetrate 275:22
85:5,8,16	237:2 277:11	230:3	penetration 41:23
124:8,10	particularly 35:10	<b>path</b> 90:13 197:24	61:24 62:9 135:7
151:15,16,18,23,	44:14 45:5 46:7	-	Penn 56:5 117:12
24 152:3 169:13	84:10 130:2	pathway 291:6	235:9
172:12,17	143:15 171:12	pathways 68:20	Pennicost 10:8
205:11	235:9 237:8	71:25	268:23
214:14,16	278:16	patience 244:20	Pennsylvania
230:21 261:8,11	particulate 38:8	patient 254:24	1:7,25 3:22 4:17
272:9 280:13,15	54:24 81:23	patients	5:6 12:2 29:6,9
286:12	162:13 237:14	152:4,5,8,9,11	75:8 111:3
Panelist 19:20	parties 15:9	153:12,14,18	117:12 124:19
Panelists 52:20	305:12	254:4,5 275:12	140:22 161:20
panels 18:8,22	partly 113:8	patrol 259:22	190:5 211:5
42:24 55:11	190:17	_	223:5 224:4,23
paper 221:21	partner 99:17	patterns 26:5 89:8 250:22	225:4 228:22
222:14 289:11	partnered 99:14		249:5,10 252:2 266:4 269:16
	-	<b>Patton</b> 7:4 151:25	288:23,25
papers 212:21 213:8	<b>partners</b> 104:15 111:25	<b>Paul</b> 7:6 154:3	289:2,17 302:3
		pave 35:19 276:13	305:6
parade 292:8	partnership	pay 57:5 62:12	Pennsylvanians
paradox 222:4	108:24	67:6 68:5	248:23
223:9	party 223:16	94:21,25 96:8	Pennsylvania's
parallel 267:4	292:12	97:7 110:10	289:5
paralyzed 199:14	pass 50:21,22	114:22 147:4	
parameters 60:8	150:9 189:20	150:2 166:12,16	<b>people</b> 12:17,18,22 44:7 45:6
	passenger 25:17	167:2 176:25	56:19,21 57:2
paramount 138:11	70:18 72:5 86:9	184:22 202:22	80:11
165:21	120:4,7 142:7	264:3 285:14	84:15,16,17,24
paraphrase 262:7	192:14 210:25	payback 89:4	86:2,22
parent 56:8	219:3 241:10	93:11 95:4,20,25	121:11,15
139:11,18	242:22,25 286:20 287:2,10	96:10 97:8,25 98:9 125:8 167:3	122:13 123:2
parents 293:5	, i		124:3 129:11
302:15	passengers 39:9	paybacks 95:8	141:14,18 142:2
parishioners	passing 150:13	179:2	143:21,22,25 144:4,7 151:19
141:8	153:22	<b>paying</b> 77:9 217:7	154:15 156:23
parking 55:4	passionate 124:23	payment 217:16	157:13
184:10 298:10	past 53:23 107:23	payoffs 123:16	159:4,9,25
	120:13 122:14	1 0	160:3,23 162:24
participate 13:2 16:17	131:10 133:4	<b>Payton</b> 4:16 74:21,23	163:8 168:21
10.1/	177:13 178:23	14.41,43	181:4,16

		ing company	
197:7,23	48:4,6 50:15	<b>based</b> 100:9	236:18 297:17
199:15,21,23	65:6,11	performance-	perspectives 211:2
200:14 205:2,20	70:18,19,21	driven 209:23	274:23
228:10 245:14	71:6,7,14 73:17	uriven 209.23	2/4.23
248:16 251:9	84:2 88:19,22	performed 223:22	persuade 221:15
252:6 254:18	89:16,17,18,19,2	performing 162:4	pertains 63:14
259:12	0,21 95:12 101:7	•	•
264:22,23	103:3,4 117:19	perhaps 54:6	pertinent 121:9
267:15 270:21	118:17 126:21	107:12 144:15	per-vehicle 31:22
272:19 273:19	127:8 128:10	201:20	per-vehicle-so
277:12 281:24	131:2 133:21	period 15:15,17	62:5
283:8 284:9	139:22	17:24 18:2 51:23	
286:4 292:12	146:18,21	74:18 89:5,21	Peterman 272:22
293:22 299:22	148:2,5 154:22	90:14 145:3	petro-dollars
302:12,14,16,18	166:18,20	158:2 174:4	260:8
<u> </u>	172:24	272:20	petroleum 48:6
per 13:9,10	173:11,18	permafrost 159:4	104:4 129:24
21:16,21,25	174:11 177:18	-	258:20,25
22:4,7 27:13	179:13	permit 28:8	238.20,23
31:10 39:19,20	186:4,9,17,18,20	permits 78:9	<b>pets</b> 188:8
40:4,15,16 42:5	187:6 199:18,20	198:18	<b>PGW</b> 202:23
47:22 48:9,23	200:20	Down, 6.0 120.0 0	
54:16 58:8,24	208:12,17	<b>Perry</b> 6:9 130:8,9	<b>ph</b> 277:17
72:16 75:15	222:24 224:3	Persian 216:21	<b>Ph.D</b> 302:2
87:17 89:4 96:20	227:14,16	287:14	<b>Pharaoh</b> 114:18
103:17,18 107:7	242:20 248:10	persists 27:18	
109:22,23 126:5	251:4 253:22	-	pharaohs 115:3
127:12 154:6	258:10 259:2	person 18:12	<b>Pharaoh's</b> 114:23
155:25 166:21	262:12,15	43:24 84:23	pharmacologist
175:14	263:16 287:24	146:17 160:14	129:8
179:9,11,12,22,2	295:18,22,24	163:24	
3 186:15 190:20	298:6	299:12,16	phase 42:10
192:15 195:10		personal 142:10	287:10,16
200:10,11,13	percentage 73:23	144:3 147:25	phenomenon
201:8,9 207:21	percentile 173:2	148:3 151:4,7	158:2
216:13 225:3	<b>perfect</b> 157:14	201:16 221:2	<b>PHEVs</b> 71:9,15
226:11 227:25	239:20	234:9 246:19	72:16
230:22,24 244:8		253:25 254:2,21	
262:20,22	performance 15:3	259:17 276:9	Philadelphia
263:4,7,11,15,18	21:23 24:3 32:10	296:24	1:1,7,17,20 4:7
,22	39:20 40:3,14	personally 164:6	10:5,7 12:2,9
264:4,10,12,15,1	41:5,21	189:14 193:14	45:12 53:21,23
7,19 266:23	59:12,18,23	225:14 256:17	54:25 80:16
294:2	60:24 77:22		86:6,8 120:16
perceive 43:6	94:23 95:19 96:5	persons 84:10,19	121:4 129:6
45:18,23 67:5	101:21 102:12	300:21,23	139:11,23
136:2	103:20 104:4,7	perspective 21:3	140:22 142:11
	136:10 137:14	30:11 50:18 52:4	145:22 149:23
percent 14:16	162:6 165:14	56:7 63:14 64:23	161:6,20 163:25
31:21	166:14 218:3	100:18 125:6	182:20 183:25
37:13,18,21	performance-	171:7 202:9,10	198:8 202:5
39:10,14,15	portor munec-	203:4,6 211:6	203:18 204:8
40:11 41:9			

	eaptar report	O - I - J	
211:4 231:23	198:19	planting 278:2	plummeting
234:25 246:20 253:20,22	271:13,17 282:17	plants 29:4 119:23	243:24
261:16,19,23		216:7	<b>plus</b> 22:3 58:20 195:10 222:19
262:10,12,21	pipelines 251:7	platform 227:9	
263:2,7,8	<b>pipes</b> 200:10	platforms 65:18	pocket 264:16
264:5,6,14,18	placement 220:19	227:3	pocketbook
265:11,19 266:2 268:16,24	<b>places</b> 161:20	platoon 257:2	293:19
281:25 282:4	190:23 195:3	plausible 242:8	pockets 215:25
297:19 300:7	205:6 272:11	play 155:20	point 25:9 27:12
Philadelphia's	plague 114:23	157:12	39:13 40:10
261:25	plagues 114:19	played 29:12	41:25 51:11 59:2
<b>Philly's</b> 263:17	115:3,21	player 46:12	70:18 94:4 238:9 242:20 256:24
philosophy 32:24	plan 18:22 23:20	1 0	259:20 260:4
78:2	30:23 78:14	players 241:5	pointed 221:22
phrase 277:3	106:24 123:13	playing 123:12	-
_ <del>-</del>	254:5	168:5 303:19	points 51:6,9
physical 143:4 152:21	<b>planes</b> 129:22	plays 94:19 139:25	<b>polar</b> 159:3
	planet 25:24 26:10	<b>Plaza</b> 1:19	policies 47:11
physically 49:25 161:24	28:4 50:12	pleasant 115:7	147:19,21 222:20 223:10
	113:12 116:23 130:20 131:3	please 18:15,18,20	224:18 236:20
physician 152:2,3	181:3,9 198:15	19:20,21 20:20	243:20 253:7
159:14 300:20	199:16 201:12	48:21 85:8,9	267:11
Physicians 4:7	252:18 267:15	97:23 145:13	policy 78:21 87:23
53:21	270:19 271:23	189:20 207:4	98:5 147:17
physics 60:25	272:11 273:22	253:11	155:22 174:7,14
pick 204:9 205:8	275:7	<b>pleased</b> 37:6 42:12	185:20 211:21
268:16	282:9,15,21	77:10 80:24	212:21 213:7
picks 185:9	283:16 303:15	146:4 182:25	216:22 220:21
pickup 14:22	<b>planet's</b> 274:19	192:21 198:17	221:8,12 224:18
23:18 35:5 59:9	planned 23:5 42:8	245:8 247:16	240:5,13 275:18
120:3	59:5	pleasure 21:2	277:13 290:7
picture 190:4	planner 278:7	30:10 142:17 228:25	political 45:4,21
_ <del>-</del>	planners 107:9		50:18 87:2 88:12 198:21 240:3
pictures 190:4	277:25	pledged 22:3	242:10,12 274:6
pie 253:6	planning 24:6	<b>plenty</b> 129:23	politically 45:8
piercing 114:15	33:16 56:17	plotting 228:12	123:19 207:13
Pierson 8:3,5	105:15 134:25	plugged 294:3	politics 52:9 86:17
198:4,5,7	150:18,20	<b>plug-in</b> 31:17	266:12 267:10
201:3,4 202:2	239:19	54:13,20 55:12	268:4 279:11
pillar 78:25	<b>plans</b> 14:12	59:8 71:5	<b>poll</b> 93:17 106:10
<b>pinker</b> 129:11	plant 68:14 76:23	106:7,20 144:21	186:10
Pintos 133:2	77:6 79:14	178:12,18 249:2	polled 187:2
Pioneer 103:14	103:24 130:23 268:17,19	plugs 44:6	polls 88:20 186:18
pipeline 28:9		plumes 26:9	pollutants
			ponutants

	eapital Repor	0 1 7	
81:11,15 82:5,14	populations 84:7	205:24 208:8,17	prediction 131:4
83:9,12,15	213:19	219:20 275:8	predictions
162:16	porcelain 178:16	276:8 300:13	272:8,13 289:3
pollute 139:17	portfolio 101:3	potentially 84:7	predicts 45:16
polluters 190:15	106:19 190:3,4	105:11 249:12	288:15
pollutes 247:20	243:20	pounds 262:19	prefer 115:6
polluting 119:23	portion 56:17	263:3,6,11,14,18	238:14
pollution 28:14	301:3	pouring 114:5	preferable 205:23
36:21 69:16	<b>pose</b> 47:7	poverty 84:16	preferences
75:18 80:21	position 30:13	power 29:4 72:20	100:12 107:13
81:8,21 83:9	64:21 70:23	73:7 79:14	preferred 81:17
84:9 110:4 112:10 117:20	95:23 193:19,21 270:23 271:18	103:3,6,8 115:2 116:21 119:23	preliminary 17:9
118:16,25	<b>positioning</b> 187:18	122:4,5	240:18
119:9,10,19	•	140:23,25 144:7	premature 163:9
120:5,8,12	<b>positions</b> 46:25 277:20	154:20 185:17	premise 60:24
132:11 140:8 148:19 154:22		187:5,15 208:10 216:7 295:3	61:3
155:5 156:9	<b>positive</b> 69:20 74:11 122:20		preparation
161:9,15	140:14	<b>powered</b> 106:23 178:5	301:21
162:2,7,8,12,20	224:14,18		prepared 107:4
163:4 213:24	225:10 286:5	<b>powerful</b> 146:17 299:24	116:18 218:7
216:4 220:3,17 233:8 237:9	295:10 300:13		253:21 288:24
239:3	positively 67:23	<b>practical</b> 70:24 123:9 195:16	preparing 105:4
250:17,20,25	192:18	200:2	preregistered 18:9
251:3,4,21	possibility 105:11	practice 122:25	Presbyterian
263:19 269:12	<b>possibl</b> 301:20	practices 290:6	140:21
286:19 288:5 293:7	possible 78:4	practitioner	prescribed 136:4
300:13,16,19	83:22 86:14 96:9	253:19	prescription 123:4
301:13 302:25	97:4 100:15 112:16 120:19	praying 175:8	prescriptive
303:2	141:21 160:22	praying 173.8 preamble 17:8	100:10
pollutions 236:22	195:3 202:19	precedent 283:20	present 17:2 44:16
<b>polymers</b> 102:3,10	203:3 232:17	•	47:21 52:9 198:6
pool 63:22	236:12 252:25 274:7 278:16	precious 155:7	221:24 224:7 235:7 262:14
poor 139:24 142:6	279:2 290:18	precipitation 275:2	289:8 301:2
161:19 288:20	possibly 62:12		presentations 20:8
<b>poorest</b> 234:19	123:15 143:3	precisely 272:13	presented 123:22
popping 54:16	177:22 252:24	<b>predecessor</b> 67:18 80:15	•
popular 65:8	post 42:11		presenter 253:24
208:21	post-2021 34:7	<b>predict</b> 24:9 33:8 43:14 130:24	<b>presently</b> 45:14 48:3 97:16 195:5
popularity 219:15	potential 60:9 62:2	131:25	
populated 182:20	72:13 74:6 101:6	predicted 43:15	presents 33:13 76:13
population 84:21	119:13 120:20	248:19,21 275:4	
146:22 302:6	130:3 136:9 170:11 187:12	predicting 207:20	preservation 73:13
	1/0.11 18/.12	r-133000 507.20	13.13

		ing company	
preserve 14:24	66:22 67:17,19	251:10 267:14	35:24 41:7 47:10
109:16 111:12	70:5 75:8 89:9	privilege 235:7	53:7,11,13 60:2
236:9 282:10	90:21 92:2	•	71:9 94:9 103:17
preserved 74:4	94:4,21 107:11	<b>prize</b> 286:23	111:18 133:21
_	178:24 215:18	proactive 194:13	182:4,8 214:6
preserving 77:21	217:11,15	probably 86:2	249:3 258:11
261:2	239:20	178:14 229:15	288:17
president 14:10	241:14,23 242:7		products 31:19,24
20:24 24:25	243:21	problem 50:11	32:17 121:18
27:2,4,6,10 28:7	prices 13:23 33:22	51:16 144:9	146:14 203:2
43:14 53:20,24	38:21 59:13 75:5	153:4 162:3	205:15
55:20 62:24	88:23 90:20	199:3 211:25	
64:11 76:20,23	94:22 95:6 96:12	212:6 248:2	professional 1:23
92:19 104:22	98:2 111:23	303:24	56:7,16 151:25 170:20
149:20 172:21	134:5 167:5,8	problems 118:2	
229:25 231:8	185:5,8,9 218:5	144:8 152:9	professor 51:11
235:5 248:14	222:10,13,16	161:15 162:21	214:17
265:17	240:7 241:24	163:20 164:18	220:11,13
266:3,7,12 267:8	243:25 269:10	181:17 182:4	239:15
268:3 271:16	pricing 221:10	212:18 225:13	profitable 197:7
287:5 290:23	•	257:22 299:14	303:7
297:6	prides 54:9	procedures 35:17	<b>profits</b> 116:21
presidents 26:25	primarily 34:25	82:15 128:3,7,22	227:15
president's 125:17	131:20 155:14	proceedings	
*	163:24 244:6	19:6,23	<b>profound</b> 259:17
Presidents 231:6	278:12	ŕ	300:21
President's 198:17	primary 60:20	process 13:3 18:9	profoundly 117:2
presiding 12:16	81:9	34:10,11,18 62:17 121:19	program 13:13
19:14	principle 73:8	133:5 215:5	14:2,5,11,18,21
pressing 27:24	149:6	240:18	29:9 30:21 38:7
209:21			40:23 52:5 55:6
	principles	produce 32:18	57:17,22,24
pressure 198:21	59:20,22	93:6 102:3,15	58:13,14 59:18
251:6 272:3	prior 42:21 63:23	111:14 125:20	60:20 72:3,7,12
pressures 116:19	64:24	136:2 231:13	73:14 74:6
208:20	priorities 55:7	291:21 298:6	77:19,25
presumably 125:3	147:17 164:3	produced 126:7	78:6,9,11,13
-	nuionity 105:20	producer 267:6	79:18,25 92:22
prevent 162:3 209:5 275:21	priority 105:20	produces 208:12	111:12,17
	pristine 27:25	-	125:19 134:9,17
preventing 80:19	<b>Prius</b> 54:10,13	producing 100:18	135:17 136:16
previous 61:10	106:3,4,6,7	103:25 111:4	139:2 176:16
65:24 70:10,22	142:15	148:20 178:15	206:14,22
141:19 212:23	202:17,18,20	<b>product</b> 24:6 31:5	210:5,17
222:23	203:24 204:20	33:16 58:10,19	216:9,18 219:14
previously 71:12	293:9,13,21	60:11 78:3	245:21 248:2,25 249:9 287:20
78:7 304:8	296:19	101:12,13,18	288:11
	private 86:9	105:15 107:8	
price 33:4 38:19	162:25 212:17	174:3 207:12	programmer
41:12 51:22	238:14,17 241:4	production 31:14	143:12
55:12 56:14	, , , =	F	

© 2012

	<u>eaptar repor</u>		
programs 14:9	240:13 241:21	65:16 68:22	186:17 218:12
37:9 41:23		69:20,24 70:15	235:6
198:11 209:16	properly 82:16 207:15	71:3,24 72:15	<b>propped</b> 259:25
215:12		74:7 75:10 78:25	
progress 25:19	property 238:14	81:2,9,18	prospective 93:5,9
40:24 69:21	proponents 94:24	82:6,11 83:5	94:20 96:7
74:12 147:10	232:12	87:15 91:10,18	97:7,9,21 98:8
218:13	proportional	92:6 98:23	prosperity 187:8
	38:18	100:24 104:13	213:16 214:9
progressive		106:13 107:5,17	<b>protect</b> 47:9 51:14
192:16 245:15	proposal 1:2,18	108:3 109:20,24	57:6 80:14 83:3
progressives 47:2	13:5,25 14:13	110:7 113:4	111:21 150:15
prohibition	15:10,21 17:14	116:18,25	161:16 163:18
136:23	20:4 21:9 22:13 23:11 24:18	117:25 118:13	209:8 213:22
Project 3:20	30:20 34:4 35:16	119:8,14	234:11 236:9
46:22,23	37:5,7,23	125:16,22 126:4	238:4 243:20
,	39:5,23 40:6	127:10,13 130:2	250:18 258:14
projected 13:13	42:13 73:8,15	133:8 134:18	260:16,20
26:22 41:17,21	74:5 77:12 82:14	135:5,12 136:22	270:19 274:4
58:7 181:10	93:3 94:25 95:10	137:5 138:14,21 139:12	protecting 149:3
243:16	99:25 100:3	150:10,25 161:7	239:3 256:7
289:12,18	101:23	162:15 163:18	
projections 92:5	105:4,6,7,16	165:7,25 167:25	protection 12:13
243:12	125:13 126:19	168:9,13,25	37:2 52:3 80:24
projects 41:10	132:13 134:15	183:2 187:21	109:7 113:14 116:21 125:11
71:4 251:7,11	138:9 139:19	192:13,24	134:8 207:23
<b>prolong</b> 260:11	140:13 176:4	193:22 194:12	225:23 266:9
	201:6 215:11	198:13 200:22	290:11
promise 27:10	218:16 256:5	206:3,6 207:25	
28:18	267:3 268:25	208:5,16 213:11	protocol 190:9
promises 248:25	286:18 290:14	214:23 215:4	<b>proud</b> 25:10
promising 68:19	291:22	216:11 217:4,23	160:20 191:19
	proposals 112:24	219:18 220:5	226:5 256:20
<b>promote</b> 108:9 112:12 193:22	240:20 285:22	221:3 223:6	<b>proudly</b> 199:17
225:8 234:12	proposal's 94:14	224:5,6,8,21	proven 241:19
	218:20	225:3,7 236:5,23	-
promotes 108:12		237:4,13,17	proverb 268:15
promoting 112:2	propose 62:4 268:2	239:2,6 240:3	<b>provide</b> 15:10,19
125:23 128:18		241:6 243:4	21:2 22:20 23:19
promotion 258:4	proposed 13:8	244:20 247:25	24:5 26:22 30:10
_	14:23,25 16:17	249:25 255:19	36:11 41:20 56:6
promulgate 82:12	17:3,7,12,16,19,	260:14	57:8 59:17
promulgated 42:7	22 24:7 25:16	266:8,10,18,24 269:11 270:2	68:9,23 72:11,25
promulgation 42:9	26:12 28:25	269:11 270:2	74:16 90:11
proof 152:15	30:25 32:5 33:10	287:7,11,16	98:7,22 100:3
-	34:2,5,21 39:17	288:4 290:5	101:20,23
propagated	43:9 54:5,18 57:19 58:4,12	300:11 301:15	104:12 108:7
260:17	59:18 60:22		110:18 111:7 125:7 127:16
proper 59:17	61:2,16,25 63:6	proposing 23:22	134:14,23
	01.2,10,23 03.0	29:13 39:9 143:6	137.17,43

	<u> </u>	0 - 1 )	
135:18,25	36:1 37:1 38:1	154:1 155:1	257:1 258:1
136:6,11 148:11	39:1 40:1 41:1	156:1 157:1	259:1 260:1
165:13 166:2	42:1 43:1	158:1 159:1	261:1 262:1
206:15,24	44:1,10 45:1	160:1 161:1	263:1 264:1
209:9,24 239:25	46:1 47:1 48:1	162:1 163:1	265:1 266:1
286:20 287:7,17	49:1 50:1 51:1	164:1 165:1,6	267:1 268:1
296:3	52:1 53:1,24	166:1 167:1	269:1 270:1
	54:1 55:1	168:1 169:1	271:1 272:1
provided 14:17	56:1,22 57:1,7	170:1 171:1	273:1 274:1
18:10 22:13	58:1 59:1 60:1	170:1 171:1	275:1 274:1
66:4,21 71:15	61:1 62:1 63:1	174:1 175:1	277:1,9,14 278:1
provides 16:25			* *
17:21 21:22	64:1 65:1 66:1	176:1,19 177:1	279:1 280:1,17
30:20 33:15	67:1 68:1 69:1	178:1 179:1	281:1 282:1
39:6,23 60:17	70:1 71:1 72:1	180:1,24 181:1	283:1 284:1
66:20 73:18 90:6	73:1 74:1 75:1	182:1 183:1	285:1 286:1
103:19 123:12	76:1 77:1 78:1	184:1 185:1	287:1 288:1
135:23 146:24	79:1 80:1 81:1	186:1 187:1	289:1 290:1,7
	82:1 83:1,18	188:1 189:1	291:1 292:1
167:25 223:9	84:1,5 85:1 86:1	190:1 191:1	293:1 294:1
providing 23:19	87:1 88:1,16,20	192:1 193:1	295:1 296:1
24:2 71:25 74:25	89:1 90:1 91:1	194:1 195:1	297:1 298:1
103:5 125:12	92:1 93:1 94:1	196:1 197:1	299:1 300:1
134:11 193:23	95:1,8 96:1,4	198:1,15,16	301:1 302:1
205:17 218:9	97:1 98:1 99:1	199:1,24 200:1	303:1 304:1
226:19 258:2	100:1 101:1	201:1,18 202:1	305:4
268:9 277:10	102:1 103:1	203:1 204:1	publications
Province 170:24	104:1 105:1	205:1 206:1	165:19
	106:1 107:1	207:1 208:1	
provision 218:21	108:1 109:1	209:1 210:1	publicly 22:3
provisions 22:14	110:1,24 111:1	211:1 212:1,17	231:24
34:5 60:22 72:8	112:1 113:1,8	213:1 214:1	<b>public's</b> 95:9
73:12 135:14	114:1,21	215:1,8 216:1	-
206:11 215:11	115:1,22,25	217:1 218:1	<b>published</b> 40:8 62:18 211:13
218:16	116:1,25 117:1	219:1 220:1	
	118:1 119:1	221:1 222:1	220:16
prudent 234:7	120:1 121:1	223:1 224:1	Pulitzer 286:23
psyches 191:10	122:1,19 123:1	225:1 226:1	pull 200:6 297:23
psychotherapist	124:1 125:1,4,12	227:1 228:1	-
121:10	126:1 127:1	229:1 230:1	pulmonary 301:7
	128:1 129:1	231:1 232:1,21	pulmonologist
public 1:1,17,24	130:1 131:1	233:1 234:1	152:2
12:1,9,21 13:1	132:1 133:1	235:1 236:1	pump 75:12 76:6
14:1	134:1 135:1	237:1 238:1	109:15 110:19
15:1,11,12,19	136:1 137:1	239:1,22 240:1,7	118:18 119:3
16:1 17:1,2,22	138:1 139:1	241:1 242:1,11	127:14 166:17
18:1 19:1,10	140:1 141:1	243:1 244:1	193:9 217:6
20:1 21:1 22:1	142:1 143:1,18	245:1 246:1	245:25
23:1 24:1 25:1	144:1 145:1,16	247:1 248:1	
26:1 27:1	146:1 147:1,15	249:1 250:1	<b>pumps</b> 262:18
28:1,13 29:1,23	148:1 149:1	251:1,9 252:1	purchase 15:2
30:1 31:1 32:1	150:1 151:1	253:1 254:1	51:8 63:17 66:15
33:1 34:1,9 35:1	152:1 153:1	255:1 256:1	193:6 202:25
	104.1 100.1	455.1 450.1	175.0 202.20

	eapital repor	0 1 7	
217:14 223:11	139:23,24 159:6	186:15 241:9	88:5
241:23	160:4 161:19	296:2	reached 32:16
purchased 32:20	163:19 194:8	rally 301:8	reaching 58:7
204:20 229:3,6	254:10 276:10	<b>Ram</b> 59:9	126:11
265:12	279:6,19 288:20 289:25		readers 179:4
purchaser 94:21		range 14:21 32:9,20 38:4	
purchasers 44:12	quantified 22:22	72:2 115:25	readily 97:11
93:5,9 96:7	quantity 137:10	134:14 165:9	reading 50:13
97:7,9,21,25	quarter 258:9	169:6 219:7	52:25 270:25
98:8	question 52:22	230:11	readings 272:24
purchases 52:5	60:10 87:25 88:2	ranges 264:4	ready 20:14,21
95:2 242:4	115:16 160:18		85:8 89:24 91:3
purchasing 229:19	175:21 224:17	ranging 148:24	93:10 124:10
•	questions 20:9,12	ranks 156:13	174:13 214:15
purpose 84:3	52:19 85:5 98:12	rapid 73:3 108:9	real 22:20 61:21
171:3 238:23	124:7 151:15	265:18 275:7	84:23 97:9
pursue 58:18	187:24 261:7	rapidly 209:18	146:24 178:24
234:12	quickly 63:4 78:3	rare 86:2 201:21	234:3 239:5
pursuing 62:10	103:8 120:4	rarely 93:10	242:7 250:16
106:18 136:12	167:8 200:20	203:24	258:8 296:4
push 76:15 128:20	278:15 279:23		realistic 247:14
166:6	quite 130:18	rate 39:9,13 40:11	reality 89:14 91:19
<b>pushed</b> 161:25	137:10	41:9 62:9 70:12,20,23	113:21
pushing 191:21	<b>quote</b> 35:4,6,8	71:2,13,22 74:15	197:11,17
•	51:4 125:19	221:24 224:9	201:24 243:15
puts 215:14	198:25 220:23	rates 26:8	275:25 276:14
<b>putting</b> 29:21	221:4	39:17,19 70:17	realize 196:8
116:20 131:23	quotes 125:21	71:3 135:7	200:23 253:11
132:21 141:25 158:7 168:5	•	222:14,20	realized 278:9
210:12 215:24	R	237:10 247:8	really 44:7 50:17
231:12 258:15	Rabbi 112:22	rather 45:24 46:2	87:4 93:16
264:15 268:4	252:5	94:10 100:9	145:13 152:8
303:10 304:2	rabbi's 127:4	145:9 164:19	153:4,8 155:23
<b>Pyrch</b> 6:15	race 113:22	166:16	157:15 159:12
140:19,20	116:22 168:6	172:11,18	164:19 179:17
,	198:15	238:13 291:18	190:21 191:2
Q	Rachel 9:20	rating 65:10	204:14 248:13
<b>Quaker</b> 163:24	249:22 250:3	ratings 21:20 65:3	257:23 261:9 269:16 283:7,10
164:2,6 273:20		165:14	284:22 292:5
Quaking 289:11	racing 161:17	rational 96:7	297:15 299:4
qualify 95:17	rains 272:17	rattling 173:21	realm 109:25
219:11	raise 91:12 92:10 112:3 127:20	RAV4 106;22	real-world 94:18
quality 12:12 32:2	240:20 283:21	229:3,7,12	108:8
57:4 103:19		230:7,11	reap 119:9,25
109:6 111:7	raised 40:21 176:2	ravages 275:21	rear 46:2
138:10	raising 184:19	reach 22:3 26:14	1 tai 40.2
		1 Cacii 22.3 20.14	

© 2012

	Capital Report	0 1 7	
reason 51:17,25	recession	recurred 114:9	237:19,22 256:7
60:20 84:4	295:19,22	recycle 202:25	290:8
90:18,24 113:10 122:2 135:5	recharging 209:7	recycling 203:13	reduction 32:16
151:3 154:19	reclassify 219:3	red 300:22	37:24,25 38:18
155:2 169:23	recognition 23:25		48:8 49:4 70:16
172:7 173:23	207:25 236:19	re-double 96:22	77:2 78:21 81:25 82:13 100:6
175:15 186:24	242:11	reduce 27:11	102:9 112:10
191:9 247:5,12	recognize 27:9	28:11,20 31:6,20	120:6 129:22
266:18 302:9,21	29:6 41:13 43:11	37:10 47:25	178:21 214:5
303:13 304:7	47:6 72:19 99:23	48:6,11 51:17	216:19
reasonable 19:17	150:14 238:15	56:24 69:25	224:15,24
66:22 72:17	273:21 278:20	77:19 81:3	242:15 246:5
82:18 243:12	280:22	83:4,24 88:24 100:20 102:8	reductions 22:21
reasonably 100:24	recognized 27:2	100.20 102.8	40:18 61:22
	62:4 77:13 90:11	103.9,12	71:17 74:4 78:16
reasons 50:7 52:8	152:17 205:21	118:24 125:14	83:11 107:12
65:15 86:7 113:6 129:23 150:6	209:4	126:14 127:10	108:8 120:8
154:8,18 155:24	recognizes 24:8	132:7,11 140:4	212:8 216:24
192:9 194:11	57:21 61:19	147:19,25	288:8 290:16
202:15 214:2	81:13 91:19	150:11,24	reeducation
232:22 241:7		153:21 170:2,12	121:13
256:13 283:7	recognizing 72:17	171:23 172:5,6	reevaluate 128:2
reassess 135:6	recommend 23:3	173:17 174:2,10	
	267:3	183:11 185:13	refer 212:4
reassessment 79:5	recommendation	194:7 195:6	reference 127:22
Rebecca 2:12	52:24	200:15,19 206:8,17 212:19	references 61:23
16:23	reconsider 35:24	213:24 215:12	referred 208:4
rebuttals 19:3	137:8	216:3,9,12	
recapture 102:19	record 18:25	225:11 226:9	refine 78:6
received 141:16	19:4,15,22 67:24	232:23 233:6,12	refineries 103:21
	82:10 131:8	245:23 250:15	189:18
receiving 14:13	207:6	263:17 268:6	refining 38:14
23:15 141:19	272:15,17,20	287:4 298:20	reflect 34:23 35:25
recent 89:9 110:22	273:2,6 284:14	reduced 28:18	59:20 82:16
118:7 166:9	305:9	38:7,9,15,16,17	100:25 209:25
217:22 220:8	recorded 131:11	39:2 75:19 99:22	reflecting 239:21
295:15	246:16 273:3	123:16,24	280:4
recently 15:18	recorder 20:18	162:19 220:25	
40:8 51:20 58:25		224:11 289:14	reflects 59:24
114:10 117:25	recording 277:9	reduces 139:16	100:16 274:16
161:22 184:10	recoup 41:13	reducing 27:4	reform 244:11
186:3 192:4	recovery 109:13	47:12 72:6 81:8	291:11
220:16 223:2	recreation 302:19	104:9 113:7	reforms 200:9
227:9 270:17 286:24		129:24 133:24	refrigerant 98:19
	recreationally 289:23	139:14 148:5,15	101:5,7,9,15,16
reception 18:11,18		168:4 173:15	206:24
recess 180:16	recruits 46:25	178:5 220:17	207:11,18,22
	1	224:18 236:22	208:11,18,21

	eaptar repor	0 1 7	
209:6	17:13,17,19 24:5	releasing 199:6	reminded 20:11
refrigerants 72:14	30:25 33:12 49:22 54:5,18	relentlessly 199:4	reminder 27:21
101:25 135:9	49:22 34:3,18 63:7 66:24 68:22	relevant 212:9	remove 221:14
136:14	69:2 105:10,12	241:3	removed 103:25
205:23,24 207:8	113:4,5	reliability 64:17	
208:2,7,13 209:10,13,18	125:16,22	165:15 274:21	renewable 55:8 183:13
210:9	126:19	reliance 215:20,24	
	127:13,16	232:23 243:9	repair 244:12
refugee 148:24	128:21	266:17	repeat 85:18
refuse 267:13	138:19,22	reliant 228:7	131:17 239:6
refusing 275:19	150:25		292:9
refute 243:11	151:4,10,12 159:12 164:12	relied 215:6	repeatedly 88:2
regard 44:15	206:20 209:5	relief 80:20 110:19	repetitious 19:16
137:5 150:17	210:4 236:20	religion 236:25	replacement 102:6
206:11	245:22 260:14	238:6	•
regarding 17:2	266:8 274:14	religions 236:2	replaces 263:12
34:6 63:16 98:23	295:4,8,9 302:7	238:3	replicate 290:19
249:25 277:13	regulatory 17:9,20	religious 115:24	reply 279:22
regards 296:7	30:8,22 57:16	121:5 141:4	report 94:17
Rege 6:11	104:23 128:15	236:18,24	110:22 113:2
133:12,13	209:8,16,19,23	237:16 239:8	118:7 217:22
·	215:5 218:24 240:23,24 241:3	rely 38:25 86:9	reported 1:23
regenerative 102:17	ŕ	155:14 226:17	247:2
	reiterate 62:13	remain 15:16	reporter 1:24
regime 259:11	reject 28:8 66:18	29:24 68:4	19:7,22 85:10
regimes 51:7,8	rejected 266:7	126:16 173:9	180:12 276:21
289:21	rejection 238:13	258:12	304:18 305:4,24
region 56:21 173:6	271:12,16	remained 89:20	Reports 7:15
269:20	related 17:7,14	remaining 241:8	165:4,6,9,17,20
regional 108:21	20:9 270:6 273:8	remains 83:10	166:9 179:9
regions 242:10	305:12	103:24 107:10	196:6
registration 19:7	relation 6:20	137:15 301:13	repositioned 51:13
	145:22	remarkable 44:7	represent 65:5,11
regular 177:7 178:16	194:23,24	81:7	85:23 140:22
	relationship 269:3	remarkably 222:5	149:4 169:18
regularly 64:7	relative 34:21	•	218:13 219:19
263:8		remarks 3:3 16:7 18:16 19:4 24:16	232:2,3 239:4 241:3 277:5
regulate 267:14	relatively 83:11 152:10 167:5		278:14 281:17
regulation 17:23	225:12	remediation 302:11	296:11
30:15 61:19	relax 296:15		representative
100:17 104:13		remember 84:22	49:12 74:21 85:9
108:16 130:2 159:24 221:11	release 21:23 26:8	157:11 159:17 172:20 293:3	124:20 125:2
276:15 294:4	94:13 211:11	298:7	representatives
295:6	230:3		3:22 4:17 5:6
regulations 16:19	released 263:14	remind 18:16 84:4	12:24 225:23
regulations 10.19			

280:16	196:5 210:2	222:12 294:20	results 75:23
represented 37:20 207:13	220:20 284:17 288:11	responded 67:22	298:15 retail 39:3 63:13
207.13	1 276 20	respondents 88:19	retail 39.3 03.13
representing	researcher 276:20	89:3 186:14	retailers 69:2
14:16 15:23	researchers 40:9	magnanding 124:2	86:22
80:10 176:9,23	222:8	responding 124:3	4 <b>J</b> 04-10
266:5 276:25	researches 64:15	responds 206:7	retard 94:10
wanwaganta 66.7		response 207:7	retired 152:2
represents 66:7 133:16 212:10	resembles 275:18	221:2,9	169:14
219:25 261:21	reserved 26:15	responses 20:12	270:18,22
	reserves 146:19,23	-	296:11,14
repurposed 265:9	198:25	responsibility 4:7	300:7,20 301:25
reputable 176:23	reset 66:20	9:13 53:22 79:8 191:3 232:4,18	retiree 299:3
request 18:12		233:15 234:9	retooling 111:14
19:25 40:20	resident 56:6,8	235:13 234.9	retrofitted 167:18
83:19 125:17	129:6 139:10		
163:17	300:7	responsible 37:17	return 222:6
require 34:6 66:11	residents 129:10	79:11 148:22	revealed 58:25
67:10 71:21	150:22	199:13 223:24	186:11
126:4 137:13	residing 238:6	232:5 273:24	reveals 236:8
168:21	<u> </u>	responsive 222:9	
208:10,19,23,24	resist 198:20	rest 91:13 130:4	revenue 185:2
245:22 268:3	resistance 177:10	259:19	227:15
294:16	197:24		revenues 185:6
required 62:7,9	resonates 64:23	restate 138:25	244:6 258:25
95:9 103:9 104:9		restaurant 187:25	259:3,25
120:3 132:22	resource 148:25	restaurants	Reverend 140:19
221:8 276:4	174:19 223:3	157:3,5	235:16 261:12
279:8	257:24	,	265:24 279:23
	resources 23:14	resting 106:16	reverse 144:13
requirement 40:11	30:19 105:3	restraint 113:25	
70:12 137:5,9	118:22 134:9	restricted 61:9	review 24:13
173:8,18 303:19	149:14 208:25		34:17 36:12
requirements 14:8	215:3 234:11	restriction 137:2	59:23 60:4 66:20
24:7,14 30:16	238:10,16,22	restrictions 162:23	74:5 78:24 79:5
59:23 78:11	282:17,20	230:3	91:20,23 92:9
124:2 132:14	288:16,25 304:5	result 31:4 39:18	107:20,21
134:3 137:20	respect 35:15 82:4	40:3 81:10,18,20	121:19 135:6
138:5 168:12	83:8 94:15	101:12 107:19	138:20 220:23
184:20 186:15	143:15 192:11	110:25 114:3	221:4 224:13
210:8 303:25	236:11	116:16 181:10	278:19
requires 144:10	287:9,15,21	185:11 207:11	reviewed 271:4
147:9 266:21	respecting 61:12	212:19 216:18	reviews 279:4
273:24	•	223:6 224:2,23	
requiring 280:9	respective 34:23	243:17 246:11	revise 267:2
	215:3	283:15	revision 267:8
requisite 265:13	respiratory 237:10	resulted 114:16	revisions 74:6
research 45:16	respond 40:21	resulting 134:4	revitalized 56:19
68:13 87:11 156:3 160:12	107:17 146:25	242:21 275:24	revolution 43:7,23
130.3 100.12	173:14 221:16		10,0141011 73.1,23

	сарна кероп	0 1 - 7	
44:9	241:12 243:2	82:6,11,12,20	<b>S.p.A</b> 58:16
revolving 34:15	244:4,5,12	83:8 87:15 91:18	saber 173:21
rewarding 75:2	257:15 293:25	98:23 99:19 100:9,15 125:5	sacrificing 166:8
rewired 184:10	roads 160:5,6 172:5 244:10	133:8 162:17	<b>Sadly</b> 291:18
<b>Rhode</b> 69:19	roadside 259:23	163:18 167:25	safe 105:22 132:11
rich 299:4	roadways 38:15	206:4,7 208:5,16 210:11 213:11	168:15 248:20
<b>Richard</b> 151:22	v	214:4,10 224:6	258:2
richest 160:16	<b>Robin</b> 3:11 24:22,24 49:16	225:3 245:13	safely 103:8 257:4
<b>Rick</b> 7:16 169:14	robust 34:17	255:19 287:7,17	safer 292:21
	rodents 288:22	290:5	299:25
rid 54:11 154:11		ruled 177:21	safety 15:4 16:13
ride 189:9 202:19	<b>Rogers</b> 7:10 161:3,4	rulemaking 17:8	32:11 64:8,17 68:17 80:25
<b>rider</b> 195:8	ŕ	19:11 21:3 22:6,9 30:11	102:9 103:4
riding 189:6	role 29:12 61:4,25 94:18 139:25	34:19,21 35:3	109:8 112:24
<b>rights</b> 232:19	170:23 246:6	36:12 60:17	125:18
rigidly 279:20	291:13	62:17 70:10	165:15,21 168:14,17,20
Riley 4:12	roles 215:3	74:11 77:12 98:7	175:12 215:2
62:21,22,24	roll 250:17	rulers 114:20	225:24 241:10
ripe 22:19	rollout 105:25	rules 19:13 33:10	243:13 245:18
rise 26:4 150:8	Ron 2:10 12:14,15	57:20 59:19 69:22 74:13	249:18
181:25 240:13	16:6,9,12	81:10 87:22	<b>sailor</b> 171:10
rises 242:7	Ronen 8:7	88:9,15 123:11	sailors 172:4
rising 38:20	202:3,4,5	128:9 175:13	sake 55:24 185:21
103:17 115:22	room 46:14 141:22	183:5 207:25 240:17 241:6	228:14 245:2 274:8
151:7 187:3 218:5 222:15	163:8 196:3	287:11 295:2	
242:8 302:20	197:2 265:6 298:17	ruling 146:24	sale 71:14
risk 33:17 38:17	rooted 267:11	run 18:4 56:23	sales 21:24 22:2 63:20 65:6,12
60:15 82:24 84:8	roots 25:2	73:4 94:5 147:6	66:5 67:24
91:5 161:14		156:18 184:2,7	71:6,7,15,20
162:21 163:20 182:13 215:16	<b>Ross</b> 9:16 239:13,14	188:13 189:6,9 252:21 294:3	73:8,23 94:14 95:13 133:20
260:15	roughly 58:9	running 63:12	243:15,18
risking 269:19	75:18 146:20,21	123:24 129:18	San 15:14 25:13
270:4	172:24 200:12	145:9	sanctions 259:10
risks 38:16 183:9	219:5 248:10	runoffs 160:5	
209:20 258:15	rubbers 102:11	runs 188:7	sands 28:3 198:18,24
risky 55:15 251:7	ruining 114:25	rush 55:13	sang 285:21
river 117:24	298:17	rushing 239:25	satisfactory 95:7
131:8,16	rule 29:25 35:7 42:7,9 60:22	Russia 116:9	satisfied 86:19
rivers 160:6 293:6	62:18 69:20	272:15	satisfy 14:7 69:5
road 46:2 106:11 159:22 182:23	70:15 71:2,24		86:21
107.22 102.23	78:25	S	<b>Saudi</b> 27:14

	Capital Repor		
146:16 216:16	schedule 151:10	seasons 297:19	294:20 295:9
save 13:13,20	scheduled 15:17	seat 195:17,21	sedan 58:23 65:9
44:10 52:7 75:11	18:4 82:21	seated 16:21	sedentary 275:19
76:13 87:16,18 109:15 110:5	schedules 16:16	Seaver 11:20	seeing 144:4
119:2 126:11	scheme 128:15	301:24,25	171:16
127:13 166:17	school 11:5,7	second 15:11	177:6,8,9,24
167:23 169:4	56:23 64:2,3	41:10 52:23	184:23 274:25
184:4,9 185:23	75:6 150:21	53:15 85:24 89:7	280:11
187:17 193:8	205:9 211:5	113:10 120:2	seek 68:10
199:21,23 217:5,12 223:5	230:15 257:19 269:18 280:16	221:12,19 229:7 236:25 267:6	seeking 233:12
245:24	302:2	236.23 267.6 275:10 279:11	seem 61:8 170:17
248:22,23			212:15 253:9
264:14	School's 281:17	Secondly 61:15	269:24,25
saved 162:19	science 61:7,8 99:10	Secretary 51:19	seemed 254:24
163:13 204:23	211:14,18,23	section 98:5	seems 51:15 86:18
222:24	220:21 222:23	sector 28:22 83:14	115:7 160:17
saves 26:18 270:3	246:23	111:13 199:8	229:22 242:8
290:17	266:12,14	212:13 225:9	278:23 293:9
saving 13:21 26:18	267:10 268:4	241:4 262:4 290:25	302:6
33:22 50:8 76:5	274:17 279:5		seen 28:4 43:19
111:5 112:4	284:18	sectors 115:20	65:17 92:4 127:2
118:17 140:12	scientific 82:22	212:3 290:20 291:7	129:10 151:11 219:7 221:6
167:15 205:4	181:7 211:10,13		243:24 265:20
248:2 251:17 265:5	271:4	<b>secure</b> 47:19 146:9	284:18
	scientist 130:24	security 3:20	sees 113:11 177:14
savings 13:21 26:18 38:3 70:6	211:3 212:14,21 213:7 276:20	22:11 26:25 27:3	238:6
75:14 95:3 97:19		29:22 32:16 46:22,23,24	
110:17,20 112:9	scientists 9:5	47:3,5,8,16,17,2	segment 138:4 219:16
118:4,20 119:10	118:22 131:25 207:9 214:21	3 48:24,25 49:8	segments 94:16
120:8 176:5,6	223:3 271:2	50:8 51:2 56:15	Ŭ.
194:5 216:17,23	Scion 106:23	92:12 100:7	<b>SEIDMAN</b> 36:17
217:9 223:7		118:6 119:7	42:4
241:24 242:6 248:20	<b>scope</b> 138:8	134:6 135:16 141:18 147:7	<b>Seidmen</b> 3:15
287:18,20 296:4	scorching	141:18 147:7	36:16,18
saw 43:8 106:25	115:7,10	170:2,7,20 173:5	select 100:10
131:13 167:7	scratching 179:24	175:16 209:22	selecting 64:19
186:3	screaming 26:10	212:24 213:2,5	65:18
scale 99:13 104:2	script 180:11	214:9 215:15 216:23 218:15	selection 169:5
193:23	sea 26:4,7 28:2	226:21 227:10	selfish 132:9
scariest 26:6	55:14 173:8	228:7 233:3	self-restraint
scenario 224:3	302:20	239:21 246:15	113:24
scenarios 81:10	search 60:8	251:17 256:4	114:14,15 252:7
289:13,15	<b>Sears</b> 42:17	257:10,20 258:8	self-restraints
	season 275:4	260:20 261:2 287:6 8 9 15 21	253:12
	SOUSON 2/J.T	287:6,8,9,15,21	

	capital hepon	0 1 7	
self-righteous 142:19	271:5 292:10 294:20	share 71:14 133:20 144:9,10	<b>shutting</b> 29:4 216:6
self-sustaining 32:22	seriously 125:9 183:6,8,19	234:5 243:2 253:4 254:2	siblings 277:18
Seligson 7:6	serve 24:24 36:6	261:9 <b>shared</b> 267:5	sides 223:19 227:22 258:18
153:25 154:2,3 sell 69:3 92:21	62:2 64:6 80:7 94:10 99:6	shares 89:11	<b>Sierra</b> 3:12 9:23 10:11,15 24:25
93:22 94:4,6 101:19 167:9,22	144:25 207:22 210:5 239:18	sheiks 227:17	25:5 49:15 210:22 252:3
selling 65:8 178:14	265:25 served 49:19 53:22	she'll 230:15 shift 89:8	270:17 276:23,24 297:4
190:20 send 48:15 269:20	227:2	240:11,14 <b>shifted</b> 27:16	sight 60:9
sending 48:18	<b>service</b> 80:11 84:11 94:5,7	shifting 28:15	sign 18:20
294:7 sends 110:8 163:8	169:15 175:19 228:14 261:6	250:22 264:20 265:3	signals 206:25 signed 12:18 18:18
senior 133:14	291:14 <b>services</b> 64:14	<b>ship</b> 184:8	105:9 147:23 278:22
281:9,13 senior-level	217:20	shock 90:18 241:14	significance 112:4
170:18 sense 29:18 176:22	serving 140:24 session 212:23	shocks 215:19	137:21 <b>significant</b> 21:4
196:18 233:15 234:9 241:6 303:3	setting 34:11 36:4 60:23 90:2,13	shopping 182:23 shore 27:20	28:7 33:13 35:9 50:17 60:15 66:8 67:14 69:4 71:17
sensitive 68:4 84:10 88:10	109:17 223:16 274:14 283:19 291:6 302:4,7	short 76:15 100:2 180:13,16 225:12 229:11 275:9	99:24 100:4 101:20 104:3 126:10 134:4
94:15 sent 291:20	303:16 seven 88:21	shortages 148:25	138:15 146:8 147:2 149:4
sentence 245:11	154:12 287:19	shorten 272:16	162:12 207:19 208:24 219:25
Sentra 296:20	seventh 114:23 seven-time 77:15	shortfall 244:4 Shorthand 1:23	226:20 236:10 248:16 282:12
separate 105:12 separator	Seventy-five	305:4	301:3
102:15,21 separators 103:2	88:19,22 several 17:6 46:8	short-term 159:25 showcase 64:8	<b>significantly</b> 67:18 69:25 81:18
September 148:2	95:5,22 233:7 269:18	<b>showed</b> 186:18	102:14 210:10 218:25 266:15
266:6 <b>Sergio</b> 58:15	severe 237:24 254:11	<b>showing</b> 96:8,9 97:14 156:11	267:18 <b>signs</b> 184:11
series 110:22	254:11 severely 267:14	<b>shown</b> 53:8 89:7 91:2 118:3	209:25 224:17
170:4,6 212:2 223:24	<b>Shalimar</b> 6:13 139:7,10	155:13 211:7	silver 132:10 Silverman 2:7
serious 47:7 117:3 153:4 162:8,21	Shalom 5:18	285:13 <b>showroom</b> 93:20	16:3 279:22
181:8 183:15 212:18 225:13	112:23 115:17 <b>Shapiro</b> 7:24	showrooms 93:10	similar 123:25 193:20 208:21
226:21 233:11	194:16,17	<b>shows</b> 110:24	217:23 224:9 260:6,7 263:12

	Capital Report	0 1 7	
265:9 289:3	sizable 219:15	smog-producing	solve 144:8 175:6
290:23 291:6,25		54:23	205:18 209:20
,	size 15:2,7 35:2		
Similarly 102:10	65:9 90:6 133:2	smoke 157:4,5,6	solved 175:7
104:6 291:2	168:18,19 196:9 252:19	188:21,24	solving 257:22
simple 105:5		smoking	someday 252:21
175:14	sizes 108:13	157:3,4,8,9	somehow 116:12
simply 108:11	168:24	301:10	
128:16 175:15	skeptics 130:21	Smyrna 92:20	someone 161:11
187:13 226:20	skin 247:10	96:17	194:20 245:6
sincerely 160:21	skip 41:25	soar 167:8	292:19
286:17	· 1	social 4:7 53:21	someplace 204:13
single 14:7 28:23	<b>sky</b> 140:7 159:19	99:13 199:11	somewhat 176:15
30:21 59:10	slash 126:13	225:2 232:10	somewhere 174:3
62:14 76:3	<b>sleek</b> 191:6	socially 232:5	son 124:22 140:6
78:10,13	slightly 166:16	society 38:4 43:2	195:21 211:7
79:18,25 92:22	217:16 262:14	75:25 86:11	213:6 214:8
103:7 105:17 134:16 144:16	slow 47:13 90:20	121:4 236:25	256:20
155:16 185:5	200:8 222:5	238:15	Sonata 21:18
203:12 211:25		socket 294:3	65:5,8,21,24
212:5 240:4	slowing 237:23		66:5
294:8	slowly 19:21 85:10	soft 142:22	songs 285:21
sinking 159:5	155:5	soil 48:14 131:15	_
	small 56:9,20	solar 42:24 55:11	sons 130:14 131:9
Sister 231:22	73:22,23 83:7	171:19 184:12	271:25
<b>Sisters</b> 231:22	84:9,18 89:17,20	<b>sold</b> 13:16 14:17	son's 140:14
234:24	125:15 131:6	66:6 106:8	sooner 185:16,17
sit 155:5 296:15	137:23,24	192:14	soot 129:20
	138:3,4 149:25	219:22,23 248:5	
site 19:10	157:7 184:17	ŕ	sophomore
181:13,18,23	185:22 186:3,4,10,11,24	soldier 256:17	281:11,15
sites 165:18	187:2,9,10	soldiers 171:10	Sorrentino 9:6
sitting 30:12	194:20 195:11	172:4 257:6	214:17
situation 195:5	198:9,14 200:23	solely 64:10	220:11,12,13
274:3	273:23 280:4	238:10	sorry 87:5 252:10
six 83:17 88:14,21	302:24	<b>solid</b> 107:4	sort 51:17 174:6
89:19 110:6	Smallmouth	solo 195:19	276:21 285:23
131:11 146:17	131:9,13,18,19,2		sought 100:8
219:5 272:25	4	Solstice 207:11,22 208:11,16,19	215:7
277:16 288:5	smart 56:18	209:2 210:5,10	sound 24:14
six-cylinder 65:23	156:16 174:5	solution 207:14	100:2,17
six-percent	smell 129:14	211:25 212:10	source 36:19
70:12,23		244:11 303:23	37:15,18 83:25
71:12,22 74:15	smells 129:15		228:8 250:25
ĺ	smog 84:8 159:16	solutions 28:11	
six-speed 59:3	163:6 189:19	29:18 144:10	sources 37:14
sixth 91:18	267:9,16 300:13	211:21 212:2,14	38:22 55:8 95:22
six-year-old 278:3	301:10	241:22 257:21	97:16 113:9

	capital report		
129:21 162:12	specifications	301:18	23:24 25:17,21
173:17 183:13	123:23	squandered 29:17	26:13,14,20,22
sourcing 76:14	spectrum 285:24	<b>St</b> 231:22 234:24	27:9,11 28:17,25
south 76:22 77:3	Speculating 60:14	stability 24:6	29:8,13,21,24 30:25
86:5,8 253:19	speech 191:11	103:5 148:17	33:15,18,24
256:22	-	stabilization 212:4	34:3,8,11,14
southwest 173:7	speed 18:8		38:25 39:24
soy 103:16	spend 47:21	stabilizing 29:23	40:25 42:10
<b>space</b> 28:5 117:13	161:6,17 170:3 185:13 187:19	stable 102:4	49:3,5 50:6,15
141:24 278:2,3,7	204:23 205:3	staff 96:24 98:13	51:17 52:24 55:3
	217:20 227:13	128:17 184:7	56:7 57:10,24 58:5,20 60:7,18
<b>Spaeth</b> 7:8 158:19,20	299:7,9 304:11	250:4 291:12	61:3,6,10,11
ĺ	spending 153:17	<b>stage</b> 283:19	63:11 65:16
spark 44:6	164:17 185:17	293:10	69:24 70:8 73:21
speak 19:21 25:8	187:15 217:19	stairwell 254:13	74:25
121:2 122:8	265:2,5 270:18	stake 84:6 116:5	75:10,17,22 77:2
158:21 164:25	spends 161:11	272:3	81:3,6,18,20
180:23 181:2 194:19 202:7	247:24 258:21	stakeholder	83:5,21,22,24
205:8 210:24	spent 56:16 152:5	234:24	86:14 89:2,6 90:2,9
213:22 249:25	169:15 170:19		91:10,12,24
255:23 268:23	172:10	stakeholders 37:8 66:13 67:2 112:8	92:10 99:2
270:13 276:4	257:14,18	176:18 215:8	100:24 106:13
277:12 281:23	spew 29:11 44:18	290:12	107:5,17
296:10 297:5	117:19 263:2	stall 218:24	109:10,18,20,24,
302:8	271:7		25 110:10
<b>speaker</b> 6:7 19:3	spewed 213:24	stand 129:13	112:15
129:4,5 284:15	spewing 28:14	150:9 195:23 223:19 280:22	117:14,25 118:4,13,19,23
speakers 42:22	• •		119:4,9,11,14,15
86:25	spikes 89:9 243:24	standard 22:7 40:14 48:9,23	,25
speaking 20:19	spill 117:23 247:3	59:12 62:14 89:4	120:2,9,12,15
63:4 64:10 69:13	251:13	91:5 92:6,13	121:22 126:4
113:21 143:19	<b>spills</b> 38:17 247:19	105:17 110:7	127:10
270:23 297:10	298:16	112:6,9 118:9	128:10,23
<b>speaks</b> 294:12	spiritual 143:4	120:19 130:16	132:23
special 116:20	273:22	136:4 140:4	134:18,22 135:7,20 136:18
192:7 289:20	<b>spite</b> 143:20	142:25 174:23	133.7,20 130.18
specialty 220:14	<b>sport</b> 191:7	179:25 204:5 6 16 18	139:13 141:11
species 131:2	sports 191:8	204:5,6,16,18 219:12 226:11	143:6 144:12,17
132:2,5 250:23	-	227:25	145:4,12 146:5
289:7,10,23	sportsman 133:7	228:5,11,17	147:4,10 148:13
specific 34:20	spread 234:5	243:4 274:13	149:4,15 154:5
74:16 97:10,25	237:23	301:16 303:17	155:4 156:8
147:19 223:17	<b>Spring</b> 259:13	standards 1:2,18	161:8 162:15 165:7,25
279:6	282:2	13:6,8	165:7,25
specifically 109:5	<b>spur</b> 276:16	14:3,24,25 15:5	167:19 168:22
positionity 103.0	_	16:2 17:5 21:8	169:2 180:25

	1 1	ing company	
183:2,4,8,15,16,	300:11,19	111:6,17 113:8	144:15,16 146:8
	*	,	
18 184:3,18,21	302:5,8	116:12,14 122:5	149:3 155:8
185:12,16,20,23	303:8,12,16	125:10 131:20	198:14 200:23
186:12,16,23,25	304:2,7,12	132:3 148:11	212:11 219:20
187:5,11,13,21	standpoint 115:17	156:4 157:10	239:4 248:7
192:13,24,25	•	158:14 170:8,21	251:19 256:6
193:22	<b>Star</b> 123:25	172:14 180:23	282:11,12
194:2,4,12 196:4	stars 140:8	186:6 190:12	303:17
197:4,10,15,17		194:20 205:21	S4
198:13 200:4,22	start 31:14 39:12	226:6,8 247:24	Stephen 2:7
201:8 202:6	48:10 53:18	249:6 256:23	stepping 29:20
208:15 210:25	124:11 179:24	283:18 289:4	steps 73:13 76:2
212:11 214:25	180:19 200:9	290:13	-
	202:16 230:19	290.13	188:14 200:5
215:4,10	231:11 269:25	<b>station</b> 184:15	213:15 226:9
216:3,11	282:23 285:20	191:9 203:23	245:15 282:13
217:5,18,23	stantad 20.16 42.2	stations 3:18	295:10
218:7,13,19,22	started 20:16 43:3		<b>Stern</b> 9:10 214:18
219:2,19,24	89:24 150:17	42:20,23	220:23 221:4
220:5,6 221:3,21	157:24 188:9	45:12,15,17	224:13
222:23	281:20	46:12,13 55:6	
223:7,13,17,18	Starting 31:8	statistic 84:24	228:19,20
224:2,8,21,23	G	243:3	<b>Steven</b> 9:10 16:3
225:7,14 226:4	starvation 182:5		214:17 228:19
231:25 232:17	state 14:9,15 19:20	statistics 285:13	steward 238:4,22
233:5,6 234:2	20:5 29:6 33:4	status 289:22	ŕ
· · · · · · · · · · · · · · · · · · ·	43:14 49:18,21		stewards 268:12
235:6,24	51:5 68:3 78:12	statutory 61:9	stewardship 164:2
236:6,23	79:24 92:18	Stavens 222:3	239:5
237:4,13,17	116:13 126:23	stay 91:19 184:12	
239:2,7 240:4,21	134:3 146:4	279:3,19	Stewart 4:20
241:2,13,19		,	80:4,5,7 127:23
243:6,13,19	193:13 194:11	staying 48:20	sticker 90:18
244:3,9,13,17,20	223:5 256:20,22	110:20 226:20	241:14
,22 248:16	288:25 289:6,13	steadily 103:16	
249:14,20	state-based 117:11	· ·	sticks 271:17
250:2,16	<b>stated</b> 50:7 147:18	steady 90:13 96:12	stimulate 268:8
251:2,21 253:13		226:17	
254:16 255:5,11	198:23	steady-but-slow	Stockton 230:13
265:15,17	statement 17:16	109:13	stone's 256:21
266:11,19	53:4 171:3		Stones 43:4
267:3,4,10,23	253:21 295:13	steel 68:14,15	
268:2,25	statements	steering 28:10	stood 76:23 77:3
269:11,15,24	19:15,18 20:12	177:10	stop 26:11 115:2
270:2 271:20	284:14		270:22
274:8 276:2		stem 125:16 212:8	
278:17 279:25	states 29:7 36:22	292:17	stop-and-go
280:3,6,9	44:17 45:15,18	stems 258:16	263:23
280:3,0,9	46:7 47:8,15	step 28:24 48:10	stopped 188:21
282.11,19,23	54:14 69:14	54:7 69:20 74:12	199:24
	70:22 71:23		
287:10,11,16	72:15,19 73:15	76:4 83:6 117:16	stopping 211:8
288:3,4 294:25	74:14 82:4	118:2 125:25	<b>stories</b> 113:15
295:14 296:2	105:13 110:5,12	132:15 134:15	256:12
298:13,24	100.10 110.0,12	139:14	

	Capital Report	0 1 7	
storms 273:16	stricter 128:20	struggle 109:12	<b>suburb</b> 149:22
284:21	300:18	struggled 275:11	<b>suburbs</b> 129:12
story 113:19,20 114:3,10,11,18	stride 65:25	stubborn 114:20	154:14
142:10 252:5	strike 19:15	294:13	<b>subway</b> 142:13
straight 18:22	strikingly 260:6	stuck 196:16	succeed 88:2
Strait	stringencies 135:6	students 280:17,21	success 13:25 33:2
173:10,13,22,24	219:7	281:25 283:25 285:24	106:17 109:24 125:23 290:4
strange 269:5	stringency 194:4 280:12	studies 170:5,6	successes 83:7
stranglehold	stringent 71:2	182:17 224:12	177:12
55:19	81:2 134:19	271:4	successful 160:22
strategically 57:6	stroke 230:2	studying 257:19	183:14
strategies 23:12	strokes 163:9	<b>stuff</b> 189:11	successfully
24:2 36:25	strong 29:21,24	<b>sturdy</b> 265:7	107:23 276:25
<b>strategy</b> 30:8 31:5 32:24 36:3	59:22 73:18 83:4	styling 64:17	<b>Sudan</b> 284:19
106:13 242:16	91:4 99:10 109:17 110:10	<b>Subaru</b> 195:12	<b>sudden</b> 188:16
252:25 253:2,10	112:9,15 119:12	subject 50:14	suddenly 158:3
stream 203:12	127:16 138:25	235:25	Sue 10:10 261:13
streams 131:19	141:11 150:10	subjected 161:19	270:12
160:4,6	160:22 161:7 166:10 184:17	submersion	sued 229:24
street 1:20 188:15	186:11,24	190:24	<b>suffer</b> 76:8 80:11 86:11 124:22,23
204:8	197:14 206:15	<b>submit</b> 19:3 25:14 79:20	142:3 162:3
strengthen 109:16 112:10 126:19	215:9 218:22 220:6 225:15	submitted 39:6	253:23
143:3 217:18	226:3,4,10	70:9 171:2	sufferer 76:7
260:25	232:11,22	submitting 24:17	suffering 142:4
strengthened	235:23 244:21 303:8 304:2	suboptimal 222:16	301:6
119:16 185:16	stronger 187:11	subscribers	suffers 161:11
strengthening 126:9 211:17	268:25 297:23	165:18	sufficient 67:6
251:16 267:22	strongest 120:18	subsequent 182:23	suffocate 155:5
stress 151:7 153:9	274:7	subsidies 32:23	<b>suggest</b> 179:6 291:15
245:10 288:19	strongly 25:16	substance 137:13	
stressed 131:22	35:23 59:10 70:25 109:19	substantial 24:4	suggestion 229:25
248:13 288:16 289:18	121:22 122:24	66:12 110:18	suggestions 127:24
stressors 131:22	133:8 147:18	134:24 135:3 136:9 207:17	suicide 227:4
stress-related	151:9 175:11 198:12 200:21	substantially	suit 265:16
181:22	214:23 228:16	33:23 67:16	sulfur 81:21
stretch 274:14	267:2 295:7	81:24 162:15	sum 210:15 263:16
Stricker 5:13	structured 108:12	236:22 237:13	summary 74:9
104:20,21,22	218:21	<b>substitute</b> 152:14 209:3	104:11 168:25
strict 86:14 123:11	structures 177:11	207.3	225:6

	- Capital Repor		
summer 15:21	168:25 170:20	165:11 170:16	swiftly 274:4
105:9 120:19	174:14 175:11	185:4 197:10	Switzerland
161:13 182:7	184:19 185:19	253:8 272:7	156:14
229:2,6 244:22	186:15	279:4 299:9	
271:12 272:15	192:13,23	301:8	synthetic 102:11
273:5 297:20	194:11 198:12		system 27:22
	200:21 201:6	surely 262:9	72:11 105:14
summers 114:12	206:13 209:8	275:14	135:22
summit 140:21	210:24	surplus 21:15	136:11,13 138:9
190:8	211:18,20 214:2	222:18	208:10 219:13
sunshine 55:12	218:22 221:12	surprising 126:18	258:24 259:4
sunsinne 33.12	225:7,14 226:19	153:3	
supercapacitors	231:24	155.5	262:4
102:16		Surprisingly	systems 101:11,22
suppliers 111:6	234:2,14,21	277:22	102:18 107:22
133:18 184:22	235:24 237:4	survey 93:17	182:14 205:25
	239:11 255:12		206:16
249:4	256:18 260:14	166:9,18 186:3	208:20,23
supplies 51:14	268:24 270:2	surveys 176:13	223:22
258:14	274:12 277:9 282:4 283:22	survival 279:18	238:19,21
<b>supply</b> 87:21	295:13 304:13	Susan 7:18 10:12	251:12
106:16 148:12		180:19,21	
160:7 167:12	supported 14:19	280:20	T
184:24 226:17	22:6 61:7 126:20		table 18:11,19
228:9	235:11	Susanna 11:6	19:7 190:3 240:5
252:18,19,21,22	supporter 139:11	281:14 283:5	291:4 292:15
302:9 304:7	161:7 197:14	susceptible 215:11	
supplying 78:10		-	tackle 76:4 117:17
216:25	supporters 25:9	suspect 278:23	245:16
210:23	109:2 214:22	Susquehanna	tailpipe 44:19
<b>support</b> 14:10,17	supporting 17:13	131:8	79:13 237:6
17:10 22:8,13	44:24 59:15	sustain 57:4	240:9
25:16 34:18,21	146:2 151:3	226:18 257:25	
37:6 42:12 48:20	176:16 213:23	258:2 269:21	taking 16:15 121:7
52:8,9,14 59:19	238:24		171:13 176:19
61:3 62:13 65:15		sustainability	183:18 192:17
71:19,23 72:15	supports 22:12	54:10 64:9 68:21	214:3 228:25
73:5,8,15	37:8 40:2 58:14	77:16,17	231:11 250:9
74:4,24 76:25	59:10 60:20	150:18,20	251:18 256:14
77:11 82:11,15	61:15 92:22	232:13 234:15	261:8 285:11
88:17,25 89:3	105:5 107:20	sustainable 75:2	286:2
91:21 99:25	108:6 109:19	76:3 213:3	talk 21:10 96:19
101:25 104:12	123:9 133:8	220:18 232:9	178:9 247:23
105:16 109:2	137:22 207:24		254:18 284:23
113:4 116:17,18	210:15 214:23	sustained 240:14	302:3
120:15 123:21	258:24	257:6	
120:13 123:21 129:25 135:5,11	<b>suppose</b> 241:23	SUV 196:25 243:2	talked 51:20 95:23
136:17 138:9,25	277:24		174:18 253:24
140:3 147:18		SUVs 14:22 89:17 242:22	<b>talking</b> 156:23
149:14 150:10	sure 52:11,15		178:8 196:25
158:25 165:7	85:16 100:13	sweat 114:5	197:2
166:10,20	113:16 115:4	297:12	talks 51:12
100.10,20	129:15,21		taik\$ 31.12
	l .		

	eapital Report	0 1 7	1
<b>Tamm</b> 2:11 16:22	tears 297:12	99:20 100:11	177:25 223:21
tampered 294:5	technical 17:10	102:22	297:11
tangible 75:23	25:14 99:24	105:14,25	terrified 143:18
tank 169:20	104:22 107:4	107:11 108:10,12	territories 36:22
tanker 38:10	110:16 156:16 210:3 215:7	111:5,11,15,19	territory 84:11
	276:21	112:5,12 121:17	terrorism 215:17
tankers 38:19	technically 70:23	127:19	terrorists 228:12
tanks 109:12	280:9	134:13,20	
tar 27:20 28:3	techniques 55:15	135:7,24 136:2,6 144:18,21	<b>Tesla</b> 106:23
198:18,24	•	147:11 158:17	test 22:17 35:17
target 21:16	technological 66:2	177:20 205:18	137:20 293:14
66:7,10,17	67:8,14,20 225:16 268:9	206:19,24	testament 122:17
166:21 180:3,5	291:8 294:11	209:24 217:8,10	testified 143:16
210:7 219:6		230:5 233:20	176:20 237:5
227:11	technologies	243:9 246:7	testifier 3:7 4:4 5:3
targets 32:5 33:16	22:23,25	274:17 276:10	6:3 7:2 275:10
34:22 88:5	24:10,11 31:24 32:6,17,21 33:6	280:10	
168:8,9,13	35:12,20 36:7	teenager 195:13	testify 12:18
171:13	38:25 39:22	temperature	18:7,17,19 25:11 37:4 42:14
task 21:5 161:24	41:15 53:6,9,12	131:6,12,25	74:19,24 85:15
303:20	59:16 62:3,11	181:14,23	98:11 104:25
taught 192:6	65:18 66:24 68:6	272:24 273:3	108:15 120:21
tax 44:12 45:3,20	71:18 72:2,18	274:25	141:13 143:7
50:22 221:10	73:3 90:10,12	temperatures	163:16 165:5
	92:6 99:12	82:25 102:4	239:10 262:5
taxes 57:5 244:6	100:25	103:5 130:25	286:17
taxi 10:5	102:13,17	131:21 289:21	testifying 25:13
261:19,21,22,25	106:19 107:16,24 123:7	<b>Temple</b> 220:14	84:3 185:4 201:5
262:7,11,18,21	136:8	ten 63:12 173:17	266:10
263:13,21,24 264:2,6,13	138:10,13,15	174:10 178:23	testimony 13:4
265:3,19	144:24 166:12	179:13,23 186:5	18:13 20:10
, and the second	167:15,16,22	193:11 219:5	36:11 39:6
taxicab 262:8	168:3,12	226:12 231:5	85:6,19 124:9
taxis 263:2,5 265:8	171:5,22 172:3	255:6 263:9	127:22 145:18
taxpayers	174:12,17	295:24	151:16 155:13
150:2,9,13	206:21 207:2	tend 167:6	158:23 161:9
teach 96:23,24	216:25 221:13	tendency 155:16	175:24 176:2 198:6 202:17
236:7 238:3	222:6 249:8	-	206:3 207:5
teaches 236:25	technology 13:17	tends 179:18	252:4,9 261:5
	22:15,18	ten-gram 23:4	304:15 305:9
teaching 192:10	23:4,6,16,19 26:13 33:22	tens 80:12	testing 82:15
teachings 113:13	35:18 36:2 41:11	term 204:22 205:4	128:3,7,22
239:7	59:5,8,25	225:12,13	137:6,13 165:3
team 16:8 207:9	60:6,19 62:8	terms 53:12 88:7	179:10
teammate 260:4	66:21 71:20	147:5,6	tests 61:21 165:10
tear 244:10	75:14 76:11 79:6	164:13,14,15	<b>Texas</b> 116:13

	1 1	0 - 1 J	
182:7 273:8	198:2,3,5 200:25	195:4 197:16,24	277:4
textbook 239:17	201:2,25 202:2,6	200:12 203:3,17	third 15:13 41:25
	205:7	204:2 216:15	90:2 151:3 192:7
Thailand 273:10	210:18,20,23	224:2 229:20	200:15
thank 12:24	214:12,13,14	230:23 231:13	221:14,19 227:6
16:10,15	220:4,9,10,12	240:16	238:3 273:6
24:19,21,23	225:19,20,25	270:19,20,23	
29:20 30:3,4	228:18	272:4 277:21	<b>thirst</b> 48:11
36:15 37:3	231:15,18,19,23	278:20 279:12	thirty-six 272:20
42:3,15,16	235:5,7,12,13	284:7,25	thistles 114:8
46:17,18	239:10,12	292:19,25	
49:9,10,13,15	244:19,20,23	293:24 294:11	Thomas 11:14
52:17,18	245:6	295:21 296:24	286:23
53:14,19 55:25	249:17,21,22,24	299:22 302:7	Thoresen 3:19
56:2 57:12,13	251:23	theater 157:6	46:19,20,21
62:19,20 69:6,8	253:14,17	then-Governor	thorns 114:7
74:20,23	255:13,15,17	64:5	thorough 110:16
76:16,17	260:21		thorough 110:16
80:2,3,5	261:4,5,6,8,15	theoretically 55:11	thoroughly 64:15
85:4,6,7,10	262:5	thereafter 137:18	thoughtful 244:2
87:5,7,10	265:22,23,24	thereby 172:5	253:10
92:14,15	268:20,22	· ·	thoughts 21:11
98:10,15,17,21	270:9,10 274:9,11	therefore 50:25	176:24
99:17	274.9,11 276:17,18	73:23 74:4 78:24	
104:11,18,19,25 108:14,17	270.17,18	82:8 83:16	thousand 120:14
_	280:13,24	126:18 150:12	262:18 263:14
112:19,20,23 116:24,25	281:22	168:20 236:8	thousands 84:14
117:4,6	284:11,12	there's 15:8 20:3	87:17 110:14
120:21,23	285:18,25	44:5,11,20	126:12 139:20
124:5,6,8 125:10	286:10,17	132:10 176:15	169:4 248:25
129:2,3 130:6,7	291:13 292:4,6,7	179:6 197:23	255:24 260:18
133:10,11 139:6	295:11,12	204:7 265:10	threat 141:3 171:8
140:17,18	296:6,7 300:3,4	296:16 297:19	172:6 173:22
141:10,13	301:23	302:11 303:18	215:16 256:7
143:6,7,9	304:11,14	the-then 222:24	258:16 259:16
145:15,16,20	ŕ	they'd 166:15	275:6 294:20
149:16,17,19	thankful 297:4	•	295:5
151:13,14,16,17	Thankfully 94:4	they'll 90:8 145:3	threaten 244:3
153:23,24	thanks 28:7 74:19	272:4	267:19 295:5
158:18,20	148:13 163:15	they're 20:6	
160:25 161:2	187:23	50:21,22 88:6	threatened 232:24
163:21		93:10,13 119:19	233:3 251:12
164:21,22,24	<b>Thanksgiving</b> 118:8,9,14	159:22 168:10	256:4 288:18
169:8,10	, ,	175:25	302:20
175:10,17,18,19	that's 14:13 44:8	176:11,13	threatening
180:14 183:20	46:3 50:17	178:15 189:5,15	246:13 284:22
188:2	88:2,7 131:4,15	231:10 277:19	threatens 47:22
189:22,23,25	132:5,10 133:8	278:10,11,13	201:11,12
191:24,25	151:6 154:17,18	282:11 283:3	267:21
192:12	156:24 174:22	they've 91:2 114:2	
194:10,15,17	175:8 189:16,18	v	threats 47:7 251:9

	eaptar report	0 1 7	
260:16	118:13 120:22	216:4,11	Toyota 5:14
	121:8 138:24	224:22,25 233:9	54:10,13 104:23
three-percent	141:14 143:22	248:4,9 251:3	105:5
224:9	144:24 145:23	269:12 288:6	106:8,11,18
thresholds 35:24	146:10 147:12		107:3,19
36:4 61:25	150:15 161:9	<b>Tony</b> 4:16 74:21	108:6,15 179:8
thrilled 274:21	163:16 166:5	tool 132:12 210:6	229:3,7,12
	169:24 172:25	<b>Tooth</b> 289:12	230:7,11 293:9
throughout 45:9	185:4 192:10		
62:17 115:19	194:18 202:7	top 63:20 105:20	<b>Toyota's</b> 105:20
210:11 215:5	204:19	150:5,6 177:20	track 21:14 40:24
246:16	208:18,21 211:2	249:6 279:3,19	233:23
throw 203:16	213:11,21	topics 278:10	trade 50:21 133:18
204:10 256:21	214:20 219:23	<b>Tori</b> 260:4 261:3	258:25 261:20
THURSDAY 12:3	220:22 226:2	<b>Toris</b> 260:13	279:16
thus 23:8 40:15	229:15 231:24		trading 135:22
66:25 168:4	234:2 235:8,23	tornado 273:17	221:10 259:4,11
244:13	240:17 241:7	tornados 273:16	279:16
	245:4 246:21	total 65:6,11	
thyroid 188:25	249:25 251:5	216:18 244:10	tradition 113:13
tide 292:17	254:2 255:23	251:4 264:11	traditional 81:8
tied 56:14,15	256:6,16,19	287:19,24	traditionally
ĺ	260:13,25 264:4	295:24	99:10
Tier 83:20 138:18	265:7 266:10	totalitarian 155:17	traditions 236:7
<b>Tiffner</b> 259:21	268:13,23		
tight 184:7 295:8	277:23	totally 233:14	traffic 16:13 38:13
<b>tighten</b> 162:23	278:8,12,18 281:24 282:6,19	touch 91:19	80:25 109:7
_	285:8 286:2,4,18	tough 258:13	125:18 175:12
timer 18:14	287:14 293:10	297:10	225:24 245:17
timid 179:18	296:15,21		249:18
tiny 298:10	299:10	tour 257:4	<b>train</b> 143:19
		toward 199:12	training 161:18
tips 187:16	today's 12:23 15:9	233:14	trains 46:25
tired 144:4 184:23	16:25 17:21	towards 28:11	142:13
tires 103:11	18:4,20 19:5 103:10 286:21	45:25 118:2	
177:10		125:25 155:16	transaction 67:17
title 118:7	Tom 4:18 5:13 8:9	208:15 228:2	95:20
	76:17,20	234:8 235:3	transactions 95:15
today 12:10,16,19	104:20,22	256:7 265:18	transcript 1:17
13:4 14:14 15:24	205:11,13	279:5	19:5
16:16 18:25	294:15	towing 35:10	
24:20,24 25:8,11	tomatoes 204:9	towns 293:8	transcripts 19:9
30:10 43:5 57:19	tomorrow's 59:4		transfers 72:4
64:10 66:9 69:7,13 70:15	ton 225:3	township	transform 158:11
77:11 80:6 82:9		149:21,22,24,25	transforming
83:5 84:3	tons 13:14 29:2	150:4,22 239:19	58:22
87:8,14 91:14	38:2 75:18 110:7	toxicologist 129:9	
101:8 103:23	119:2 127:8	toxins 160:9	transit 31:11
104:25 105:5	162:10	162:14	56:23
115:3,19 117:14	200:11,13	102,11	transition 150:23
110.5,17 117.17			

	Capital Repor	0 1 7	
206:23 209:18	159:21,22	301:17 302:24	twin 292:22
transitioning	268:16	true 86:4 105:17	twist 42:21
210:8	tremendous 28:18	116:7 167:5	two-car 195:6
translate 205:2	44:22 45:4 299:15	194:5 244:5 295:5 305:8	<b>two-door</b> 195:14
translates 265:4			two-thirds 89:3
transmission	tremendously 42:25	truly 240:11	106:10
58:25 59:3	1-1-2	254:22	
transmissions	<b>trend</b> 81:14	Truman 3:20	type 97:11
177:9	122:12 168:15	46:21,23 47:4	155:17,19 176:11
	259:17	trunk 45:24	
transmitted 288:21	trigger 254:8,13	trust 50:4	types 60:25 108:13
transparent 98:9	triggers 163:7	<b>Truth</b> 297:15	typical 167:13 262:21 263:23
215:6	trillion 287:19	try 52:12 167:9	264:6
transport 184:23	288:5	196:9 232:8	typically 103:9
196:13,14	trip 228:25	296:24	123:6
197:13	Trolley	trying 44:25	123.0
	183:22,24,25	157:14 259:5	U
transportation 12:12 16:15	185:14	261:24 272:2,16	U.S 22:2 26:25
28:22 68:24	troops 228:12	<b>Tsou</b> 4:6	27:11 33:25
71:11 99:8 134:8	256:8 260:15	53:18,19,20	37:13 50:19
192:19 194:24	troublesome 83:13	tuberculosis 80:17	91:10,12 100:7
195:20			104:14,17
199:8,19,25	Trout 132:2	Tuesday 15:12	106:10 111:13
201:18 212:9,12	289:22	246:19 285:20	112:11,12
215:21 249:18	truck 34:22 60:23	turbines 171:24	126:22 133:20
250:14 252:15	61:6,11 72:5	turbo 178:16,17	146:12,13 148:6
262:3 266:15	111:22 118:13	turbocharging	170:2,12,13,24
267:24 288:13	142:8 157:17	102:13	200:11,18 201:9
290:10	161:8 219:6		210:11 216:12,15,20
transported 229:5	255:20	<b>turbos</b> 178:12	217:21
trapped 254:12	trucking 173:25	turmoil 270:6	218:14,15
trash 184:24	trucks 14:22 23:18	turn 16:5 33:22	223:15
travel 75:6 103:6	35:2,9 38:10	54:22 55:23 73:7	225:5,9,10
118:10,11	39:12 43:18,20	184:8 303:21	226:12 227:9
159:13	48:10 50:14 70:19 94:5 111:8	turned 122:20	232:23 243:20
traveling 270:21	117:18 119:5	142:6 157:8	245:24 246:15
travels 159:14	120:3,6 125:15	227:9 292:14	248:7 249:17 251:4,14 253:5
	126:7 130:17	turning 26:11	258:9,12 266:14
treacherous 27:25	132:17 136:25	34:20 142:16	267:3,25 273:14
treat 203:23	140:5 142:23	turnout 226:3	287:24 288:11
treating 152:5	146:6 150:2 162:2,17,24	turnover 81:24	UCS 214:23 215:9
treatment 74:7	163:5 186:8	94:11	216:2 218:12
tree 114:2 289:7	192:14 215:23	turns 130:18	224:20
trees 149:7,8	217:2 219:2	Turpin 7:20	U-Go 3:18 42:19
154:17	228:3 286:22	188:3,5	46:12 55:6

	- Capital Repor		
ultimate 77:21	283:10	268:15	148:25 243:23
ultimately 105:16	understanding	unite 123:18	unquote 35:13
150:11 185:13	50:13 66:19 67:4	261:24	unreasonable
234:16 238:11	257:23 259:18	United 14:18	56:12
245:23 259:4 294:4	understands 58:17	44:17 45:15,17	unrest 242:10
	undertaken	46:7 47:8,15	unrestrained
umbrella 146:2	112:14	82:4 110:5,11 111:5,17 113:8	253:9
UN 190:7	undertook 99:24	116:11,14 122:5	unsafe 242:14
unaffordable	underwrite 95:24	125:10 126:22	unshackle 291:7
241:15	undoubtedly	131:19 132:3	
uncertain 62:11	245:14 260:25	148:11 156:4	unsuitable 289:7
107:10	unduly 223:18	158:14 170:8,21	unthinkable
uncertainties	unecessarily	172:14 180:22 186:6 190:12	294:17
60:19 107:19	149:13	194:19 205:20	<b>untold</b> 199:10
uncertainty 60:15	unemployed 186:2	226:6,8 247:24	unveiled 31:16
135:3,19 254:22	1 '	256:23 283:18	upcoming 70:10
unchecked 114:21	unencumbered 258:19	uniting 108:25	138:18
148:23		<b>units</b> 66:6	<b>update</b> 128:22
unconventional	unexpectedly 26:8	universal 171:3	updated 35:2
55:13	unfair 56:25	279:10,12 303:8	upfront 93:11
underestimated	unfold 27:17	Universalist 266:3	94:25 95:19
35:5 58:5	unfortunately	Universalists	97:14,17 98:2
underlined 12:18	122:18 132:10	266:5	<b>Upgrading</b> 200:3
277:4	152:10 167:11 250:12	University 40:9,21	<b>upheld</b> 121:23
underlying 33:18		63:25 150:21	upon 32:23 33:3
60:16,24	unfriendly 148:11	211:5 220:14	37:9 38:25 42:8
undermine 40:6	unhealthful 82:24	289:2 302:3	86:9 109:24
194:4	uniform 90:21	University's 64:2	115:4,21 147:2
undermines 27:3	unimaginable	unknown 27:22	172:2,13 174:24
undermining	141:19	199:10	206:14 213:2 274:4
40:15	unimpeded 52:16	unleash 291:8	
underpinning	unincentivized	unless 20:5 32:19	UPS 43:20
258:25	128:24	187:24 229:24	<b>upstream</b> 72:22
underscore 50:2	<b>Union</b> 9:5 43:15	<b>Unlike</b> 208:23	73:6,9 131:11
68:3	118:21 151:20	unlikely 107:17	up-to-date 210:2
understand 12:17	207:7 214:20	168:13	<b>upward</b> 136:19
39:8 45:9 57:9 96:25 97:8 99:20	223:2 266:21	unnecessary 61:25	<b>urban</b> 54:9 56:20
113:20 114:24	280:3,8,10	301:13	140:6 195:2
122:13 138:7	<b>unions</b> 108:24	unprecedented	263:23 277:25 278:7 300:16
139:19 141:2,3	<b>unique</b> 111:20	33:11	278:7 300:16 302:17
144:9 177:3	<b>unit</b> 205:15	116:8,9,10,12	
247:11,23 257:9	Unitarian 10:7	273:7	urge 29:24,25 40:17 73:11
274:3 277:7 279:15 280:2,16	265:25 266:3,5	unpredictable	92:12 98:6
217.13 200.2,10			

	<u> capital repol</u>		
108:11 120:17	135:20	249:3 251:2	177:7,15,21,25
121:22 137:7,16	196:11,13		178:4,10 193:23
	, and the second	263:10,12 265:8	
147:20 175:11	varying 24:2	276:12	195:9 199:22
183:4 228:16	vast 271:3	287:10,18	207:2,16,18,21
244:21 267:2	vast 2/1.5	299:24	210:25
268:2 271:21	vastly 89:23	vehicles 13:6,11,16	219:4,8,22
274:7 295:7	274:15	14:7,17,22 15:7	220:25 222:15
urged 86:25	Vaugha 277:17	23:15,21 31:25	229:11,21 230:6
	<b>Vaughn</b> 277:17	32:13,18,19	231:13 235:3
urges 42:6 215:9	vegetarian 202:25	, ,	239:24 240:12
usage 48:6 186:22	vehement 240:22	37:12,17 38:16	242:14 243:2,8
190:15		40:12,13	245:19 248:5,8
	vehicle 13:17,19	41:8,14,20,23	260:23 264:21
user 142:12	15:3 17:4 25:17	42:5,11	265:9 266:22
usually 119:21	29:8 31:8,13	43:9,12,17,18	
_	41:12,24 42:23	44:12,17,20,21	286:20 287:23
utility 15:3 61:12	45:15 52:6 53:7	45:11,22 46:11	296:6 299:21,22
utilizing 42:24	59:6 62:7	48:4 53:6,9	Veloster 21:19
46:10	64:4,16,19 65:19	54:21 59:5,13	65:4
10.10	66:16,19	60:3,25 61:13	
	67:4,15,21 70:7	66:16,25	<b>venues</b> 213:21
V	71:18 73:25	68:9,16,19 69:3	<b>verge</b> 255:3
<b>V6</b> 178:17		70:21 71:5,21	Vermont 4:15
vacation 190:23	77:22 79:8 81:11	70:21 71:3,21	
	83:5,21 86:9		45:13 69:12,19
validate 35:18	87:17 92:23	73:17,20,22	<b>version</b> 178:18
Valley 257:17	94:21 95:12	78:15,18,19,20	versus 101:8,16
	97:10,13,25	88:5 89:23	104:4
valuable 210:6	98:24 102:5,8	90:7,24,25 92:21	
value 22:23 64:21	104:17	93:6,7,14,24	veteran 47:15
65:13 67:6 68:5	105:18,24	94:7,9,22 96:8	256:17 260:21
90:23 134:24	106:23,25	97:3 99:9 102:25	veterans 47:6,17
165:21 221:25	107:22,24	103:10,12	255:24 259:16
224:7 225:4	108:13 109:20	105:20	
237:5	110:4,13 128:13	106:11,21	260:18 300:9
	133:17 134:4,14	111:10,12,15	301:4,6,14
valued 82:7	138:10 166:2,24	117:8 119:17,18	<b>via</b> 38:18
values 232:10	167:4	123:23	<b>viable</b> 71:22
236:19,21	168:14,18,23	125:20,24 126:9	
237:16 239:8	169:7 176:6	127:6,17	Vic 262:25
		128:6,16,19,25	263:5,12,24
van 157:16	177:5 178:15	128.0,10,19,23	264:8
vanishes 114:4	179:23 180:7	· ·	vice 20:24 64:6
	193:6,24 194:12	134:13 139:16	76:20 104:22
<b>Vanstone</b> 11:18	199:16 214:24	141:6 144:22	
300:5,6	215:10	146:8 149:12,25	248:14 266:2
variables 95:5	217:11,15	150:3,12 156:7	Vics 262:13 265:9
variety 24:2 34:8	218:10	162:9,11	<b>victim</b> 234:19
1	219:12,16,19	165:10,11,12,16	289:25
99:6 108:3	223:11,12	166:3,8,11,16,19	
136:12 166:14	229:3,24 232:14	,22	Victoria 262:8,18
171:6 272:11	242:2,3,18	167:9,10,12,23	victory 117:15
various 12:25	243:5,6,17 244:8	168:4,17 169:6	249:14,15
61:24 99:21	245:13 248:19	176:10	۵٦۶.١٦,١٥

	<u> </u>	9 - 1 )	
Vietnam 227:8	Voters 121:6	233:8 245:7,16	187:8 204:24
view 50:10 76:12	vulnerability 70:5	247:13 250:20	233:12 236:18
165:24 174:8	87:21	269:7,12 270:6	250:12
212:23 234:4,6	vulnerable 181:16	282:5 297:18	weak 266:19
236:24 243:11	213:19 226:25	301:16	weaken 82:20
292:15		warmish 202:23	
	228:8 237:2,21		weaker 219:2,12
views 16:17 18:7	-	warned 252:8	wealthier 237:11
104:12 169:9	W	272:14	
176:21 261:9	wages 187:16	Warner 64:5	wean 144:13
297:6	<b>wagon</b> 191:9	wars 55:17 148:25	<b>weapon</b> 260:7
vigilant 268:3	waiting 129:17	234:17 258:14	wear 244:10
vines 204:9		269:19	297:22
	walk 56:22 188:13		
violation 20:13	189:9 195:3	wary 278:16	weather 25:25
Virginia 62:25	254:12	wash 27:20	149:2 181:19 237:24
64:2,4 256:21	<b>walked</b> 199:24	Washington 46:25	246:12,24
Virginian 259:21	Walker 10:6	64:7,13 76:24	250:22 269:6
virtually 178:13	261:12	169:21 191:13	273:7 288:21
264:2 293:17	265:23,24,25	300:9,23	297:24
	279:24	Waskow 5:17	
virtue 63:17		112:21,22 252:5	weather-related
visit 56:10	<b>walking</b> 188:15,16	ŕ	273:15
vista 297:7	walks 93:22 188:9	<b>wasn't</b> 115:11 195:16 242:24	<b>web</b> 19:10 143:12
vital 24:4 50:5 25	<b>Walter</b> 4:6 7:12	293:19	165:18 181:13
vital 34:4 50:5,25	53:20		267:19
120:5 262:3		waste 149:14	we'd 99:17 160:15
Vitali 3:21	wantonly 149:13	wasteful 276:6	284:7
49:12,13	war 51:12 164:16		
vitally 256:6	226:13,21	wasting 141:20	wedge 212:5,6,12
	227:22,23	watch 185:10	wedges 212:4
vivid 275:16 276:9	256:25 257:8	<b>watching</b> 297:3,14	week 31:15 77:3
VOCs 81:25 84:2	259:7 297:13	water 117:13	83:16 107:2
voice 141:9 192:13	ward 11:16 288:9	131:12,15,21,23	118:10 254:6,24
voices 278:9	296:8,9	160:7,9 184:12	255:7 262:22
	warm 142:17	244:14 247:8,20	264:7,9,12,15
volatile 81:22		251:9 268:17	271:17 285:8
162:13	warming 72:13	288:13,15	weekend 118:14
volatility 38:20	75:17 76:5 101:6	289:24	131:12 161:24
70:5 243:21	115:6,7		
volume 35:24	117:17,20	waterborne 227:4	weeks 118:10
63:20 66:5	119:10	288:20	120:13 173:19
137:23,24	122:11,14 126:2	watered 278:18	190:7
	136:14 139:12	waters 27:25	week's 26:6
volumes 138:3	142:4 153:5		weighed 67:19
voluntarily 240:11	170:7 199:4,5 200:14 205:24	watt 216:7	weight 68:16
volunteer 270:17	208:7,17 209:6	wave 44:13 181:15	71:18 102:8
volunteer-led 25:4	211:9,18	ways 56:25 68:11	167:14 168:18
	212:8,24 213:9	100:15 113:20	242:15,24
vote 283:25	216:3 220:3	135:21 171:6	243:5,10
			, -

	F F	O I - J	
Weinstein	259:20,21 260:4	302:16,19	witnessed 182:5,6
183:22,23,24	Western 247:2	wide 14:21 32:20	witnesses 20:7,11
weird 284:24	we've 45:11 77:23	169:7 272:10	305:10
weirdness 294:15	88:20 91:25 92:4	<b>widely</b> 90:10	witnessing 181:6
welcome 12:9	110:9 120:13	126:19	wives 260:13
85:22 177:25	122:22 131:6,9 138:23 157:8	wider 238:8	<b>Wolf</b> 7:18
280:23	169:23 299:25	widespread	180:20,21,22
welcomed 27:6	whatever 304:9	236:19	woman 158:7
welcoming 116:25	whatsoever 87:3	<b>Widley</b> 222:13	252:10
welfare	90:19 190:14	wife 124:22 130:14	women 232:3
222:16,18,21	wheel 142:16	195:23 196:12	women's 157:23
225:8 246:14	264:7	wife's 195:15	wonder 132:9
277:2,3,14	wheezing 163:7	wildfires 26:2	263:8 290:18
<b>we'll</b> 46:6 53:18 79:20 106:22	whenever 142:17	<b>wildlife</b> 6:10 9:21	Wonderful 205:10
116:2 180:19		130:11 131:5	285:18
195:25 286:24	<b>WHEREOF</b> 305:18	250:4,6,13,18,22	wondering 56:10
299:20 304:9	Whereupon	251:9,21 298:18	Woolsey 227:22
well-being 182:16	180:16 304:17	<b>William</b> 11:18	work 35:16 47:16
214:10 232:20	wherever 142:18	300:6	56:23 62:16
238:11 268:13		willing 60:6 79:7	64:15 75:6 80:6
273:21	<b>whether</b> 18:19 40:10 41:7	93:5,18 97:6 167:2	88:15 95:10
wells 268:17	60:5,12 67:5	willingness 89:8	96:22 105:2
we're 14:13 15:13	75:6 96:8 111:22	94:20 166:12	107:4 114:5 120:10 121:10
20:14 42:22 44:25 46:7	123:3 128:4	176:25	123:19
51:6,7 53:5,15	185:6 215:16 222:8	Willis 5:9	125:11,17
85:7 91:16,23	238:6,16,18,20	92:16,17,18,19	128:21 130:5
103:23 105:25	250:8 255:5	97:22,24 123:21	135:20 139:4 143:8 162:5
124:10 129:18	262:22 285:4	Wilmington 99:4	172:18 191:19
130:20 131:23 132:12 141:24	<b>white</b> 109:5	win 92:10,11	194:13 206:6
145:17 151:18	271:11 277:15	112:2,3 183:16	220:4 232:8
155:19 157:14	296:11	197:20	240:25 245:2
171:16 176:4,18	whiter 237:12	wind 55:9 171:22	250:8 254:5 268:24 291:17
177:6,7,8,9,17,2 4 178:21	<b>whole</b> 27:19 51:15	winning 286:23	292:6
180:4,12,13	155:21 156:20	winter 297:20	worked 49:21 51:4
190:20 205:17	165:9 180:7 225:11 238:7	wisely 257:14	63:23 107:23
210:12 218:25	248:21 251:11	268:14	126:22 193:17
227:20,22	253:6 263:25	wish 127:4 143:7	257:14,15
228:21 246:24 256:5 261:24	272:12 273:6,23	296:18	290:11 291:13
278:17 283:25	280:4 297:16	wishing 18:17 19:3	301:4
284:5 286:4	wholeheartedly	witness 19:18	workers 14:18
West 45:5,7 46:8	146:4 255:11	67:11 164:7	112:13,17 126:22 192:19
51:11 251:25	whose 22:16 159:4	305:18	249:6,7
256:20,24	237:10 248:8		,

	Capital Repor	0 1 · J	
workhorse 262:8	worried 56:13	yielding 81:25	
working 30:24	143:25 302:7	<b>yields</b> 103:16	
36:13 56:18 59:4	worry 86:23 91:7	Yoon 2:12 16:23	
68:8 79:17 99:19	202:12 269:4,14	York 69:18 142:12	
103:11 104:14 108:15 109:11	worrying 174:21	262:17	
112:8 117:13	worse 179:20	Yorker 298:8	
121:21 129:9	275:9	you'll 18:14 49:24	
130:10 134:7	worsening 243:5	96:18 113:16	
138:17 160:20 164:17 167:20	worst 211:22	190:3 245:3	
170:4 172:11	263:9 288:9	young 181:17	
197:8 201:17	worth 297:13	189:5 260:9	
213:17 260:19	worthy 84:25	younger 130:3	
264:22	wow 157:13	189:2,5	
270:19,22 302:17 304:12	wrap 36:8 97:22	yourself 85:3	
	write 20:17 202:14	yourselves 281:2	
works 235:19	writer 276:21	youth 281:25	
<b>world</b> 22:20 45:9 46:9 51:13 61:21		282:3	
77:15 91:13,15	written 15:15	you've 90:5 91:21	
111:18 115:4,20	17:24,25 24:17 74:16,17 79:20	116:2 173:19	
126:17 130:22	88:9 138:23	199:21 270:15	
141:15 142:6	181:9		
145:7 154:20	wrong 236:15	<u>Z</u>	
155:9 156:2 159:14	246:2 251:11	Zachary 211:7	
160:17,24	wrote 83:19 118:7	<b>Zarwin</b> 3:17 42:18	
164:15 173:6	285:21 286:24	49:11	
178:20 190:16	<b>Wyle</b> 9:22	zero 23:22 42:4	
199:3 200:15	251:24,25	44:21 72:15,19,24	
201:10 205:18 213:6 221:5		106:24	
226:14 232:9	X	<b>Zilmer</b> 7:16	
234:4,6,17	<b>XL</b> 28:9 271:13	151:22	
239:20 240:2		169:11,12,14	
247:22 252:13	Y year's 14:17	212:22 256:10	
267:7 283:19 292:22		<b>Zip</b> 164:11	
297:13,16 298:9	yellow 182:2 289:12	<b>zones</b> 226:21	
world-class 207:9		<b>Zytel</b> 102:11	
world's 50:16	Yellowstone 117:23	<i>J</i>	
146:17,19,21,22	yesterday 28:8		
148:12 198:24	231:4		
209:21 234:19	yet 27:23 71:8		
236:2 239:8	86:10 89:13		
258:9 298:6	124:21 159:9		
worldwide 250:21	174:13 283:25		
272:24	294:2		
L			

#### In The Matter Of:

Public Hearing for Proposed Greenhouse Gas
Emissions
Standards and Fuel Economy Standards

January 19, 2012

#### REPORTING ASSOCIATES, LLC

Certified & Registered Professional Reporters Cherry Hill -- Philadelphia -- Trenton (888) 795-2323



Original File 0119epa.txt

Min-U-Script® with Word Index

PUBLIC HEARING FOR PROPOSED GREENHOUSE GAS EMISSIONS
STANDARDS AND FUEL ECONOMY STANDARDS FOR LIGHT-DUTY

VEHICLES IN MODEL YEARS 2017-2025

JANUARY 19, 2012

PHILADELPHIA, PENNSYLVANIA

EVENING SESSION

REPORTED BY: Cherilyn M. McCollum CCR No. 2094, RPR

Sean M. Fallon CCR No. 840, RPR, RMR

1	TRANSCRIPT of the PUBLIC HEARING,
2	EPA/NHTSA PROPOSAL, GREENHOUSE GAS EMISSIONS
3	STANDARDS AND FUEL ECONOMY STANDARDS FOR LIGHT-DUTY
4	VEHICLES IN MODEL YEARS 2017-2025, held at the
5	Crowne Plaza Philadelphia Downtown, 1800 Market
6	Street, Philadelphia, Pennsylvania, commencing at
7	4:48 p.m., on January 19, 2012, heard before the
8	Government Panel of EPA/NHTSA, reported by Cherilyn
9	M. McCollum, Certified Court Reporter No. 2094, RPR,
10	and Sean M. Fallon, Certified Court Reporter No.
11	840, RPR, RMR.
12	
13	
14	EPA PANEL MEMBERS:
15	MARGO OGE
16	CHET FRANCE
17	STEVEN SILVERMAN
18	
19	NHTSA PANEL MEMBERS:
20	RON MEDFORD
21	JIM TAMM
22	REBECCA YOON
23	
24	
25	

#### INDEX

TESTIFIER	PAGE
PANEL 9:	
Thomas Huynh City of Philadelphia Director of Air Management Programs	8
Alissa Burger PennFuture Energy Center Program Associate	12
Mary Felley League of Women Voters of Pennsylvania	15
Meredith Montalto Pew Clean Energy Program Pennsylvania Representative	16
Janet Cooke Citizen	20
Thomas Smith Citizen	24
Jeanette MacNeille Millbourne Borough Council President	27
PANEL 10:	
Erica Dowell Small Business Majority Network Coordinator	30
Kesaaraa Wijeyewickrema Sierra Club	33
Mona Sarfaty, M.D. Citizen	35
Rev. Robert McClellan Tabernacle United Church Pastor	39

1	MS. OGE: Okay. We'll start with
2	Mr. Thomas Huynh. Welcome.
3	
4	THOMAS HUYNH
5	CITY OF PHILADELPHIA
6	DIRECTOR OF AIR MANAGEMENT PROGRAMS
7	
8	MR. HUYNH: Good afternoon. My name
9	is Thomas Huynh. I am a director for the
10	Philadelphia Department of Public Health's Air
11	Management Services division. On behalf of the City
12	Philadelphia I would like to thank the EPA, the
13	National Highway Traffic Safety Administration for
14	holding this public hearing in Philadelphia on joint
15	proposal rule on 2017 and later model years
16	light-duty vehicle greenhouse gas emissions and
17	Corporate Average Fuel Economy Standards.
18	Air Management Services (AMS) is the
19	local pollution control agency for the City of
20	Philadelphia. AMS's mission is to protect the
21	health and quality of life of Philadelphians from
22	adverse health effects of air pollution. It
23	operates under the authority provided by the

AMS '

Philadelphia Code, the Pennsylvania Air Pollution

Control Act, and the federal Clean Air Act.

24

25

programs include activities directed to prevention and control of air pollution and the air pollution nuisance, as required to achieve and maintain the National Ambient Air Quality Standards, reduce air toxics, and provide healthy air for Philadelphians.

In recent years, AMS has participated in cooperative regional initiatives to promote energy efficiency and sustainability. These initiatives include the Cities for Climate Protection Campaign for International Council for Local Environmental Initiatives (ICLEI), the U.S. Mayors' Climate Protection Agreement of U.S. Conference of Mayors, and the Large Cities Climate Leadership Group and Clinton Climate Initiative.

The EPA and National Highway Traffic Safety Administration proposed rules will provide significant benefits in term of criteria pollutant emissions reductions, toxic air pollutant emissions reductions, and near-roadway health impacts in Philadelphia.

Philadelphia is in compliance with the NAAQS for all criteria air pollutants, with the exception of ozone and fine particulate. For 21 days in 2010, the airborne concentration of ozone and fine particulate matter in Philadelphia were

1 high enough to warrant unhealthy rating under the 2 EPA Air Quality Index. The 2005 National Air Toxics 3 Assessment (NATA), released in March of 2011, show a total cancer rate of 58 in a million in 4 5 Philadelphia. Philadelphia has 18 air toxics that 6 exceed a one in a million risk, cancer risk, based 7 on EPA's 2005 NATA and AMS' 2010 Air Monitoring The top five air toxics include pollutants 8 9 from mobile source: Formaldehyde, Benzene, 10 Acetaldehyde, 1,3-Butadiene, and Carbon Tetrachloride. Based on the 2008 National Emissions 11 12 Inventory, emissions from mobile source in 13 Philadelphia account for 27 percent of nitrogen 14 oxides, 21 percent of Volatile Organic Compounds, 15 and 47 percent of carbon monoxide of all emission in Philadelphia. Nationally, we know that emission 16 17 from mobile source account for 26 percent of total 18 cancer risk. The proposed rule would help reduce 19 the toxic air emissions due to a reduction in fuel 20 uses.

Ground level ozone is the pollutant more often responsible for unhealthy air quality in Philadelphia. Exposure to high level of ozone can damage vegetation and can exacerbate cardiovascular and respiratory ailments, and can reduce the life

21

22

23

24

25

expectancy in humans. The proposed rule will help reduce adverse health impacts near roadways due to reduction in tailpipe emission.

Diesel emission are also a significant contributing factor in determining health risk from toxic emission. AMS works to promote emission reductions from diesel vehicles and to bring clean diesel technology to the Philadelphia area through the Philadelphia Diesel Difference, a coalition of diverse stakeholders whose primary purpose is to reduce air pollution associated with diesel-powered engines in the greater Philadelphia area. AMS also works on projects related to sustainability, including anti-idling. The proposed rule will help aid the City's work with the Philadelphia Diesel Difference.

Thank you for the opportunity to testify in support of the proposed rule. AMS remains committed to protect the health, well-being, and quality of life for the people who live, work, and visit Philadelphia.

Thank you.

MS. OGE: Thank you.

Ms. Alissa Burger.

## 1 ALISSA BURGER

## PENN FUTURE ENERGY CENTER

4 MS. BURGER: Good afternoon.

Citizens for Pennsylvania's Future, also more commonly known as PennFuture, is a statewide public interest membership organization working to enhance Pennsylvania's environment and economy, with offices in Harrisburg, Philadelphia, Pittsburgh, and Wilkes-Barre. The PennFuture Energy Center for Enterprise and the Environment appreciates the opportunity to provide comments on the proposed standards for light-duty vehicles for model years 2017-2025.

With cars and light trucks accounting for nearly half of U.S. oil consumption and nearly 60 percent of all mobile source greenhouse gases, the impact of making these vehicles more efficient will deliver very tangible economic, public health, environmental, and national security improvements, all to the benefit of American citizens. And yet up until 2010 the fuel economy standards for passenger cars had remained stagnant for 24 years. Now is the time to take action, and PennFuture supports the EPA and NHTSA in doing so.

If finalized, this rule will stimulate the development of cleaner, more fuel efficient vehicles through innovation in the manufacturing sector as well as technological advances in vehicle components, such as air conditioning units. Such advancements in the automotive industry have the potential to stimulate domestic job growth. More specifically, these standards are anticipated to add 500,000 jobs throughout industry sectors.

Transportation sources, including light-duty vehicles, accounted for 28 percent of all U.S. greenhouse gases in 2007, a rate that has substantially increased since the early '90s. In 2030 alone greenhouse gas pollution could be reduced by 290 million metric tons, which is equal in impact to removing more than 40 million cars and trucks of today's economy standards off the road for a year. Pollution reduction significantly decreases the number of pollution-related illnesses and death. The net social benefits offered by the continuation of the National Program are undoubtedly significant.

These standards would achieve significant strides in reducing our dependence on oil. Since the Carter Administration first dealt

with foreign oil embargoes in the 1970s, reducing our dependence on oil from foreign countries has been a national priority. With the second phase of the National Program projected to save approximately 4 billion barrels of oil, this is an opportunity the U.S. cannot afford to pass up.

In addition to codifying standards for the auto manufacturing industry, generating environmental benefits, and strengthening national security, the extension of the National Program will save American families money. For many Americans, transportation expenses are second to only housing. Over the lifetime of the program, Americans can expect a total of \$1.7 trillion in fuel savings. In passing the proposed standards, individual vehicle owners of model years 2017 to 2025 can anticipate the net savings of \$4,000 over the lifetime of that vehicle, not to mention the savings accrued monthly, as Americans save at the gas pump.

While not every policy challenge can be easily addressed and managed, the collaborative and analytical efforts of the EPA, NHTSA, CARB, and other stakeholders are to be commended for looking to continue a program that offers such impactful results. PennFuture strongly encourages EPA and

NHTSA to finalize these regulations as they are currently being proposed and not weaken the fuel economy or tailpipe standards in any way.

Thank you very much.

MS. OGE: Ms. Mary Felley. Good afternoon.

#### MARY FELLEY

# LEAGUE OF WOMEN VOTERS OF PENNSYLVANIA

MS. FELLEY: Good afternoon. My name is Mary Felley, and I'm a member of the League of Women Voters of Pennsylvania. I'm reading a statement on behalf of the League which was prepared by Roberta Winters of the State Board, and I thank you for this opportunity to provide input on this critical issue.

Based on the League's national position on air quality, we promote measures to reduce pollution for mobile and stationary sources. The proposed strengthening of fuel efficiency and carbon pollution standards for new cars and trucks is a significant step in the right direction.

Take a deep breath. The Philadelphia region and Pennsylvania as a whole have the dubious

distinction of being among the smoggiest areas in our nation. Cleaner cars and trucks will make a difference. Their exhaust account for a third of the smog-forming nitrogen oxide emissions in our nation. Air pollution is also not confined by municipal or state boundaries. With road traffic continuing to increase along the Northeast Corridor and with industrial development occurring across rural areas of our commonwealth at a break-neck rate, it is essential that stronger standards be established as soon as possible.

The citizens of our commonwealth and the nation are depending on you, the Environmental Protection Agency, and NHTSA to safeguard our air and protect people's health. With the alarming rise of pollution-related asthma attacks, heart attacks, and shortened lifespans, enacting these proposed standards is truly a matter of life and breath.

Thank you.

MS. OGE: Thank you.

Ms. Meredith Montalto.

MEREDITH MONTALTO

PEW CLEAN ENERGY PROGRAM

MS. MONTALTO: Thank you. My name is Meredith Montalto. I am the Pennsylvania representative for the Pew Clean Energy Program.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

The Pew Charitable Trust is pleased to comment on the proposed joint rule issued by the Environmental Protection Agency and Department of Transportation that would require manufacturers of light-duty vehicles to achieve a fleet-wide average of 54.5 miles per gallon fuel economy and greenhouse gas emission equivalent standard for model year 2025 vehicles. The proposed rule would double the passenger vehicle fuel efficiency from the level enacted in 2007, a significant increase that will save consumers money at the pump, blunt the economic and national security threats presented by oil dependence and price volatility, and help American manufacturers develop new technologies that spur investment in research, development, and production of the advanced vehicles.

Pew has long supported higher federal fuel economy standards. In 2007 we worked to help achieve overwhelming bipartisan support in Congress on the first fuel economy increase in 30 years. We have also sought to inform the public and policymakers across the nation about the dangers of

U.S. oil dependence to our nation's economy,
national security, and to the lives of the U.S.
servicemen and women who defend oil transit routes
and chokepoints around the world. The RAND
Corporation estimates that the U.S. military spends
between 67 and 83 billion dollars annually defending
oil chokepoints around the world.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

The proposed joint rule for model years 2017 to 2025 incentivizes the introduction of advanced technologies that seek to decrease U.S. dependence on foreign oil. Incentives designed to spur development of electric and hybrid vehicle technologies in the U.S. light-duty fleet provide a clear path for auto manufacturers to invest in research, development, and production, which can improve the competitiveness of U.S. manufacturing and enhance exports to nations with growing demands. Investment in the research, development, production, and deployment of advanced vehicle technologies will help vehicle manufacturers located in the U.S. achieve the proposed standards and present an opportunity for the U.S. to lead in new markets such as advanced batteries, which experts predict could be a \$100 billion in global industry annually by 2030. Pew is a strong advocate for the deployment

of electric and hybrid vehicles and the necessary charging infrastructure, which could significantly reduce oil consumption and consumer fuel costs.

While the proposed requirements set forth by EPA and DOT are aggressive and laudable, Pew strongly urges the agencies not to allow the fuel standards to be weakened during the midterm review period. Pew understands that fuel efficiency standards produced by DOT are limited by statute to five-year increments and also appreciates the value of technological and cost review to ensure the standards are achievable. However, we believe that federal fuel efficiency standards must remain strong in order to enhance American manufacturing competitiveness in the auto industry while protecting consumers and businesses from fuel cost volatility.

U.S. oil dependence through higher fuel economy.

Our bipartisan poll commissioned in July 2011 found that 91 percent of Americans identify U.S. dependence on foreign oil as a threat to our national security, and significant bipartisan majorities in every region of the country believe that adopting stronger fuel economy standards is the

best way to lessen that dependence. In addition to the petition submitted to President Obama on November 1, 2011 and signed by more than 31,000 Americans, Pew has and will continue to highlight the importance of fuel efficiency with auto supply manufacturers, working families, and veterans at events around the nation.

Thank you for your consideration at this time.

MS. OGE: Thank you.

Ms. Janet Cooke.

# JANET COOKE

# CITIZEN

I'm Janet Cooke, and I'm here as a citizen and as a member of the Sierra Club, and I want to thank you for this opportunity to speak with you. I'm here to support any and all decisions that you make which will ensure that the earth and its atmosphere will remain viable, clean, and safe for our children.

I'm thinking right now of those grandmothers in Detroit because I just became a grandmother three years ago and that's why I'm here,

too. I would have loved to have sung a song with them.

MR. MEDFORD: It's not too late.

MS. COOKE: I can't do it alone.

Having grandchildren places one's view of the future into a very clear perspective.

It's not like it would be nice to do this or not to support one's future, it becomes imperative that we do everything that we can and know how to do to stop adding poisons and pollutants into the air and water and control destructive procedures and policies that contribute to global warming. Without a healthy earth and atmosphere there can be no future for our grandchildren and their grandchildren and so on.

I live in Center City Philadelphia, and I frequently enjoy hanging out in one or another of four squares that were established by William Penn and his city planner, Thomas Holme. They had a vision bright with possibility for their new city of Philadelphia. They created four open spaces that are known today as Washington Square Park, Franklin Park, Logan Circle, and Rittenhouse Square. Here are a few descriptions of what I have seen in Penn's city in the past few months. Three hundred years since the founding of the city, I think he would be

pleased, but I wonder how global warming will change things.

In Washington Square and Rittenhouse Square with their large, old trees and bench-lined walkways, I watch people chatting with friends and strangers, playing cards, enjoying ice cream cones, listening to street musicians. I once saw four barefoot women rehearsing ballet routines, practicing their jumps over and over again, rehearsing right there on the grass. Young adults often meet and organize volleyball games and croquet games.

I loved watching a father one morning who came with a baseball and wearing a catcher's mitt standing several paces across a grassy area from three boys who stood more or less in a line facing him. The boys appeared to be about seven, nine, and ten years old and each of them had his own catcher's mitt. One by one the father tossed the ball to each of the boys who then returned the ball to him. It was spring training for kids.

Older people come to the parks with their walkers and motorized wheelchairs, and young families bring their toddlers to take their first step. One fall day in Washington Square Park neighborhood children were jumping into huge piles of leaves that were ready to be picked up in trucks and removed from the park.

Washington Square Park and
Rittenhouse are especially great for dogs. I see
little dogs and big dogs, dogs on leashes, dogs
running free, free to catch Frisbees in midair, free
to chase balls, squirrels, pigeons, their owners,
and other dogs.

Franklin Square is for families and families come. Here you can watch parents speaking different languages helping their children and other children enjoy the many sizes of climbing structures and swings in the park. Families bring picnics and enjoy sitting at tables under the big trees. After lunch, some kids ride the beautiful carousel, while others play miniature golf on a course that includes many small copies of famous Philadelphia landmarks, like Independence Hall and the Liberty Bell.

Today I'm wondering how will Penn's vision of 300 years ago look 300 years from now?

What if global warming continues? Will people young and old want to be outdoors if the air is filled with noxious gases and particulate matter? Will mothers let their children float little boats on

ponds where mosquitoes are breeding and algae is growing on the sculptures? I don't think so.

We support your work with the Environmental Protection Agency and members of the Obama Administration who share our concerns. Yes, please do pass these new regulations raising the miles per gallon for gas for cars to 54.5 and limiting the CO2 emissions to 163 grams, and do continue to focus attention on what we humans can do to keep our earth beautiful and livable, the place we know it can be.

Thank you, and I invite you to take a walk in our lovely city parks.

MS. OGE: Thank you.

Mr. Thomas Smith. Good evening.

# THOMAS SMITH

18 CITIZEN

MR. SMITH: Good afternoon, or good evening, yeah. My name is Thomas Smith, and I am a resident of Philadelphia. I would like to thank the EPA and the National Highway Traffic Safety Administration, NHTSA, for providing this opportunity to speak in support of the rule-making

under consideration.

The collaboration of your two agencies in designing and moving this initiative forward is both sensible and laudable. I would add that it reflects the kind of interagency work that we need much more of. I would also like to compliment the flexibility and the variety of incentives the rule-making envisions. This, too, I think will be critical in bringing about the ambitious long-term changes in fuel economy standards you are aiming for.

I'm in strong agreement with the speakers who have pointed out the many benefits that increased fuel economy will lead to. Transportation is the basic element of our economic infrastructure. If in the long term we can lower one of its major costs, the positive economic effects, though they may not be easy to quantify, will nonetheless prove to be considerable. So it goes without saying that reducing costs at the pump will have direct and measurable effects on everyone's budget.

In addition, lowering greenhouse gas emissions and the positive environmental effects it will lead to is a benefit of fundamental importance to this nation. Wherever one stands on the larger

questions of climate change, there can be little doubt that taking ambitious steps now to reduce environmental externalities will pay large dividends down the road.

Finally, I think it is important to point out the strategic value of reducing the nation's dependence on foreign oil. It seems unlikely that that dependence ever can entirely end, but by adopting a course of action now to make our vehicles significantly more fuel efficient, we will over time become more self-sufficient and less in the grip of oil sources not always favorably disposed to the U.S.

In closing, I again want to commend the EPA and NHTSA for the bold and ambitious approach they're proposing. I do believe the success of these efforts would be significantly enhanced by a large boost in the current federal tax on gasoline, but that is a topic, perhaps, for another venue.

Again, thank you for the opportunity to speak.

MS. OGE: Thank you.

Ms. Jeanette MacNeille. Welcome.

#### JEANETTE MacNEILLE

## MILLBOURNE BOROUGH COUNCIL

MS. MacNEILLE: Thank you, and thank you for coming to Philadelphia.

My name is Jeanette MacNeille. I am president of Millbourne Borough Council in Millbourne, Pennsylvania, just outside the boundaries of Philadelphia and also in the area -- in an area which has very poor air quality. I'm a wife; I'm an entrepreneur and business owner; I employ people in three states; and I'm an elected official, as I mentioned.

Personally, I drive a Honda Civic

Hybrid. It's six years old. My husband and I

regularly get 52 or 53 miles per gallon on the

highway, and so I think the standards that you

proposed are very likely doable, they're possible.

It's almost possible today, and given a few more

years it should be possible to do.

As an elected official myself and our borough council and our residents in our town have worked very hard on energy efficiency. Last year we bought our streetlight system, and it was a big investment. By doing that we're going to save

\$6,000 a year. We're upgrading all the lights from mercury vapor to LED and sodium-vapor lights, and we're going to save 20.7 percent of our energy usage compared to last year.

In addition, this year we're working on improvements and renovations to Borough Hall, which is our second-highest priority, likewise to improve the energy use, reduce our costs, and reduce our energy use.

And thirdly, a third big initiative is that we are working now and are paying for a bicycle and pedestrian plan to improve the options for walking and biking in the town and connecting with public transportation so that people don't need cars quite as much. So we are highly committed to energy efficiency as a town.

In addition to that, I myself am a severe asthmatic. I know the inside of almost every emergency room here in Philadelphia, and I know the emergency rooms in a number of towns when I've been traveling for business, or even out of the country when I've had to go. Attacks are unpredictable; they are inconvenient; they are very expensive.

When I looked back at my medical records, what I see is that an emergency room visit for me tends to cost

somewhere between \$4,500 and \$17,500 each and every time.

And in addition to all of that, I assure you that it is utterly unwelcome to have this situation in place. When you can't breathe, when you actually get to a point where you really can't breathe, when you can't -- you have no assurance that you actually are going to take another breath, there isn't anything that is more important. There is no priority that is that high. There is not the signing of our police checks for our police officers in our town, that isn't as important. Making a sales call for my company, gaining another customer, that isn't as important. Or even meeting a commitment to my family, that isn't as important either. When you can't breathe, there is nothing else out there actually for you.

So for me and also for millions of people like me here in the United States, I want to ask you to pass the strictest and strongest and highest CAFE standards that you can, because for me automobile efficiency equals less time in the emergency room and it actually really matters.

Thank you.

MS. OGE: Thank you. Thank you for

1 your testimony.

2 Any questions?

I'd like to thank the panel for taking the timing to share your views and to testify for this program. Thank you.

MR. MEDFORD: Okay. I think we're ready for the next panel.

Ms. Dowell, when you're ready, you can go ahead, please.

## ERICA DOWELL

SMALL BUSINESS MAJORITY, NETWORK COORDINATOR

MS. DOWELL: Good evening. My name is Erica Dowell, and I'm network coordinator with Small Business Majority. Small Business Majority is a nonpartisan small business advocacy organization founded and run by small business owners. We represent 28 million Americans who are self-employed or own businesses of up to a hundred employees. Our organization uses scientific opinion and economic research to understand and represent the interests of all small businesses.

Solutions to the country's economic malaise start with small business. But government

must support them if we are to harness their power as job creators. Small businesses have the potential to stimulate the economy, but they still need smart policies to help them do so, such as stronger fuel efficiency standards. By concentrating their efforts on raising the requirements automakers must meet, legislators can help entrepreneurs save money and give them the boost they need to rebuild America. We know this from our research.

where the government can help small businesses. We released a national opinion poll in September of last year that found that 87 percent of small business owners believe it's important for the United States to take action now to increase fuel efficiency in cars and light trucks. A 59 percent majority described this as very important.

Moreover, small business owners in the influential automotive states of Michigan, Ohio, and California demonstrated equally strong support of more stringent standards.

Our survey also found that 71 percent of small business owners believe that American car companies do not innovate enough and 73 percent

believe the federal government should do more to make them innovate. Therefore, it's not surprising that 80 percent of owners support requiring the auto industry to increase fuel efficiency to 60 miles per gallon by 2025, an even higher standard than the 54.5 miles per gallon standard the Obama Administration proposed in November.

Small business owners know they will benefit from strengthened fuel economy standards. The proposed rules are right on par with what entrepreneurs have told us they want: improved fuel standards that have the power to cut long-term business costs. Stronger standards are a surefire way to help small business owners save money on fuel, invest in their companies, and hire.

of the employers we polled, the rising cost of doing business came in as their top concern, including fuel costs. This helps explain why so many small business owners believe stronger fuel efficiency standards have the potential to boost their bottom line. In fact, 87 percent of small business owners agree that improving innovation and energy efficiency are good ways to increase prosperity for small businesses.

If lawmakers are going to meet these

1 entrepreneurs' needs, raising fuel economy standards 2 is a great way to start. Through higher standards the money small business owners and consumers will 3 4 save on gas will better equip the American public to foster economic growth by patronizing businesses 5 6 everywhere. 7 We support raising fuel economy standards because they'll be a boon to our small 8 9 businesses and to our economy. Thank you. 10 MR. MEDFORD: Thank you. 11 Kesaaraa, I'm going to let you tell 12 us how to say your last name. 13 14 KESAARAA WIJEYEWICKREMA 15 SIERRA CLUB 16 17 MS. WIJEYEWICKREMA: Thank you for 18 the opportunity to testify today. My name is 19 Kesaaraa Wijeyewickrema. Don't worry. Everyone 20 gets it wrong. 21 MR. MEDFORD: Thank you. 22 MS. WIJEYEWICKREMA: And I work for 23 the Sierra Club's Green Transportation Campaign. On behalf of Sierra Club's 1.4 24 million members and supporters, I applaud the EPA 25

and NHTSA for proposing to strengthen vehicle fuel efficiency and greenhouse gas standards for model years 2017 through 2025 cars and light trucks to 54.5 miles per gallon by 2025.

Cars and light trucks drive our addiction to oil. They consume more than 8 million barrels of oil every day and are responsible for nearly 20 percent of U.S. climate-disrupting carbon pollution. To feed our oil addiction we spend as much as \$1 billion overseas every day, costing jobs and threatening our national security.

In our efforts to educate the public, our members, the media, and decision makers about the importance of strengthening vehicle standards and cutting our addiction to oil, we helped form a coalition of groups in support of a 60 mpg standard. Through our coalition's efforts, nearly 300,000 Americans nationwide took action in support of strengthening vehicle standards from writing letters to their elected representatives to sending in photos supporting cleaner cars. I have brought with me today and would like to submit to the agencies a card that represents these actions, as well as postcards from hundreds of Americans in support of the standards, just to show you the photo that we

1 took.

Many of these Americans support a strong standard because they care about the new jobs that come with innovation, curbing global warming, cutting our nation's addiction to oil, and saving billions at the gas pump. Americans want cleaner and more efficient cars and trucks that are better for our environment and our economy. These standards are the biggest single step we can take to end our addiction to oil. Not only will these standards save consumers money at the pump, they will help our American auto industry innovate and thrive in a global economy.

Sierra Club applauds the agencies' efforts to raise fuel efficiency standards to 54.5 mpg and look forward to final standards later this summer. Thank you.

MR. MEDFORD: Thank you very much.

Dr. Sarfaty.

MONA SARFATY, M.D.

CITIZEN

DR. SARFATY: Thank you. My name is

Mona Sarfaty and I'm a primary care physician and an

associate professor at the Jefferson School of
Population Health that's located here in Center
City. I'm also on the executive committee of the
local Philadelphia College of Physicians and recent
past chair of the Medical Care Section of the
American Public Health Association, but I'm coming
to speak on my own behalf, not on behalf of those
organizations.

The push to make all vehicles cleaner is supported by strong logic with many valid and convincing arguments. The logic of this presentation is going to come from public health and from individual health.

adversely affected in Philadelphia because of deficient air quality. Based on data monitoring carried out by the EPA and made available to the American Lung Association, the population at risk because of poor air quality in this county is very substantial. A colleague of mine participated in an asthma project, the Philadelphia Allies Against Asthma, in collaboration with local hospitals, schools, and several other cities. The project had school nurses coordinate with hospital emergency rooms to identify and then work with families of

asthmatic children to help them use every technique available to protect the children from their asthma. The number of asthmatic children in our project schools, which was 82 per school, was the highest of all the cities that participated in this project.

part of my work at Jefferson involves quality improvement in health care. Medical care institutions are under increasing pressure to show improved quality outcomes because of the significant percentage of the national budget that's spent on medical care. In our family practice we have 978 individuals who have asthma. Clearly, it undermines the efforts of all the medical institutions in this city when the city report card shows a grade of F both for days of ozone elevation and for 24-hour particle pollution.

The medical literature is full of publications from this country and from foreign countries demonstrating that cleaner air leads to improvement in health status for people with lung conditions and chronic diseases. Unfortunately, in our practice, the common wisdom is that all the patients who move to Philadelphia eventually develop asthma, a cough, or allergies. Vehicles that emit less pollution are an important component of a

strategy for preventing these health problems.

The population that's at special risk of air pollutants because of the underlying medical conditions they have is very large in Philadelphia. It's 679,000 people and it accounts for 40 percent of the population. How could that be so? Well, that total is comprised of 37,000 children and 110,000 adults who have asthma, 50,000 people who have chronic bronchitis, 24,000 who have emphysema, 413,000 who have cardiovascular disease, and 95,000 who have diabetes. All of these people are at greater-than-average risk from ozone and/or particle pollution. Even a limited period of exposure above certain limits can precipitate deterioration for people who have such conditions.

I'd like to close with just a few words about my personal experience as a fuel efficient car owner. My husband and I have needed two new cars in the last five years. With the high price of gas and the many miles that my husband drives per week, we looked carefully at fuel economy and safety when we were shopping and bought hybrids both times. We have been very pleased with our vehicles and pleased to contribute to the growth of the green economy.

If the American auto companies had heeded the energy cost and health needs of the public in developing their products, they might have been ready for the current economic storm. If energy efficiency and public health guide our planning, we'll be on sounder footing as we go forward. Thank you very much.

MR. MEDFORD: Thank you very much.
Reverend McClellan.

# REV. ROBERT McCLELLAN TABERNACLE UNITED CHURCH

REV. McCLELLAN: Hi. I'm the
Reverend Robert McClellan, pastor of Tabernacle
United Church, of Presbyterian Church U.S.A., and
United Church of Christ Union Congregation right
here in Philadelphia. I come with the endorsement
of that congregation, as well as Interfaith Power &
Light, and that organization has chapters in 38
states serving 14,000 congregations and growing.
I'm grateful for the opportunity to speak, and I
give thanks to God for the EPA and NHTSA and the
Obama Administration for putting forward these bold
fuel efficiency standards.

I have given my life over to
nurturing ways of life that attend to the well-being
of all, of all people and indeed all God's creation.
I care about a lot -- I care about a lot of
different things, but it's been increasingly clear
to me that the looming environmental crisis
threatens to render every other single issue moot.
The time has come for us to be known as leaders in
this world again.

There is absolute consensus among my sisters and brothers in the scientific community on the fact that global climate change is the result of human activity, in particular greenhouse gas emissions, a huge percentage of which comes from our automobiles. You'll hear lies about that and lies about how caring for our environment through standards will somehow hurt us by taking away jobs or stunting the economy.

But there is also absolute consensus in the religious community that lies are bad.

The truth is sound environmental policy is sound economic policy is faithful policy. Period. Today's environmental challenges are tomorrow's economic opportunities.

I spent significant portions of the

past 15 years working with young people. If we don't adopt policies such as these and even stronger ones, what will I tell them about the way their parents acted in a time of need?

I was in fifth grade in 1987, a schoolboy in Indiana, when I learned about the greenhouse effect. I have thought about it every single day since. My question is, how many more generations do we have to watch grow up before we decide the time is right to lead again?

Thank you for your leadership. Thank you.

MR. MEDFORD: Thank you.

14 Colleen Kennedy Nadav.

# COLLEEN KENNEDY

17 CITIZEN

MS. KENNEDY: I'm actually just Colleen Kennedy. I think that's just a typo.

Hi, everybody. My name is Colleen

Kennedy, and I'm a 22-year-old resident of Delaware

County, Pennsylvania. I stand before you today for

a multitude of reasons. Primarily I am here because

I want to stress to you how critically life-changing

this regulation could be for me if all goes well.

I was born with asthma and at the age of three weeks I had a very -- a very bad case of pneumonia and I had to be hospitalized. When I was in elementary school, I had to have four nebulizer treatments every single day. I had to miss class in order to do that.

Today I actually have a heart

condition called atrial ectopic -- atrial ectopic

tachycardia -- still don't have that memorized -
that causes my heart rate to speed up randomly and

go out of rhythm. I get heart palpitations,

horrible chest pain, and dizziness as my body

struggles to keep all of my normal bodily functions

going, like oxygen going to the rest of my body. I

had heart surgery last year to try to correct this

defect and it was unsuccessful. I just want to

quickly read to you some of the risks that come with

this procedure that I had to decide and get the

surgery anyway.

If you get this procedure there is a chance that you'll have a recurrence of your arrhythmia. There is a chance that you'll form a new horrible -- like worse arrhythmia. There is a chance the surgeons will damage your blood vessels.

They could puncture your heart. You can get something called AV block, which I'm not a doctor, but pretty much your electrical circuitry of your heart changes dramatically. I'm sure other people who are doctors can explain it better than me. Sorry about that. You could have a risk of stroke or, obviously, death.

This is a decision I had to make at the age of 22, and it's not something that I took lightly, and I will probably have to go through with this surgery once again because it was unsuccessful.

I have learned that I can't really control my health, but there are some things that I can control, and one such thing is air quality. Air pollution and the intensifying heat and humidity we've seen over the past decade have a dramatic impact over whether or not I can leave my home. When the weatherman goes on the TV and says, Be careful out there; there is an orange air quality alert today, that's often my cue to stay indoors, losing far too much work and school.

As a college student and an active participant in my community, it is an infuriating feeling to have to e-mail a professor or call your boss and tell them that yet again you're going to be

staying home. But if I ignore my symptoms and push myself past my limit, within a few hours the dizziness, nausea, and feeling that someone is sitting on my chest returns, and no amount of air conditioning will relieve these symptoms right away.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

A few months back I attended a congressional town hall with my congressman. don't matter, but suffice it to say that after I brought to my representative's attention the struggles that I've had and how we need to take air quality issues into account when making decisions on a local and national level, he changed the subject almost immediately, but not before spewing the same old speech that the EPA makes ridiculous regulations that kill jobs. I wanted to tell him that it would be an awful shame if his kind of attitude killed me in my next surgery while I was trying to avoid the symptoms that could have been circumvented through sensible clean air measures, but a lot of other people had questions of their own, so I held my tongue.

I am so thankful to get this opportunity to talk to all of you to remind all of you why the EPA exists. It is there for all of us so we can leave our homes and go about our lives

safe and healthy. The work that the EPA and state environmental government agencies do is just as important as the regard we have for defense, education, or any other field. Yet many politicians look at the EPA with disdain because it's a job killer.

Do you all remember that almost-bankruptcy we had with our auto industry? Why was that? Was it because for decades the industry ignored prompts from international competition to improve their product, to improve their fuel efficiency? I think so.

Administration, is proposing new fuel efficiency standards for cars in model years 2017-2025. This is the single greatest step our country has taken to tackle global warming and get off oil, all while saving Americans cash at the pump. By the year 2030 the proposed standards would cut annual global warming pollution by roughly 280 million metric tons, which would be the near equivalent to shutting down 70 coal-powered plants for an entire year.

Here's the kicker, though. My congressman was wrong about the EPA's top-secret plan to destroy our economy. Improving standards

1	within the auto industry will boost sales, improve
2	our international strength as an auto industry
3	against foreign competition, and, most of all,
4	create jobs. And, hey, that's what we're all
5	worried about now, right? I feel like this is a
6	no-brainer and this is definitely an Obama plan that
7	I can get behind heart, lungs, and body.
8	I hope you all see how important this
9	is to our country and to my own family and back our
10	president up along with me.
11	Thank you.
12	MR. MEDFORD: Thank you.
13	Mr. Greene.
14	
15	PAUL GREENE
16	CITIZEN
17	
18	MR. GREENE: Thank you for this
19	opportunity. My name is Paul Greene. I'm an
20	anthropologist and associate professor at Penn State
21	University's Brandywine Campus.
22	Can you hear me?
23	MR. MEDFORD: Yeah, we can. We can.
24	We can hear you.
25	MR. GREENE: I'm not an environmental

scholar. I'm speaking to you as a concerned citizen. I feel that there are three experiences that motivate me to be here. One is that on our campus we had a discussion of global climate change. We screened An Inconvenient Truth. We invited scholars on both sides of this issue to speak. The experience was -- was very convincing to me. I felt that the evidence was overwhelming and incontrovertible that human beings are responsible for global climate change.

The other two experiences are from my travels as an anthropologist. Three years ago I had the opportunity to climb Mount Kilimanjaro. A marvelous experience. But only the last day did I actually encounter glacial ice, and I've seen photos that you can compare to the way this used to look. So this is a place where the effects of global climate change seem to be very dramatically on display.

Another experience I had was working with a research assistant in Kathmandu. Kathmandu is -- has much greater fuel emission problems than any city in the United States. Life in Kathmandu for many people involves wearing masks that filter out the air. At the end of a long day of fieldwork

I would come back and there would actually be black stuff coming out of -- you know, in my mucus and in my nose and in my throat. These dangers are real and considerable, and I really applaud the EPA for moving ahead with regulations for higher fuel efficiency.

regulation is beginning to take on a bad name. As we just heard, there is talk about job-killing regulations. There are fears that enhancing regulations on individuals will curtail liberties, that strengthening regulations on corporations will reduce their ability to create jobs. But in the last few years we have seen how lax regulation has led to or contributed to a global economic meltdown from which we are still recovering and what is now clear in hindsight about regulation was not clear before, evidently.

Regulation is very important. Many citizens are calling for and asking for regulation. We need to organize ourselves at the largest social levels in order to solve this problem, and regulation is the way to do that. So instead of viewing this as something that curtails or limits us, I think I, and it sounds like other people at

this panel, consider this to be a real liberating opportunity.

Facing climate change is exactly the sort of issue that we organize government for, to tackle a problem that we can't solve as individuals, nor can we wait for the invisible hand of the economy to solve this problem for us. We need a coordinated effort with consistent and high standards to avert disaster. Let's not allow this time of economic jitters and the vilification of regulation to compromise the obvious public good. This is not a time to make exceptions or create loopholes or special situations for certain corporations or individuals. We need a consistent and thorough regulation at a very high standard to prevent disaster.

Future generations will not thank us for creating a few extra jobs now while allowing our planet's climate to change dramatically and permanently for the future.

Thank you.

MR. MEDFORD: Thank you.

Ms. Bergey.

25 JOY BERGEY

## CENTER FOR THE CELEBRATION OF CREATION

MS. BERGEY: Thank you. My name is Joy Bergey, and just to clarify, I'm also on staff at PennFuture but that testimony's already been given, so I speak in my role as executive director of the Center for the Celebration of Creation. The center is an interreligious program affiliated with Chestnut Hill United Church in Philadelphia. And I just want to thank all of you sitting here through so much testimony today and you're all still awake. That's just wonderful.

The Center for the Celebration of Creation applauds President Obama and Secretaries

Jackson and LaHood for proposing this strong new rule and we urge that it not be weakened in any way.

Climate change looms large. It will hurt first and worst those least able to care for themselves: the old, the young, the sick, the poor. Addressing it is thus an issue of morality, which is why the faith community cares so deeply about this country's energy policies, such as the rule we're considering today.

Our current energy policies in this country reflect and enable our national addiction to

1 fossil fuels. Overwhelmingly our policies ignore 2 the issue of climate change. So if we can't wean 3 ourselves off fossil fuels any time soon, then we 4 must devote ourselves to improving vehicle efficiency so we can use less fossil fuels. Cars 5 6 that are more efficient will mean less oil use. 7 Less oil used means less burned, less global warming pollution, less traditional pollution that attacks 8 9 our health and shortens too many lives. Less oil 10 used means less money spent by businesses, by 11 governments, by consumers. Less oil used 12 domestically means less oil imported from countries 13 that don't like us and may allow us to avoid some 14 militaristic conflicts. So less oil used is good 15 for our health, our pocketbooks, our national 16 security, our future. All of these are morally 17 sound preferences.

This proposed rule would give us a better future than we would have without it, which is why the Center for Celebration of Creation supports it.

Thank you all.

18

19

20

21

22

23

24

25

MR. MEDFORD: Thank you.

Any questions for the panel?

MS. OGE: I have one.

1	MR. MEDFORD: Yeah, sure.
2	MS. OGE: I have a request.
3	Ms. Erica Dowell, I thank you for your testimony.
4	If the survey that you made the reference is not
5	confidential, we would appreciate if you could place
6	it to our docket for the record.
7	MS. DOWELL: Okay. I'd be glad to.
8	MS. OGE: Okay. Thank you.
9	MR. MEDFORD: We'd like to thank each
10	of you for coming today to testify. We appreciate
11	you making the effort.
12	Our next panel.
13	MS. OGE: Wonderful. So now we're
14	going to Panel 11. I would like to call first Mr.
15	Matt Schwartz with his two lovely daughters.
16	Welcome. I think there are chairs for the two young
17	ladies.
18	Are you going to sit? You can bring
19	them forward so we can all see you.
20	Okay. Mr. Schwartz, we'll start with
21	you. If you can give us your name and also the name
22	of your two daughters for the record. They're the
23	youngest testifiers today, and they have been very

patient, so we appreciate that.

24

25

# L. MATTHEW SCHWARTZ, M.D.

#### CITIZEN

DR. SCHWARTZ: Thank you, everybody.

I'm very appreciative of the opportunity to speak
with you today. My name is Matthew Schwartz. I'm
accompanied by my two daughters, Olivia Schwartz and
Emily Schwartz. Olivia is eight and Emily is 11 and
they're in the third and fifth grade, and they're
learning about how to take good care of our
environment.

I also want to thank you for working for an organization that holds in esteem our health and our well-being, our environment. It gets too short a shrift I think in decision making at the federal level and state level and I really hope it can be strengthened.

I'm a practicing physician. I'm also a member of the National Advisory Board of the Union of Concerned Scientists. I do not represent them, though. I'm here in the capacity of representing myself. And I just wanted to remind us all that there is overwhelming peer-reviewed scientific evidence that climate change is real and

1 accelerating. This is fact, not debatable,
2 faith-based belief.

Over the past few years climate records were broken across the -- excuse me -- across the globe. The National Oceanic and Atmospheric Administration has chronicled blizzards, 1,000-year floods, and scorching heat on all continents.

Air pollution flares asthma and allergies. As a physician, I see how many of my patients must take these medications on a regular basis. And even I, I take excellent care of myself, and I still have postnasal drip, I wake up with crust in my eyes every day. I have allergies and I believe they are environmental and related to pollution.

So the EPA must act now with a bold clean-car efficiency standard of 54 1/2 miles a gallon. I wish it could be better. I like higher numbers. I know the technology exists that it could be higher, but we'll settle, and everybody pretty much, in my understanding, has been very pleased with at least starting with 54. If we do, if you do, we'll see the elimination of Saudi oil imports, increasing our national security; we'll see marked

reductions in annual CO2 production so that in 2030 the equivalent of shuttering 70 coal-fired plants will be realized; we'll see reduced demand for offshore drilling and associated spills, like what we saw in the Gulf this past year; and we'll see the creation of an estimated 500,000 green jobs. Talk about improving the economy. There is the opportunity.

But we all know that oil companies want to profit from America's fossil fuel addiction, just like cigarette companies have done from nicotine addiction. They've had their day. The auto industry protested seat belts at the beginning saying that it would ruin our business. Well, it didn't. They also said that fuel efficiency standards in the past, they said that's going to ruin us, too. It never did. But they did flourish until they didn't keep up, and then we saw what happened in 2009, several went bankrupt, because they failed to keep up with the new standards, including fuel efficiency. Essentially Asia ate their lunch. The auto industry can't afford not to improve.

Auto dealerships can't keep hybrids and all-electric vehicles in stock. The demand is

too great. Even my brother-in-law is selling his Hummer and is buying a hybrid. My Prius, which is the third Prius purchased in the greater Philadelphia area 11 years ago, has saved me a bundle in gas. At 102,000 miles and going strong, the total cost of ownership has been very low.

Finally, we need a rule free from loopholes like overly generous corporate welfare for the industry. Let's let them show what they can do and not give them handouts unnecessarily. Please only offer reasonable and necessary incentives. If you need more information, you can visit the Union of Concerned Scientists Web site at ucsusa.org.

And remember, the EPA, Environmental Protection Agency, works for we the people, the majority of Americans, not the minority special interests of the oil or auto industries. We're depending upon you, and you're the representatives, you're the messengers perhaps, not the decision makers, but we're depending on the EPA to do its job and represent us.

Thank you very much.

MS. OGE: Thank you, Mr. Schwartz.

Mr. Charlie Bugg.

## CHARLIE BUGG

#### CITIZEN

MR. BUGG: Hi. My name is Charlie Bugg, and I'm about as grass roots as you can be. I'm not a member of any organization that most people have heard of, although I am a dues-paying member of Penn Environment; I am the treasurer of our local Frankford -- Frankford is a neighborhood in Philadelphia -- Garden Club; and a proud member of the Pennsylvania Horticultural Society.

If I can just digress for an instant, we have a fabulous flower show early March each year. Please come. By public transportation, if possible.

I'm also a hiker, a sailor, and a landlord, a low-income landlord. Many of my tenants do get asthma. Many also have to travel by public transportation two or three hours to go to the suburbs to find a job. I took the "el" here from Frankford. The "el" is an elevated train, and that's great, and Philadelphia has a good transportation system. However, even living in Philadelphia I need the car to do things with the

garden. I need the car to go to the Appalachian

Trail up in Hamburg, the pinnacle of which is the
highest point in Pennsylvania. I need the car to go
to the eastern shore of the Chesapeake Bay to sail.

There is not public transportation to everywhere
that we need to go. I wish it were.

But because it isn't, for quite a while regular people like me with no particular problems are going to have to take cars, and I want to take it and use it doing the least amount of harm that it can. So I beg you, please pass this bill, get this -- not pass this bill, but get the regulations in here that are strong enough to make it work.

I'm willing to pay a little more -not a lot more -- I'm willing to pay a little bit
more if the cars were such that I could enjoy the
activities that I enjoy. If maybe some of my
tenants could afford a car, instead of having to
take two hours to get to their job, they could take
maybe 40 minutes. This is important for regular
people, too, not just scientists or large
organizations.

Thank you very much, and I hope you pass a strong bill.

1 MS. OGE: Thank you.

Ms. Donna McKee. Good evening.

DONNA MCKEE

CITIZEN

MS. McKEE: Yes, hello. My name is

Donna McKee. I'm a citizen and also a member of

Penn Environment. And I'd like to thank you for the
opportunity to testify in support of the greater

fuel efficiency standards for cars and light trucks
that has been proposed by the Obama Administration,
and I applaud the EPA and the Department of

Transportation for taking this big step.

As an environmental advocate and a landscape architect, I see the effects of climate change every day on plant and animal species, and particularly species -- important species like oak, they're being threatened by fungal diseases, just to name one, and amphibians, you know, like frogs and salamanders, who are also threatened by warming as well as increased -- greatly increased spread of fungal diseases and other pathogens, which is connected with global warming and the consequent climate change.

But our dependence on oil is, I think, the thing that probably scares me the most in terms of its effect on our society and on the planet and into the future. Our country's dangerous and unwise dependence upon oil, particularly foreign oil, has resulted in Americans sending over a billion dollars mainly to the Middle Eastern countries every year and to the oil cartels, which then fuel wars and conflicts that are really devastating us economically and saddling us with an unsustainable debt burden that I think is not fair for us to pass on to future generations, and at the same time our domestic economy is struggling and making us -- as this is all making us less and less secure every day. And we hear the war drums now that are growing louder and louder for war on Iran, yet another war, and I just wonder, when will the insanity end? I think that it would be closely linked to our commitment, or lack thereof, of tackling this problem and lessening and eventually breaking our dependence and our addiction to oil. The new proposed fuel efficiency

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

standards are an important and long-overdue step

towards reducing our dependence on foreign oil, I

believe, and beginning to take responsible steps

towards reducing global warming, and they'll also save Americans much-needed money. It's estimated that it will save approximately \$330, you know, per year per family.

As so many Americans, I want to be able to buy the most fuel efficient vehicle, you know, car or truck possible, but have been frustrated because there are so few available on the market -- the U.S. market, and those few that are available are out of the reach of most Americans because of their high price. And there is really no good reason for this. I mean, the technology has been available for decades and the auto industry has just chosen not to pursue this and provide what the majority of Americans want.

so, you know, it's -- even though I would like to see these standards coupled with a gasoline tax, and I think that a gasoline tax would really be the most efficient and quick way to go about achieving this, but there is so much resistance to that because of all the corporate-funded, you know, antitax, you know, kind of propaganda out there or funded ads and things that we hear all the time that it makes it very difficult to pass something like that. But, you

know, maybe in the future there could be a gas tax coupled with your increased fuel efficiency standards that would encourage less consumption, and a gas tax could fund much-needed transportation improvements.

But I certainly support your proposal as a first -- a very important step, and I urge the EPA to adopt these standards and to guard against allowing loopholes that could undermine the potential benefits and even possibly making them stronger. And this would be loopholes such as overly generous, you know, taxpayer-financed incentives to automakers, who I feel have, you know, more than enough time, you know, decades, to implement these things but have chosen not to do so. And I don't -- I just don't think it's fair really to ask taxpayers that are already heavily burdened to subsidize something that this industry really should have done decades ago.

And I think that -- I just want to again applaud you for your efforts and hope that you will pass a very strong law.

Thank you.

MS. OGE: Thank you.

Ms. Rosa, we'll let you give us your

1	last name.
2	ROSA MICHNYA
3	CITIZEN
4	
5	MS. MICHNYA: Oh, sure. It's
6	M-i-c-h-n-y-a, Michnya.
7	MS. OGE: Thank you. Welcome.
8	MS. MICHNYA: Thank you. We met in
9	the bathroom.
10	MS. OGE: Oh, we did.
11	MS. MICHNYA: So, first of all, thank
12	you so much for coming once again to my state and to
13	my hometown. And as I said when the EPA was here
14	last May, we need you to come back, at least those
15	of you here today from the EPA, to talk about
16	Marcellus Shale and now, from what I'm hearing,
17	Utica Shale as well.
18	So I live on the other side of U.S.
19	Route 1, the 12-lane highway that runs along the
20	East Coast, known to Philadelphians as Roosevelt
21	Boulevard, or to those of us in its immediate
22	vicinity, simply the Boulevard. And when I say I
23	live on the other side of it, I mean literally.
24	It's the other side of my block, so that if I go out
25	my front door, walk down to the corner and look to

the right, for example, there it is at the other end of the block, all 12 lanes plus a turning lane. So near me there are actually 13 lanes, and I'm not superstitious, but this is some bad luck.

Although my front door faces a quiet, little, single-lane street, after a snowstorm last winter our glistening white snow was almost immediately covered by tiny, black flecks all over both the front and the back yard. It would be interesting to measure the amount of fossil fuels in my blood. You probably remember about a decade ago when Bill Moyers of PBS had his blood and urine tested. He never worked in heavy industry or had any particular exposure that he could recall. As he himself put it, he was just a TV guy. Yet his tests revealed about 85 chemicals that were never intended to be in the human body in the first place and certainly not in combination there.

By the way, Bill Moyers just gave a great speech on the occasion of Ralph Nader's 40 years of consumer protection. It's available online and he talks about the difficulty citizens like those of us here today have in today's corporate and political climate in being truly heard, and his speech is really worth being heard itself.

But getting back to the fossil fuels that I suspect are in my blood, I can't afford to have my blood tested. Right now I work for an environmental protection nonprofit. You don't get rich that way, as I'm sure you know. So I also couldn't afford to move at this time if my life depended on it, and it might. In addition to many relatives with cancer, we have a history of heart disease in our family. Both my parents died from it after multiple heart attacks and strokes, long and lingering illnesses that were undoubtedly made worse by their proximity to the Boulevard. I moved back into the house I grew up in to help take care of them during that time. They also couldn't afford to move.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

My dad was an artist. And I mention this because I think part of the point of today's proceedings is to remember that people are more than statistics or the sum of their illnesses, like the young woman with the serious heart condition who spoke on the last panel. My dad was a graduate of the Pennsylvania Academy of Fine Arts and he was really good. We weren't permitted visual aids today or I would have brought a photograph of one of his works to prove it and to make the point that who

knows how many more such paintings he could have left the world had he not had so many sick days, how much larger his body of work could have been.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

As for my mother, a musician, she was the kindest person I've ever known, and it's really best for the world if people like her can get to live as long as possible.

As for myself, I was one of thousands of unpaid caretakers in the state of Pennsylvania, and the irony is just off the Boulevard we couldn't afford a car, just car fumes and plenty of it. got around by public transportation. I still do. And I see lots of houses and apartments in my Northeast Philadelphia neighborhood in an even worse position, right on the Boulevard itself basically. It's their street address. They don't have to walk down to the corner to see it. All they have to do is look out a front window or open their front door. And, of course, going through a heavily residential area as it does, the Boulevard has lots of stopping and starting and traffic lights throughout and major four-way intersections where again there are houses and apartments very close by, just a stone's throw away in many cases. Not such a great spot to raise kids for a number of reasons, but I have to assume

immigrants, are all they can afford as well.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Also on my work -- on my way to work each day I see far poorer communities than my own lined up near I-95 as my train goes by, the "el" that he spoke of, and 95 appears to be still worse traffic-wise.

Speaking of kids, I'm a Head Start volunteer, and many Head Start children live near I-95, and I'm sure you're aware that these children have enough challenges to overcome without health problems and the antisocial behaviors that pollutants can trigger. To touch briefly just on the latter, because the former is so well known, as Dr. Lawrence Wilson wrote in October 2010, lead, cadmium, and mercury can damage children's brains and cause mood swings and violent thoughts. added, This is not a debatable issue or one that needs more research. It is well known and well studied but generally ignored. And he noted that when the diet is low in vital minerals, as may often be the case with low-income Head Start kids, the body absorbs much more of the toxic metals from the environment and also from their food.

By the way, there was a child

psychologist from Baltimore here at the last EPA hearing in May who was really fascinating and he offered many specifics on particular pollutants and certain dangerous antisocial behaviors that were directly linked. The head of that EPA panel asked him for his data after he finished, so that should be available to you back home.

And because what happens to the smallest among us thanks to pollution will eventually affect us all and because I now care for seven very special rescued animals, I'd like to also note that one of my vets, an internationally known veterinary homeopath, Dr. Don Hamilton, says the animals he treats today have diseases that they just didn't have 30 years ago when he was in vet school. Thyroid disease is just one example, and he attributes this directly to environmental pollutants.

So thank you for everything you've already done over the years and for anything and everything you can do now and as quickly as possible to require better fuel economy and to reduce vehicle emissions. My brother thinks that if I just stay in our family home long enough cars will eventually be so clean that it won't matter that the Boulevard is

1	the other side of my block. I'd like to live to see
2	this day. But when it comes to those greenhouse gas
3	emissions, no one knows when the tipping point will
4	finally be reached. I'd rather not live to see that
5	day.
6	Thank you.
7	MS. OGE: Thank you.
8	I have to apologize to the panel. I
9	do have to catch a train to go back to D.C.,
10	but my colleagues will stay here. And thank you
11	again for coming and testifying. We really
12	appreciate it.
13	MR. MEDFORD: Myron Schaefer.
14	MS. SCHAEFER: Miriam.
15	MR. MEDFORD: Miriam. Excuse me.
16	MS. SCHAEFER: So there are two of
17	you left, eh?
18	MR. MEDFORD: Three. We're going to
19	be here for the night, so don't worry.
20	
21	MIRIAM SCHAEFER
22	CITIZEN
23	
24	MS. SCHAEFER: So my name is Miriam
25	Schaefer, and I'm a citizen of the Commonwealth of

Pennsylvania.

I watched in horror in the 1990s as our collective love affair with cars, larger and larger cars and less and less fuel efficient cars, hurtled us inevitably to war with its accompanying loss of life of Iraqis and Americans. The adoption of these standards I hope will reduce the need for this kind of war in the future, to say nothing of the cost savings to Americans who depend on automobile transportation for their livelihood.

I am also the chief financial officer for the Chemical Heritage Foundation, which is located in historic Old City Philadelphia. And I have to say, listening to my fellow citizens, it's been great hearing all of us tell you all about the great stuff we have in Philadelphia. So Chemical Heritage Foundation is one of those things. And it's a museum and library that studies the history and impact of the chemical sciences on modern life. I'm not a scientist, but working there for the past 10 years I have been astounded at the transformations that these scientists have created in human life during the last 150 years.

I am old enough to remember when seat belts were going to bankrupt the automobile

industry. I am also old enough to remember when reducing lead was going to bankrupt the automobile industry. And yet, as we know, the creativity of the scientists and engineers in the industry easily adapted to these standards.

I am delighted to see that the automobile industry has worked with you all to create these standards and which demonstrates their confidence in the creativity and ingenuity of their engineers and scientists to reduce our use of finite resources, while, of course, saving normal Americans hundreds of dollars on their basic costs.

I urge you to maintain the proposed standards which underline our faith and the faith of the industry, in our scientists, and which history has shown to be a powerful force for human good.

Thank you.

MR. MEDFORD: Thank you very much.

Jay Butera.

## JAY BUTERA

CITIZEN

MR. BUTERA: Thank you. My name is

Jay Butera from Gladwyne, Pennsylvania, just outside

of Philadelphia. And I'm here to speak with you as a concerned citizen and as a concerned father of four children in the next generation, and as a concerned business owner. I've built and sold three businesses in this state.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

I want to express my support for the regulations that you're considering here today from three basic platforms. One, I'd like to speak with you about national security, about economic security, and about the environmental security.

On national security, we have heard a lot about that today, one statistic really gives me pause. If you look at the BP survey of world oil, which is the bible for how much oil we have left on the planet, you will see that the United States has approximately 2 percent of the world's oil. this is 2 percent of a finite, diminishing resource. To me, that's a scary number, because our military strength depends on this oil, our economic strength depends on this oil, and our way of life depends on it. And here we are with just 2 percent of the world's supply. You take the whole supply, we have maybe 50 or 60 years. Geologists will tell you that's about right. If we take the amount of oil that we have in the United States and had to rely on that for our own supply, it would last four years.

So I wonder how responsible is it that we let our
way of life and our economy cling to that precarious
supply, to this dependence on oil from other
countries? And we are, as you know, importing a
billion dollars of oil a day from countries who are
typically petro-dictatorships.

I recently heard Admiral James
Woolsey, former director of the CIA, say this: If
you want to know who is funding terrorists, look in
your rearview mirror as you drive, because it is the
oil that we are buying to drive these cars that
funds terrorists. So national security will be
improved by the regulation that you're
contemplating.

I'm concerned about. The regulation will create jobs, as you know; it will stimulate development of new exportable technologies; and it will save money for consumers, and what part of that don't we like? Your estimates, the EPA estimates, are that the vehicles created under this regulation will save a consumer \$6,000 and that the cost of the technology to do that will be \$2,000, making a net savings of about \$4,000 per vehicle.

So I look at that and I say, Well, it's saving \$4,000 for the consumer; the \$2,000 that it will cost is actually going into our manufacturing sector. So what you're basically proposing here is the equivalent of a tax cut, a rebate to stimulate consumer spending, and a program to create jobs all wrapped up in the package.

And then I ask, Well, who is funding that? This is -- when you think about who is funding it is the foreign petro-dictators whose oil we will not be buying as a result of this regulation. So this is like a tax cut, but it's better because it's funded by saving money for -- the nation's saving money. That billion dollars that we are taking out of our economy every day and sending abroad will stay here in the United States with our consumers and with the manufacturing sector, and I think that's good.

And now I'd like to talk about environmental security. The threat of climate change and the threat of an unraveling environment is just as serious as any military threat that we face, any threat of terrorism that we face, and we need to take that just as seriously. Climate change -- I feel that any rational, objective person

who looks at the science, who looks at the evidence will understand that climate change is very real, a very serious threat, and it's unfolding right before our eyes. We've got the oceans rising; we've got the tundra melting; we've got feedback loops kicking in right now. Climate change is accelerating.

This is a startling statistic that I recently heard: The United States Naval Research Institute, who studies the oceans for the Navy, they're now projecting that the polar ice cap, the Arctic ice at the North Pole, will be ice free, melted in summer within the next five years. That is not a prediction from an environmental organization. That is the U.S. Navy. Imagine the globe that we have all looked at for all our lives covered with white, now ice free. Last year a ship transited across the Arctic during the summer and that was the first. These are firsts that we don't want to see in our generation. So I take climate change very seriously.

And I'd like to mention that it's not just on behalf of human beings that we need to consider these things. Every living creature on Earth is affected by these changes in climate and affected by pollution. Those polar bears on the

Arctic ice who will have nowhere to go when that ice is gone soon, they can't stop the climate change, but we can, and your rule is a good step toward doing that.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

MR. MEDFORD: Can I ask you to wrap up, Mr. Butera.

MR. BUTERA: Yes. I'd like to just say one thing about pollution. The acceptable level for pollution, for putting toxic gases into our atmosphere, the acceptable level is zero. think we need to reset our mind on that. We cannot tolerate this. It is just irrational and unacceptable to think that we can put poisons into the air and water. So if that's the goal, this is a good step, I applaud it, I think it's bold, but we can't stop here. My goal is transportation with zero consumption of fossil fuels. And if we think that's idealistic, consider this: This year I hope to buy an electric vehicle, I hope to charge it with the solar panels that I have on my roof, so that will be sunlight into the car's batteries equaling transportation. That is truly zero emissions upstream and downstream. It's achievable with today's technologies.

Thank you for considering these

1 comments.

2 MR. MEDFORD: Thank you very much.

3 Steve Harvey.

### STEVE HARVEY

### CITIZEN

I'm a resident of Philadelphia where I work as a lawyer. I ride my bike back and forth to work every day except in the most extreme weather, when I usually stay home. My wife and I have two children, ages seven and eight. It's largely for the benefit of my children and future generations that I testify today.

It seems to me inescapably true that the population on this planet is growing, more and more people here in the United States and throughout the world are driving cars, and the use of oil and its byproduct gasoline to fuel our cars and trucks is creating long-term, serious problems for our environment. At the same time we have serious economic and security issues related to the use of oil, as the worldwide demand for oil increases.

In short, we have a bundle of very

serious problems related to our use of oil. Doing nothing is not an option. We have to address these issues. If we don't address these issues, in not very many years we will experience very negative effects on our physical health, our economy, and our national security. If we don't address these issues, I fear that the children of today, as well as future generations, will not look back on our generation with the same fondness that we look back on prior generations. If we don't address these issues, no one will call us "The Greatest Generation."

The good news, the very hopeful news, is that as a society we are beginning to address the challenges we face, including thinking of ways to decrease the amount of oil we use. And I for one am very grateful that the U.S. EPA is leading the way with its many initiatives and efforts, including with the National Highway Traffic Safety

Administration the proposed increase in the fuel efficiency standards for cars and light trucks in model years 2017 to 2025 that brings us here today.

I have spoken to many people about the proposed fuel efficiency standards: to family, to friends, to colleagues, and neighbors. The

reaction of everyone I have spoken to about this can be summed up in the words of a woman I met in an exercise class this morning: It seems like a no-brainer, she said. That's exactly what this proposal for increased fuel efficiency is, a no-brainer.

I know that the EPA and NHTSA can't just call something a no-brainer and make it law, so I appreciate and thank you for holding this hearing and for the very thoughtful way you approach that subject. I sincerely hope that EPA and NHTSA will take this very important step towards decreasing our dependence on oil for the benefit of our children and future generations. And maybe, just maybe, if we take this step and some other similarly prudent and wise steps, those future generations will admire us for thinking ahead and taking prudent action to protect ourselves, our planet, and our way of life by decreasing our dependence on oil.

Let me close by thanking you for your attention and let me thank the other panelists. I take real hope knowing that there are so many compelling spokespersons on this issue. This is our generation's time to stand and face the greatest threat of our time.

1	MR. MEDFORD: Thank you.
2	Meryl Wasilewski.
3	
4	MERYL WASILEWSKI
5	CITIZEN
6	
7	MS. WASILEWSKI: Hello. I was so
8	afraid I was going to knock over the water. I'm
9	terrible at public speaking, so I'm going to
LO	precurse with that. I ran away from here for a
L1	little bit I was here this morning because I
L2	just couldn't come up here. So it's not that bad
L3	now. I'm kind of glad that there is three of you up
L <b>4</b>	there, so it's a good thing for me.
L5	MR. MEDFORD: We're friends. Don't
L6	worry. Think of us as some of your family. You're
L7	talking to family.
L8	MS. WASILEWSKI: My name is Meryl Ann
L9	Wasilewski. I'm an environmental science major at
20	RVCC. You know, it's a pleasure to be here today to
21	listen to everyone. I feel for everyone and what
22	they said, and I can relate, of course, and so can
23	you guys.
24	I came here from New Jersey to
25	address the imbalance that's been taking place in

our environment, in our world, in our politics and our economy and everything, but -- so, we obviously have a problem with our use of fossil fuels, and it's resulted in serious health problems, depletion of our natural resources, probably permanent damage to our planet's environmental atmosphere completely and permanently. So our need for fossil fuels has further complicated our issues with other nations on top of that that we already had underlying disagreements with. So now we're plunged into economic crisis and we struggle to pay for gasoline as well as our medical bills, personal experience with my family.

so all of this we know is directly caused by our actions, not just fossil fuels, other things, lots of other things. So we should ask, Is there a better way? That should be something we're always striving to get. And I feel that we are not using the best methods of fuel at all, even though we have the advancements and the capabilities to harness them. You know, I understand the forum is not a debate or a session for or against the use of oil, period, but I personally just don't condone it. I know that there are better ways. It's still going to take steps and ways to get there, so I won't

pretend I know everything that I'm talking about.

I'm still a student. Did I mention that?

2

3

13

14

15

16

17

18

19

20

21

22

23

24

25

do to change that?

MR. MEDFORD: Yes, you did.

4 MS. WASILEWSKI: So basically from a logical and professional point of view, 5 6 sustainability, you have to meet the needs of 7 environmental, social, and economic issues. So you have to make everyone happy. And personally I feel 8 9 that social and economic issues have been primary 10 for about a hundred years. So the environmental 11 issues or meeting those needs were kept on the back 12 burner for a hundred years. So what are we going to

I mean, why were automobiles invented to begin with? It's because we wanted to know the best way to get from point A to point B, and our environment and our society and our civilization was speeding up and we also needed a faster way to get from point A to point B. So now that we recognize the harms that our fuel has done to our environment, I think it's safe to say it's not the best way to get from point A to point B anymore.

I support your initiative to raise the fuel efficiency standard to 54 point something miles per gallon. But I believe it will just -- it

should just be the start of what we need to fix what we've done. And when I say "we," I just mean humans, history sort of thing, so don't be offended.

But I just want to point out, I'm going to make this quick because I know you guys are tired, but this whole Earth is our habitat, and I'm sure you know, I'm sure that everyone watches the Science Channel and National Geographic and all those good shows, but our planet has a very strict criteria to allow life at all, so that's extremely significant, extremely important. It made our existence possible. So we can also owe our achieved intelligence and our ability to be as technologically advanced as we are today to having a stable-enough environment to allow that to occur. So I think we owe it to our planet to better ourselves and better everything.

And I know people get discouraged like I did before I started speaking today that I'm only one person, how could I ever make a difference, and I felt like everyone has already said what I could say so far. So I just want to say one thing to you guys, because I'm honored to be in front of the EPA and I learn all about it and I follow everything, every action that you guys make and I

support you 100 percent, but I'm begging you please don't let it stop here, you know. I think that's great, 54 point something miles per gallon, it's going to make a lot of difference, but there is much more that we need to change.

everything you can to do that, and I'm sure you have obstacles as well in your way. It must be really hard to sit in a forum like this all day and hear -- I mean, I don't know, I missed most of it because I ran away, but I'm sure a lot -- I don't know if anybody gets up and is angry or anything like that, but I know that's not the case. As individuals I'm sure you guys care about the same exact things that everyone does here, so I thank you for that and I just want to remind you that we don't have the same amount of time to make a difference as we did to get to this point. We don't have that much time.

Okay. So thank you for letting me speak.

MR. MEDFORD: Thank you. And thank you for coming back. And the truth is that, you know, we all -- at least some of these guys work in Ann Arbor, most of us work in Washington, and it's really refreshing to get out in the country and to

hear people who have thoughtful things to say and have real data and knowledge about what we're doing to sort of give us some affirmation that we're all on the right path. So we really appreciate you taking your time and having very thoughtful comments, so thank you very much.

Now we're ready to move to Panel 12.

Mr. Colgan-Davis, Arreta Keefer, Jim

Black, Carol Weinbaum, William Kramer, Andrew Blum,

Kathy Wich (sic), Jonathan Katz, and Andrea Farally

(sic).

# JOHN COLGAN-DAVIS

## CITIZEN

MR. COLGAN-DAVIS: Hi, my name is
John Colgan-Davis, and I want to thank you for being
here. I love the fact that you have the
opportunity, as you just talked about, to hear from
people, actual people, who actually deal with the
consequences of what the EPA does or doesn't do and
who actually have an on-the-ground type of reality
to talk about. I want to thank everybody who I've
heard here. I've heard some incredible things,
both, you know, people's experiences and also about

some of the science and some of the facts and numbers.

And I'm here in three capacities.

One, I'm a history teacher. I teach seventh and eighth grade history. I'm a bird-watcher. I spend a lot of time birding and hiking and all that. And I am also a citizen, and I appreciate the fact that I get a chance to talk to my government. And I know it's corny, but there aren't too many places around the world where I can -- you know, a citizen can just get up and talk to a government agency and know that I'll get up tomorrow in my home, you know. And I do not want to underplay that. I do not want to underplay that because that's very important.

As a history teacher, one of the things I teach is ancient history, and one of the things we study is civilizations, and I make a couple of general statements. One general statement that I make is that every civilization ever, whether you're talking about Ancient Sumer, Rome, whatever, or the United States of America in the 21st century, civilization is not an environmentally friendly way of living. And we looked at how in the Indus Valley the Sumer was overdrawn. The crops weren't rotated, the ground wasn't replenished, and as a result Sumer

had a problem. We look at how Ancient Rome got dependent on things that came from outside its borders, gems and spices and things from Asia, medicine, people from Africa and other places, and that when those things came in shorter supply, Rome got involved in more and more wars to get access to those resources. And then I try to allow the kids to make the connections and say, Oh, gee, sounds like oil. And that's a very serious thing to me.

One of the things I love about being alive at this point in time is that we have a capacity that not a lot of other civilizations, as I look through it, have had in history. We have the capacity to see where we're headed. Think about that for a second. In Ancient Rome they didn't necessarily know what was going to happen. In Ancient Sumer they didn't know, you know, if I get this resource and I become addicted to it, at some point in time it's going to come out -- it's going to run out and I'm going to have to fight someone. They couldn't necessarily think all that through. We have that ability. So it's a wonderful opportunity for us to think largely about what we want to do to our world.

And to me, all the arguments that

I've spent time looking at, people who are against a lot of the regulations, I've read arguments for the regulations, and the regulations made perfect sense to me. There is no way using less fuel hurts the United States. I mean, I haven't seen anything logically presented that says energy efficiency will hurt the United States, whether economically or otherwise. I'm also the son of someone who was a union member. And I think that it would give the opportunity for new innovation and technology and stuff and bring jobs back here.

American auto industry was holding steady with this 20.7 per gallon, whatever, other countries had auto companies that were innovating and looking for efficiency and we lost a lot of auto share to Toyota and to Honda. Well, gee, what companies across the board have the best fuel efficiency? So there is that point.

Second point, I'm a birder. I spend a lot of time in woods when I can. I like to get up to mountains, around lakes, and all that type of thing. And one of the things that I've noticed and the whole birding world has noticed over the past 25 years is the decline in habitat for species.

Numbers of things that when I started birding in 1972, when I looked in my, you know, field guide, it said common in this area. Now, if I get a modern field guide, it's uncommon or rare. A lot of that has to do with a lot of what we are building and stuff, and what's fueled a lot of that overbuilding is the automobile.

And I think that we need to look at a broader sense of what the effect is of the size of our footprint, and we have a huge footprint. We have an incredibly huge footprint on the planet, and I'm concerned about that.

Finally, the thing that drives me here is -- and I was glad to hear the people with the personal talking about it. I'm an African-American. There are tons of health problems in the African-American community, and a lot of them can be tied directly to problems with pollutants, emissions, and that type of thing, and it's almost never talked about. I was so happy to hear several people talk about it. I'm not going to go into any details about it because we have a lot of people here, but I just want to state that that has to be part of the record. This stuff affects people.

What we do as a country, as a society, as a culture

affects real, live people, not aggregate groups, not statistical norms, people.

Thank you.

MR. MEDFORD: Thank you very much.

Just wanted to -- if you hear a sound, that sound

like a doorbell, that means your time is up.

Ms. Keefer.

### ARRETTA KEEFER

#### CITIZEN

MS. KEEFER: Good evening. I'm here in spite of the fact that on Tuesday I happened to break a toe and wasn't able to walk. But I was very determined to be here and have my say and thank all of you with the EPA for doing your job to help protect us from what's been going on.

When I was young, when my three sisters and I were growing up in Philadelphia, we were very fortunate to have parents who cared about the environment and taught us to appreciate and respect every living creature on Earth and everything of natural beauty. They used to pile the family into the old, yellow Ford station wagon and away we flied to parks and nature trails throughout

Pennsylvania and New Jersey, every weekend. The values that they taught us have remained in our lives throughout our lives. I remember that old Ford V8 engine got up to 15 miles per gallon. Wow. And away we went. And even the gas was like 26 cents a gallon. We thought we were doing great.

Today, thanks to efficient engines and greater automotive technologies, there are automanufacturers available who are offering several models that can, if you would believe the hype in their advertising campaigns, they can get up to 40 miles per gallon and over, and it's remarkable. However, fuel costs have risen to an all-time high. An action resulting in millions of drivers throughout the world having to forego the vacations and the little trips that they took with their families, as we did when we were young, because of the cost and the rising cost of fuel.

It isn't only the continual price gouging of oil that should concern each of us here, it's what all of the emissions of all of those vehicles all those years all over the world has done to our atmosphere, our ozone. That should really concern every one of us.

I myself grew up with chronic

bronchitis. I lost a mother to emphysema, my father and my grandmother died of cancer, and I have another sister who died of diabetes, and one who also has diabetes today. That's not by accident.

And we were very careful.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

A few short years ago in 2006, in spite of the skepticism against his views, Vice President Al Gore wrote a book and turned it into a award-winning documentary titled "An Inconvenient Truth, " for which he won the Nobel Peace Prize the following year, 2007. Until that film forced everyone to take a long, hard look at the overwhelming facts, the majority of the world's population was still in denial. They simply wouldn't believe that they, we, were responsible for the drastic results from all of the pollution we had created within the past century, whether that was the industrial waste and toxic emissions released into the atmosphere or lakes and oceans, the massive expulsion of diesel- and gas-propelled vehicles throughout the world, or the mindless destruction of natural habitat in favor of building more and more homes and businesses without regard for the land or the protection and preservation of ecological balance. We were all to blame.

While we can never hope to undo that which has been done, there still remains hope for our planet's future. We cannot now afford to not get involved personally because we don't have a choice if you want to preserve our planet for future generations to enjoy.

On December 2, 1970 the EPA was created to consolidate in one agency a variety of federal research, monitoring, standard setting, and enforcement activities to ensure environmental protection. Since its inception, the EPA has been working tirelessly for a cleaner, healthier environment for the American people. We need to show the EPA that we demand cleaner and greener transportation, as well as creation and enforcement of laws protecting our woodlands, parks, wilderness, and every creature that inhabits them.

I'm sadly aware that there is great apathy among the masses who have lost faith in the power of the people. They believe that their vote does not count, that no one person can change the world. They've forgotten about men like Washington, Lincoln, Martin Luther King, and, yes, Al Gore. To these people I would like to leave a visual image to remind them.

1 Imagine if you would a bucket of 2 water in your yard. Imagine a single raindrop 3 hitting that water. And what happens? You see from 4 that single drop circles radiating from that center, from the source, each one bigger than the next until 5 6 it stops only when it reached the bucket itself. 7 Imagine an ocean being bombarded not by one drop of rain, but an entire rainstorm. 8 The result is 9 exactly the same as what happens in that bucket, but 10 the impact becomes infinite. 11 This is what happens when we all 12 believe in and support a common goal or action. In 13 this case, we are all here to tell the EPA that we 14 are counting upon it to protect our future by 15 enforcing the automobile manufacturers' stronger, 16 more-accountable program for a cleaner, greener 17 transportation. 18 And thank you for allowing me to have 19 my say. 20 MR. MEDFORD: Thank you very much. 21 Mr. Black. 22 23 JIM BLACK 24 CITIZEN 25

MR. BLACK: Yes. Thank you. My name is Jim Black, and I'm the founder of the Partnership for Sustainability. We are a Delaware-based environmental organization. And I'm going to forget the notes that I wrote here because other people have covered everything I was going to say much more eloquently.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

But what I'd like to offer is I have a friend who works for one of the two refineries that are left in the Delaware Valley that's still scheduled to stay open. He's an environmental engineer there. And one of the things that he always tells groups that I find is illuminating is he always asks, What industry did the oil industry put out of business? And the answer is the whaling industry. The whaling industry didn't collapse because they ran out of whales, though they were getting close to doing that. It ended because petroleum could produce the lubricants and the fuels that we needed much more cheaply. And the reason why I'm bringing this up is the rule that you're proposing is going to drive exactly the kind of innovation that we need to find what is the next industry to replace the oil industry. So with that, I'll help us to catch up on our time.

1 Thank you.

2 MR. MEDFORD: Thank you very much.

Ms. Weinbaum.

## CAROL WEINBAUM

#### CITIZEN

MS. WEINBAUM: Hi, I'm Carol Weinbaum speaking as a citizen of Philadelphia, and thank you for coming. Thank you for coming to a Center City location which we could access by public transportation.

Speaking as a concerned citizen of our city, I'm someone who is a joiner of groups, the Sierra Club and the League of Women Voters being among my favorites. I support actions and legislation based not in self-interests nor in economic gain, but in benefit to all Americans. Your efforts on behalf of reducing the use of automobile fuel and stressing the value of its economies are much appreciated. It is my belief that too many of us use too much gas, spend too much time in our cars, think too little about the consequences of these actions. And if we do not voluntarily reduce the usage, then we must have

governmental regulation, this legislative action, to enforce the value of such reduction.

The League of Women Voters last July studied the effect of gasoline emissions and other pollutants on air quality and we issued a Clean Air Promise. I won't read it right now, but I have it here for you of record. We must promise to clean up the air however we can. We indicate that good health of all citizens is impacted by poor air quality and we know that emissions of motor vehicles are responsible for a hefty portion of that unhealthy air. Efforts must be made now and in the future to reduce those bad effects.

I've also got a publication from the AARP. It indicates many ways in which auto travel is costly. Last year the AARP finds households spent \$3,235 on gas, which was \$700 more than in 2010. In a time of tight budgets, low interest on savings, and so many home mortgage foreclosures, don't we wish that expenditure would be going down instead of up? Shouldn't the current high price of a gallon of gas be motivation enough to buy more economical vehicles? Shouldn't we discourage the purchase of large vehicles, such as minivans, crossovers, and trucks, which guzzle gas even though

we make the proposed goals for economy?

Licensing fees on large cars and trucks ought to be significantly high so that potential owners would balance their real need for such cars with the cost of ownership. Perhaps the price of gas alone doesn't do it. Most drivers commute alone in a car every day.

We could also discuss the use of large amounts of gasoline as the balance of payment issue. Let's not forget, much of the fuel comes from other countries. The top five, according to my sources, are Canada, Saudi Arabia, Mexico,

Venezuela, and Nigeria. Is it wise for us to continue to let dollars flow out to those countries? Some of them have political systems we do not support with our words, but we do so with our wealth.

All the concerns I express are those of me, an ordinary citizen. I have no expertise in chemistry. I don't understand hydrofluorocarbons or CO2 emissions or scientifically measuring air quality, nor do I know much about the issues of climate change, ozone layer depletion, or the harm to future generations if we leave these matters unchecked. I leave those matters to you, to the

experts in our government, to agencies to whom we entrust our decision making on matters too difficult for all of us to fully comprehend. Please note there are many Philadelphians who did not come here today who are likewise concerned and whose health and economic well-being is tied up in these issues.

Thank you for listening.

MR. MEDFORD: Thank you very much.

Mr. Kramer.

### WILLIAM KRAMER

#### SIERRA CLUB

MR. KRAMER: Good evening. My name is William Kramer, and I'm an organizer with the Sierra Club here in Philadelphia. And just like everybody else has told their personal story, I don't drive very much and I mostly take the train. My wife and I share one car, mainly because we have a five-year-old son. And, actually, I hate cars. I lived in Los Angeles and really learned to hate cars, so my wife does all the driving.

A lot of you have heard today about a lot of facts and figures about why it's important to mandate higher fuel efficiency standards, so I'm not

going to dwell on data. For me, climate change is a very personal issue for three reasons. For one, I speak as a father of a five-year-old named Noah, and if you read the bible, you know what Noah's job was back then. So when I read about global warming predictions explaining extreme weather, floods, drought, wars, and food fights that are anticipated in 2035 and 2050, I do the math and realize that my son will be 29 and 44 years old during those time periods. His generation will suffer the bulk of the consequences of our failure to act today.

I also speak as an internationalist.

I think that perspective hasn't been brought up enough today. We Americans have responsibility to other parts of the world, too, as the largest climate emitter historically.

Before coming to the Sierra Club, I also worked with peasant farmers. And if you don't know who they are, they are about 40 to 50 percent of the world's population from around the world. These include people from Africa, Bangladesh, Bolivia, Guatemala, India, and Mexico, and in some of these countries 70 to 80 percent of their population are peasant farmers. Climate science tells us people from these countries, and especially

the rural communities, will be most affected by climate change. Some of these people are my friends based on working with them for years, and I feel compelled to act in support of their struggles.

Finally, I also recognize that addressing climate change means creating jobs for the unemployed and working people in the United States, the 99 percent. In short, those who have the most to lose from climate change in our country, the poor and working people, have the most to gain from the creation of green jobs.

in a period of profound and potentially catastrophic warming. However, they also tell us that if we act together globally, but particularly industrialized nations like the United States with its historical role of producing greenhouse gas emissions, we may be able to stave off the worst of these changes. We have the technology and the manufacturing capabilities to dramatically reduce our carbon emissions. What has been lacking until recently has been the political will.

The climate talks in Durban were a big disappointment, especially the poor countries in Africa and other developing countries in island

nations, but also to environmental groups and many others in the United States. The fact that the EPA is holding this hearing and so many people are here in Philadelphia coming out to support this standard represents for me the hope that we really can do what it takes to protect our planet before it's too late.

Thank you for your time.

MR. MEDFORD: Thank you very much.

Mr. Blum.

#### ANDREW BLUM

# CONSERVATION PENNSYLVANIA

MR. BLUM: My name is Andrew Blum.

I'm here on behalf of Conservation Pennsylvania.

And I think one of the things that gets overlooked is just the current state of fuel efficiency and how much that impacts social mobility in the world. So I have a -- I'm going to try to convert what is an image into statistics for you.

So I think this basically -- and I'm going to go over this very briefly -- this takes the assumption that your one-way commute is about 19 miles in mixed hot traffic. The IRS would estimate

the total cost of driving to be about 51 cents per mile. We would estimate that your 19-mile commute would take about 40 minutes each way. So let's see what happens when we multiply those numbers over 10 years.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

So 38 miles per day times 50 cents a gallon, \$19 a day direct driving and car ownership So if you drove your car to lunch, make it an even 20. If you're in your car 80 minutes every day, I think a lot of people who have to get to jobs are, that's the equivalent amount of time the average person drives. So the dual-commuting household at \$19 a day times 10 years times two vehicles, the two people that live in that house, costs roughly \$125,000, and that's over 10 years. Eighty minutes per day over 10 years is the equivalent of 1.6 working years. That's over 10 years you're going to spend that much time commuting. Most 30-year-old couples today 10 years into adulthood don't even have \$125,000 in net worth, and they probably drive around quite a bit in expensive financed cars mostly as a part of a self-imposed commute.

These facts are directly related. If you take 80 minutes per day times 10 years, it's 1.6

work years in revenue you're losing. Eighty minutes a day times 6 hours and 40 minutes a week, almost another full day. Times 50 weeks, 330 hours and 20 minutes. That's the essential of eight weeks.

Multiply that by 10 years, 333,000 hours and 20 minutes. That's the equivalent of eight work months over 10 years.

So some people would say, Well, I drive a Prius. Buy the right car for \$5,000 you might be able to squeeze \$100,000 out of it with no major repairs in the case the car depreciation is 5 cents a mile. Car depreciation at 5 cents a mile, gas at 3.50 a gallon at 35 miles per gallon, which I think is a very liberal estimation, equals about 10 cents a mile. Your tires are going to be about .6 cents a mile and oil is going to be about half a cent a mile; miscellaneous maintenance will be \$200 for every 20 miles.

The ultimate driving in a paid-off economy car is 17 cents a mile plus insurance.

Let's split the difference and say you don't have a hybrid but you have a standard car. Assuming the cost of driving is 34 cents a mile and your salary is \$25 an hour, which is, again, very nice if you can get that these days, a mile commute at each

distance each way, 500 miles a year is going to cost you \$170. Six minutes, which is a three-minute drive each way, 25 hours per year is going to cost you \$625. If you add these two numbers together, then you find that each mile you live from work costs you about \$800 in commuting expenses per year.

Now, if we take that \$795 per year, that pays the interest on a \$16,000 home at 5 percent interest rate. The amount extra you could afford to spend on work that's 30 miles closer to your home over the course of 10 years is almost \$500,000. So essentially it's the equivalent, if you live 30 miles closer to home, of owning a \$16,000 house and half-a-million-dollar house. For a double-commuting couple, these numbers are a \$31,800 house and almost a million-dollar house.

Adapting the numbers for minimum wage, if you make 7.50 an hour, that makes the mile of car commuting to \$1.90 for your workday, and if you drive 10 miles to a five-hour work shift, your effective hourly wage if you were already making minimum wage after subtracting car costs and adding drive time is \$5.32.

And I think if you look at some of these numbers and you look at the social mobility

that a car gives you in getting a job and developing, you know, your career, all environmental issues aside, which, of course, I'm very passionate about, I'm a field director for an environmental organization, just from the fiscal side you can tell this is damaging social mobility and really making it harder for people who want to break through to get the kind of job that they can afford and the house that they want.

MR. MEDFORD: Thank you very much. Katy Wich.

# KATY WICH

### CITIZEN

MS. WICH: Thank you so much for having me here today. I'm also a concerned citizen. I live here in Philadelphia, but I actually grew up in the countryside, so I'm a part of the population who doesn't necessarily -- or was part of the population that didn't necessarily have a choice but to have a car. And so I see the adoption of new global warming and fuel efficiency standards for cars and light trucks to be a win-win situation for someone like me.

So, first of all, I actually love to drive. It's very strange. I grew up in the countryside and we had no choice but to drive to get places, and my car was my social lifeline and my means to get to work. But overall I also just love driving. You put me on the open road, I love to cruise down, or any curvy, woodsy lane I feel right at home.

On the other hand, I love to walk and hike through the great outdoors, and I spent many years hiking in Pennsylvania and New Hampshire and in all types of seasons. But now that I live in Philadelphia and I don't need my car for my social life or to get to work, I will actually walk everywhere, and I couldn't be happier because I do understand that driving has a huge impact on the environment.

so I'm thinking with the tighter fuel efficiency standards and global warming rules these two loves of mine will be even better, because I am actually very concerned about what's going on. So while I walk around this city in rain or shine, hot and cold, I'm constantly thinking about the amount of fuel drivers are wasting as they whiz past me from stop sign to stop sign. I also think about how

our dependency on and overuse of oil and all that it takes to process it, like the oil that's extracted from the tar sands in Canada, how it's impacting our climate. I don't want my winter hikes in New Hampshire to feel like my winter hikes in Pennsylvania or my winter hikes in Pennsylvania to feel like my winter hikes in South Carolina.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

So I wholeheartedly support the new fuel efficiency and global warming rules as part of an overall effort to combat global climate change. And even though I don't need a car for everyday activities, I actually still have one, and it's on its very last leq. It's a 1996 and it's got almost 200,000 miles. It's done well, but it's about to go. One of my top concerns right now is fuel economy, but like many people, I can't actually afford a hybrid or an electric car. So right now I'm going to have to settle for a good used car, probably a Japanese model, for about 35 miles per gallon. But in the future years with these changes I will actually be able to afford a new car and maybe it won't be a hybrid or electric either, but a new car that gets 45 to 50 miles per gallon.

What I like about these standards is they aren't just about smaller cars, hybrids, and

1	electrics, but they are really putting average
2	Americans like me closer to the chance of having a
3	car with great fuel economy for not exorbitant
4	prices. Who knows, in about five years I could have
5	two kids and a dog and I'll need a bigger car, but
6	that will probably just be a sedan, and I'll
7	definitely appreciate the money that I'm saving in
8	gas, and that money will probably go right back into
9	the economy, because again, people, average
LO	Americans, once we get it back in our pockets, we
L1	are spending it.
L2	So I just wanted to thank you for
L3	your time.
L <b>4</b>	MR. MEDFORD: Thank you.
L5	MS. WICH: Thank you for coming up
L6	here or out here.
L7	MR. MEDFORD: Thank you very much.
L8	Mr. Katz.
L9	
20	JONATHAN KATZ
21	CITIZEN
22	
23	MR. KATZ: I'd like to thank you for
24	the opportunity to speak today. My name is Jonathan
25	Katz. I'm a physician and researcher at the

University of Pennsylvania. I'm a Philadelphia resident and the father of two girls, Alison, age eight, and Rachel, age five, soon to be six.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Improving fuel efficiency standards is not something we should do, it's something we must do, and I applaud you for this program.

I'd like to also give you a parallel from my line of work. In 1990 the U.S. Department of Energy and the National Institutes of Health began an effort to sequence the complete human genome. The Human Genome Project took 13 years at a cost of nearly \$3 billion. This project has been widely hailed as a success, and it's clear that it will benefit biological research in human health for years to come. So as I said, think about those figures, 13 years, which was actually two years early, and \$3 billion. Now, two California companies, Illumina and Life Technology, have built machines that will sequence an entire human genome in a day at a cost of \$1,000. So we've gone from 1990 at the start of this program to now and have been able to cut that cost in that time.

To say that U.S. automakers can't make dramatic improvements in fuel efficiency standards is to insult their American ingenuity.

1 The effects of these changes for fuel efficiency, 2 like the Human Genome Project, will benefit human 3 health and our children's health for years to come. 4 Thank you. 5 MR. MEDFORD: Thank you. And last I -- I know we have the 6 7 spelling wrong, so I'm stretching my eyes to see. Is it Finally or --8 9 MS. FARALLY: Farally. 10 MR. MEDFORD: Farally. Thank you. 11 12 ARDRA FARALLY 13 CITIZEN 14 15 MS. FARALLY: My name is Ardra 16 Farally and good evening. Thank you for taking time 17 out of your busy schedule to listen to us go on about our personal lives. I'm sure you've had a 18 19 very long day, so I will attempt to keep this brief. 20 I actually just marked off about three paragraphs of 21 what I was going to say, so if you'd like to read 22 it, everybody has a copy. I have the immense privilege of not 23 24 only visiting all 48 continental states but also to

live in six of them. In chronological order it's

25

Washington state, Alabama, Wisconsin, where I received my bachelor's in chemistry, Kentucky, Tennessee, and finally Pennsylvania, where I met my husband, earned my master's degree in chemistry from Temple, and started a family. One thing I've learned from living all over the country is that while each region has its own personality, people are fundamentally the same: We all work hard, love good food, are always looking to save a few dollars, and, most importantly, love our country and want it to be the best.

falling behind the rest of the world in major factors such as education, health care, income equality, and the topic of this hearing, green energy. I applaud the current efforts of the Obama Administration, as well as the hard work and dedication of the auto industry, their unions, the environmental advocates to draft this very important legislation. But the battle has been going on for much longer than that. Back in 1979, when president Jimmy Carter brazenly had solar panels installed on the White House, encouraged people to wear a sweater, and turn down the heat, it was a huge push forward by a country that was accustomed to being

first. At the dedication ceremony he said, "A generation from now, this solar heater can either be a curiosity, a museum piece, an example of a road not taken or it can be a small part of one of the greatest and most exciting adventures ever undertaken by the American people."

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Yet instead of praise, one would have thought that he was King Louis XVI suggesting that the starving Frenchmen eat potatoes. Didn't he know that they were poison? So too were the American people aghast at the suggestion that we give up our right to turn up the heat and use as much energy as we pleased. To that end, President Carter lost his re-election campaign and President Reagan promptly ripped out the solar panels and reinstalled the oil America continued its love affair with tanks. fossil fuels and a school in Maine received some lovely, gently used solar panels that were used until 2005. I am ashamed to say that the former part of his prediction has come true. The solar panels now are in museums in D.C., Virginia, and China. It became the road not traveled.

Despite President Carter's failure to sell the American people on green energy, this incident shows how important the conviction of the

Commander in Chief can be. While solar, wind, and other forms of green technology have certainly come a long way since 1979, they still seem to be losing the battle with oil, natural gas, and coal. A recent study performed by the Yale Project on Climate Change found that while 63 percent of adults believe that climate change is real, only 54 percent of teens agreed. That means that we're doing a poor job of convincing the next generation that which scientists know to be true; climate change is real and the burning of fossil fuels is a contributing factor. Dr. Neil deGrasse Tyson recently put it best when he said, "The good thing about science is that it's true whether or not you believe in it." Unfortunately, scientists are notoriously lousy salesmen.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

uphill battle selling this regulation. But, being an eternal optimist, I have hope. The U.S. military has started using portable solar panels in theater to help power generators and communications. The Navy has promised to utilize non-fossil fuels for 50 percent of their power by 2020. Since the Pentagon is the country's largest consumer of fossil fuels, this move towards green energy should

stabilize the energy -- the industry and help move it forward. Although the military insists that it is a dollars and cents issue, the positive impact on the environment is just a bonus. Either way, it's another huge win for green technology.

The mantra that we keep hearing from Big Oil and the auto industry is that the high gas prices and increased vehicle prices are mostly due to the EPA and other government regulations; that more regulations will simply continue to increase costs that they will pass on to the consumer. But the solution isn't to reduce those regulations, but to encourage more fuel efficient cars, more fuel efficient roads, update our infrastructure and invest in public transportation. This isn't just about me and my family saving a few dollars, but it's about all of us progressing as a nation and continuing to make this country and this world a better place to live.

I do not envy the effort that you will require to convince the public that this is the right path, but you have my full and enthusiastic support. I hope that President Obama and his administration continue to lead by example and work for a better future for all of us, not just those

with an oil well. I dream about what the country would be like if we had continued on the path that Present Carter began. I like to think that we'd be closer to the cars promised to us by Back to the Future, a flying DeLorean that runs on garbage.

Thank you for your time.

MR. MEDFORD: Thank you. Thank each of you. Thank you very much.

We are ready for the next panel.

Charlotte Glauser, Marja Kaisla,

David Henderson, Cathie Forman, John Comella,

Lynnette Saunders, Beatrice Santorini, Mary Alice

Cicerale, Diane Pugh, Larry Arrigale.

## LARRY ARRIGALE

(READING TESTIMONY OF REV. DOUGLAS B. HUNT)

MR. ARRIGALE: Good evening. My name is Larry Arrigale and I'm reading the testimony of Reverend Douglas B. Hunt, board member of Pennsylvania Interfaith Power & Light. Reverend Hunt is out of town on a family emergency. The remarks I'll read have been edited for length, but I'm submitting paper copies of Reverend Hunt's full testimony. His words follow:

"I endorse this proposal because my faith traditions tell me that doing justice for people and our planet is our moral obligation, and people are already suffering the first effects of climate change. I have two granddaughters whose future I want to be in a world as beautiful, bountiful, and hospitable as the one passed to me.

"The majority of the world's scientists tell us human-caused global climate change is unquestionable and that there -- and that we no longer have decades to act. We must act now.

"In 2008 Pennsylvania made cataloging the level of greenhouse gas emissions a legal requirement. Unfortunately, no requirements for reducing the use of fossil fuels or emission of GHGs has followed, and Pennsylvania is the third-worst state for global warming pollution.

"This proposed rule should reduce greenhouse gas emissions by 10 percent. I urge we modify the rule to bring it into effect sooner than 2017. The technology to make these changes already exists.

"In 2009 climate change has already seriously affected hundreds of millions of people globally and were killing at least 300,000 per year.

1	In the next 20 years those affected will likely more
2	than double. It is a moral outrage that we have the
3	means, the technology, and the resources but have
4	not chosen to take the strong and necessary actions.
5	People of all faiths must prayerfully make changes
6	in our own lives to slow climate change and the
7	growing desperation of so many around the world.
8	But prayers and individual actions are not enough.
9	We need strong and effective policies and laws.
10	"This proposal is a step in that
11	direction that I wholeheartedly endorse."
12	Thank you.
13	MR. MEDFORD: Thank you.
14	Now we can begin down at the far end,
15	and if you'd state your name and affiliation.
16	
17	CHARLOTTE GLAUSER
18	CITIZEN
19	
20	MS. GLAUSER: My name is Charlotte
21	Glauser, and I live in Philadelphia, two blocks from
22	here. I want to applaud the issue of requiring
23	higher mileage for cars in the next few years, but
24	it should be sooner rather than later. Although I
25	am a member of organizations that are concerned

about energy usage and climate change, I'm here to speak for myself.

Raising the mileage standards for cars is truly a no-brainer. In fact, I'm surprised that only one person mentioned that. The advertised standards today are mostly a sad joke. My 1999 Subaru did better than most vehicles. I was getting occasionally 36 miles to the gallon on the road, and I drove many miles in that car. I no longer own that car or any other car. I gave my car to my grandson about four years ago and he is still using it.

Living in Center City just a few blocks from here, I am a pedestrian most of the time and use public buses, subway, and suburban trains. Walking in the city is more than a pastime. There are places to go and cultural events to enjoy.

Conservation is more than a virtue. Higher mileage requirements on cars will save money for the driver, since fuel is a major expense. It will save our diminishing oil reserves. It may result in more limited driving in general, especially if there are alternative means of transportation, like we have in Philadelphia.

The federal government subsidizes the

highways traveled and the least the government can do is try to conserve the energy used to get cars on those roads, to raise minimum standards for efficiency of the vehicles using it.

There is an added cost to achieving -- if there is an added cost, and there is, to getting more efficient use of the fuel, it should be a huge saving in operation in the long term, and several of the people who spoke here had pointed that out. The -- another benefit of higher mileage standards is better air quality, especially in crowded cities, such as Philadelphia. Any means of curtailing car use would result in more breathable air.

We are blessed with an excellent public transportation system in the Philadelphia region. I keep hoping that more people who work in the city will avail themselves of it and not drive into the city. With gas prices higher now and parking costs rising as well, our SEPTA system has now increased its patronage, and I think that's great. For those who cannot access public transportation, increased mileage standards will certainly be a benefit. I don't know if it's likely to happen, but a higher tax on gas with the revenue

devoted to public transportation would be a big
plus. In most developed countries the railroads are
well subsidized so that long drives between cities
are unnecessary. The high cost of gasoline is
another disincentive to driving any distance. I
keep hoping that there will be better subsidies to
all kinds of transportation, but I particularly like
the railroads.

The technology for higher efficiency has been available for some years now. It's long since time to require enforcement by regulation.

Thank you.

MR. MEDFORD: Thank you very much.
Okay. Next speaker, please.

## LYNNETTE SAUNDERS

## CITIZEN

MS. SAUNDERS: My name is Lynnette Saunders. I'm a resident of Hatboro, and I just want to thank you for this opportunity to comment on this important proposed rule.

I'm sure you know that we'll have a lot of advantages both economically and for the environment, for our country. Speaking personally,

I haven't owned an American car in quite some time because I've always been concerned about gas mileage, and American cars just haven't kept up. I would like to own an American car. I really would. And I think implementing these standards would make that much more likely. I think that would also help the American car industry, because I know I'm not alone. Since gas prices continue to rise, this is going to continue to be a problem, and I think more and more people, as GM I think found out, are interested in lower gas -- or in more fuel efficient cars.

Also better gas mileage will, of course, reduce the amount of pollutants that are going into the air. We often talk about what it will cost to reduce greenhouse gases. Rarely do we talk about what it will cost not to reduce greenhouse gases. I've actually done research on algae in ecosystems and I know it's really important we do something now.

Also, if we reduce air pollutants, we will reduce health care costs for the average family and the consumer will put more money in their pockets and help the environment and economy at the same time.

Again, I thank you for this ruling and having the courage and forward thinking to propose these standards.

Thank you.

MR. MEDFORD: Thank you.

## MARY ALICE CICERALE

### CITIZEN

MS. CICERALE: Good evening. My name is Mary Alice Cicerale. I'm a long-time librarian. I'm a Philadelphia resident and a member of both the Sierra Club and the American Association of Retired Persons. Thank you for this opportunity to meet with you tonight.

I am like every American. I want to breathe clean air, use and drink clean water, and enjoy unpolluted lands. That's why I support environmental organizations that work to ensure a healthy Earth for present and future generations. Although I am not a grandparent myself, I care for grandchildren everywhere and for the future generations we speak of, and I care for all my friends and relative, young or old, active or not. We all share a common need with all of humanity:

clean air. Enjoying the outdoors requires clean air, but it is just not always there. Just recently I could not hike with one of my best friends in Phoenix because he has health issues and the smog index was too high.

When I was a child, I only wanted to be outdoors. Coming inside, even in winter, was a trial. It felt like an unfair exile or punishment. Today, going outside, hiking, and being outdoors in general is still very important to me.

Last summer I was happy to see that
the new standards for vehicles sold this year
through 2016 were set, a sensible 35.5 miles per
gallon and 250 grams of carbon pollution per mile.
And this November I was even happier to see that the
Environmental Protection Agency and the National
Highway Traffic Safety Administration upheld the
White House-proposed standards for new passenger
cars and trucks sold from 2017 through 2025. These
proposed fuel efficiency standards are important
steps in the right direction. They are also some of
the biggest steps we can take to reduce our
dependence on oil and significantly cut carbon
pollution.

I joined the Sierra Club because I

care so much about being outdoors and holding on to that one natural joy of childhood. But today with this testimony, the Club also gives me a chance to make a personal difference. Americans who cannot be here tonight say with us we applaud your efforts to ensure clean air, unpolluted land, and fresh water on this lovely North American continent. We all share these basic passion and concerns: clean air and unpolluted water.

Please continue to uphold the integrity of the final standards. Do not allow loopholes, credits, and flexibilities to undermine the stringency of vehicle standards. Please have the best interests of our future at heart and continue to work for transportation guidelines that protect everyone.

Thank you.

MR. MEDFORD: Thank you very much.

Next.

#### DAVID HENDERSON

22 CITIZEN

MR. HENDERSON: My name is David
Henderson, and I appreciate the opportunity to speak

in favor of higher auto standard -- fuel efficiency standards today.

I'm not a climate expert, economist, or politician. I come here today as a father, as a concerned citizen, and a chemical engineer that has worked in the field of alternative energy for over 10 years. I believe that climate change is no longer an issue of scientific inquiry, but one of political will. Many corporate interests benefit from denial of climate change. They continue to profit from business as usual while the true costs of pollution these industries create is borne by society. By continuing to enter into a debate over climate change we allow the groups that profit from the status quo to control the dialogue.

The overwhelming consensus from the scientific community is that global warming is occurring and that human activities are contributing to it. As a society, the conversation you need to be having is not whether global warming is occurring but what we are going to do to prevent it.

Some may argue that it is not the government's role to tell automakers how efficient to make cars; the free market will correct itself.

I strongly disagree with this argument for a number

of reasons. One, the free market has failed to address the problem so far, even though many climate experts believe significant climate change is now already inevitable.

Two, when it comes to pollution, and specifically global warming, we can't afford to be reactive. It's far easier and cheaper to prevent pollution before it occurs than to perform remediation. Usually remediation is just expensive damage control, speaking of the BP oil spill, for example. We cannot return the environment to a pristine state.

And, three, perhaps the most compelling reason that the free market is ineffective in regulating pollution is that the true cost of pollution is almost always external to the market. For example, in Pennsylvania we currently get over 50 percent of our electricity from coal-fired power plants. Free market economics would view paying your electric bill in Pennsylvania as a win-win where both the consumer and the power plant owner benefit from the exchange. The free market does not consider externalities such as the estimated 24,000 lives that are shortened each year due to the pollutants submitted by coal-fired power

plants. The free market does not include the cost of deforestation due to acid rain. The free market does not include -- consider the mercury that ends up in our fish and our birds or the damage caused by mountaintop removal.

A similar argument can be made when a consumer purchases an automobile and then fills up the tank. Though the impact of CO2 emissions are hard to quantify, rising sea levels, malaria, drought, famine, and more extreme weather are often cited as examples.

One of the important roles of government is to regulate the negative externalities of economic transactions. I believe that increasing the CAFE standards is a step in the right direction, and I urge you to make it happen.

Thank you.

MR. MEDFORD: Thank you very much.

# MARJA KAISLA

# CITIZEN

MS. KAISLA: Good evening. My name is Marja Kaisla, and I'm a citizen of the United States as well as Finland. And I've lived in the

United States for over 20 years and I've created a personal life here and a professional life as a concert pianist and played all over the country. Although I've lived here so long, I still continue to look at the United States from the outside as a European and especially that as a Scandinavian. So in that spirit, my statement will be more about the philosophy of decision making for issues impacting the environment in this country rather than stating facts and numbers.

First, though, I want to say that the current administration proposal to reduce greenhouse gases and to increase vehicle fuel efficiency drastically is not only the right thing to do, but it is the only responsible thing to do. And again looking at these issues as a European, one of the disappointing characteristics I've seen in the way U.S. oftentimes had conducted its business is lack of pragmatic, long-term planning and improvising short-term solutions or rushing to new situations without careful planning and thorough understanding of ramifications of its actions or relying on biased opinions influenced by politics or money that can be seen in many areas, from positions to go to war to big business bailout decisions, and attempts to

improve education. That's why it's very encouraging and welcoming to see the EPA proposing these new regulations and at least reaching into the semi-far future.

Having grown up in Finland I've seen the enormous benefits of long-term planning and commitment extending from education reform to infrastructure improvements to energy efficiency and environmental protection. As is the case in Finland, one can implement green standards also on a smaller scale and governmental agencies can lead by example.

Just to give you one example, the Finnish Embassy in Washington, D.C., for example, which received the prestigious LEED certification by the U.S. Green Building Council last year, has cut its electricity use by 50 percent and gas consumption by 65 percent, resulting in annual savings of more than \$150,000 in utility costs. The Embassy has also implemented rigorous policies to ensure sustainable practices in all of the building operations. Reflecting in the similar commitment to energy efficiency, the Finnish Consulate General's residence in Los Angeles was recently retrofitted with solar panels and other energy-saving measures,

and as a result of these changes, the building procedures -- the building produces as much energy as it's consuming in the next 20-plus years.

I hope this serves as a good example of the commitment the country can make also on a smaller scale on many different energy-saving levels and then combined with others doing the same it will have a major positive impact on the environment and energy consumption.

And on a side note, in Finland, which is -- we're having the presidential election also going on right now and, as a matter of fact, I ran the presidential election of the -- the advanced presidential election here in Philadelphia this past weekend, and so I'm directly impacting both of, you know, Finland and the United States in this surprising way. And the second-most popular candidate in the presidential election is the candidate for the Green Party. And it's no secret that I voted for him. Finns are known to be very honest and open.

So, anyway, moving on, getting back to the United States, making vehicles vastly more fuel efficient, however, is only one of several measures that the federal government must address in order to reduce greenhouse gases in the years and decades to come.

As for improving public transportation to reduce pollution levels and to become more energy efficient, public transportation needs to be greatly improved in the suburbs and between cities. Bike lanes should be made more manage -- should be made mandatory in the new streetscape construction in cities. State and government agencies should lead by their own example by using hybrid vehicles in their own fleet and offering incentives to employees to walk, bike, and use public transportation.

As the EPA has stated, one of the goals of setting higher fuel efficiency for vehicles is to make the U.S. less reliant on foreign oil.

But how, for example, do the aging and inefficient oil refineries in the U.S. help that goal? Look at, for example, the immediate shutdown announced just yesterday of the oil refinery, Hovensa, in St. Croix and the U.S. Virgin Islands. I go up there to do educational work and play concerts in the Caribbean, so I'm very familiar with that situation. Two Pennsylvania refineries were recently shut down, too, and there is another one waiting to be closed,

bringing the total shutdowns in the past three years or so to over 18 here and in Europe, which have totaled more than 2 million barrels of oil per day. The refineries have not been able to compete with modern refineries built in India, China, and the Middle East. So the EPA needs to address the inefficiencies of the remaining oil refineries because they themselves result in higher fuel imports from other countries.

It's interesting that one of these three public hearings is taking place in Pennsylvania. Among all the states, Pennsylvania's coal-fired power plants are some of the highest carbon dioxide emitters and Pennsylvania contributes about 1 percent of all manmade greenhouse gas emission in the world, which they, unfortunately, have great impact on the pollution levels in the entire world.

There is a need for strong federal regulation, because as we see in these states like New Jersey and Pennsylvania, many decision makers, including governors, in these states may too easily side with big businesses possibly at the expense of safe air, water, and food supply for the public. It frightens me to think that a politician would

disregard people's safety for the sake of strengthening one's own political profile.

Governor Christie said he pulled New
Jersey out of the multi-state Regional Greenhouse
Gas Initiative about half a year ago because he
stated the past carbon emission permits cost the
state too much.

MR. MEDFORD: Can you wrap up in the interest of time?

MS. KAISLA: Yes. Finishing on that thought, that the problem of politicians making decisions based on businesses is -- continues, as I said, to be frightening to me.

And I can finish by saying what the past-Governor Rendell said two years ago when he signed the Climate Change Action Plan in Pennsylvania, that climate change could be absolutely devastating to Pennsylvania. It threatens virtually every aspect of our lives. Our infrastructure was designed around a stable climate. Many industries like agriculture depend on variations in the seasons, and new diseases that once could not survive here will now be able to flourish in warmer temperatures.

We need to reduce greenhouse gas

1 emissions. The need to reduce greenhouse gas 2 emissions is clear, and I personally hope individual 3 states and federal government will think about the impact its decisions have on the citizens in the 4 world now and well into the future. Politicians 5 6 have been elected to look after our well-being --7 MR. MEDFORD: Okay. Thank you. 8 MS. KAISLA: -- so I appreciate your 9 time. 10 MR. MEDFORD: Thank you. 11 I can now read the name tags. 12 Ms. Forman. 13 CATHIE FORMAN 14 CITIZEN 15 MS. FORMAN: Well, I'm very nervous. 16 17 MR. MEDFORD: Okay. Please don't be. 18 MS. FORMAN: And I was asked to 19 speak. I was encouraged -- I'm a parent of two 20 children, two teenagers. I'm a school social 21 worker. I've worked with students from kindergarten 22 up to the age of 21 in special education. I live in Southampton, Bucks County. I'm a proud owner of a 23 24 2006 Prius. And I applaud you and encourage you to 25 stand firm and raise the standards for -- for miles

per gallon. And I -- I just really jotted down a couple of thoughts, so I won't take a lot of your time, so it's more of a kind of emotional and impassioned plea.

I do what I do. I eat organics; I drive a Prius; I went green and got rid of my oil tank; I do electric and solar, and I feel very lonely. And I think this is what my plea is: I want to live in a country again where I am part of the majority, not the minority. Where I feel like I have to defend that environmentalism is not Communism or being lefty or liberal. It's just loving the Earth, loving what's living in it, loving the children that we're raising in it and wanting to protect it for generations to come.

And I guess my plea is, is that I defend this country a lot, but I'm finding it harder and harder with leadership cowering and giving in to money. And I understand money is needed to run and campaign and win elections, including our dear president, but there has got to be a point where our conscience comes first. So that's my plea to you.

A lot of people make fun of me, including my brother, who is very affluent and owns a Porsche. His Porsche was in disrepair, he needed

to borrow my car, and he loved my Prius and couldn't believe he got all the way through Pennsylvania up to Maine on like one tank and he raved. And so what I say to you, you know it's a cute little story, is that we in America do have ingenuity; we do have scientists; we do have brilliant people. Let's support them to make us leaders in the way I want to walk into Europe or Israel or anywhere in the Middle East or South America and feel good about what our country is doing.

Oh, the one last thing is -- like there is this -- I do this a lot in groups when I work, especially with teenagers, and I say the responsibility of our generation is what a lot of Native Americans felt, which is to do things as if it was going to affect the seventh generation after you. You probably have heard this today, so I don't want to be repetitive.

MR. MEDFORD: That's okay.

MS. FORMAN: But I feel the need for us to take that seriously so there can be a seventh generation.

MR. MEDFORD: Thank you. Thank you for your remarks.

MS. FORMAN: You're welcome.

1 MR. MEDFORD: Mr. Comella.

## JOHN COMELLA

3 CITIZEN

MR. COMELLA: My name is John

Comella, and although I was born and raised in

Motown, Detroit, Michigan, I've lived most of my

life in Massachusetts and for the last year and a

half here in Philadelphia. I strong -- full

disclosure, I own 373-plus shares of General Motors

stock, pre-bankruptcy. I paid \$11,900 for it and it

is currently worth zero.

I strongly support the proposal to improve the energy -- the mileage efficiency of automobiles. It saves people money, but that's not too important; it reduces the pollutants in the atmosphere, which is very important, especially to my asthmatic wife; and it reduces the amount of carbon dioxide which produces -- is one of the main producers of the -- the greenhouse effect and global warming. That is very important. It also reduces our dependence on foreign oil and leaves more oil in the ground for my two daughters and any children that they may have. We're always going to need some oil and gas, and the longer we leave it in the

ground, the better off we are. The people of Ohio probably would very strongly agree with that after the several earthquakes they've had, which have been attributed to the fracking.

A recent report has stated that if we don't lower our CO2 emissions from where they are now today from 380 parts per million down to less than 350 within five years, we may pass the tipping point beyond which it will be impossible to stop the global warming. That could easily be the most catastrophic event in the history of the world.

By the way, this is not the first time that I have advocated for increasing energy efficiency of cars. In the first OPEC oil crisis, which I think was nearly 40 years ago, I sent a letter to the chairman of General Motors, who I knew personally from having been a General Motors scholar at the University of Detroit where he was the liaison. He was a lowly vice president. He later became the CEO. So I sent him the letter and I asked him to increase the mileage efficiency, everybody would benefit. I was getting off easy because I had at the time the Volkswagen Beetle, which got about 35 miles a gallon when I wasn't thinking about it and about 42 miles per gallon when

I was. And it wasn't because I had modern -- the technology in the car. I actually had ancient technology. It was called a clutch, and I could -- I could do things with that that greatly improved my mileage.

Some years later we lived in the People's Republic of Massachusetts and I repeated that with a Geo Metro, which is a Kia or something like that, and I drove that Geo Metro from just outside of Boston all the way down to Brooklyn and back on eight gallons of gas. It can be done.

So part of it is we've got to raise the requirements for mileage efficiency in cars.

We've also got to teach people how they can squeeze more out of their cars.

MR. MEDFORD: Can we wrap up?

MR. COMELLA: Yeah. Our next

crisis -- I told the CEO of GM that the crisis that

we were in was caused by the OPEC, and I said our

next crisis may very well lead to a resource issue.

We are running out of oil and it is not

reproducible, so we should be keeping it in the

ground as long as we can and that's important.

And I'll close up by asking the members who are on the Environmental Protection

1	Agency, you have another assignment, should you
2	accept it. Do the same thing to building heating
3	and cooling. When we moved into our house in
4	Massachusetts, the previous owner was spending about
5	\$800 a year on heating oil. Within a year I had
6	knocked that down to half of that and I did it. My
7	wife hated it. The bubble pack on the windows is
8	not popular with the women, but it did the job of
9	keeping the heat inside the house. And so I
LO	recommend that you go after housing costs and that's
L1	important.
L2	But I appreciate the work that you're
L3	doing now, even though it's not going to be in time
L <b>4</b>	to meet that five-year deadline, and if
L5	we to meet that deadline we would have to work
L6	dozens of times harder than we are working right
L7	now.
L8	MR. MEDFORD: Thank you very much.
L9	Ms. Pugh.
20	
21	DIANE PUGH
22	PENN ENVIRONMENT
23	
24	MS. PUGH: My name is Diane Pugh. I
25	have a BS in medical technology. I reside in

Pennsylvania. I have five children between the ages of 21 and 28. I'm an IT professional and I specialize in project and management consulting.

I'm a certified first aid trainer and a professional white water river guide, so I have a real interest in the environment. But mostly I'm an American concerned about the future, financially, environmentally, politically, and socially.

I strongly support these new standards for automobiles. Americans want cleaner, more fuel efficient cars because they cost less to run, have a smaller carbon footprint, they decrease air pollution, and they'll help curb our nation's reliance on oil. Reducing our reliance on both imported and domestic oil is critical. For decades our reliance on imported oil has put America at risk from a dependence on countries whose values we do not share and whose political agendas are often opposed to our own.

In recent years, efforts to increase domestic oil and natural gas have led us to fracking and plans for additional pipelines. Neither of these seem to be the correct solution to the problem.

Why am I here tonight instead of at

home having dinner with my family relaxing after a full day of work? The EPA doesn't need me to tell you about studies and facts. I'm not a fuel expert or an environmental expert. I'm not an engineer. I'm here because it matters to me, my children, my friends, Americans, and all inhabitants of the Earth. I'm here to encourage the passage of these new standards, and I want to applaud the Obama Administration for proposing them.

I want to talk about some things that happened to me as a child. I went to the New York World's Fair and it was like a fairy tale. Soon, very soon they said, any day now, we'll have telephones that you can just see the person on the other end. I thought they meant next week. Well, it happened, finally. I mean, we're living it now.

A close friend of the family, a very intelligent man, he worked for NASA and he worked with the federal government on alternative energy policies in the '70s, regaled me with all of these wonderful things that soon, very soon, we would see: alternative energy, cars that didn't need gas. I hoped that it wasn't like the promise of the video phone, that it wouldn't take forever, but here we are still having that same debate.

Anyway, studies consistently suggest that 54.5 miles per gallon is a reasonable goal, and it can be done, it could be done easily. Some people are afraid that what that means is that everyone's going to have to drive a tiny, little car. But separate categories -- separate targets for each category of car means that's not going to happen.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Why do I bring that up? Well, it matters to me because my family has a number of vehicles, each with a specific purpose, and we would be hard-pressed to live without them. To my IT job I drive a compact car because it gets good mileage. It gets me from place to place. It's not fancy and it's not very big. To my river quide work I try to use that same car whenever I can because it gets the best mileage, but that doesn't work if I need to carry my kayak or I need to carpool with another person. We run out of room. So we have a larger vehicle, a pickup truck. We use it for work pallets, multiple kayaks, lawn supplies, or camping. We also have an SUV. We use it as a tow vehicle for the cords of wood we use to heat our house. lastly, a Harley Davidson, mostly just for fun, but it sure gets good gas mileage. Our next vehicle

will likely be a hybrid or an electric vehicle or maybe something we haven't even seen yet. I hope.

I keep waiting to see that fairy tale dream come true.

There is lots of other reasons why I support these standards. You know, the world that I grew up in is not the world that my kids are growing up in. They're facing a different America. Before I even graduated from college, I had an offer of a full-time job in my field waiting for me. I was able to obtain employment, establish a household, and support myself immediately after graduation from college. Yet despite four of my children being college graduates, I see them struggling to obtain employment related to their degrees and continuing to share housing with friends or living at home because they just can't afford it.

I'm old enough to remember the first Earth Day, April 22, 1970. It was the height of hippie and flower child culture. Protest was what everybody talked about, but it wasn't about the environment. Nobody thought about the environment or cared about them. But with increasing public awareness, Earth Day was founded, and with that increasing awareness became public pressure, public

pressure on lawmakers to enact federal guidelines -federal guidelines like this one. As much as we'd
like to all think that each individual can make a
difference, it's guidelines that come from the
federal government that effect the biggest and most
important changes.

I also remember the gas rationing -MR. MEDFORD: Can you wrap up?

MS. PUGH: Sure. Okay. Again, in 1979 we had gas rationing here in Pennsylvania, and Jimmy Carter passed regulations that helped us, but we fell behind. As individuals we're limited in what we can do. We have a duty to act responsibly, but we can't make big changes.

I'm proud to work for a company that's actively engaged in environmentally sound practices. The white water outfitter that I work for already funds cash credits to offset all of their impacts and offers to match guest contributions to their own cash input. They have a goal to plant 5,000 trees, recycle 50,000 cans, and this is great. But even if every company in America decided to do a portion of this, it would no -- not come anywhere as close as what this standard can do.

Okay.

Can you wrap up?

MR. MEDFORD:

1	MS. PUGH: Thank you for your time.
2	MR. MEDFORD: Thank you very much.
3	Ms. Santorini.
4	
5	BEATRICE SANTORINI
6	CITIZEN
7	
8	MS. SANTORINI: Can you hear me?
9	MR. MEDFORD: Yes.
10	MS. SANTORINI: My name is Beatrice
11	Santorini, and I work at the University of
12	Pennsylvania, although I do not represent that
13	institution, and my line of work is historical
14	syntax, which has nothing to do with anything you
15	guys do. So I'm here as a private citizen.
16	I appreciate the opportunity that
17	you, the EPA, is giving the public to respond to the
18	new fuel efficiency standards proposed by the Obama
19	Administration. There are many reasons that these
20	new standards are important, and to my mind they are
21	all related to health in one form or another: the
22	health of our bodies, the health of the environment,
23	the health of the U.S. and the global economy more
24	generally, and the health of our political process,
25	specifically here in the United States, which has

suffered tremendously recently from the unprecedented degree of subordination to the interest of Big Oil. I feel very strongly about that last point, and I consider and continue to consider the 2003 invasion of Iraq as a violation of the rule of International law.

So in this context it's an important fact that by the year 2030 the proposed standards would cut annual oil consumption in the United States by nearly 23 billion gallons, which is roughly equivalent to U.S. imports from Saudi Arabia and Iraq in 2010.

Beyond this welcome, at least welcome to me, the new fuel standards hold the promise of improving the health of our economy, the health of the environment, and the health of our bodies as well. First, the standards are expected to create jobs that depend on innovative technologies.

Second, the standards call for reduced -- for serious reduction of greenhouse gas emissions, as we have heard other people talk about. And third, using less oil in our cars and trucks means less pollution in the air that finds its way into our lungs and this is a point that again resonates particularly strongly with me as my family has a

history of respiratory troubles, especially asthma. My mom really suffered seriously and my nephew, they both suffered seriously from asthma. I'm not saying that's related necessarily to -- it could be mold in the house or whatever, but certainly bad air quality is not going to help.

This point about air quality is also a point that should resonate strongly with everybody in Pennsylvania, as when last I checked last night on the Internet, Pennsylvania is the second-worst -- we heard third-worst earlier, but my sources say second-worst air quality of any state in the United States, and we're right after Texas. So it's very appropriate that of the three hearings that are taking place in San Francisco and Detroit and Philadelphia, one of the hearings is taking place in Pennsylvania.

The Obama Administration, and specifically you from the EPA, have taken an important step in the right direction with these standards, and my hope is that the public support for them that you are seeing here will help you politically, because not everybody is a friend of these new standards and there will be a tax on them. So my hope is that you can use all of our public

1	testimony as evidence that the public really
2	supports you. Thank you.
3	MR. MEDFORD: Thank you and thank
4	everyone on the panel for your indulgence and your
5	testimony. Thank you for staying so late to provide
6	it.
7	We're going to change court reporters
8	now, so we're going to take a 10-minute break and
9	we'll be back with the next panel.
10	(Recess at 7:57 p.m.)
11	(Resumed at 8:18 p.m.)
12	MR. MEDFORD: Okay, Ms. Varley.
13	
14	RITA VARLEY
15	CITIZEN
16	
17	Thank you.
18	I'm Rita Varley, and thank you for
19	offering this opportunity to us to testify. My
20	presentation is very short, less than a page. I'm
21	going to just start by describing where I'm coming
22	from.
23	I belong to the Sierra Club and a
24	number of other organizations in the city that are
25	working on being green. It we begome involved in the

Transition Philadelphia group. I don't know if you've heard of Transition Town, but the premise is that the group seeks to help the city power down from fossil fuels in every possible way by developing the community to support -- so that people buy from each other, support each other economically by buying locally, growing local food and avoiding the cost of fuel going to big agriculture and to the shipping of food, by developing green energy sources and green jobs, and by developing co-ops, improving public transit systems, and increasing bike paths, walkways and parks.

Philadelphia is blessed with a government that is interested in taking strong steps towards a green economy. With these good things going for us, and with so many of us trying so very hard to respond to the economic and ecological crisis at hand with as much creativity as we can elicit, it is important to have the support of government to encourage the auto industry to do its part.

Now, I have explored the web to see what the auto industry is doing in other counties, especially in Europe. I was amazed to read that

many car brands are already selling the same model cars in Europe with much better mileage than the same models here, and I've got some lists of stuff. I'm not going to read any of this, but these are some of the web things that I found.

On this list a U.S. Mazda will get 31 miles a gallon and in Europe the same car will get up to 57 miles per gallon. This and several other web pages I found lead me to believe that asking the auto industry to muster 54.5 miles per gallon minimum within 12 years is reasonable and perhaps very easy to achieve for us -- it's reasonable for us to demand that. And this must be done without loopholes to weaken the requirements.

Meanwhile, I believe that what we are doing to the climate and to the economy with fossil fuels is the largest crisis our human society faces, perhaps in the history of human society, and that it is utterly imperative that we take strong steps toward cutting the damage as fast as possible. Our country must do the right thing, no matter who else on the planet does it or not. The sooner we take the strongest action possible, the easier it will be for all of us. Waiting will only greatly increase the pain of dealing with the consequences.

1	I could add, I have a '97 Toyota
2	which gets about 30 miles to a gallon and, when I
3	looked for a new car of the same kind last year, it
4	was doing about the same thing, 15 years later. So
5	I'm waiting, and I don't want to buy a car until
6	it's actually an improvement over that.
7	Thank you.
8	MR. MEDFORD: Thank you very much.
9	Sister Mary Clark.
10	MR. LAWSON: Good evening. My name
11	is Virgil Lawson
12	MR. MEDFORD: I think Sister Mary
13	Clark is next and then you.
14	MR. LAWSON: Oh.
15	
16	SR. MARY ELIZABETH CLARK
17	CITIZEN
18	
19	My name is Sister Mary Elizabeth
20	Clark, and I'm a Sister of St. Joseph of
21	Philadelphia. I'm one of the 25 ambassadors of the
22	U.S. Catholic Bishops Climate Change coalition. I
23	minister at Chestnut Hill College as assistant to
24	the president for sustainability and as director of
25	our Earth Center.

Working with many other people of faith, I'm here to urge you to keep an ethical, moral perspective as a lens for your deliberations. Thank you for this opportunity. As people of faith, we believe that the atmosphere that supports life on earth is God-given. We must respect and protect it, as I'm sure I don't need to be telling you. It unites us as one human family. If we harm the atmosphere, we dishonor our Creator and the gift of creation. The values of our faith call us to humility, sacrifice, and a respect for life, and the natural gifts God has provided.

In 2001 the United States Catholic
Bishops said, "At its core, global climate change is
not about economic theory or political platforms,
nor about partisan advantage or interest group
pressures; it is about the future of God's creation
and the one human family. It's about protecting
both the human environment and the natural
environment."

Since I'm representing those who see
this issue from a faith perspective, I want to be
clear that I trust the Sierra Club and its
scientific expertise. From their research I believe
this regulation to be the single biggest step in our

country to tackle global warming and, therefore, I urge you to accept the President's proposal without loopholes.

For more than four billion years our planet earth has sustained itself and life as we know it, and in my own lifetime I've experienced an appalling growth in our dependency on oil. My father had solar panels in the '70s, and I am his daughter and believe in the alternative energy sources.

From the millions of tons of plastic filling landfills to the polluting burning of fossil fuels beyond our imagining, we've built a relationship with oil similar to an addict with an abused substance. As a result, our precious earth cannot continue to sustain life as we know it. As people of faith, we see this as a moral tragedy.

There are ways we can diminish the effects of our polluting the air by reducing gas emissions now. The sisters in my house carpool. We've made some decisions about insulation and keeping the heat down. What can we say to the next generation if, knowing what we know, we refuse to do something? As we take personal and communal action in our places of worship to mitigate the effects of

1 global climate change, it is not possible to make a 2 significant difference without your taking the 3 necessary systemic action in our federal government. 4 We call on you, as our federal protection, to approve this proposal of President 5 6 The amount suggested by our President is not 7 enough. It is a beginning, a necessary beginning. 8 Please think carefully about the consequences of 9 your decision. By the year 2030 the proposed 10 standards would cut annual oil consumption by nearly 11 23 billion gallons, roughly equivalent to the U.S. 12 imports from Saudi Arabia and Iraq in 2010. 13 Although we need to do more, how can we not do the 14 minimum. 15 MR. MEDFORD: Thank you very much. 16 Mr. Lawson. 17 18 VIRGIL LAWSON 19 CITIZEN 20 21 Good evening. My name is Yes.

Yes. Good evening. My name is

Virgil Lawson. I am a veteran, I served as a -
both gas service -- an electrician and gas service

mechanic in the U.S. Navy. I've been in three wars,

I am a graduate of Chestnut Hill College, and I just

22

23

24

25

completed my Master's in child care planning at West
Chester University.

I currently drive a 2007 Toyota Yaris and that's my -- one of the things that I'm doing to cut down my carbon footprint, but I think it's time for our society to look into something that's kind of new, but also something that has already been done, and that is hemp seed oil. A lot can be produced with hemp seed oil, such as plastics, and also cars can run off of it. Actually, Henry Ford's first car that he designed actually ran off of hemp seed oil.

So I think, with today's technology, we can produce this instead of adding ethanol as an alternative to fuel, because I think ethanol is not the way to go. I think that ethanol contributes to global hunger, and the amount of corn used to make ethanol last year could have fed every American for a whole year. So I think this is the time that we explore something beyond what we are using now. So my whole thing is, yes, we do need higher emissions rates for our cars. However, I think we also need to eventually take steps into ending fuel consumption as a whole.

And, I'm sorry, but I have to go

right now, but thank you for having me.

MR. MEDFORD: Thank you very much.

I can't see the name tag, but we'll just continue here. It looks like Lynn. If you could give your name and begin your testimony.

Thank you.

7

8

9

1

2

3

4

5

6

# LYNN GODMILOW

### CITIZEN

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

My name is Lynn Godmilow. I'm here representing myself. I'm a retired geneticist. was a psychiatric social worker initially and then became involved in genetics, and my claim to fame with regard to the environmental issues had to do with the fact that my job was explaining to people what specific genes they had and what problems they might expect for themselves and their family, and we always mentioned the fact that genes didn't operate in isolation, that they also were impacted by the environment. And I'm old enough to remember when people with asthma or children with asthma were advised to move to Arizona where it was sunny and warm and dry. I'm not so sure that anybody would recommend that anyone move to Arizona these days,

but just to give you an idea of the time frame and the difference.

It seems to me, and I'm no expert, that the issue is very simple. Those opposing new standards in miles per gallon and carbon emissions represent the automobile industry, and they should have focused on making lots of much smaller cars a long time ago.

My first car, in 1965, was a VW Bug.

And, when I traveled to Europe later that year and
the following year, I was very impressed with the
very large number of very small cars. London,

Amsterdam and Rome were filled with very small cars.

Even the taxi cabs in everywhere except London were
very small. There were very few of the large cars
that were popular in the United States at that time.

If the three big American car makers had stopped making large sedans and SUVs and minivans, but much smaller cars that use less gas, but with a higher miles per gallon, we'd be way ahead of the curve now. Of course, the CEOs would not have made so much money, but that can hardly be seen as a bad thing.

The other thing that's very obvious about Europe and automobiles is the cost of

gasoline. The taxes are much, much higher than they are in this country, and that keeps people interested in driving small cars and minimizing the amount of time they spend on the road. My husband has been saying for years that one of the things we need to do in this country is raise significantly the tax rate on gasoline, and oil, for that matter.

In my humble opinion, this whole issue, this whole business, is all about money. And, if the Republicans get elected, you guys may be out of work because, if I'm not mistaken, there has been a lot of discussion by the Republicans running for office that the EPA needs to go, and that's because their best friends are the oil moguls in Texas and the car manufacturers.

This is not about what's right for our environment. I don't think they care what's right for our environment. What they care about is money, and money don't make by increasing the miles per gallon and trying to get the car manufacturers to make smaller cars.

Americans have -- we have been convinced for the last 30 or 40 years that we have it all, that we can do whatever we want, we can drive great big cars, we can drive, you know,

minivans and SUVs and with no impact on anything, and that's just not the way it is, but I have a lot of trouble -- I inherited the gene from my mother for the glass is half empty, and, so, I have a lot of trouble seeing that things are going to get better. I think the country is way too big, and what might work if we make changes in Pennsylvania isn't going to work in California or isn't going to work in Nebraska. So we've got a problem with, you know, figuring out what will work everywhere for everyone, and I think that we've got a long way to go to figure that out.

But, in the meantime, if we have a government that's willing to say "Let's raise the miles per gallon requirement," I say I'm all for it, but let's make it happen sooner. Why do we have to wait until 2017?

Thank you for giving me a chance to get that off my chest.

MR. MEDFORD: Thank you. I just want to make sure you are aware that, since President

Obama has been in office, there have been -- this is the third set of fuel economy and greenhouse gas standards that he has administered. So first the 2011 rule went into effect, and there is a rule now

1	for raising CAFE standards through '12 through
2	'16 to 35, and then these standards, which go
3	through all the way through 2025, so that there
4	really are standards that he's worked on during this
5	period that go from 2011 through 2025.
6	So there are three sets of standards
7	that have been done in the little more than three
8	years he's been president.
9	MS. GODMILOW: But isn't it sad
LO	that I mean, I got 35 miles to a gallon in my VW
L1	Bug, and that was in 1965.
L2	MR. MEDFORD: Yes. We understand. I
L3	also want to say thank you. I understand that you
L <b>4</b>	have waited patiently or waited for at least two
L5	and a half hours to testify, so thank you very much
L6	for being patient.
L7	MS. GODMILOW: You're welcome.
L8	MR. MEDFORD: Okay. So I think now
L9	that's Katie Margillo.
20	
21	KATIE MARGILLO
22	CITIZEN
23	
24	Hi. My name is Katie Margillo, and
25	I'm an environmental organizer and also a citizen of

Philadelphia. Thank you very much for taking the time today to listen to the input from so many passionate Pennsylvanians about the proposed CAFE standards, which are so essential for a number of reasons and for which I stand in support.

I see health as a basic human right and, with that, access to clean water and clean air as essential to the health of all humans. I originally got involved in environmental issues because I thought working to tackle the biggest environmental problems would impact public health in a way that one-on-one interaction simply cannot.

Thus, voicing my support for standards that will not only provide cleaner air, but also be the biggest step this county has ever taken to combat climate change and get off of oil is a win/win for me. And, frankly, the standards are a win/win for Americans, in the sense that they cut our dependence on oil and present a huge win for national security.

The standards cut prices at the gas pump and save the average family \$330 per year and cut global warming pollution by 200 million metric tons, or the annual emissions of 70 coal-fired powerplants. This is a theme that we've heard a lot

today, but there is an old saying that goes, "You do
not inherit the earth from your ancestors; you
borrow it from your children."

And, so, I urge you to keep that in mind and to implement the proposed CAFE standards.

Thank you.

MR. MEDFORD: Thank you very much.

Zachary Monteith.

#### ZACHARY MONTEITH

#### CITIZEN

Good evening. Thank you all so much for giving us the opportunity to speak on these new standards.

My name is Zachary Monteith, and I've been a Philadelphia resident since I graduated from college. As soon as I moved here I sold my car, partially to save on parking costs and insurance, but also because of the cost of gasoline and the fuel efficiency my car had.

I'm lucky enough to live here in

Philly where we have an excellent, comprehensive

public transportation system, but only a tiny

fraction of American citizens have the same access

1 that we have here, and don't have the option of 2 getting rid of their cars to cut down on their 3 carbon footprint and to save money. 4 I frequently have to rent cars for my 5 job, and too frequently the brand new 2012 models 6 that I'm renting get 18 miles per gallon or even 7 fewer. This both forces me to spend my gas budget at three times the rate that I would like to, and 8 9 contributes to dangerous air pollution, global 10 warming gases and our dependence on petroleum taken 11 from more and more dangerous sources at three times 12 the rate I should have to. 13 I applaud the leadership that the 14 Obama Administration has taken on this issue and I'm 15 exceedingly hopeful that these standards will become 16 law. 17 Thanks. 18 MR. MEDFORD: Good. Thank you very 19 much. 20 Ms. Rosen. 21 22 LISA ROSEN 23 CITIZEN 24 Thank you for being here 25 Hello.

tonight, thank you for giving up so much of your evening and traveling to be here.

I'm Lisa Rosen, I'm a fundraising consultant to a small nonprofit, and I'm a resident of Center City Philadelphia, United States, the world. I'm here to provide my perspective on this issue of setting dramatically -- reasonably increased standards of fuel efficiency for autos and I do hope also for buses and trucks. The air was never cleaner than when we had a bus strike here.

I'm married, but we don't have children, so I have no personal investment in the future health of our air and water, so I shouldn't care, but I do. I am 52 years old, I was recently diagnosed with ovarian cancer. My health is good for now, but my life expectancy greatly shortened, so I may not be here to reap the benefits that many of the fuel efficiency standards can bring us, and I shouldn't care, but I do.

Like the former speaker, I live in

Center City, but most of my clients and friends are
here, and a huge array of cultural offerings that I

walk to or take public transit 90 percent of the
time. I only use my car to leave town. And, so, my
tires now suffer from dry rot from disuse of my car.

So all the money that could be saved with all of these fuel efficiency standards really doesn't affect me -- I think I refill once a month -- so I shouldn't care, but I do. I care deeply.

The bulk of the proven remaining oil reserves in the world today are located in the Middle East. Our nation's security is put at risk when we must indulge rogue nations or help prop up heinous dictators all to pander for unfettered access to their oil.

When we elect representatives, we hope they are going to stand up for our highest ideals and to put up great resistance to the forces that work contrary to the public interest. It's challenging, but we hope that, when it matters, as this issue does, we will rally and stand behind them to strengthen the resolve.

Past wars and wars in our future have been fought over resources. Hundreds of years ago it was over peppercorn, which had a value of money and currency. For a hundred years or more we've been fighting over oil and access to oil. Coming wars will be over oil as the reserves dwindle and demand increases, and over water, and we will be battered in the winds over these battles when we

should be aspiring to our higher ideals.

I'm not going to be called to serve in those wars, nor will my children or grandchildren, so I shouldn't care, but I really do, and I care what happens to the innocent citizens of those nations who are unfortunate enough to have large oil reserves. If we do not, each of us, with or without a personal stake in the future, with or without a political objective in this issue, stand up for our higher ideals, we will not achieve a better world.

When I was very young I decided I wanted to go to an excellent college. Had I put off applying myself or just plodded along and hoped for the best, it probably would not have come about. You can't just knuckle down in your senior year and hope that Harvard will come beating on your door. So my dream was to go to Yale. So I took courses and added extracurriculars and worked and worked and passed the many social issues, and there were many forces trying to pull me off my course in my family, among my friends, tempting things, but I stayed the course and I fell short of my mark. I didn't get into Yale, but I got into Smith and I got an excellent education.

So, if we set high standards and we fall even slightly short of the mark, we will still have achieved something excellent, something wonderful, something that will benefit us and future generations and something to make all of us proud of not caving in to the forces that try to derail those forces.

When cars came into being, the horse and buggy people really tried like crazy to keep them off the road, to set up obstacles, to set onerous, onerous rules of use, all to try to preserve and hang on to the status quo. Well, we are all the beneficiaries of that today, so what will we do to help advance our society into the future?

I can't thank you enough for your hearings on these issues, and I do hope that they respond to the will of the people, the majority of whom absolutely want these standards. That, even if we fall ever so slightly short, we'll still have achieved something great.

Thank you.

MR. MEDFORD: Thank you, and thank you for caring.

Mr. Blumenstock.

#### JIM BLUMENSTOCK

## 3 CITIZEN

5 Hi. My name is Jim Blumenstock.
6 It's very impressive and even intimidating to listen

7 to some of these testimonies.

I'm a resident of Haverford Township in Delaware County outside of Philadelphia. I am not, as others, an environmental engineer, a scientist, or a politician, but I come here tonight as a father of three and a concerned citizen.

I want my kids to inherit a clean, green, healthy country and planet, and we, in our own way, try to have an impact. In our family we have purchased fuel efficient cars, we have upgraded our systems in windows and heating in our house to be more efficient, and most recently, in March, we took the step to install solar energy, 28 panels on our roof, to reduce our electric needs by 75 percent. It helps, but it's the big changes that we really need. That's why I'm here tonight.

I support and applaud the Obama

Administration to continue to raise the fuel

efficiency standards for cars and light trucks to

this 54.5 miles per gallon standard. The time has come to aggressively pursue these positive changes and improvements with these goals to improve our environment, reduce our carbon emissions, stimulate our economy, and reduce our dependence on foreign oil supplies.

Everywhere we turn we see the effects of global warming, whether it's more weather events, reduction of icecaps and glaciers, the shifting of weather patterns, or even the adverse health effects on individuals. The technology to improve fuel efficiency is and has been available, but just not realized. We need to work together to make these technological improvements a reality.

I have a real short personal story, in that my daughter is currently a participant in something that is very unique and special called the Green Corps Movement, and it's basically a fellowship that's offered every year to about 30 young individuals who display an incredible commitment and passion with their work in individual communities around the country to advocate for environmental issues and causes, and these young professionals work around the clock, they are working 12 to 14 hours a day, on a very small

1	stipend income, but what it drives home is that they
2	shouldn't have the corner on passion and commitment;
3	it should be something we all have and something we
4	all display, from our small communities to our
5	federal government.
6	This issue of energy efficiency and
7	regulation often seems to turn political somehow,
8	but it shouldn't be. It's common sense and it's
9	about the future of our communities, our country,
10	and our planet. It's time more than time for
11	America to step up and be a leader in protecting our
12	planet.
13	I appreciate the time and the ability
14	to contribute tonight. Thank you.
15	MR. MEDFORD: Thank you, and
16	congratulations on the passion in the environment
17	that you've instilled in your kids. It's pretty
18	obvious. Thank you.
19	Next I believe is Ms. Mershon.
20	
21	GAIL MERSHON
22	CITIZEN
23	
24	Yes. My name is Gail Mershon, and
25	forgive me if I trip over my words a little bit, and

1 I will be brief.

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

I wanted to speak first as a grandmother. I have one-and-a-half, three-and-a-half and 14-year-old grandchildren, and I am deeply concerned that my generation is leaving a really unsolvable mess for them, and of course I'm speaking mostly of climate change. I see increasing frequency and severity of catastrophic and near catastrophic climate events in my life, especially in the last ten years, but I'm also speaking about the political and economic fallout from our dependence on oil, and then the very real danger of more catastrophic accidents coming from our attempts to procure and transport the oil. And I don't think I'm overstating using the word "catastrophic" three times in one sentence. I don't think that's an overstatement.

These accidents foul the earth, kill wildlife and cost us billions of dollars. I don't know what to say to my 14-year-old grandchild when he says to me, "Grammy, what are we doing to fix the earth?" That's what he says. "What are we doing?" I don't know what to say to him.

I'd also like to speak as an occupational therapist who works here in

Philadelphia County with three to five-years-olds in home and community-based settings, and many of these little children have asthma and other respiratory conditions, and it's really impacting their lives greatly. It impacts their sleep, their growth, and ultimately their ability to learn, and I want to speak for them because they can't speak for themselves, and I want to know, you know, what I could say to them. I want them to be able to live in a world that is clean and safe.

So, in summary, I just want to applaud you and President Obama for this proposal that will increase fuel economy for cars and trucks and -- and decrease our dependence on foreign oil, hopefully, and to my grandchildren -- you know, for me this is a no-brainer, this proposal, it's an absolute no-brainer, but to my grandchildren, I want to say to them it's the least we can do for you.

Thank you.

MR. MEDFORD: Thank you, and I think you do have something now to tell your grandchildren. You were here tonight to almost 9:00 o'clock giving your views. Thank you.

Mr. O'Malley.

1	DOUG O'MALLEY
2	ENVIRONMENT NEW JERSEY
3	FIELD DIRECTOR
4	
5	Thank you. My name is Doug O'Malley.
6	I'm the field director with Environment New Jersey.
7	We are a nonprofit citizen advocacy group
8	representing over 60,000 citizens and members across
9	the Garden State.
10	I guess I just wanted to start off by
11	saying that the panelists, all of you, should get
12	medals, because I believe you've probably been here
13	since 9:00 a.m.
14	MR. MEDFORD: No. It started at
15	10:00 well, we came early this morning from
16	Washington, but, yes, we started at 10:00.
17	MR. O'MALLEY: So certainly a long
18	day.
19	MR. MEDFORD: A long day.
20	MR. O'MALLEY: Thank you for
21	listening to this testimony and also thank you for
22	not cutting people off at two-minute increments,
23	which I've certainly seen in other testimonies.
24	I also want to thank all the
25	panelists here obviously. I only had a chance to

hear ten or 15 of us. I mean, this is what I don't hear in Trenton at the State House. We do not get a chance to hear from the public on the environment, partially because the state has those meetings at, you know, 10:00 a.m. and 1:00 p.m., when most people can't get there.

Listening to these stories, I'm reminded why these clean car regulations are so critical. You've heard again and again that these regulations will be the biggest step ever to reduce global warming pollution, and that alone should be reason enough to move ahead with these regulations. But I -- you obviously know, you know, the ins and outs of these regulations very, very, very well.

I actually want to take a step back in time and, for that matter, step across the river. Obviously a lot of folks here tonight and a lot of people you've talked with tonight are from Pennsylvania and from the greater Philadelphia area. Now New Jersey, so close by, has eight and a half million people and nearly as many cars. We are the most densely populated state in the country. We are also the first state in America to pass clean car legislation legislatively, not administratively, and that was a battle.

That was a world that is a different one from the one we've seen. It's a world where GM flew out lobbyists to Trenton to testify against these standards. It's a world where hybrid cars were literally, you know, front page news because no one had seen them before. People asked, can they work, will they die? Obviously that's not true now.

It's also a world where auto manufacturers said there will be no demand for clean cars, where they literally drove golf carts around the State House saying, "This is what you'll get if you get clean car standards." This was ten years ago.

We now, obviously, are in a much different world, a world that, as you noted, two years ago the car manufacturers testified in support of the current clean car standards. This is a world where consumers are demanding clean cars, demanding cars that have higher fuel efficiency, and this is also a world where, some time down the line, but obviously very forward thinking policy of the California clean cars policy of the zero emissions vehicle are -- that policy has come into reality by looking at the Volt and the Leaf, and obviously there will be more electric cars soon to join them.

Now, I think it's important to know that this is not just -- these protections are not just something that environmentalists are calling for. I imagine most people you've heard from tonight would call themselves environmentalists.

It's important to know that in New Jersey our legislature is green. It's green because the public is green. There are 23 lawmakers who, over the course of this summer, called on the EPA and the president to adopt these standards.

Those legislators came from both sides of the aisle, from both Republicans and Democrats. The Senate President, Steve Sweeney, a Democrat, called for stronger standards, as well as the minority leader of the State Senate, Tom Kean, Jr., who ran for the Republican Senate seat in 2006. And the reason therefore is not only because of the facts; it's because the public in New Jersey is demanding it. There has been thousands of comments for stronger clean car standards. And I think it's important to note that this call -- you know, our legislation was passed when gas was less than \$2 a gallon.

And I just want to return quickly to kind of the reason why these standards are so

important. I'll just start with one of the most obvious ones for the average American, and that's the fact that these standards will save money. As you have noted in the description of these standards, either the very conservative estimate that you make that 14 years from now gas will be relatively at the same level -- I'd be certainly willing to bet anyone in this room -- not \$10,000 like Mitt Romney, but a ten spot -- that gas will be a lot more expensive 14 years from now. But let's say it does stay the same. The savings are immense. Just New Jersey alone, \$727 million goes straight into consumers' pockets. The average savings, as you well know, between three and over \$4,000.

Let me just conclude by talking about something that the average American doesn't think about, and that's the savings from global warming pollution. You've heard time and again that this regulation will be equivalent to shutting down 70 coal-fired powerplants. In New Jersey it's even more important. Half of our global warming pollution comes from our cars and our trucks. We cannot meet our state global warming standard without this regulation.

And in New Jersey our economy is

1	based upon the shore I'll wrap up is based
2	upon the shore, which is a \$38 billion economy. Sea
3	level rise will be incredibly detrimental to all
4	states, but especially our state.
5	Thank you again.
6	MR. MEDFORD: Great. Thank you very
7	much for your testimony.
8	So I think those panelists who have
9	given their testimony can leave and we'll get the
10	final panelists up for final testimony.
11	(Pause.)
12	MR. MEDFORD: Okay. Introduce
13	yourself and begin your testimony.
14	
15	MIKE TINKER
16	CITIZEN
17	
18	My name is Michael Tinker, I am a
19	retired engineer, and I want to talk to you tonight
20	as somebody who lives on the planet and somebody who
21	exists in the United States and somebody who has a
22	family.
23	I think that many of the folks out
24	there don't realize quite how fragile we are. The
25	earth takes up .03 percent of the mass of the solar

system. Not the galaxy, not the universe; just the solar system. That's 3/10,000ths of the mass of the solar system. We are a very small rock, and we live in an atmosphere that represents about 1/1,000th of the diameter of the earth. It's very fragile, it's easily hurt, as we know from things like the explosion of Krakatoa and the way it affected the climate and, if we hurt it, it's going to hurt us back.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

As Ms. Rosen mentioned, we are running out of water and we are running out of energy, and we are going to be in really deep sneakers if we don't do something about both of those actually, but, in particular, what you're addressing here tonight is the energy, and we can reduce our energy dependence. Which brings me to being a citizen of the United States. We are a major consumer of energy in the world now, and we can't fight our way into energy. I think we found that out in Iraq. George W. Bush, our previous President, went to the Saudis and said, "Please pump more oil," and they thumbed their noses at him. There was a time when people didn't thumb their noses at the United States, but we are very vulnerable. It's a much greater threat to our

security than terrorists are. We are going to find,
as we run out of water and run out of energy, that
we are really incredibly vulnerable.

I've been hanging out with the same lady for about half century now and I've been married to her for 46 years, and she has asthma. So does our older daughter. Both of them take heavy medication and it's under control, but -- and here is another anecdote that somebody mentioned earlier -- you can't move to Arizona anymore. I have a friend who moved to Arizona because his mother-in-law had breathing problems. It's just as polluted in Chandler, Arizona now as it is anywhere else. It didn't help her to move.

We can control energy if we want to, we can control pollution and cut down on the diseases associated with it, if we want to, if we have the will to act.

And thank you very much for being here this evening for a very long day, and let us hope that the Administration goes forward with these standards and future standards. Thank you very much.

MR. MEDFORD: Thank you very much.

Our next speaker, please.

#### DON HALBERT

### CITIZEN

Good evening. My name is Don
Halbert, and I'm a retired veteran of 35 years in
the rail industry, and I came with some remarks
prepared, but I think I'm going to just make it
short and say, having spent that long in an
overregulated industry, I know a little bit about
regulation and what overregulation can do. It can
do a lot of harm.

These standards are not overregulation. They are simply a natural outgrowth of our profligate use of fuel and highways. We drove the rail industry -- after they showed their greed in the late 19th century, we drove them to the point where they were on their knees. That was the result of regulation. What I'm trying say is that the government has a role and sometimes they over -- they are too heavy handed.

The Highway Act of 1953 produced the best highway system in the world, and our fathers gave us that, but, you know, we've kind of run with it, and I think today we are just too -- well, we

have to have something to drive down the use of oil, and I believe these standards will do that.

I have two sons and five grandchildren, and I want them to be able to say that we did something on the order of what our ancestors did for us.

So I thank you very much for the opportunity to speak and thank you for being here.

MR. MEDFORD: Thank you very much for coming.

#### RICH POSMONTEIR

# 13 CITIZEN

My name is Rich Posmonteir. I'm a father, a small business owner, and an avid hiker and a walker. I've spent many hours hiking in our local beautiful park here in Philadelphia called the Wissahickon Valley with my son who has asthma. I'm here supporting the higher fuel efficiency standards for cars and light trucks. I'm here because I'd like to be able to help secure a future, a future where I can continue to walk in the Wissahickon Valley with my son and not fear that he will have an asthma attack.

I see more and more children with asthma and suspect that it's related to air quality. I'm not an expert in the field, but my life experience has shown me that most people don't make difficult changes because it's the right thing to do. They need to be -- I've observed that often change comes with financial incentive.

And you -- I'm sure you know these facts. The New York Times has reported that the National Highway Transportation and Safety
Administration has estimated that the higher fuel standards will cause vehicle prices to rise about \$2,000 a vehicle, and yet the average consumer will save about \$6,600 in fuel costs over the life of the car. And they also report that the proposed rules will create 484,000 jobs and cut oil consumption by 1.5 billion -- million barrels a day by 2030. That's according to the GO60mpg coalition, an association of environmental advocacy groups that support the proposal.

I feel that the new rules, they are very doable, as other people have said, they are a no-brainer, it's a win/win. Less oil consumed, better security for our country, and cleaner air. The larger issue also is that I think the United

States has an ethical and moral obligation to set an example for the rest of the industrialized world and not succumb to the financial pressures of large corporations.

I thank you for listening.

MR. MEDFORD: Thank you very much.

#### NOAH VAN NIEL

#### CITIZEN

Good evening. My name is Noah Van Niel. I'm a young professional here in Philadelphia and I wouldn't consider myself an activist, but, when I saw this was an opportunity to come and lend my voice to the discussion, I thought it was the least I can do, as some people have said. I thank you for the opportunity, I thank you again, as many people have said, for surviving this long day and listening to us all.

I believe that the proposed fuel efficiency standards of the 54.5 miles per gallon for cars and light trucks in the model years 2017 to 2025 is not only a good idea, but it is a necessity. My reasoning is three fold -- and it won't come as any shock -- economic, environmental and

international.

You don't need to be an expert to know that in the past decade filling up your car at the pump has became a major expense. Personal experience bears that out as well as any chart or graph. Gas prices are high and trending higher, and they are weighing down our family's finances, thus adding one more drag to an already sagging economy.

One way to solve this problem is to lower gas prices, but I recognize that this is a complex and difficult thing to do. So the other way to solve this problem would be to increase the distance that each car could go per gallon of gas, so the number of times people had to fill up at the pump was less, and the money they were spending per month, per year would be less as well. It seems pretty straightforward and, as many people have said, by 2030 this could save \$45 billion annually, and that's about \$330 per family, which, if we are still in an economic slump in 2030, that better do a little bit of good.

Environmentally -- I may betray a bias, but I have no problem doing that. I believe that global warming is real and I believe that it's happening now. I think approving higher standards

for fuel efficiency would cut annual global warming pollution by, as we've heard, 280 million metric tons, like shutting down 70 coal-fired powerplants for a year, which wouldn't be a bad idea, either.

By combating global warming and it's negative effects on our planet and the health of future generations, these standards would do a lot of good for our own country and for the world.

Internationally, one of the most interesting things I found about the Arab Spring uprising as they affected life here in America were how directly our foreign policy relations with countries in that tumultuous region were tied to our imports of their oil. Not only is it dangerous to allow ourselves to be beholden to regimes which take the idea of human rights as a suggestion rather than a mandate, but it sends mixed messages about our own devotion to those same principles.

It also undermines our national security because we are sending over a billion dollars a year into a region where we have a very limited level of control over what happens to it. These new standards would help to liberate us from that destructive tangle of relationships we are holding on to in spite of ourselves. By the year

2030, we could cut the annual oil consumption of about what we take in from -- or took in from Saudi Arabia and Iraq in 2010.

It is for these reasons that I think that passing these standards is a no-brainer, it is good for us now and good for us in the future and, in my humble opinion, is the kind of thing that a government should be doing for its people.

Thank you.

MR. MEDFORD: Thank you.

Last but not least.

# DEBORAH MCILVAINE

## 14 CITIZEN

Hi. I'm Debbie McIlvaine. I've lived in Philadelphia all my life, and I'm an administrative assistant at a Quaker school in Philadelphia, and there are lots of reasons why I support this legislation.

I also have a son who has asthma, and I think he would have an improved quality of life if the air were cleaner. I think this is the responsible thing to do, for our country to do, to safeguard our world for future generations, as a lot of people here have talked about tonight, and also

to make an attempt to mitigate against the harmful effects of pollution and global warming on wildlife.

For example, the polar bears' habitat being destroyed. And there are countless examples.

I have visited many beautiful places in our country: The Grand Canyon, the Shenandoah Mountains, the Adirondacks, and mountains in New Hampshire, Vermont and Maine, and the beautiful Jersey shore, but, wherever I go, I'm looking at these magnificent sights through a veil of smog. It heart-sickens me to see how human activity has masked the beauty of our natural wonders.

And that's very true in Philadelphia, especially in the summer. It's a beautiful city, but not when you are looking at it through a lot of smog.

I think these standards represent policy that is rational and not just focused on short-term gains, and that's something that I feel, as a citizen, I see too little of in public policy. Public policy seems so driven by what is politically expedient for public officials rather than what is in the best interest of the public and what makes rational sense.

These standards make sense in so many

They make economic sense. It would benefit families and our country to spend less money on gas. It would benefit industry to upgrade and modernize and would create jobs. It would also make economic sense in terms of reducing health care costs in diseases related to the harmful effects of pollution.

And these standards make rational sense in terms of our energy policy, from an energy perspective. It would reduce our reliance on oil, most importantly foreign oil. And they make sense from a human perspective. Government has a duty to protect the public from the harmful effects of pollution.

I think that our public officials have an awesome responsibility to protect the public and preserve our earth for the future -- for future generations, and I hope that they won't treat that responsibility with cynicism.

Thank you very much.

MR. MEDFORD: Thank you, and thanks to the four of you for staying so late and expressing your views. We very much appreciate it.

The hearing is now adjourned.

(9:12 p.m.)

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

	<b>\$5,000</b> (1)	<b>10-minute</b> (1)	1999 (1)	14:16;17:10;18:9;
\$	104:9	150:8	119:6	32:5;34:3,4;78:22;
	\$5.32 (1)	11 (3)	19-mile (1)	124:19;162:3,5;186:23
<b>\$1 (1)</b>	105:23	52:14;53:9;56:4	103:2	2030 (10)
34:10	\$500,000 (1)	110,000 (1)	19th (1)	13:15;18:25;45:18;
<b>\$1,000</b> (1)	105:12	38:8	183:17	55:1;148:8;156:9;
110:20	\$6,000 (2)	12 (5)		185:17;187:18,20;189:1
<b>\$1.7</b> (1)	28:1;73:23	64:2;85:7;152:11;	2	2035 (1)
14:14	\$6,600 (1)	162:1;171:25		100:8
<b>\$1.90</b> (1)	185:14	12-lane (1)	2 (5)	2050 (1)
105:19	\$625 (1)	63:19	72:16,17,21;93:7;	100:8
\$10,000 (1)	105:4	13 (3)	133:3	2094 (1)
179:8	<b>\$700</b> (1)	64:3;110:11,16	20 (7)	2:9
<b>\$100</b> (1)	97:17	14 (3)	34:8;103:9;104:3,5,	<b>20-plus</b> (1)
18:24	<b>\$727</b> (1)	171:25;179:6,10	18;118:1;129:1	131:3
\$100,000 (1)	179:12	14,000 (1)	20.7 (2)	21 (4)
104:10	<b>\$795</b> (1)	39:21	28:3;88:14	9:23;10:14;135:22;
<b>\$11,900</b> (1)	105:7	14-year-old (2)	200 (1)	142:2
138:11	\$800 (2)	173:4,20	163:23	21st (1)
\$125,000 (2)	105:6;141:5	15 (4)	200,000 (1)	86:21
103:15,20	,	41:1;91:4;153:4;	108:14	22 (2)
\$150,000 (1)	0	176:1	2001 (1)	43:9;145:19
130:19		150 (1)	154:13	22-year-old (1)
\$16,000 (2)	03 (1)	70:23	2003 (1)	41:22
105:8,14	180:25	16 (1)	148:5	23 (3)
\$17,500 (1)		162:2	2005 (3)	148:10;156:11;178:8
29:1	1	163 (1)	10:2,7;113:19	24 (1)
<b>\$170</b> (1)		24:8	2006 (3)	12:23
105:2	1 (3)	17 (1)	92:6;135:24;178:16	24,000 (2)
<b>\$19 (2)</b>	20:3;63:19;133:15	104:20	2007 (5)	38:9;127:24
103:7,13	1,000-year (1)	18 (3)	13:13;17:13,21;	24-hour (1)
\$2 (1)	54:7	10:5;133:2;165:6	92:11;157:3	37:15
178:22	<b>1,3-Butadiene</b> (1)	1800 (1)	2008 (2)	25 (3)
\$2,000 (3)	10:10	2:5	10:11;117:12	88:24;105:3;153:21
73:24;74:2;185:13	1.4 (1)	19 (2)	2009 (2)	250 (1)
\$200 (1)	33:24	2:7;102:24	55:19;117:23	124:14
104:17	1.5 (1)	1953 (1)	2010 (8)	26 (2)
\$25 (1)	185:17	183:22	9:24;10:7;12:22;	10:17;91:5
104:24	1.6 (2)	1965 (2)	67:15;97:18;148:12;	27 (1)
\$3 (2)	103:17,25	159:9;162:11	156:12;189:3	10:13
110:12,17	1/1,000th (1)	1970 (2)	2011 (5)	28 (4)
\$3,235 (1)	181:4	93:7;145:19	10:3;19:20;20:3;	13:12;30:19;142:2;
97:17	1/2 (1)	1970s (1)	161:25;162:5	170:19
\$31,800 (1)	54:18	14:1	2012 (2)	280 (2)
105:16	1:00 (1)	1972 (1)	2:7;165:5	45:20;188:2
\$330 (3)	176:5	89:2	2016 (1)	29 (1)
61:3;163:22;187:19	10 (15)	1979 (3)	124:13	100:9
\$38 (1)	70:21;103:4,13,15,16,	112:21;114:3;146:10	2017 (9)	290 (1)
180:2	17,19,25;104:5,7,14;	1987 (1)	8:15;14:16;18:9;34:3;	13:16
\$4,000 (4)	105:11,20;117:19;126:7	41:5	78:22;117:21;124:19;	
14:17;73:25;74:2;	10:00 (3)	1990 (2)	161:17;186:22	3
179:14	175:15,16;176:5	110:8,21	2017-2025 (3)	
\$4,500 (1)	100 (1)	1990s (1)	2:4;12:14;45:15	3.50 (1)
29:1	84:1	70:2	2020 (1)	104:13
\$45 (1)	102,000 (1)	1996 (1)	114:23	3/10,000ths (1)
187:18	56:5	108:13	2025 (11)	181:2

				1
30 (7)	108:23	114:6	19:21	98:11;185:18
17:23;68:15;105:10,	46 (1)	65 (1)	95 (1)	account (4)
13;153:2;160:23;	182:6	130:18	67:6	10:13,17;16:3;44:11
171:19	47 (1)	67 (1)	95,000 (1)	accounted (1)
300 (2)	10:15	18:6	38:10	13:12
23:21,21	48 (1)	679,000 (1)	97 (1)	accounting (1)
300,000 (2)	111:24	38:5	153:1	12:15
34:17;117:25	484,000 (1)	30.3	978 (1)	accounts (1)
30-year-old (1)	185:16	7	37:11	38:5
103:19	103.10	•	99 (1)	accrued (1)
31 (1)	5	7.50 (1)	101:8	14:18
152:6		105:18	101.0	accustomed (1)
31,000 (1)	5 (3)	7:57 (1)	A	112:25
20:3	104:11,12;105:9	150:10	11	Acetaldehyde (1)
330 (1)	5,000 (1)	70 (6)	AARP (2)	10:10
104:3	146:21	45:22;55:2;100:23;	97:15,16	achievable (2)
	50 (8)	163:24;179:19;188:3	ability (5)	19:12;76:23
<b>333,000</b> (1) 104:5	72:23;100:19;103:6;	70s (2)	48:13;83:13;87:22;	achieve (7)
	104:3;108:23;114:23;	143:20;155:8	172:13;174:6	` '
34 (1)	127:18;130:17	71 (1)	able (13)	9:3;13:23;17:8,22;
104:23	50,000 (2)	31:23	50:18;61:6;90:14;	18:21;152:12;168:10
35 (6)				achieved (3)
104:13;108:19;	38:8;146:21	<b>73 (1)</b> 31:25	101:18;104:10;108:21;	83:12;169:3,21
139:24;162:2,10;183:6			110:22;133:4;134:23;	achieving (2)
35.5 (1)	105:1	75 (1)	145:11;174:9;184:4,22	61:20;120:6
124:13	500,000 (2)	170:21	above (1) 38:13	acid (1)
350 (1)	13:9;55:6	8		128:2
139:8	51 (1)	0	abroad (1)	across (9)
36 (1)	103:1	Q (1)	74:16	16:8;17:25;22:15;
119:8	52 (2)	<b>8 (1)</b> 34:6	absolute (3)	54:4,5;75:17;88:17;
37,000 (1)	27:16;166:14	34:0	40:10,19;174:17	1/15.0.1/16.16
				175:8;176:16
38:7	53 (1)	8:18 (1)	absolutely (2)	Act (11)
373-plus (1)	<b>53 (1)</b> 27:16	<b>8:18 (1)</b> 150:11	absolutely (2) 134:18;169:19	Act (11) 8:25,25;54:17;
<b>373-plus (1)</b> 138:10	53 (1) 27:16 54 (5)	8:18 (1) 150:11 80 (4)	absolutely (2) 134:18;169:19 absorbs (1)	Act (11) 8:25,25;54:17; 100:11;101:4,14;
373-plus (1) 138:10 38 (2)	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3;	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25	absolutely (2) 134:18;169:19 absorbs (1) 67:23	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13;
373-plus (1) 138:10 38 (2) 39:20;103:6	<b>53 (1)</b> 27:16 <b>54 (5)</b> 54:18,23;82:24;84:3; 114:7	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1)	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1)	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1)	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9)	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1)
373-plus (1) 138:10 38 (2) 39:20;103:6	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4;	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1)	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1)	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10;	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13)
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1)	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1)	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2)	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16;
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1)	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25;
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7 4 4 (1)	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1)	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2)	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1;
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4 4 (1) 14:5	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1)	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24;
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4 4 (1) 14:5 4:48 (1)	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1) 10:4	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16 87 (2)	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2 acceptable (2)	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24; 156:3
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4 4 (1) 14:5 4:48 (1) 2:7	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1) 10:4 59 (1)	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2 acceptable (2) 76:8,10	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24; 156:3 actions (7)
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4  4 (1) 14:5 4:48 (1) 2:7 40 (10)	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1) 10:4	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16 87 (2) 31:14;32:21	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2 acceptable (2) 76:8,10 access (7)	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24; 156:3 actions (7) 34:23;81:15;96:16,
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4 4 (1) 14:5 4:48 (1) 2:7 40 (10) 13:17;38:5;58:21;	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1) 10:4 59 (1) 31:17	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16 87 (2)	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2 acceptable (2) 76:8,10 access (7) 87:6;96:11;120:22;	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24; 156:3 actions (7) 34:23;81:15;96:16, 24;118:4,8;129:22
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4  4 (1) 14:5 4:48 (1) 2:7 40 (10) 13:17;38:5;58:21; 64:20;91:11;100:19;	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1) 10:4 59 (1) 31:17	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16 87 (2) 31:14;32:21	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2 acceptable (2) 76:8,10 access (7) 87:6;96:11;120:22; 163:7;164:25;167:10,22	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24; 156:3 actions (7) 34:23;81:15;96:16, 24;118:4,8;129:22 active (2)
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4  4 (1) 14:5 4:48 (1) 2:7 40 (10) 13:17;38:5;58:21; 64:20;91:11;100:19; 103:3;104:2;139:15;	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1) 10:4 59 (1) 31:17	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16 87 (2) 31:14;32:21 9	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2 acceptable (2) 76:8,10 access (7) 87:6;96:11;120:22; 163:7;164:25;167:10,22 accident (1)	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24; 156:3 actions (7) 34:23;81:15;96:16, 24;118:4,8;129:22 active (2) 43:22;123:24
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4  4 (1) 14:5 4:48 (1) 2:7 40 (10) 13:17;38:5;58:21; 64:20;91:11;100:19; 103:3;104:2;139:15; 160:23	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1) 10:4 59 (1) 31:17 6	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16 87 (2) 31:14;32:21 9 9:00 (2) 174:22;175:13	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2 acceptable (2) 76:8,10 access (7) 87:6;96:11;120:22; 163:7;164:25;167:10,22 accident (1) 92:4	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24; 156:3 actions (7) 34:23;81:15;96:16, 24;118:4,8;129:22 active (2) 43:22;123:24 actively (1)
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4  4 (1) 14:5 4:48 (1) 2:7 40 (10) 13:17;38:5;58:21; 64:20;91:11;100:19; 103:3;104:2;139:15; 160:23 413,000 (1)	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1) 10:4 59 (1) 31:17 6 6 (2) 104:2,15	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16 87 (2) 31:14;32:21 9 9:00 (2) 174:22;175:13 9:12 (1)	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2 acceptable (2) 76:8,10 access (7) 87:6;96:11;120:22; 163:7;164:25;167:10,22 accident (1) 92:4 accidents (2)	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24; 156:3 actions (7) 34:23;81:15;96:16, 24;118:4,8;129:22 active (2) 43:22;123:24
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4  4 (1) 14:5 4:48 (1) 2:7 40 (10) 13:17;38:5;58:21; 64:20;91:11;100:19; 103:3;104:2;139:15; 160:23 413,000 (1) 38:10	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1) 10:4 59 (1) 31:17 6 6 (2) 104:2,15 60 (4)	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16 87 (2) 31:14;32:21 9 9:00 (2) 174:22;175:13 9:12 (1) 191:25	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2 acceptable (2) 76:8,10 access (7) 87:6;96:11;120:22; 163:7;164:25;167:10,22 accident (1) 92:4 accidents (2) 173:13,18	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24; 156:3 actions (7) 34:23;81:15;96:16, 24;118:4,8;129:22 active (2) 43:22;123:24 actively (1)
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4  4 (1) 14:5 4:48 (1) 2:7 40 (10) 13:17;38:5;58:21; 64:20;91:11;100:19; 103:3;104:2;139:15; 160:23 413,000 (1) 38:10 42 (1)	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1) 10:4 59 (1) 31:17 6 6 (2) 104:2,15 60 (4) 12:17;32:4;34:16;	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16 87 (2) 31:14;32:21  9  9:00 (2) 174:22;175:13 9:12 (1) 191:25 90 (1)	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2 acceptable (2) 76:8,10 access (7) 87:6;96:11;120:22; 163:7;164:25;167:10,22 accident (1) 92:4 accidents (2) 173:13,18 accompanied (1)	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24; 156:3 actions (7) 34:23;81:15;96:16, 24;118:4,8;129:22 active (2) 43:22;123:24 actively (1) 146:16 activist (1) 186:13
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4  4 (1) 14:5 4:48 (1) 2:7 40 (10) 13:17;38:5;58:21; 64:20;91:11;100:19; 103:3;104:2;139:15; 160:23 413,000 (1) 38:10 42 (1) 139:25	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1) 10:4 59 (1) 31:17 6 6 (2) 104:2,15 60 (4) 12:17;32:4;34:16; 72:23	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16 87 (2) 31:14;32:21  9  9:00 (2) 174:22;175:13 9:12 (1) 191:25 90 (1) 166:23	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2 acceptable (2) 76:8,10 access (7) 87:6;96:11;120:22; 163:7;164:25;167:10,22 accident (1) 92:4 accidents (2) 173:13,18 accompanied (1) 53:8	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24; 156:3 actions (7) 34:23;81:15;96:16, 24;118:4,8;129:22 active (2) 43:22;123:24 actively (1) 146:16 activist (1) 186:13 activities (5)
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4  4 (1) 14:5 4:48 (1) 2:7 40 (10) 13:17;38:5;58:21; 64:20;91:11;100:19; 103:3;104:2;139:15; 160:23 413,000 (1) 38:10 42 (1) 139:25 44 (1)	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1) 10:4 59 (1) 31:17 6 6 6 (2) 104:2,15 60 (4) 12:17;32:4;34:16; 72:23 60,000 (1)	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16 87 (2) 31:14;32:21  9  9:00 (2) 174:22;175:13 9:12 (1) 191:25 90 (1) 166:23 90s (1)	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2 acceptable (2) 76:8,10 access (7) 87:6;96:11;120:22; 163:7;164:25;167:10,22 accident (1) 92:4 accidents (2) 173:13,18 accompanied (1) 53:8 accompanying (1)	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24; 156:3 actions (7) 34:23;81:15;96:16, 24;118:4,8;129:22 active (2) 43:22;123:24 actively (1) 146:16 activist (1) 186:13
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4  4 (1) 14:5 4:48 (1) 2:7 40 (10) 13:17;38:5;58:21; 64:20;91:11;100:19; 103:3;104:2;139:15; 160:23 413,000 (1) 38:10 42 (1) 139:25 44 (1) 100:9	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1) 10:4 59 (1) 31:17 6 6 (2) 104:2,15 60 (4) 12:17;32:4;34:16; 72:23 60,000 (1) 175:8	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16 87 (2) 31:14;32:21 9 9:00 (2) 174:22;175:13 9:12 (1) 191:25 90 (1) 166:23 90s (1) 13:14	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2 acceptable (2) 76:8,10 access (7) 87:6;96:11;120:22; 163:7;164:25;167:10,22 accident (1) 92:4 accidents (2) 173:13,18 accompanied (1) 53:8 accompanying (1) 70:5	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24; 156:3 actions (7) 34:23;81:15;96:16, 24;118:4,8;129:22 active (2) 43:22;123:24 actively (1) 146:16 activist (1) 186:13 activities (5)
373-plus (1) 138:10 38 (2) 39:20;103:6 380 (1) 139:7  4  4 (1) 14:5 4:48 (1) 2:7 40 (10) 13:17;38:5;58:21; 64:20;91:11;100:19; 103:3;104:2;139:15; 160:23 413,000 (1) 38:10 42 (1) 139:25 44 (1)	53 (1) 27:16 54 (5) 54:18,23;82:24;84:3; 114:7 54.5 (9) 17:9;24:7;32:6;34:4; 35:15;144:2;152:10; 171:1;186:21 57 (1) 152:8 58 (1) 10:4 59 (1) 31:17 6 6 6 (2) 104:2,15 60 (4) 12:17;32:4;34:16; 72:23 60,000 (1)	8:18 (1) 150:11 80 (4) 32:3;100:23;103:9,25 82 (1) 37:4 83 (1) 18:6 840 (1) 2:11 85 (1) 64:16 87 (2) 31:14;32:21  9  9:00 (2) 174:22;175:13 9:12 (1) 191:25 90 (1) 166:23 90s (1)	absolutely (2) 134:18;169:19 absorbs (1) 67:23 abused (1) 155:15 Academy (1) 65:22 accelerating (2) 54:1;75:6 accept (2) 141:2;155:2 acceptable (2) 76:8,10 access (7) 87:6;96:11;120:22; 163:7;164:25;167:10,22 accident (1) 92:4 accidents (2) 173:13,18 accompanied (1) 53:8 accompanying (1)	Act (11) 8:25,25;54:17; 100:11;101:4,14; 117:11,11;146:13; 182:18;183:22 acted (1) 41:4 action (13) 12:24;26:9;31:16; 34:18;79:17;83:25; 91:14;94:12;97:1; 134:16;152:23;155:24; 156:3 actions (7) 34:23;81:15;96:16, 24;118:4,8;129:22 active (2) 43:22;123:24 actively (1) 146:16 activist (1) 186:13 activities (5) 9:1;58:18;93:10;

40:13;190:11	149:18;165:14;170:24;	112:19	124:16;141:1	airborne (1)
actual (1)	182:21;185:11	affair (2)	agendas (1)	9:24
85:20	administrative (1)	70:3;113:16	142:18	aisle (1)
actually (29)	189:17	affect (3)	ages (2)	178:12
29:6,8,17,23;41:19;	administratively (1)	68:10;137:16;167:3	77:13;142:1	Al (2)
42:8;47:15;48:1;64:3;	176:24	affected (8)	aggregate (1)	92:8;93:23
74:3;85:20,22;99:20;	Admiral (1)	36:15;75:24,25;	90:1	Alabama (1)
106:18;107:1,14,21;	73:8	101:1;117:24;118:1;	aggressive (1)	112:1
108:12,16,21;110:16;	admire (1)	181:7;188:11	19:5	alarming (1)
111:20;122:18;140:2;	79:16	affects (2)	aggressively (1)	16:15
153:6;157:10,11;	adopt (3)	89:24;90:1	171:2	alert (1)
176:15;181:14	41:2;62:8;178:10	affiliated (1) 50:8	aghast (1) 113:11	43:20
<b>adapted (1)</b> 71:5	adopting (2) 19:25;26:9	affiliation (1)		<b>algae (2)</b> 24:1;122:19
Adapting (1)	adoption (2)	118:15	aging (1) 132:17	Alice (3)
105:17	70:6;106:22	affirmation (1)	ago (16)	116:12;123:7,11
add (4)	ads (1)	85:3	20:25;23:21;47:12;	Alison (1)
13:9;25:4;105:4;	61:23	affluent (1)	56:4;62:19;64:11;	110:2
153:1	adulthood (1)	136:24	68:15;92:6;119:11;	Alissa (2)
added (4)	103:20	afford (15)	134:5,15;139:15;159:8;	11:24;12:1
67:18;120:5,6;168:19	adults (3)	14:6;55:22;58:19;	167:19;177:13,16	alive (1)
addict (1)	22:10;38:8;114:6	65:2,6,14;66:11;67:2;	agree (2)	87:11
155:14	advance (1)	93:3;105:10;106:8;	32:22;139:2	all-electric (1)
addicted (1)	169:14	108:17,21;127:6;145:17	agreed (1)	55:25
87:18	advanced (6)	afraid (2)	114:8	allergies (3)
addiction (9)	17:19;18:10,19,23;	80:8;144:4	Agreement (2)	37:24;54:10,14
34:6,9,15;35:5,10;	83:14;131:13	Africa (3)	9:12;25:12	Allies (1)
50:25;55:10,12;60:21	advancements (2)	87:4;100:21;101:25	agriculture (2)	36:21
	` '			
adding (4)	13:6;81:20	African-American (2)	134:21;151:9	allow (9)
<b>adding (4)</b> 21:10;105:22;157:14;	*	African-American (2) 89:16,17	134:21;151:9 ahead (5)	<b>allow (9)</b> 19:6;49:9;51:13;
adding (4) 21:10;105:22;157:14; 187:8	13:6;81:20 advances (1) 13:5		-	` /
21:10;105:22;157:14;	advances (1)	89:16,17	ahead (5)	19:6;49:9;51:13;
21:10;105:22;157:14; 187:8	advances (1) 13:5	89:16,17 <b>afternoon (5)</b>	ahead (5) 30:9;48:5;79:17;	19:6;49:9;51:13; 83:10,15;87:7;125:11;
21:10;105:22;157:14; 187:8 addition (7)	advances (1) 13:5 advantage (1)	89:16,17 <b>afternoon (5)</b> 8:8;12:4;15:6,11;	ahead (5) 30:9;48:5;79:17; 159:21;176:12	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 <b>allowing (3)</b> 49:18;62:9;94:18
21:10;105:22;157:14; 187:8 addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7 additional (1)	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24	89:16,17 <b>afternoon (5)</b> 8:8;12:4;15:6,11; 24:20	ahead (5) 30:9;48:5;79:17; 159:21;176:12 aid (2) 11:15;142:4 aids (1)	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1)
21:10;105:22;157:14; 187:8 addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7 additional (1) 142:22	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1)	89:16,17 <b>afternoon (5)</b> 8:8;12:4;15:6,11; 24:20 <b>again (23)</b> 22:9;26:14,21;40:9; 41:10;43:11,25;62:21;	ahead (5) 30:9;48:5;79:17; 159:21;176:12 aid (2) 11:15;142:4 aids (1) 65:23	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 <b>allowing (3)</b> 49:18;62:9;94:18 <b>all-time (1)</b> 91:13
21:10;105:22;157:14; 187:8 addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7 additional (1) 142:22 address (10)	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5	89:16,17 <b>afternoon (5)</b> 8:8;12:4;15:6,11; 24:20 <b>again (23)</b> 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11;	ahead (5) 30:9;48:5;79:17; 159:21;176:12 aid (2) 11:15;142:4 aids (1) 65:23 ailments (1)	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11)
21:10;105:22;157:14; 187:8 addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7 additional (1) 142:22 address (10) 66:16;78:2,3,6,10,14;	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3)	89:16,17 <b>afternoon (5)</b> 8:8;12:4;15:6,11; 24:20 <b>again (23)</b> 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1;	ahead (5) 30:9;48:5;79:17; 159:21;176:12 aid (2) 11:15;142:4 aids (1) 65:23 ailments (1) 10:25	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13;
21:10;105:22;157:14; 187:8 addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7 additional (1) 142:22 address (10) 66:16;78:2,3,6,10,14; 80:25;127:2;131:25;	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10	89:16,17 <b>afternoon (5)</b> 8:8;12:4;15:6,11; 24:20 <b>again (23)</b> 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9;	ahead (5) 30:9;48:5;79:17; 159:21;176:12 aid (2) 11:15;142:4 aids (1) 65:23 ailments (1) 10:25 aiming (1)	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 <b>allowing (3)</b> 49:18;62:9;94:18 <b>all-time (1)</b> 91:13 <b>almost (11)</b> 27:19;28:18;44:13; 64:7;89:19;104:2;
21:10;105:22;157:14; 187:8 addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7 additional (1) 142:22 address (10) 66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1)	89:16,17 <b>afternoon (5)</b> 8:8;12:4;15:6,11; 24:20 <b>again (23)</b> 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18;	ahead (5) 30:9;48:5;79:17; 159:21;176:12 aid (2) 11:15;142:4 aids (1) 65:23 ailments (1) 10:25 aiming (1) 25:11	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 <b>allowing (3)</b> 49:18;62:9;94:18 <b>all-time (1)</b> 91:13 <b>almost (11)</b> 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13;
21:10;105:22;157:14; 187:8 addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7 additional (1) 142:22 address (10) 66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6 addressed (1)	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15	89:16,17 <b>afternoon (5)</b> 8:8;12:4;15:6,11; 24:20 <b>again (23)</b> 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17	ahead (5) 30:9;48:5;79:17; 159:21;176:12 aid (2) 11:15;142:4 aids (1) 65:23 ailments (1) 10:25 aiming (1) 25:11 AIR (71)	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22
21:10;105:22;157:14; 187:8 addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7 additional (1) 142:22 address (10) 66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6 addressed (1) 14:21	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1)	89:16,17 <b>afternoon (5)</b> 8:8;12:4;15:6,11; 24:20 <b>again (23)</b> 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 <b>Against (8)</b>	ahead (5) 30:9;48:5;79:17; 159:21;176:12 aid (2) 11:15;142:4 aids (1) 65:23 ailments (1) 10:25 aiming (1) 25:11 AIR (71) 8:6,10,18,22,24,25;	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1)
21:10;105:22;157:14; 187:8 addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7 additional (1) 142:22 address (10) 66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6 addressed (1) 14:21 Addressing (3)	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1) 119:5	89:16,17 <b>afternoon (5)</b> 8:8;12:4;15:6,11; 24:20 <b>again (23)</b> 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 <b>Against (8)</b> 36:21;46:3;62:8;	ahead (5)     30:9;48:5;79:17;     159:21;176:12 aid (2)     11:15;142:4 aids (1)     65:23 ailments (1)     10:25 aiming (1)     25:11 AIR (71)     8:6,10,18,22,24,25;     9:2,2,4,4,5,18,22;10:2,2,	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1) 45:8
21:10;105:22;157:14; 187:8 addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7 additional (1) 142:22 address (10) 66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6 addressed (1) 14:21 Addressing (3) 50:20;101:6;181:15	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1) 119:5 advertising (1)	89:16,17 <b>afternoon (5)</b> 8:8;12:4;15:6,11; 24:20 <b>again (23)</b> 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 <b>Against (8)</b> 36:21;46:3;62:8; 81:22;88:1;92:7;177:3;	ahead (5)     30:9;48:5;79:17;     159:21;176:12 aid (2)     11:15;142:4 aids (1)     65:23 ailments (1)     10:25 aiming (1)     25:11 AIR (71)     8:6,10,18,22,24,25;     9:2,2,4,4,5,18,22;10:2,2,     5,7,8,19,22;11:11;13:5;	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1) 45:8 alone (7)
21:10;105:22;157:14; 187:8 addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7 additional (1) 142:22 address (10) 66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6 addressed (1) 14:21 Addressing (3) 50:20;101:6;181:15 Adirondacks (1)	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1) 119:5 advertising (1) 91:11	89:16,17 <b>afternoon (5)</b> 8:8;12:4;15:6,11; 24:20 <b>again (23)</b> 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 <b>Against (8)</b> 36:21;46:3;62:8; 81:22;88:1;92:7;177:3; 190:1	ahead (5)     30:9;48:5;79:17;     159:21;176:12 aid (2)     11:15;142:4 aids (1)     65:23 ailments (1)     10:25 aiming (1)     25:11 AIR (71)     8:6,10,18,22,24,25;     9:2,2,4,4,5,18,22;10:2,2,     5,7,8,19,22;11:11;13:5;     15:19;16:5,14;21:10;	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1) 45:8 alone (7) 13:15;21:4;98:6,7;
21:10;105:22;157:14; 187:8 addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7 additional (1) 142:22 address (10) 66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6 addressed (1) 14:21 Addressing (3) 50:20;101:6;181:15 Adirondacks (1) 190:7	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1) 119:5 advertising (1) 91:11 advised (1)	89:16,17 afternoon (5) 8:8;12:4;15:6,11; 24:20 again (23) 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 Against (8) 36:21;46:3;62:8; 81:22;88:1;92:7;177:3; 190:1 age (5)	ahead (5)     30:9;48:5;79:17;     159:21;176:12 aid (2)     11:15;142:4 aids (1)     65:23 ailments (1)     10:25 aiming (1)     25:11 AIR (71)     8:6,10,18,22,24,25; 9:2,2,4,4,5,18,22;10:2,2, 5,7,8,19,22;11:11;13:5; 15:19;16:5,14;21:10; 23:23;27:10;36:16,19;	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1) 45:8 alone (7) 13:15;21:4;98:6,7; 122:8;176:11;179:12
21:10;105:22;157:14; 187:8  addition (7)  14:7;20:1;25:22;28:5, 17;29:3;65:7  additional (1)  142:22  address (10)  66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6  addressed (1)  14:21  Addressing (3)  50:20;101:6;181:15  Adirondacks (1)  190:7  adjourned (1)	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1) 119:5 advertising (1) 91:11 advised (1) 158:23	89:16,17 <b>afternoon (5)</b> 8:8;12:4;15:6,11; 24:20 <b>again (23)</b> 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 <b>Against (8)</b> 36:21;46:3;62:8; 81:22;88:1;92:7;177:3; 190:1 <b>age (5)</b> 42:2;43:9;110:2,3;	ahead (5)     30:9;48:5;79:17;     159:21;176:12 aid (2)     11:15;142:4 aids (1)     65:23 ailments (1)     10:25 aiming (1)     25:11 AIR (71)     8:6,10,18,22,24,25; 9:2,2,4,4,5,18,22;10:2,2, 5,7,8,19,22;11:11;13:5; 15:19;16:5,14;21:10; 23:23;27:10;36:16,19; 37:19;38:3;43:14,14,19;	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1) 45:8 alone (7) 13:15;21:4;98:6,7; 122:8;176:11;179:12 along (4)
21:10;105:22;157:14; 187:8  addition (7)  14:7;20:1;25:22;28:5, 17;29:3;65:7  additional (1)  142:22  address (10)  66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6  addressed (1)  14:21  Addressing (3)  50:20;101:6;181:15  Adirondacks (1)  190:7  adjourned (1)  191:24	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1) 119:5 advertising (1) 91:11 advised (1) 158:23 Advisory (1)	89:16,17 afternoon (5) 8:8;12:4;15:6,11; 24:20 again (23) 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 Against (8) 36:21;46:3;62:8; 81:22;88:1;92:7;177:3; 190:1 age (5) 42:2;43:9;110:2,3; 135:22	ahead (5)     30:9;48:5;79:17;     159:21;176:12 aid (2)     11:15;142:4 aids (1)     65:23 ailments (1)     10:25 aiming (1)     25:11 AIR (71)     8:6,10,18,22,24,25;     9:2,2,4,4,5,18,22;10:2,2,     5,7,8,19,22;11:11;13:5;     15:19;16:5,14;21:10;     23:23;27:10;36:16,19;     37:19;38:3;43:14,14,19;     44:4,10,19;47:25;54:9;	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1) 45:8 alone (7) 13:15;21:4;98:6,7; 122:8;176:11;179:12 along (4) 16:7;46:10;63:19;
21:10;105:22;157:14; 187:8  addition (7)  14:7;20:1;25:22;28:5, 17;29:3;65:7  additional (1)  142:22  address (10)  66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6  addressed (1)  14:21  Addressing (3)  50:20;101:6;181:15  Adirondacks (1)  190:7  adjourned (1)  191:24  administered (1)	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1) 119:5 advertising (1) 91:11 advised (1) 158:23 Advisory (1) 53:20	89:16,17 afternoon (5) 8:8;12:4;15:6,11; 24:20 again (23) 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 Against (8) 36:21;46:3;62:8; 81:22;88:1;92:7;177:3; 190:1 age (5) 42:2;43:9;110:2,3; 135:22 agencies (7)	ahead (5)     30:9;48:5;79:17;     159:21;176:12 aid (2)     11:15;142:4 aids (1)     65:23 ailments (1)     10:25 aiming (1)     25:11 AIR (71)     8:6,10,18,22,24,25;     9:2,2,4,4,5,18,22;10:2,2,     5,7,8,19,22;11:11;13:5;     15:19;16:5,14;21:10;     23:23;27:10;36:16,19;     37:19;38:3;43:14,14,19;     44:4,10,19;47:25;54:9;     76:14;97:5,5,8,9,12;	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1) 45:8 alone (7) 13:15;21:4;98:6,7; 122:8;176:11;179:12 along (4) 16:7;46:10;63:19; 168:14
21:10;105:22;157:14; 187:8 addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7 additional (1) 142:22 address (10) 66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6 addressed (1) 14:21 Addressing (3) 50:20;101:6;181:15 Adirondacks (1) 190:7 adjourned (1) 191:24 administered (1) 161:24	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1) 119:5 advertising (1) 91:11 advised (1) 158:23 Advisory (1) 53:20 advocacy (3)	89:16,17 afternoon (5) 8:8;12:4;15:6,11; 24:20 again (23) 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 Against (8) 36:21;46:3;62:8; 81:22;88:1;92:7;177:3; 190:1 age (5) 42:2;43:9;110:2,3; 135:22 agencies (7) 19:6;25:3;34:22;45:2;	ahead (5)     30:9;48:5;79:17;     159:21;176:12 aid (2)     11:15;142:4 aids (1)     65:23 ailments (1)     10:25 aiming (1)     25:11 AIR (71)     8:6,10,18,22,24,25;     9:2,2,4,4,5,18,22;10:2,2,     5,7,8,19,22;11:11;13:5;     15:19;16:5,14;21:10;     23:23;27:10;36:16,19;     37:19;38:3;43:14,14,19;     44:4,10,19;47:25;54:9;     76:14;97:5,5,8,9,12;     98:21;120:11,14;	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1) 45:8 alone (7) 13:15;21:4;98:6,7; 122:8;176:11;179:12 along (4) 16:7;46:10;63:19; 168:14 already (15)
21:10;105:22;157:14; 187:8  addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7  additional (1) 142:22  address (10) 66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6  addressed (1) 14:21  Addressing (3) 50:20;101:6;181:15  Adirondacks (1) 190:7  adjourned (1) 191:24  administered (1) 161:24  Administration (22)	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1) 119:5 advertising (1) 91:11 advised (1) 158:23 Advisory (1) 53:20 advocacy (3) 30:17;175:7;185:19	89:16,17 afternoon (5) 8:8;12:4;15:6,11; 24:20 again (23) 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 Against (8) 36:21;46:3;62:8; 81:22;88:1;92:7;177:3; 190:1 age (5) 42:2;43:9;110:2,3; 135:22 agencies (7) 19:6;25:3;34:22;45:2; 99:1;130:11;132:10	ahead (5)	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1) 45:8 alone (7) 13:15;21:4;98:6,7; 122:8;176:11;179:12 along (4) 16:7;46:10;63:19; 168:14 already (15) 36:14;50:5;62:17;
21:10;105:22;157:14; 187:8  addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7  additional (1) 142:22  address (10) 66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6  addressed (1) 14:21  Addressing (3) 50:20;101:6;181:15  Adirondacks (1) 190:7  adjourned (1) 191:24  administered (1) 161:24  Administration (22) 8:13;9:16;13:25;24:5,	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1) 119:5 advertising (1) 91:11 advised (1) 158:23 Advisory (1) 53:20 advocacy (3) 30:17;175:7;185:19 advocate (3)	89:16,17 afternoon (5) 8:8;12:4;15:6,11; 24:20 again (23) 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 Against (8) 36:21;46:3;62:8; 81:22;88:1;92:7;177:3; 190:1 age (5) 42:2;43:9;110:2,3; 135:22 agencies (7) 19:6;25:3;34:22;45:2; 99:1;130:11;132:10 agencies' (1)	ahead (5)	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1) 45:8 alone (7) 13:15;21:4;98:6,7; 122:8;176:11;179:12 along (4) 16:7;46:10;63:19; 168:14 already (15) 36:14;50:5;62:17; 68:20;81:9;83:21;
21:10;105:22;157:14; 187:8  addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7  additional (1) 142:22  address (10) 66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6  addressed (1) 14:21  Addressing (3) 50:20;101:6;181:15  Adirondacks (1) 190:7  adjourned (1) 191:24  administered (1) 161:24  Administration (22) 8:13;9:16;13:25;24:5, 24;32:7;39:24;45:14;	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1) 119:5 advertising (1) 91:11 advised (1) 158:23 Advisory (1) 53:20 advocacy (3) 30:17;175:7;185:19 advocate (3) 18:25;59:15;171:22	89:16,17 afternoon (5) 8:8;12:4;15:6,11; 24:20 again (23) 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 Against (8) 36:21;46:3;62:8; 81:22;88:1;92:7;177:3; 190:1 age (5) 42:2;43:9;110:2,3; 135:22 agencies (7) 19:6;25:3;34:22;45:2; 99:1;130:11;132:10 agencies' (1) 35:14	ahead (5)     30:9;48:5;79:17;     159:21;176:12 aid (2)     11:15;142:4 aids (1)     65:23 ailments (1)     10:25 aiming (1)     25:11 AIR (71)     8:6,10,18,22,24,25;     9:2,2,4,4,5,18,22;10:2,2,     5,7,8,19,22;11:11;13:5;     15:19;16:5,14;21:10;     23:23;27:10;36:16,19;     37:19;38:3;43:14,14,19;     44:4,10,19;47:25;54:9;     76:14;97:5,5,8,9,12;     98:21;120:11,14;     122:15,21;123:17;     124:1,2;125:6,8;133:24;     142:13;148:23;149:5,7,	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1) 45:8 alone (7) 13:15;21:4;98:6,7; 122:8;176:11;179:12 along (4) 16:7;46:10;63:19; 168:14 already (15) 36:14;50:5;62:17; 68:20;81:9;83:21; 105:21;117:4,21,23;
21:10;105:22;157:14; 187:8  addition (7)  14:7;20:1;25:22;28:5, 17;29:3;65:7  additional (1)  142:22  address (10)  66:16;78:2,3,6,10,14;  80:25;127:2;131:25;  133:6  addressed (1)  14:21  Addressing (3)  50:20;101:6;181:15  Adirondacks (1)  190:7  adjourned (1)  191:24  administered (1)  161:24  Administration (22)  8:13;9:16;13:25;24:5,  24;32:7;39:24;45:14;  54:6;59:12;78:20;	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1) 119:5 advertising (1) 91:11 advised (1) 158:23 Advisory (1) 53:20 advocacy (3) 30:17;175:7;185:19 advocate (3) 18:25;59:15;171:22 advocated (1)	89:16,17 afternoon (5) 8:8;12:4;15:6,11; 24:20 again (23) 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 Against (8) 36:21;46:3;62:8; 81:22;88:1;92:7;177:3; 190:1 age (5) 42:2;43:9;110:2,3; 135:22 agencies (7) 19:6;25:3;34:22;45:2; 99:1;130:11;132:10 agencies' (1) 35:14 agency (9)	ahead (5)	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1) 45:8 alone (7) 13:15;21:4;98:6,7; 122:8;176:11;179:12 along (4) 16:7;46:10;63:19; 168:14 already (15) 36:14;50:5;62:17; 68:20;81:9;83:21; 105:21;117:4,21,23; 127:4;146:18;152:1;
21:10;105:22;157:14; 187:8  addition (7) 14:7;20:1;25:22;28:5, 17;29:3;65:7  additional (1) 142:22  address (10) 66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6  addressed (1) 14:21  Addressing (3) 50:20;101:6;181:15  Adirondacks (1) 190:7  adjourned (1) 191:24  administered (1) 161:24  Administration (22) 8:13;9:16;13:25;24:5, 24;32:7;39:24;45:14; 54:6;59:12;78:20; 112:17;115:24;124:17;	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1) 119:5 advertising (1) 91:11 advised (1) 158:23 Advisory (1) 53:20 advocacy (3) 30:17;175:7;185:19 advocate (3) 18:25;59:15;171:22 advocated (1) 139:13	89:16,17 afternoon (5) 8:8;12:4;15:6,11; 24:20 again (23) 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 Against (8) 36:21;46:3;62:8; 81:22;88:1;92:7;177:3; 190:1 age (5) 42:2;43:9;110:2,3; 135:22 agencies (7) 19:6;25:3;34:22;45:2; 99:1;130:11;132:10 agencies' (1) 35:14 agency (9) 8:19;16:14;17:6;24:4;	ahead (5)	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1) 45:8 alone (7) 13:15;21:4;98:6,7; 122:8;176:11;179:12 along (4) 16:7;46:10;63:19; 168:14 already (15) 36:14;50:5;62:17; 68:20;81:9;83:21; 105:21;117:4,21,23; 127:4;146:18;152:1; 157:7;187:8
21:10;105:22;157:14; 187:8  addition (7)  14:7;20:1;25:22;28:5, 17;29:3;65:7  additional (1)  142:22  address (10)  66:16;78:2,3,6,10,14; 80:25;127:2;131:25; 133:6  addressed (1)  14:21  Addressing (3)  50:20;101:6;181:15  Adirondacks (1)  190:7  adjourned (1)  191:24  administered (1)  161:24  Administration (22)  8:13;9:16;13:25;24:5,  24;32:7;39:24;45:14;  54:6;59:12;78:20;	advances (1) 13:5 advantage (1) 154:16 advantages (1) 121:24 adventures (1) 113:5 adverse (3) 8:22;11:2;171:10 adversely (1) 36:15 advertised (1) 119:5 advertising (1) 91:11 advised (1) 158:23 Advisory (1) 53:20 advocacy (3) 30:17;175:7;185:19 advocate (3) 18:25;59:15;171:22 advocated (1)	89:16,17 afternoon (5) 8:8;12:4;15:6,11; 24:20 again (23) 22:9;26:14,21;40:9; 41:10;43:11,25;62:21; 63:12;66:22;69:11; 104:24;109:9;123:1; 129:15;136:9;146:9; 148:24;176:9,9;179:18; 180:5;186:17 Against (8) 36:21;46:3;62:8; 81:22;88:1;92:7;177:3; 190:1 age (5) 42:2;43:9;110:2,3; 135:22 agencies (7) 19:6;25:3;34:22;45:2; 99:1;130:11;132:10 agencies' (1) 35:14 agency (9)	ahead (5)	19:6;49:9;51:13; 83:10,15;87:7;125:11; 126:14;188:15 allowing (3) 49:18;62:9;94:18 all-time (1) 91:13 almost (11) 27:19;28:18;44:13; 64:7;89:19;104:2; 105:11,16;108:13; 127:16;174:22 almost-bankruptcy (1) 45:8 alone (7) 13:15;21:4;98:6,7; 122:8;176:11;179:12 along (4) 16:7;46:10;63:19; 168:14 already (15) 36:14;50:5;62:17; 68:20;81:9;83:21; 105:21;117:4,21,23; 127:4;146:18;152:1;

amphibians (1)	anticipated (2)	53:6	116:13,15,18,19	astounded (1)
98:9	14:16	appreciative (1)	Arrigale (4)	28:18;37:1,3;138:18
amounts (1)	anticipate (1)	12:11;19:10	42:23,24	asthmatic (4)
157:17;160:4	46:20;47:12	appreciates (2)	arrhythmia (2)	25;185:2;189:20
122:14;138:18;156:6;	anthropologist (2)	96:21	90:9	22;174:3;182:6;184:19,
103:11;105:9;107:23;	95:15	appreciated (1)	ARRETTA (1)	57:19;149:1,3;158:22,
72:24;78:16;84:17;	answer (1)	191:23	85:8	12,24;38:8;42:2;54:9;
44:4;58:10;64:10;	182:9	141:12;147:16;172:13;	Arreta (1)	16:16;36:21,22;37:2,
amount (14)	141:1;144:18;147:21;	109:7;125:25;135:8;	166:22	asthma (20)
168:22	120:10;121:5;132:25;	79:9;85:4;86:7;90:21;	array (1)	29:4
93:19;96:16;133:12;	92:3;104:3;115:5;	52:5,10,24;69:12;	177:10	assure (1)
16:1;40:10;68:9;	47:20;60:17;73:16;	appreciate (15)	134:20;171:22,24;	29:7
among (7)	21:16;26:20;29:8,13;	168:14	103:21;107:22;118:7;	assurance (1)
55:10	another (17)	applying (1)	86:9;88:22;100:20;	102:24
America's (1)	18:6,24;187:18	35:14;50:14	18:4,7;20:7;66:12;	assumption (1)
163:18	annually (3)	applauds (2)	around (14)	104:22
142:10;143:6;160:22;	188:1;189:1	170:23;174:12	138.23,23,182.10,11,	Assuming (1)
109:2,10;125:4;137:15;	148:9;156:10;163:24;	135:24;143:8;165:13;	158:23,25;182:10,11,	66:25
9;71:11;96:18;100:14;	45:19;55:1;130:18;	112:16;118:22;125:5;	Arizona (5)	assume (1)
60:6;61:2,5,10,15;70:6,	annual (8)	62:21;76:15;110:6;	36:11;87:25;88:2	185:19
20:4;30:19;34:18,24; 35:2,6;45:18;56:16;	132:19	33:25;48:4;59:13;	arguments (3)	36:6,18;123:13;
20:4;30:19;34:18,24;	announced (1)	applaud (14)	argument (2) 126:25;128:6	<b>Association (4)</b>
<b>Americans (30)</b> 14:11,13,19;19:21;	Ann (2) 80:18;84:24	appears (1) 67:6		associated (3) 11:11;55:4;182:17
164:25;179:2,16	68:11,14	22:17	argue (1) 126:22	36:1;46:20
142:6;157:18;159:17;	animals (2)	appeared (1)	16:1,9;129:24	associate (2)
7;123:13,16;125:7;	59:17	155:7	areas (3)	47:21;153:23;189:17
113:6,10,24;122:1,3,4,	animal (1)	appalling (1)	89:3;176:19	assistant (3)
88:13;93:13;110:25;	84:12	58:1	10;31:11;56:4;66:20;	141:1
35:12;36:6,18;39:1;	angry (1)	Appalachian (1)	11:9,13;22:15;27:9,	assignment (1)
19:14;31:24;33:4;	99:21;130:24	69:8	area (10)	10:3
12:21;14:11;17:16;	Angeles (2)	apologize (1)	111:12,15	Assessment (1)
American (29)	182:9	93:19	ARDRA (2)	168:1
188:11	anecdote (1)	apathy (1)	75:11,17;76:1	aspiring (1)
146:22;172:11;176:23;	85:9;102:12,15	66:13,23	Arctic (3)	134:19
137:5,9;142:16;145:8;	Andrew (3)	apartments (2)	59:16	aspect (1)
31:9;86:21;113:16;	85:10	137:8;146:24;182:13	architect (1)	95:14
America (11)	Andrea (1)	anywhere (3)		asks (1)
25:10;26:2,15	38:12	42:20;131:22;144:1	<b>Arbor (1)</b> 84:24	48:20;140:24;152:9
ambitious (3)	and/or (1)	anyway (3)	189:3	asking (3)
9:4	140:2	88:5;147:14;161:1	98:12;148:11;156:12;	177:6
Ambient (1)	86:16,20;87:1,15,17;	29:9;68:20;84:12;	Arabia (4)	68:5;135:18;139:21;
153:21	ancient (6)	anything (6)	188:10	asked (4)
ambassadors (1)	164:2;184:6	158:25;179:8	Arab (1)	76:5;81:16
151:25	ancestors (2)	anyone (2)	145:19	29:20;62:17;74:8;
amazed (1)	14:22	82:22;182:10	April (1)	ask (5)
127:16;138:24;158:19	analytical (1)	anymore (2)	14:4;61:3;72:16	106:3
14;112:9;122:2;124:2;	159:13	84:12;158:24	approximately (3)	aside (1)
26:12;81:18;95:13,	Amsterdam (1)	anybody (2)	187:25	55:21;87:3
always (10)	8:20	61:22	approving (1)	Asia (2)
138:6;147:12;156:13	AMS's (1)	antitax (1)	156:5	113:19
118:24;123:21;129:4;	8:25;10:7	67:12;68:4	approve (1)	ashamed (1)
57:8;64:5;115:2;	AMS' (2)	antisocial (2)	149:14	65:22
although (9)	8:18;9:6;11:6,13,18	11:14	appropriate (1)	Arts (1)
22;155:9;157:15	<b>AMS</b> (5)	anti-idling (1)	26:16;79:10	65:16
119:23;126:6;143:19,	59:20	13:9;100:7	approach (2)	artist (1)
110.00.1044.1040	50.20	12.0.100.7	1 (2)	4.4(1)

Standards and 1 del Bec	1		I	· /
70:21	AV (1)	ball (2)	90:23;190:12	46:7;112:13;146:12;
ate (1)	43:2	22:20,20	became (6)	167:16
55:21	avail (1)	ballet (1)	20:24;113:22;139:20;	beholden (1)
atmosphere (10)	120:18	22:8	145:25;158:14;187:4	188:15
20:21;21:13;76:10;	available (10)	balls (1)	because (73)	being (23)
81:6;91:23;92:19;	36:17;37:2;61:8,10,	23:8	20:24;29:21;33:8;	15:2;16:1;59:19;
· · · · · · · · · · · · · · · · · · ·	13;64:21;68:7;91:9;	Baltimore (1)	35:3;36:15,19;37:9;	
138:17;154:5,9;181:4 <b>Atmospheric (1)</b>	13,04.21,08.7,91.9,	68:1		64:24,25;85:17;87:10;
<u> </u>	*		38:3;41:24;43:11;45:5,	94:7;96:15;112:25;
54:6	Average (11)	Bangladesh (1)	9;55:19;58:7;61:8,11,	114:18;124:9;125:1;
atrial (2)	8:17;17:8;103:12;	100:21	21;65:17;67:14;68:8,	136:12;145:13;150:25;
42:9,9	109:1,9;122:22;163:22;	bankrupt (3)	10;72:18;73:11;74:13;	162:16;165:25;169:8;
attack (1)	179:2,13,16;185:13	55:19;70:25;71:2	80:11;82:15;83:5,23;	181:17;182:19;184:8;
184:25	avert (1)	barefoot (1)	84:10;86:14;89:22;	190:3
attacks (5)	49:9	22:8	91:17;93:4;95:5,17,18;	beings (2)
16:16,16;28:22;51:8;	avid (1)	barrels (4)	99:19;107:15,20;109:9;	47:9;75:22
65:10	184:16	14:5;34:7;133:3;	117:1;122:2,7;124:4,25;	belief (2)
attempt (2)	avoid (2)	185:17	133:8,20;134:5;139:23;	54:2;96:21
111:19;190:1	44:17;51:13	baseball (1)	140:1;142:11;143:5;	believe (31)
attempts (2)	avoiding (1)	22:14	144:10,13,16;145:17;	19:12,24;26:16;
129:25;173:13	151:8	based (9)	149:23;157:15;160:11,	31:15,24;32:1,19;54:15;
attend (1)	awake (1)	10:6,11;15:18;36:16;	14;163:10;164:20;	60:25;82:25;91:10;
40:2	50:11	96:17;101:3;134:12;	174:7;175:12;176:4;	92:15;93:20;94:12;
attended (1)	award-winning (1)	180:1,1	177:5;178:7,17,18;	114:7,14;126:7;127:3;
44:6	92:9	basic (5)	182:11;184:21;185:5;	128:14;137:2;152:9,15;
attention (3)	aware (3)	25:15;71:12;72:8;	188:20	154:5,24;155:9;172:19;
24:9;44:9;79:21	67:10;93:18;161:21	125:8;163:6	become (5)	175:12;184:2;186:20;
attitude (1)	awareness (2)	basically (5)	26:11;87:18;132:5;	187:23,24
44:16	145:24,25	66:15;74:4;82:4;	150:25;165:15	Bell (1)
			-	
attributed (1)	away (7)	102:22:171:18	becomes (2)	23:19
attributed (1) 139:4	away (7) 40:17:44:5:66:24:	102:22;171:18 basis (1)	becomes (2) 21:8:94:10	23:19 <b>belong (1)</b>
139:4	40:17;44:5;66:24;	basis (1)	21:8;94:10	belong (1)
139:4 attributes (1)	40:17;44:5;66:24; 80:10;84:11;90:25;91:5	basis (1) 54:12	21:8;94:10 Beetle (1)	belong (1) 150:23
139:4 attributes (1) 68:17	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 <b>awesome (1)</b>	basis (1) 54:12 bathroom (1)	21:8;94:10 <b>Beetle (1)</b> 139:23	belong (1) 150:23 belts (2)
139:4 attributes (1) 68:17 authority (1)	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 <b>awesome (1)</b> 191:16	basis (1) 54:12 bathroom (1) 63:9	21:8;94:10 <b>Beetle (1)</b> 139:23 <b>before (12)</b>	belong (1) 150:23 belts (2) 55:13;70:25
139:4 attributes (1) 68:17 authority (1) 8:23	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 <b>awesome (1)</b> 191:16 <b>awful (1)</b>	basis (1) 54:12 bathroom (1) 63:9 battered (1)	21:8;94:10 <b>Beetle (1)</b> 139:23 <b>before (12)</b> 2:7;41:9,23;44:13;	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1)
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27)	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 <b>awesome (1)</b> 191:16	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25	21:8;94:10 <b>Beetle (1)</b> 139:23 <b>before (12)</b> 2:7;41:9,23;44:13; 48:18;75:3;83:19;	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15;	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 <b>awesome (1)</b> 191:16 <b>awful (1)</b> 44:16	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2)	21:8;94:10 <b>Beetle (1)</b> 139:23 <b>before (12)</b> 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8;	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1)
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1;	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 <b>awesome (1)</b> 191:16 <b>awful (1)</b>	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21	21:8;94:10 <b>Beetle (1)</b> 139:23 <b>before (12)</b> 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22,	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4)	21:8;94:10 <b>Beetle (1)</b> 139:23 <b>before (12)</b> 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 <b>beg (1)</b>	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16)
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13,	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16 B bachelor's (1)	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18;	21:8;94:10 <b>Beetle (1)</b> 139:23 <b>before (12)</b> 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 <b>beg (1)</b> 58:11	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9;
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15;	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16 B bachelor's (1) 112:2	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25	21:8;94:10 <b>Beetle (1)</b> 139:23 <b>before (12)</b> 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 <b>beg (1)</b> 58:11 <b>began (2)</b>	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18;
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1;	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16 B bachelor's (1) 112:2 back (26)	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1)	21:8;94:10 <b>Beetle (1)</b> 139:23 <b>before (12)</b> 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 <b>beg (1)</b> 58:11 <b>began (2)</b> 110:10;116:3	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10,
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16 B bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1;	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 begging (1)	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22;
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8 automakers (4)	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16 B bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1; 63:14;64:9;65:1,12;	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25 Bay (1)	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 begging (1) 84:1	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22; 139:22;169:4;191:1,3
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8 automakers (4) 31:7;62:13;110:23;	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16 B bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1; 63:14;64:9;65:1,12; 68:7;69:9;77:10;78:8,9;	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25 Bay (1) 58:4	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 begging (1) 84:1 begin (4)	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22; 139:22;169:4;191:1,3 benefits (7)
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8 automakers (4) 31:7;62:13;110:23; 126:23	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16 B bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1; 63:14;64:9;65:1,12; 68:7;69:9;77:10;78:8,9; 82:11;84:22;88:11;	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25 Bay (1) 58:4 bears (2)	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 begging (1) 84:1 begin (4) 82:15;118:14;158:5;	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22; 139:22;169:4;191:1,3 benefits (7) 9:17;13:21;14:9;
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8 automakers (4) 31:7;62:13;110:23; 126:23 automobile (10)	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16 B bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1; 63:14;64:9;65:1,12; 68:7;69:9;77:10;78:8,9; 82:11;84:22;88:11; 100:5;109:8,10;112:21;	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25 Bay (1) 58:4 bears (2) 75:25;187:5	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 begging (1) 84:1 begin (4) 82:15;118:14;158:5; 180:13	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22; 139:22;169:4;191:1,3 benefits (7) 9:17;13:21;14:9; 25:13;62:10;130:6;
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8 automakers (4) 31:7;62:13;110:23; 126:23 automobile (10) 29:22;70:10,25;71:2,	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16 B bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1; 63:14;64:9;65:1,12; 68:7;69:9;77:10;78:8,9; 82:11;84:22;88:11; 100:5;109:8,10;112:21; 116:4;131:22;140:11;	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25 Bay (1) 58:4 bears (2) 75:25;187:5 bears' (1)	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 begging (1) 84:1 begin (4) 82:15;118:14;158:5; 180:13 beginning (6)	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22; 139:22;169:4;191:1,3 benefits (7) 9:17;13:21;14:9; 25:13;62:10;130:6; 166:17
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8 automakers (4) 31:7;62:13;110:23; 126:23 automobile (10) 29:22;70:10,25;71:2, 7;89:7;94:15;96:20;	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16 B bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1; 63:14;64:9;65:1,12; 68:7;69:9;77:10;78:8,9; 82:11;84:22;88:11; 100:5;109:8,10;112:21; 116:4;131:22;140:11; 150:9;176:15;181:9	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25 Bay (1) 58:4 bears (2) 75:25;187:5 bears' (1) 190:3	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 begging (1) 84:1 begin (4) 82:15;118:14;158:5; 180:13 beginning (6) 48:8;55:13;60:25;	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22; 139:22;169:4;191:1,3 benefits (7) 9:17;13:21;14:9; 25:13;62:10;130:6; 166:17 Benzene (1)
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8 automakers (4) 31:7;62:13;110:23; 126:23 automobile (10) 29:22;70:10,25;71:2, 7;89:7;94:15;96:20; 128:7;159:6	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16 B bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1; 63:14;64:9;65:1,12; 68:7;69:9;77:10;78:8,9; 82:11;84:22;88:11; 100:5;109:8,10;112:21; 116:4;131:22;140:11; 150:9;176:15;181:9 bad (9)	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25 Bay (1) 58:4 bears (2) 75:25;187:5 bears' (1) 190:3 beating (1)	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 begging (1) 84:1 begin (4) 82:15;118:14;158:5; 180:13 beginning (6) 48:8;55:13;60:25; 78:14;156:7,7	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22; 139:22;169:4;191:1,3 benefits (7) 9:17;13:21;14:9; 25:13;62:10;130:6; 166:17 Benzene (1) 10:9
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8 automakers (4) 31:7;62:13;110:23; 126:23 automobile (10) 29:22;70:10,25;71:2, 7;89:7;94:15;96:20; 128:7;159:6 automobiles (5)	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16 B bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1; 63:14;64:9;65:1,12; 68:7;69:9;77:10;78:8,9; 82:11;84:22;88:11; 100:5;109:8,10;112:21; 116:4;131:22;140:11; 150:9;176:15;181:9 bad (9) 40:20;42:3;48:8;64:4;	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25 Bay (1) 58:4 bears (2) 75:25;187:5 bears' (1) 190:3 beating (1) 168:17	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 begging (1) 84:1 begin (4) 82:15;118:14;158:5; 180:13 beginning (6) 48:8;55:13;60:25; 78:14;156:7,7 behalf (8)	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22; 139:22;169:4;191:1,3 benefits (7) 9:17;13:21;14:9; 25:13;62:10;130:6; 166:17 Benzene (1) 10:9 Bergey (4)
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8 automakers (4) 31:7;62:13;110:23; 126:23 automobile (10) 29:22;70:10,25;71:2, 7;89:7;94:15;96:20; 128:7;159:6 automobiles (5) 40:15;82:14;138:15;	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16 B bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1; 63:14;64:9;65:1,12; 68:7;69:9;77:10;78:8,9; 82:11;84:22;88:11; 100:5;109:8,10;112:21; 116:4;131:22;140:11; 150:9;176:15;181:9 bad (9) 40:20;42:3;48:8;64:4; 80:12;97:13;149:5;	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25 Bay (1) 58:4 bears (2) 75:25;187:5 bears' (1) 190:3 beating (1) 168:17 Beatrice (3)	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 beging (1) 84:1 begin (4) 82:15;118:14;158:5; 180:13 beginning (6) 48:8;55:13;60:25; 78:14;156:7,7 behalf (8) 8:11;15:14;33:24;	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22; 139:22;169:4;191:1,3 benefits (7) 9:17;13:21;14:9; 25:13;62:10;130:6; 166:17 Benzene (1) 10:9 Bergey (4) 49:23,25;50:3,4
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8 automakers (4) 31:7;62:13;110:23; 126:23 automobile (10) 29:22;70:10,25;71:2, 7;89:7;94:15;96:20; 128:7;159:6 automobiles (5) 40:15;82:14;138:15; 142:10;159:25	40:17;44:5;66:24; 80:10;84:11;90:25;91:5 awesome (1) 191:16 awful (1) 44:16 B bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1; 63:14;64:9;65:1,12; 68:7;69:9;77:10;78:8,9; 82:11;84:22;88:11; 100:5;109:8,10;112:21; 116:4;131:22;140:11; 150:9;176:15;181:9 bad (9) 40:20;42:3;48:8;64:4; 80:12;97:13;149:5; 159:23;188:4	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25 Bay (1) 58:4 bears (2) 75:25;187:5 bears' (1) 190:3 beating (1) 168:17 Beatrice (3) 116:12;147:5,10	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 begging (1) 84:1 begin (4) 82:15;118:14;158:5; 180:13 beginning (6) 48:8;55:13;60:25; 78:14;156:7,7 behalf (8) 8:11;15:14;33:24; 36:7,7;75:22;96:19;	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22; 139:22;169:4;191:1,3 benefits (7) 9:17;13:21;14:9; 25:13;62:10;130:6; 166:17 Benzene (1) 10:9 Bergey (4) 49:23,25;50:3,4 best (15)
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8 automakers (4) 31:7;62:13;110:23; 126:23 automobile (10) 29:22;70:10,25;71:2, 7;89:7;94:15;96:20; 128:7;159:6 automobiles (5) 40:15;82:14;138:15; 142:10;159:25 automotive (3)	40:17;44:5;66:24; 80:10;84:11;90:25;91:5  awesome (1) 191:16  awful (1) 44:16  B  bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1; 63:14;64:9;65:1,12; 68:7;69:9;77:10;78:8,9; 82:11;84:22;88:11; 100:5;109:8,10;112:21; 116:4;131:22;140:11; 150:9;176:15;181:9 bad (9) 40:20;42:3;48:8;64:4; 80:12;97:13;149:5; 159:23;188:4 bailout (1)	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25 Bay (1) 58:4 bears (2) 75:25;187:5 bears' (1) 190:3 beating (1) 168:17 Beatrice (3) 116:12;147:5,10 beautiful (7)	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 begging (1) 84:1 begin (4) 82:15;118:14;158:5; 180:13 beginning (6) 48:8;55:13;60:25; 78:14;156:7,7 behalf (8) 8:11;15:14;33:24; 36:7,7;75:22;96:19; 102:16	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22; 139:22;169:4;191:1,3 benefits (7) 9:17;13:21;14:9; 25:13;62:10;130:6; 166:17 Benzene (1) 10:9 Bergey (4) 49:23,25;50:3,4
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8 automakers (4) 31:7;62:13;110:23; 126:23 automobile (10) 29:22;70:10,25;71:2, 7;89:7;94:15;96:20; 128:7;159:6 automobiles (5) 40:15;82:14;138:15; 142:10;159:25 automotive (3) 13:7;31:20;91:8	40:17;44:5;66:24; 80:10;84:11;90:25;91:5  awesome (1) 191:16  awful (1) 44:16  B  bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1; 63:14;64:9;65:1,12; 68:7;69:9;77:10;78:8,9; 82:11;84:22;88:11; 100:5;109:8,10;112:21; 116:4;131:22;140:11; 150:9;176:15;181:9 bad (9) 40:20;42:3;48:8;64:4; 80:12;97:13;149:5; 159:23;188:4 bailout (1) 129:25	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25 Bay (1) 58:4 bears (2) 75:25;187:5 bears' (1) 190:3 beating (1) 168:17 Beatrice (3) 116:12;147:5,10 beautiful (7) 23:16;24:10;117:6;	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 begging (1) 84:1 begin (4) 82:15;118:14;158:5; 180:13 beginning (6) 48:8;55:13;60:25; 78:14;156:7,7 behalf (8) 8:11;15:14;33:24; 36:7,7;75:22;96:19; 102:16 behaviors (2)	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22; 139:22;169:4;191:1,3 benefits (7) 9:17;13:21;14:9; 25:13;62:10;130:6; 166:17 Benzene (1) 10:9 Bergey (4) 49:23,25;50:3,4 best (15)
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8 automakers (4) 31:7;62:13;110:23; 126:23 automobile (10) 29:22;70:10,25;71:2, 7;89:7;94:15;96:20; 128:7;159:6 automobiles (5) 40:15;82:14;138:15; 142:10;159:25 automotive (3)	40:17;44:5;66:24; 80:10;84:11;90:25;91:5  awesome (1) 191:16  awful (1) 44:16  B  bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1; 63:14;64:9;65:1,12; 68:7;69:9;77:10;78:8,9; 82:11;84:22;88:11; 100:5;109:8,10;112:21; 116:4;131:22;140:11; 150:9;176:15;181:9 bad (9) 40:20;42:3;48:8;64:4; 80:12;97:13;149:5; 159:23;188:4 bailout (1) 129:25 balance (3)	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25 Bay (1) 58:4 bears (2) 75:25;187:5 bears' (1) 190:3 beating (1) 168:17 Beatrice (3) 116:12;147:5,10 beautiful (7)	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 begging (1) 84:1 begin (4) 82:15;118:14;158:5; 180:13 beginning (6) 48:8;55:13;60:25; 78:14;156:7,7 behalf (8) 8:11;15:14;33:24; 36:7,7;75:22;96:19; 102:16	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22; 139:22;169:4;191:1,3 benefits (7) 9:17;13:21;14:9; 25:13;62:10;130:6; 166:17 Benzene (1) 10:9 Bergey (4) 49:23,25;50:3,4 best (15) 20:1;66:6;81:19;
139:4 attributes (1) 68:17 authority (1) 8:23 auto (27) 14:8;18:14;19:15; 20:5;32:3;35:12;39:1; 45:8;46:1,2;55:13,22, 24;56:17;61:13;88:13, 14,16;91:8;97:15; 112:18;115:7;126:1; 151:21,24;152:10;177:8 automakers (4) 31:7;62:13;110:23; 126:23 automobile (10) 29:22;70:10,25;71:2, 7;89:7;94:15;96:20; 128:7;159:6 automobiles (5) 40:15;82:14;138:15; 142:10;159:25 automotive (3) 13:7;31:20;91:8	40:17;44:5;66:24; 80:10;84:11;90:25;91:5  awesome (1) 191:16  awful (1) 44:16  B  bachelor's (1) 112:2 back (26) 28:24;44:6;46:9;48:1; 63:14;64:9;65:1,12; 68:7;69:9;77:10;78:8,9; 82:11;84:22;88:11; 100:5;109:8,10;112:21; 116:4;131:22;140:11; 150:9;176:15;181:9 bad (9) 40:20;42:3;48:8;64:4; 80:12;97:13;149:5; 159:23;188:4 bailout (1) 129:25	basis (1) 54:12 bathroom (1) 63:9 battered (1) 167:25 batteries (2) 18:23;76:21 battle (4) 112:20;114:4,18; 176:25 battles (1) 167:25 Bay (1) 58:4 bears (2) 75:25;187:5 bears' (1) 190:3 beating (1) 168:17 Beatrice (3) 116:12;147:5,10 beautiful (7) 23:16;24:10;117:6;	21:8;94:10  Beetle (1) 139:23 before (12) 2:7;41:9,23;44:13; 48:18;75:3;83:19; 100:17;102:6;127:8; 145:8;177:6 beg (1) 58:11 began (2) 110:10;116:3 begging (1) 84:1 begin (4) 82:15;118:14;158:5; 180:13 beginning (6) 48:8;55:13;60:25; 78:14;156:7,7 behalf (8) 8:11;15:14;33:24; 36:7,7;75:22;96:19; 102:16 behaviors (2)	belong (1) 150:23 belts (2) 55:13;70:25 bench-lined (1) 22:4 beneficiaries (1) 169:13 benefit (16) 12:21;25:24;32:9; 77:13;79:13;96:18; 110:14;111:2;120:10, 24;126:9;127:22; 139:22;169:4;191:1,3 benefits (7) 9:17;13:21;14:9; 25:13;62:10;130:6; 166:17 Benzene (1) 10:9 Bergey (4) 49:23,25;50:3,4 best (15) 20:1;66:6;81:19; 82:16,21;88:18;112:11;

Standards and 1 del Eco	momy standards			Junuary 15, 2012
183:23;190:23	35:6;173:19	76:15	Brandywine (1)	141:7
	bills (1)	Bolivia (1)	46:21	
bet (1)		` *		bucket (3)
179:8	81:12	100:22	brazenly (1)	94:1,6,9
betray (1)	biological (1)	bombarded (1)	112:22	Bucks (1)
187:22	110:14	94:7	break (3)	135:23
better (24)	bipartisan (3)	bonus (1)	90:14;106:7;150:8	budget (3)
33:4;35:7;43:5;51:19;	17:22;19:20,23	115:4	breaking (1)	25:21;37:10;165:7
54:19;68:22;74:13;	birder (1)	book (1)	60:21	budgets (1)
81:17,24;83:16,17;	88:20	92:8	break-neck (1)	97:18
107:20;115:19,25;	birding (3)	boon (1)	16:9	Bug (2)
119:7;120:11;121:6;	86:6;88:24;89:1	33:8	breath (3)	159:9;162:11
122:13;139:1;152:2;	birds (1)	boost (4)	15:24;16:18;29:8	Bugg (4)
161:6;168:11;185:24;	128:4	26:18;31:9;32:21;	breathable (1)	56:24;57:2,5,6
187:20	bird-watcher (1)	46:1	120:14	buggy (1)
between (6)	86:5	borders (1)	breathe (4)	169:9
18:6;29:1;121:3;	Bishops (2)	87:3	29:5,7,16;123:17	building (7)
132:7;142:1;179:14	153:22;154:14	born (2)	breathing (1)	89:5;92:22;130:16,
beyond (4)	bit (6)	42:2;138:6	182:12	21;131:1,2;141:2
139:9;148:13;155:13;	58:16;80:11;103:21;	borne (1)	breeding (1)	built (4)
157:20	172:25;183:10;187:21	126:12	24:1	72:4;110:18;133:5;
bias (1)	black (7)	BOROUGH (4)	brief (2)	155:13
187:23	48:1;64:8;85:9;94:21,	27:2,7,22;28:6	111:19;173:1	bulk (2)
biased (1)	23;95:1,2	borrow (2)	briefly (2)	100:10;167:5
129:22	blame (1)	137:1;164:3	67:13;102:23	bundle (2)
bible (2)	92:25	boss (1)	bright (1)	56:5;77:25
72:14;100:4	blessed (2)	43:25	21:19	burden (1)
bicycle (1)	120:15;151:14	Boston (1)	brilliant (1)	60:11
28:12	blizzards (1)	140:10	137:6	burdened (1)
big (18)	54:6	both (20)	bring (8)	62:17
23:6,15;27:24;28:10;	block (4)	25:4;37:15;38:23;	11:8;22:24;23:14;	Burger (3)
59:14;101:24;115:7;	43:2;63:24;64:2;69:1	47:6;64:9;65:9;85:25;	52:18;88:11;117:20;	11:24;12:1,4
121:1;129:25;133:23;	blocks (2)	121:24;123:12;127:21;	144:9;166:18	burned (1)
144:15;146:14;148:3;	118:21;119:14	131:15;142:14;149:3;	bringing (3)	51:7
151:8;159:17;160:25;	blood (5)	154:19;156:23;165:7;	25:9;95:21;133:1	burner (1)
161:6;170:21	42:25;64:11,12;65:2,	178:11,12;181:13;182:7	brings (2)	82:12
-	3	bottom (1)	78:22;181:16	
<b>bigger (2)</b> 94:5;109:5	Blum (5)	32:21	broader (1)	burning (2) 114:11;155:12
biggest (7)	85:9;102:10,12,15,15	bought (2)	89:9	bus (1)
35:9;124:22;146:5;	Blumenstock (3)	27:24;38:22	broken (1)	166:10
154:25;163:10,15;	169:25;170:2,5	Boulevard (7)	54:4	buses (2)
176:10	blunt (1)	63:21,22;65:12;	bronchitis (2)	119:15;166:9
	17:14	66:10,15,20;68:25	` '	· ·
<b>bike (4)</b> 77:10;132:7,12;	Board (4)	boundaries (2)	38:9;92:1 <b>Brooklyn (1)</b>	<b>Bush (1)</b> 181:20
	3 7	` '		
151:12	15:15;53:20;88:18;	16:6;27:9	140:10	business (26)
biking (1)	116:20	bountiful (1)	brother (2)	27:11;28:21;30:12,
28:13	boats (1)	117:7	68:23;136:24	16,16,17,18,25;31:15,
bill (6)	23:25	boys (3)	brother-in-law (1)	19,24;32:8,13,14,17,19,
58:11,12,25;64:12,19;	bodies (2)	22:16,17,20	56:1	22;33:3;55:14;72:4;
127:20	147:22;148:16	BP (2)	brothers (1)	95:15;126:11;129:18,
billion (16)	bodily (1)	72:13;127:10	40:11	25;160:9;184:16
14:5;18:6,24;34:10;	42:14	brains (1)	brought (4)	businesses (13)
60:7;73:6;74:14;	body (6)	67:16	34:21;44:9;65:24;	19:16;30:20,23;31:2,
110:12,17;148:10;	42:13,15;46:7;64:17;	brand (1)	100:13	12;32:24;33:5,9;51:10;
155:4;156:11;180:2;	66:3;67:23	165:5	BS (1)	72:5;92:23;133:23;
185:17;187:18;188:20	bold (4)	brands (1)	141:25	134:12
billions (2)	26:15;39:24;54:17;	152:1	bubble (1)	busy (1)
	I	I .	I .	1

Standards and 1 del Lec	moiny Standards	1	T	Junuary 15, 2012
111:17	12;57:6,13;58:11;66:6;	9;104:9,11,12,20,22;	carpool (2)	category (1)
Butera (6)	67:2,13,16;68:21;76:3,	105:19,22;106:1,22;	144:18;155:20	144:7
71:19,21,24,25;76:6,7	5,13;79:1;80:22,22;	107:4,13;108:11,17,18,	carried (1)	Cathie (2)
buy (6)	83:12;84:7;86:10,10;	21,23;109:3,5;119:9,10,	36:17	116:11;135:13
61:6;76:19;97:22;	88:21;89:18;91:10,11;	10,10;120:13;122:1,4,7;	carry (1)	Catholic (2)
104:9;151:6;153:5	93:1,21;97:8;102:5;	137:1;140:2;144:6,7,13,	144:18	153:22;154:13
buying (4)	104:25;106:5,8;113:2,4;	16;152:1,7;153:3,5;	cars (77)	cause (2)
56:2;73:12;74:11;	114:1;118:14;120:1;	157:11;159:9,17;	12:15,23;13:17;	67:17;185:12
151:7	124:22;128:6;129:23;	160:15,20;164:18,21;	15:22;16:2;24:7;28:15;	caused (3)
byproduct (1)	130:10,11;131:5;134:8,	166:24,25;176:8,23;	31:17;34:3,5,21;35:7;	81:15;128:4;140:19
77:20	14;135:11;137:21;	177:12,16,17;178:20;	38:19;45:15;51:5;58:9,	causes (2)
	140:11,14,16,23;	185:15;187:3,13	17;59:11;68:24;70:3,4,	42:11;171:23
$\mathbf{C}$	143:14;144:3,16;146:3,	CARB (1)	4;73:12;77:19,20;	caving (1)
	8,13,24,25;147:8;	14:22	78:21;96:23;98:2,5;	169:6
cabs (1)	149:25;151:19;155:18,	Carbon (15)	99:20,22;103:22;	<b>CELEBRATION (4)</b>
159:14	22;156:13;157:8,10,14;	10:10,15;15:22;34:8;	106:24;108:25;115:13;	50:1,7,13;51:20
cadmium (1)	159:22;160:24,24,25;	101:20;124:14,23;	116:4;118:23;119:4,19;	cent (1)
67:16	166:18;174:18;177:6;	133:14;134:6;138:19;	120:2;122:3,12;124:19;	104:17
<b>CAFE (5)</b>	180:9;181:15;182:15,	142:12;157:5;159:5;	126:24;139:14;140:13,	CENTER (15)
29:21;128:15;162:1;	16;183:11,11;184:23;	165:3;171:4	15;142:11;143:22;	12:2,10;21:15;36:2;
163:3;164:5	186:16	card (2)	148:22;152:2;157:10,	50:1,7,8,13;51:20;94:4;
California (4)	Canada (2)	34:23;37:14	22;159:7,12,13,15,19;	96:10;119:13;153:25;
31:20;110:17;161:8;	98:12;108:3	cardiovascular (2)	160:3,21,25;165:2,4;	166:5,21
177:22	cancer (6)	10:24;38:10	169:8;170:16,25;	cents (10)
call (10)	10:4,6,18;65:8;92:2;	cards (1)	174:13;176:21;177:4,	91:6;103:1,6;104:12,
29:13;43:24;52:14;	166:15	22:6	10,18,19,22,25;179:22;	12,15,16,20,23;115:3
78:11;79:8;148:19;	candidate (2)	care (29)	184:21;186:22	century (4)
154:10;156:4;178:5,21	131:18,19	35:3,25;36:5;37:7,7,	car's (1)	86:21;92:17;182:5;
called (8)	cannot (9)	11;40:4,4;50:18;53:11;	76:21	183:17
42:9;43:2;140:3;	14:6;76:11;93:3;	54:12;65:13;68:10;	cartels (1)	CEO (2)
168:2;171:17;178:9,14;	120:22;125:4;127:11;	84:14;112:14;122:22;	60:8	139:20;140:18
184:18	155:16;163:12;179:23	123:21,23;125:1;157:1;	Carter (5)	CEOs (1)
calling (2)	cans (1)	160:17,18;166:14,19;	13:25;112:22;113:13;	
48:20;178:3	146:21	167:4,4;168:4,5;191:5	116:3;146:11	ceremony (1)
came (9)	can't (26)	cared (2)	Carter's (1)	113:1
22:14;32:17;80:24;	21:4;29:5,6,7,16;	90:20;145:23	113:23	certain (3)
87:2,5;169:8;175:15;	43:12;49:5;51:2;55:22,	career (1)	carts (1)	38:14;49:13;68:4
178:11;183:7	24;65:2;76:2,16;79:7;	106:2	177:10	certainly (9)
Campaign (4)	108:16;110:23;127:6;	careful (3)	case (6)	62:6;64:18;114:2,17;
9:10;33:23;113:14;	145:17;146:14;158:3;	43:19;92:5;129:21	42:3;67:22;84:13;	120:24;149:5;175:17,
136:20	168:16;169:16;174:7;	carefully (2)	94:13;104:11;130:9	23;179:7
campaigns (1)	176:6;181:19;182:10	38:21;156:8	cases (1)	certification (1)
91:11	Canyon (1)	cares (1)	66:24	130:15
camping (1)	190:6	50:21	cash (3)	Certified (3)
144:21	cap (1)	caretakers (1)	45:18;146:18,20	2:9,10;142:4
Campus (2)	75:10	66:9	cataloging (1)	chair (1)
46:21;47:4	capabilities (2)	Caribbean (1)	117:12	36:5
can (120)	81:20;101:20	132:22	catastrophic (6)	chairman (1)
10:23,24,25;14:13,16,	capacities (1)	caring (2)	101:13;139:11;173:8,	139:16
20;18:15;21:9,13;	86:3	40:16;169:24	9,13,15	chairs (1)
23:11;24:9,11;25:16;	capacity (3)	Carol (3)	catch (3)	52:16
26:1,8;29:21;30:9;31:7,	53:22;87:12,14	85:9;96:5,8	23:7;69:9;95:25	challenge (1)
12;35:9;38:14;43:1,5,	` /	Carolina (1)	catcher's (2)	14:20
14,17;44:25;46:7,22,23, 23,24;47:16;49:6;51:5;	31:24;38:18;57:25;	108:7	22:14,19	challenges (3)
52:18,19,21;53:18;56:9,	58:1,3,19;61:7;66:11,	carousel (1)	categories (1)	40:23;67:11;78:15
32.10,17,21,33.10,30.9,	11;98:7;99:19;103:7,8,	23:16	144:6	challenging (1)

167:15	checks (1)	CHURCH (5)	27:14	cling (1)
chance (9)	29:11	39:12,16,16,17;50:9	civilization (3)	73:3
42:22,23,25;86:8;	Chemical (4)	CIA (1)	82:17;86:19,22	Clinton (1)
109:2;125:3;161:18;	70:12,16,19;126:5	73:9	civilizations (2)	9:14
175:25;176:3	chemicals (1)	Cicerale (4)	86:17;87:12	clock (1)
Chandler (1)	64:16	116:13;123:7,10,11	claim (1)	171:24
182:13	chemistry (3)	cigarette (1)	158:14	close (8)
change (49)	98:20;112:2,4	55:11	clarify (1)	38:16;66:23;79:20;
22:1;26:1;40:12;47:4,	Cherilyn (1)	Circle (1)	50:4	95:18;140:24;143:17;
10,18;49:3,19;50:17;	2:8	21:22	Clark (4)	146:24;176:20
51:2;53:25;59:17,25;	Chesapeake (1)	circles (1)	153:9,13,16,20	closed (1)
74:21,25;75:2,6,20;	58:4	94:4	class (2)	132:25
76:2;82:13;84:5;93:21;	chest (3)	circuitry (1)	42:6;79:3	closely (1)
98:23;100:1;101:2,6,9;	42:13;44:4;161:19	43:3	Clean (27)	60:18
108:10;114:6,7,10;	Chester (1)	circumvented (1)	8:25;11:8;16:24;17:3;	closer (4)
117:5,10,23;118:6;	157:2	44:18	20:21;44:19;68:25;	105:10,13;109:2;
119:1;126:7,10,14;	Chestnut (3)	cited (1)	97:5,7;123:17,17;124:1,	116:4
127:3;134:16,17;150:7;	50:9;153:23;156:25	128:11	1;125:6,8;163:7,7;	closing (1)
153:22;154:14;156:1;	CHET (1)	Cities (8)	170:13;174:10;176:8,	26:14
163:16;173:7;185:7	2:16	9:9,13;36:23;37:5;	23;177:9,12,17,18,22;	Club (13)
changed (1)	chief (2)	120:12;121:3;132:7,9	178:20	20:17;33:15;35:14;
44:12	70:11;114:1	CITIZEN (61)	clean-car (1)	57:11;96:15;99:12,16;
changes (15)	child (5)	20:14,17;24:18;	54:18	100:17;123:13;124:25;
25:10;43:4;75:24;	67:25;124:6;143:11;	35:22;41:17;46:16;	cleaner (14)	125:3;150:23;154:23
101:18;108:20;111:1;	145:20;157:1	47:2;53:3;57:3;59:5,8;	13:2;16:2;34:21;35:6;	Club's (2)
117:21;118:5;131:1;	childhood (1)	63:3;69:22,25;71:22;	36:9;37:19;93:12,14;	33:23,24
146:6,14;161:7;170:21;	125:2	72:2;77:6;80:5;85:14;		clutch (1)
171:2;185:5	children (28)	86:7,10;90:10;94:24;	166:10;185:24;189:22	140:3
Channel (1)	` '			CO2 (5)
83:8	20:22;23:1,12,13,25;	96:6,9,13;98:19;106:14,	18:14;21:6;40:5;	24:8;55:1;98:21;
chapters (1)	37:1,2,3;38:7;67:9,10;	17;109:21;111:13;		128:8;139:6
39:20	72:3;77:12,14;78:7;	118:18;121:17;123:8;	48:17,17;110:13;135:2;	
	79:13;135:20;136:14;	125:22;126:5;128:21,	154:23	coal (1) 114:4
characteristics (1)	138:23;142:1;143:5;	24;135:14;138:3;147:6,	Clearly (1)	coal-fired (7)
129:17	145:13;158:22;164:3;	15;150:15;153:17;	37:12	` /
charge (1)	166:12;168:3;174:3;	156:19;158:9;162:22,	clients (1)	55:2;127:19,25;
76:19	185:1	25;164:11;165:23;	166:21	133:13;163:24;179:20; 188:3
charging (1)	children's (2)	170:3,12;172:22;175:7;	Climate (61)	
19:2	67:16;111:3	180:16;181:17;183:3;	9:9,12,13,14;26:1;	coalition (4)
Charitable (1)	China (2)	184:13;186:9;189:14;	40:12;47:4,10,18;49:3,	11:10;34:16;153:22;
17:4	113:22;133:5	190:20	19;50:17;51:2;53:25;	185:18
Charlie (3)	choice (3)	Citizens (11)	54:3;59:16,25;64:24;	coalition's (1)
56:24;57:2,5	93:5;106:21;107:3	12:5,21;16:12;48:20;	74:20,24;75:2,6,19,24;	34:17
Charlotte (3)	chokepoints (2)	64:22;70:14;97:9;	76:2;98:23;100:1,16,24;	coal-powered (1)
116:10;118:17,20	18:4,7	135:4;164:25;168:5;	101:2,6,9,12,23;108:4,	45:22
chart (1)	chosen (3)	175:8	10;114:6,7,10;117:5,9,	Coast (1)
187:5	61:14;62:15;118:4	<b>CITY (26)</b>	23;118:6;119:1;126:3,7,	63:20
chase (1)	Christ (1)	8:5,11,19;21:15,18,	10,14;127:2,3;134:16,	Code (1)
23:8	39:17	19,24,25;24:13;36:3;	17,20;152:16;153:22;	8:24
chatting (1)	Christie (1)	37:14,14;47:23;70:13;	154:14;156:1;163:16;	codifying (1)
22:5	134:3	96:10,14;107:22;	173:7,9;181:8	14:7
cheaper (1)	chronic (3)	119:13,16;120:18,19;	climate-disrupting (1)	coincidence (1)
127:7	37:21;38:9;91:25	150:24;151:3;166:5,21;		88:12
cheaply (1)	chronicled (1)	190:14	climb (1)	<b>cold</b> (1)
95:20	54:6	City's (1)	47:13	107:23
checked (1)	chronological (1)	11:15	climbing (1)	Colgan-Davis (4)
149:9	111:25	Civic (1)	23:13	85:8,13,16,17
		·		

-				
collaboration (2)	commended (1)	101:4	132:22	conserve (1)
25:2;36:22	14:23	compelling (2)	conclude (1)	120:2
collaborative (1)	comment (2)	79:23;127:14	179:15	consider (8)
14:21	17:5;121:21	compete (1)	condition (2)	49:1;75:23;76:18;
collapse (1)	comments (4)	133:4	42:9;65:20	127:23;128:3;148:4,5;
95:16	12:12;77:1;85:6;	competition (2)	conditioning (2)	186:13
colleague (1)	178:19	45:11;46:3	13:6;44:5	considerable (2)
36:20	commissioned (1)	competitiveness (2)	conditions (4)	25:19;48:4
colleagues (2)	19:20	18:16;19:15	37:21;38:4,15;174:4	consideration (2)
69:10;78:25	commitment (7)	complete (1)	condone (1)	20:8;25:1
collective (1)	29:15;60:19;130:7,	110:10	81:23	considering (3)
70:3	22;131:5;171:21;172:2	completed (1)	conducted (1)	50:23;72:7;76:25
Colleen (4)	committed (2)	157:1	129:18	consistent (2)
41:14,16,20,21	11:19;28:15	completely (1)	cones (1)	49:8,14
College (9)	committee (1)	81:6	22:6	consistently (1)
36:4;43:22;145:9,13,	36:3	complex (1)	Conference (1)	144:1
14;153:23;156:25;	common (5)	187:11	9:13	consolidate (1)
164:18;168:13	37:22;89:3;94:12;	compliance (1)	confidence (1)	93:8
combat (2)	123:25;172:8	9:21	71:9	constantly (1)
108:10;163:16	commonly (1)	complicated (1)	confidential (1)	107:23
combating (1)	12:6	81:8	52:5	construction (1)
188:5	commonwealth (3)	compliment (1)	confined (1)	132:9
combination (1)	16:9,12;69:25	25:7	16:5	Consulate (1)
64:18	communal (1)	component (1)	conflicts (2)	130:23
combined (1)	155:24	37:25	51:14;60:9	consultant (1)
131:7	communications (1)	components (1)	congratulations (1)	166:4
come (30)	114:21	13:5	172:16	consulting (1)
22:22;23:11;35:4;	Communism (1)	Compounds (1)	Congregation (2)	142:3
36:12;39:18;40:8;	136:12	10:14	39:17,19	consume (1)
42:18;48:1;57:15;	communities (5)	comprehend (1)	congregations (1)	34:6
63:14;80:12;87:19;	67:4;101:1;171:22;	99:3	39:21	consumed (1)
99:4;110:15;111:3;	172:4,9	comprehensive (1)	Congress (1)	185:23
113:20;114:2;126:4;	community (7)	164:23	17:22	consumer (12)
132:2;136:15;145:3;	40:11,20;43:23;	comprised (1)	congressional (1)	19:3;64:21;73:23;
146:4,24;168:15,17;	50:21;89:17;126:17;	38:7	44:7	74:2,6;114:24;115:11;
170:11;171:2;177:23;		compromise (1)	congressman (2)	122:23;127:21;128:7;
186:14,24	community-based (1)	49:11	44:7;45:24	181:18;185:13
Comella (6)	174:2	concentrating (1)	connected (1)	consumers (8)
116:11;138:1,2,5,6;	commute (5)	31:6	59:24	17:14;19:16;33:3;
140:17	98:7;102:24;103:2,	concentration (1)	connecting (1)	35:11;51:11;73:20;
comes (7)	23;104:25	9:24	28:13	74:17;177:18
40:14;69:2;98:10;	commuting (3)	concern (3)	connections (1)	consumers' (1)
127:5;136:22;179:22;		32:18;91:20,24	87:8	179:13
185:7	compact (1)	concerned (18)	conscience (1)	consuming (1)
coming (17)	144:13	47:1;53:21;56:13;	136:22	131:3
27:5;36:6;48:2;52:10;	companies (8)	72:2,2,4;73:17;89:12;	consensus (3)	consumption (11)
63:12;69:11;84:22;	31:25;32:15;39:1;	96:13;99:5;106:17;	40:10,19;126:16	12:16;19:3;62:3;
96:10,10;100:17;102:4;	55:9,11;88:15,17;	107:21;118:25;122:2;	consequences (5)	76:17;130:18;131:9;
109:15;124:7;150:21;	110:18	126:5;142:7;170:12;	85:21;96:24;100:11;	148:9;156:10;157:24;
167:22;173:13;184:10	company (3)	173:5	152:25;156:8	185:16;189:1
Commander (1)	29:13;146:15,22	concerns (4)	consequent (1)	contemplating (1)
114:1	compare (1)	24:5;98:18;108:15;	59:24	73:15
commencing (1)	47:16	125:8	CONSERVATION (3)	context (1)
2:6		concert (1)	102:13,16;119:18	148:7
commend (1)	compared (1) 28:4	129:3	conservative (1)	continent (1)
26:14			179:5	125:7
40.14	compelled (1)	concerts (1)	1/7.3	143.1
-	•	•		•

	1		I	
continental (1)	co-ops (1)	126:11;130:19;141:10;	couple (3)	15:17;25:9;142:15;
111:24	151:11	164:19;185:14;191:5	86:18;105:15;136:2	176:9
continents (1)	coordinate (1)	cough (1)	coupled (2)	critically (1)
54:8	36:24	37:24	61:17;62:2	41:25
continual (1)	coordinated (1)	<b>could</b> (43)	couples (1)	Croix (1)
91:19	49:8	13:15;18:23;19:2;	103:19	132:20
continuation (1)	COORDINATOR (2)	38:6;42:1;43:1,6;44:18;	courage (1)	crops (1)
13:21	30:12,15	52:5;54:19,20;58:17,19,	123:2	86:24
continue (17)	copies (2)	20;62:1,4,9;64:14;66:1,	course (13)	croquet (1)
14:24;20:4;24:9;	23:18;116:24	3;83:20,22;95:19;	23:17;26:9;66:19;	22:11
98:14;115:10,24;122:8,	copy (1)	96:11;98:8;105:9;	71:11;80:22;105:11;	crossovers (1)
9;125:10,15;126:10;	111:22	109:4;124:3;134:17,23;	106:3;122:14;159:21;	97:25
129:4;148:4;155:16;	cords (1)	139:10;140:3,4;144:3;	168:21,23;173:6;178:9	crowded (1)
158:4;170:24;184:23	144:23	149:4;153:1;157:18;	courses (1)	120:12
continued (2)	core (1)	158:5;167:1;174:9;	168:18	Crowne (1)
	154:14		Court (3)	2:5
113:16;116:2		187:13,18;189:1	` /	
continues (2)	corn (1)	couldn't (7)	2:9,10;150:7	cruise (1)
23:22;134:12	157:17	65:6,14;66:10;80:12;	covered (3)	107:7
continuing (4)	corner (3)	87:21;107:15;137:1	64:8;75:16;95:6	crust (1)
16:7;115:18;126:13;	63:25;66:17;172:2	Council (5)	cowering (1)	54:14
145:15	corny (1)	9:10;27:2,7,22;	136:18	cue (1)
contrary (1)	86:9	130:16	crazy (1)	43:20
167:14	Corporate (4)	count (1)	169:9	cultural (2)
contribute (3)	8:17;56:8;64:23;	93:21	cream (1)	119:17;166:22
21:12;38:24;172:14	126:9	counties (1)	22:6	culture (2)
contributed (1)	corporate-funded (1)	151:24	create (10)	89:25;145:20
48:15	61:22	counting (1)	46:4;48:13;49:12;	curb (1)
contributes (3)	Corporation (1)	94:14	71:8;73:17;74:7;	142:13
133:14;157:16;165:9	18:5	countless (1)	126:12;148:17;185:16;	curbing (1)
contributing (3)	corporations (3)	190:4	191:4	35:4
11:5;114:11;126:18	48:12;49:14;186:4	countries (17)	created (6)	curiosity (1)
contributions (1)	Corps (1)	14:2;37:19;51:12;	21:20;70:22;73:22;	113:3
146:20	171:18	60:8;73:5,6;88:14;	92:17;93:8;129:1	currency (1)
control (12)	correct (3)	98:11,14;100:23,25;	creating (3)	167:21
8:19,25;9:2;21:11;	42:16;126:24;142:23	101:24,25;121:2;133:9;	49:18;77:21;101:6	current (8)
43:13,14;126:15;	Corridor (1)	142:17;188:13	creation (10)	26:18;39:4;50:24;
127:10;182:8,15,16;	16:7	country (35)	40:3;50:1,7,14;51:20;	97:21;102:18;112:16;
188:22	cost (33)	19:24;28:21;37:18;	55:6;93:15;101:11;	129:12;177:17
conversation (1)	19:11,16;28:25;	45:16;46:9;50:25;	154:10,17	currently (5)
126:19	31:11;32:17;39:2;56:6;	84:25;89:25;101:9;	creativity (3)	15:2;127:17;138:12;
convert (1)	70:9;73:23;74:3;91:18,	112:6,10,25;115:18;	71:3,9;151:19	157:3;171:16
102:20	18;98:5;103:1;104:23;	116:1;121:25;129:3,9;	Creator (1)	curtail (1)
conviction (1)	105:1,3;110:12,20,22;	131:5;136:9,17;137:10;	154:9	48:11
113:25	120:5,6;121:4;122:16,	152:21;155:1;160:2,6;	creators (1)	curtailing (1)
convince (1)	17;127:16;128:1;134:6;	161:6;170:14;171:22;	31:2	120:13
115:21	142:11;151:8;159:25;	172:9;176:22;185:24;	creature (3)	curtails (1)
convinced (1)	164:20;173:19	188:8;189:23;190:6;	75:23;90:22;93:17	48:24
160:23	costing (1)	191:2	credits (2)	curve (1)
convincing (3)	34:10	country's (4)	125:12;146:18	159:21
36:11;47:7;114:9	costly (1)	30:24;50:22;60:4;	crisis (8)	curvy (1)
Cooke (4)	97:16	114:24	40:6;81:11;139:14;	107:7
20:11,13,16;21:4	costs (21)	countryside (2)	140:18,18,20;151:19;	customer (1)
cooling (1)	19:3;25:17,20;28:8;	106:19;107:3	152:17	29:13
141:3	32:13,18;71:12;91:13;	county (6)	criteria (3)	cut (18)
cooperative (1)	103:8,15;105:6,22;	36:19;41:23;135:23;	9:17,22;83:10	32:12;45:19;74:5,12;
9:7	103.8,13,103.0,22,	163:15;170:9;174:1	9.17,22,83.10 critical (4)	
7.1	113.11;120:20;122:22;	105.15,170.9,174.1	Citucal (4)	110:22;124:23;130:16;

·	1			
148:9;156:10;157:5;	deadline (2)	50:21;167:4;173:5	110:8	38:14
163:18,21,23;165:2;	141:14,15	defect (1)	depend (3)	determined (1)
182:16;185:16;188:1;	deal (1)	42:17	70:9;134:21;148:18	90:15
189:1	85:20	defend (3)	depended (1)	determining (1)
cute (1)	dealerships (1)	18:3;136:11,17	65:7	11:5
137:4	55:24	defending (1)	dependence (26)	detrimental (1)
cutting (4)	dealing (1)	18:6	13:24;14:2;17:16;	180:3
34:15;35:5;152:20;	152:25	defense (1)	18:1,11;19:19,22;20:1;	Detroit (4)
175:22	dealt (1)	45:3	26:7,8;60:1,5,21,24;	20:24;138:7;139:18;
cynicism (1)	13:25	deficient (1)	73:4;79:13,19;124:23;	149:15
191:19	dear (1)	36:16	138:22;142:17;163:19;	devastating (2)
	136:20	definitely (2)	165:10;171:5;173:12;	60:10;134:18
D	death (2)	46:6;109:7	174:14;181:16	develop (2)
-	13:20;43:7	deforestation (1)	dependency (2)	17:17;37:23
dad (2)	debatable (2)	128:2	108:1;155:7	developed (1)
65:16,21	54:1;67:18	deGrasse (1)	dependent (1)	121:2
damage (7)	debate (3)	114:12	87:2	developing (6)
10:24;42:25;67:16;	81:22;126:13;143:25	degree (2)	depending (3)	39:3;101:25;106:2;
81:5;127:10;128:4;	<b>Debbie</b> (1)	112:4;148:2	16:13;56:18,20	151:5,10,11
152:20	189:15	degrees (1)	depends (3)	development (7)
damaging (1)	DEBORAH (1)	145:15	72:19,20,20	13:2;16:8;17:18;
106:6	189:13	Delaware (3)	depletion (2)	18:12,15,18;73:18
danger (1)	debt (1)	41:22;95:10;170:9	81:4;98:23	devote (1)
173:12	60:11	Delaware-based (1)	deployment (2)	51:4
dangerous (5)	decade (3)	95:3	18:19,25	devoted (1)
60:4;68:4;165:9,11;	43:16;64:11;187:3	deliberations (1)	depreciation (2)	121:1
188:14	decades (7)	154:3	104:11,12	devotion (1)
dangers (2)	45:9;61:13;62:14,19;	delighted (1)	derail (1)	188:18
17:25;48:3	117:11;132:2;142:15	71:6	169:6	diabetes (3)
Data (5)	<b>December (1)</b>	deliver (1)	described (1)	38:11;92:3,4
10:8;36:16;68:6;85:2;	93:7	12:19	31:18	diagnosed (1)
100:1	decide (2)	DeLorean (1)	describing (1)	166:15
daughter (3)	41:10;42:19	116:5	150:21	dialogue (1)
155:9;171:16;182:7	decided (2)	demand (7)	description (1)	126:15
daughters (4)	146:23;168:12	55:3,25;77:24;93:14;		diameter (1)
52:15,22;53:8;138:23	7	152:13;167:24;177:9	descriptions (1)	181:5
David (3)	34:13;43:8;53:16;	demanding (3)	21:23	<b>Diane</b> (3)
116:11;125:21,24	56:19;99:2;129:8;	177:18,18;178:19	designed (3)	116:13;141:21,24
Davidson (1)	133:21;156:9	demands (1)	18:11;134:20;157:11	dictators (1)
144:24	decisions (6)	18:17	<b>designing</b> (1)	167:9
day (40)	20:19;44:11;129:25;	Democrat (1)	25:3	did (16)
22:25;34:7,10;41:8;	134:12;135:4;155:21	178:14	desperation (1)	47:14;55:17,17;
42:6;47:14,25;54:14;	decline (1)	Democrats (1)	118:7	63:10;82:2,3;83:19;
55:12;59:17;60:15;	88:25	178:13	Despite (2)	84:17;91:17;95:14;
67:4;69:2,5;73:6;74:15;	decrease (4)	demonstrated (1)	113:23;145:13	99:4;119:7;141:6,8;
77:11;84:9;98:7;103:6,	18:10;78:16;142:12;	31:21	destroy (1)	184:5,6
7,10,13,16,25;104:2,3;	174:14	demonstrates (1)	45:25	didn't (13)
110:20;111:19;133:3;	decreases (1)	71:8	destroyed (1)	55:15,18;68:15;
143:2,13;145:19,24;	13:19	demonstrating (1)	190:4	87:15,17;95:16;106:21;
171:25;175:18,19;	decreasing (2)	37:19	destruction (1)	113:9;143:22;158:19;
182:20;185:17;186:18	79:12,19	denial (2)	92:21	168:23;181:23;182:14
days (5)	dedication (2)	92:14;126:10	destructive (2)	die (1)
9:24;37:15;66:2;	112:18;113:1	densely (1)	21:11;188:24	177:7
104:25;158:25	deep (2)	176:22	details (1)	died (3)
DC (3)	15:24;181:12	Department (4)	89:22	65:9;92:2,3
69:9;113:21;130:14	deeply (3)	8:10;17:6;59:13;	deterioration (1)	Diesel (5)
	acepij (5)	0.10,17.0,57.15,	acterioration (1)	

-				
11:4,7,8,9,16	discouraged (1)	15;132:17,21;136:5,5,7;	55:11;62:19;68:20;	141:16
diesel- (1)	83:18	137:5,5,6,12,15;140:4;	82:20;83:2;91:22;93:2;	<b>Dr</b> (6)
92:20	discourse (1)	141:2;142:17;144:9;	108:14;122:18;140:11;	35:19,24;53:5;67:15;
diesel-powered (1)	48:7	146:13,23,24;147:12,	144:3,3;152:13;157:8;	68:13;114:12
11:12	discuss (1)	14,15;151:21;152:21;	162:7	draft (1)
diet (1)	98:8	155:23;156:13,13;	Donna (3)	112:19
67:21	discussion (3)	157:21;158:15;160:6,	59:2,4,8	drag (1)
Difference (11)	47:4;160:12;186:15	24;161:16;164:1;166:9,	don't (55)	187:8
11:9,16;16:3;83:20;	disdain (1)	14,19;167:4;168:4,7;	24:2;28:14;33:19;	dramatic (2)
84:4,17;104:21;125:4;	45:5	169:14,17;174:18,21;	41:2;42:10;44:8;51:13;	43:16;110:24
146:4;156:2;159:2	disease (3)	176:2;181:13;183:11,	62:16,16;65:4;66:16;	dramatically (5)
different (6)	38:10;65:9;68:16	12;184:2;185:6;186:16;	69:19;73:20;75:18;	43:4;47:18;49:19;
23:12;40:5;131:6;	diseases (7)	187:11,20;188:7;	78:3,6,10;80:15;81:23;	101:20;166:7
145:8;177:1,15	37:21;59:19,23;	189:23,23	83:3;84:2,10,11,16,18;	drastic (1)
difficult (4)	68:14;134:22;182:17;	doable (2)	93:4;97:20;98:20;	92:16
61:25;99:2;185:5;	191:6	27:18;185:22	99:18;100:18;103:20;	drastically (1)
187:11	dishonor (1)	docket (1)	104:21;107:13;108:4,	129:14
difficulty (1)	154:9	52:6	11;120:24;135:17;	dream (3)
64:22	disincentive (1)	doctor (1)	137:17;139:6;151:1;	116:1;145:3;168:18
digress (1) 57:13	121:5	43:2 doctors (1)	153:5;154:7;160:17,19;	drilling (1) 55:4
	display (3)	43:5	165:1;166:11;173:14,	
diminish (1) 155:18	47:19;171:20;172:4 <b>disposed (1)</b>		16,19,23;176:1;180:24;	drink (1) 123:17
diminishing (2)	26:13	documentary (1) 92:9	181:13;185:4;187:2 <b>door (4)</b>	drip (1)
72:17;119:21	disregard (1)	does (12)	63:25;64:5;66:18;	54:13
dinner (1)	134:1	66:20;84:15;85:21;	168:17	drive (21)
143:1	disrepair (1)	93:21;99:22;127:23;	doorbell (1)	27:14;34:5;73:11,12;
dioxide (2)	136:25	128:1,3;152:22;167:16;	90:6	95:22;99:18;103:21;
133:14;138:19	distance (3)	179:11;182:7	DOT (2)	104:9;105:3,20,23;
direct (2)	105:1;121:5;187:13	doesn't (7)	19:5,9	104.9,103.3,20,23,
25:20;103:7	distinction (1)	85:21;98:6;106:20;	double (2)	144:5,13;157:3;160:25,
directed (2)	16:1	143:2;144:17;167:2;	17:11;118:2	25;184:1
9:1;45:13	disuse (1)	179:16	double-commuting (1)	driven (1)
direction (5)	166:25	dog (1)	105:15	190:21
15:23;118:11;124:21;	diverse (1)	109:5	doubt (1)	driver (1)
128:15;149:20	11:10	dogs (6)	26:2	119:20
directly (7)	dividends (1)	23:5,6,6,6,6,9	<b>DOUG</b> (2)	drivers (3)
68:5,17;81:14;89:18;	26:3	doing (24)	175:1,5	91:14;98:6;107:24
103:24;131:15;188:12	division (1)	12:25;27:25;32:17;	DOUGLAS (2)	drives (5)
DIRECTOR (8)	8:11	58:10;76:4;78:1;84:6;		38:21;89:13;103:12;
8:6,9;50:6;73:9;	dizziness (2)	85:2;90:16;91:6;95:18;	Dowell (6)	121:3;172:1
106:4;153:24;175:3,6	42:13;44:3	114:8;117:2;131:7;	30:8,11,14,15;52:3,7	driving (11)
disagree (1)	do (109)	137:10;141:13;151:24;	down (24)	77:19;99:22;103:1,7;
126:25	21:4,7,9,9;24:6,8,9;	152:16;153:4;157:4;	26:4;45:22;63:25;	104:19,23;107:6,16;
disagreements (1)	26:16;27:20;31:4,25;	173:21,22;187:23;189:8	66:17;97:20;107:7;	119:22;121:5;160:3
81:10	32:1;41:9;42:7;45:2,7;	dollars (11)	112:24;118:14;132:24;	drop (2)
disappointing (1)	48:23;53:21;54:23,24;	18:6;60:7;71:12;73:6;	136:1;139:7;140:10;	94:4,7
129:17	56:9,20;57:19,25;62:15;	74:14;98:14;112:9;	141:6;151:3;155:22;	drought (2)
disappointment (1)	66:12,17;68:21;69:9;	115:3,16;173:19;188:21	157:5;165:2;168:16;	100:7;128:10
101:24	73:24;82:13;84:7;	domestic (4)	177:20;179:19;182:16;	drove (6)
disaster (2)	85:21;86:13,13;87:24;	13:8;60:13;142:15,21	184:1;187:7;188:3	103:8;119:9;140:9;
49:9,16	89:5,25;96:24;98:6,15,	domestically (1)	downstream (1)	177:10;183:16,17
disclosure (1)	16,22;100:8;102:5;	51:12	76:23	drums (1)
138:10	107:15;110:5,6;115:20;	Don (3)	Downtown (1)	60:15
discourage (1)	120:2;122:16,20;	68:13;183:2,5	2:5	dry (2)
97:23	125:11;126:21;129:14,	done (15)	dozens (1)	158:24;166:25
	I.	I		<u> </u>

dual-commuting (1)	58:4;60:7	117:20;138:20;146:5;	115:4;179:5;188:4	10:15,16;11:3,4,6,7;
103:12	easy (3)	161:25	el (3)	17:10;47:22;117:15;
dubious (1)	25:18;139:22;152:12	effective (2)	57:21,22;67:5	133:16;134:6
15:25	eat (2)	105:21;118:9	elect (1)	EMISSIONS (35)
due (5)	113:9;136:5	effects (18)	167:11	2:2;8:16;9:18,18;
10:19;11:2;115:8;	ecological (2)	8:22;25:17,21,23;	elected (5)	10:11,12,19;16:4;24:8;
127:25;128:2	92:24;151:18	47:17;59:16;78:5;	27:12,21;34:20;	25:23;40:14;68:23;
dues-paying (1)	economic (29)	97:13;111:1;117:4;	135:6;160:10	69:3;76:22;89:19;
57:8	12:19;17:14;25:15,	155:19,25;171:7,10;	election (4)	91:21;92:18;97:4,10;
Durban (1)	17;30:21,24;33:5;39:4;	188:6;190:2;191:6,13	131:11,13,14,18	98:21;101:17,21;
101:23	40:22,24;48:15;49:10;	efficiency (67)	elections (1)	117:13,19;128:8;135:1,
during (6)	72:9,19;73:16;77:23;	9:8;15:21;17:12;19:8,	136:20	2;139:6;148:20;155:20;
19:7;65:14;70:23;	81:11;82:7,9;96:18;	13;20:5;27:23;28:16;	electric (10)	157:21;159:5;163:24;
75:17;100:9;162:4	99:6;128:14;151:18;	29:22;31:5,17;32:4,20,	18:12;19:1;76:19;	171:4;177:22
duty (2)	154:15;173:11;186:25;	23;34:2;35:15;39:5,25;	108:17,22;127:20;	emit (1)
146:13;191:12	187:20;191:1,4	45:12,14;48:6;51:5;	136:7;145:1;170:20;	37:24
dwell (1)	economical (1)	54:18;55:15,21;59:11;	177:25	emitter (1)
100:1	97:23	60:22;62:2;78:21,24;	electrical (1)	100:16
dwindle (1)	economically (4)	79:5;82:24;88:6,16,18;	43:3	emitters (1)
167:23	60:10;88:7;121:24;	99:25;102:18;106:23;	electrician (1)	133:14
	151:7	107:19;108:9;110:4,24;	156:23	emotional (1)
<b>E</b>	economics (1)	111:1;120:4;121:9;	electricity (2)	136:3
l. (22)	127:19	124:20;126:1;129:13;	127:18;130:17	emphysema (2)
each (23)	economies (1)	130:8,23;132:15;	electrics (1)	38:9;92:1
22:18,20;29:1;52:9;	96:21	138:14;139:14,21;	109:1	employ (1)
57:14;67:4;91:20;94:5;	economist (1)	140:13;147:18;164:21;	element (1)	27:12
103:3;104:25;105:1,3,5;	126:3	166:8,18;167:2;170:25;	25:15	employees (2)
112:7;116:7;127:24;	ECONOMY (49)	171:12;172:6;177:19;	elementary (1)	30:20;132:12
144:7,11;146:3;151:6,6; 168:7;187:13	2:3;8:17;12:8,22;	184:20;186:21;188:1	42:5	employers (1)
earlier (2)	13:18;15:3;17:9,21,23;	efficient (20)	elevated (1)	32:16
149:11;182:10	18:1;19:19,25;25:10,14;	12:18;13:3;26:10;	57:22	employment (2)
early (4)	31:3;32:9;33:1,7,9;35:8,	35:7;38:18;51:6;61:6,	elevation (1)	145:11,15
13:14;57:14;110:17;	13;38:21,25;40:18;	19;70:4;91:7;115:13,	37:15	empty (1)
175:15	45:25;49:7;55:7;60:13;	14;120:7;122:11;	elicit (1) 151:20	161:4
earned (1)	68:22;73:3;74:15;78:5;	126:23;131:24;132:5;		enable (1) 50:25
112:4	81:2;98:1;104:20;	142:11;170:16,18	elimination (1) 54:24	
earth (21)	108:16;109:3,9;122:24;	<b>effort (5)</b> 49:8;52:11;108:10;	ELIZABETH (2)	enact (1) 146:1
20:20;21:13;24:10;	147:23;148:15;151:16; 152:16;161:23;171:5;	110:10;115:20	153:16,19	enacted (1)
75:24;83:6;90:22;	174:13;179:25;180:2;	efforts (14)	eloquently (1)	17:13
123:20;136:13;143:7;	187:8	14:22;26:17;31:6;	95:7	enacting (1)
145:19,24;153:25;	ecosystems (1)	34:12,17;35:15;37:13;	else (4)	16:17
154:6;155:5,15;164:2;	122:19	62:21;78:18;96:19;	29:17;99:17;152:21;	encounter (1)
173:18,22;180:25;	ectopic (2)	97:12;112:16;125:5;	182:14	47:15
181:5;191:17	42:9,9	142:20	e-mail (1)	encourage (5)
earthquakes (1)	edited (1)	eh (1)	43:24	62:3;115:13;135:24;
139:3	116:23	69:17	embargoes (1)	143:7;151:21
easier (2)	educate (1)	eight (7)	14:1	encouraged (2)
127:7;152:23	34:12	53:9;77:13;104:4,6;	Embassy (2)	112:23;135:19
easily (6)	education (6)	110:3;140:11;176:20	130:14,20	encourages (1)
14:21;71:4;133:22;	45:4;112:14;130:1,7;	eighth (1)	emergency (6)	14:25
139:10;144:3;181:6	135:22;168:25	86:5	28:19,20,25;29:23;	encouraging (1)
East (4)	educational (1)	Eighty (2)	36:24;116:22	130:1
63:20;133:6;137:9;	132:22	103:16;104:1	Emily (2)	end (8)
167:7	effect (8)	either (6)	53:9,9	26:8;35:10;47:25;
eastern (2)	41:7;60:3;89:9;97:4;	29:16;108:22;113:2;	emission (11)	60:18;64:1;113:13;

118:14;143:15	130:6	171.22.105.10.106.25	16:10;104:4;163:4,8	96.10.112.5.162.15.
ended (1)	enough (18)	171:23;185:19;186:25 environmentalism (1)	Essentially (2)	86:19;113:5;163:15; 169:20;176:10
95:18	10:1;31:25;58:13;	136:11	55:21;105:12	every (32)
ending (1)	62:14;67:11;68:24;	environmentalists (2)	establish (1)	14:20;19:24;28:18;
157:23	70:24;71:1;97:22;	178:3,5	145:11	29:1;34:7,10;37:1;40:7;
endorse (2)	100:14;118:8;145:18;	environmentally (4)	established (2)	41:7;42:6;54:14;59:17;
117:1;118:11	156:7;158:21;164:22;	86:22;142:8;146:16;	16:11;21:17	60:8,15;74:15;75:23;
endorsement (1)	168:6;169:16;176:12	187:22	esteem (1)	77:10;83:25;86:19;
39:18	ensure (6)	envisions (1)	53:14	90:22;91:1,24;93:17;
ends (1)	19:11;20:20;93:10;	25:8	estimate (3)	98:7;103:9;104:18;
128:3	123:19;125:6;130:21	envy (1)	102:25;103:2;179:5	123:16;134:19;146:22;
energy (47)	enter (1)	115:20	estimated (4)	151:4;157:18;171:19
9:8;12:2,10;16:24;	126:13	EPA (49)	55:6;61:2;127:24;	everybody (10)
17:3;27:23;28:3,8,9,16;	Enterprise (1)	2:14;8:12;9:15;10:2;	185:11	41:21;53:5;54:21;
32:23;39:2,5;50:22,24;	12:11	12:24;14:22,25;19:5;	estimates (3)	85:23;99:17;111:22;
88:6;110:9;112:16;	enthusiastic (1)	24:23;26:15;33:25;	18:5;73:21,21	139:22;145:21;149:8,23
113:12,24;114:25;	115:22	36:17;39:23;44:14,24;		everyday (1)
115:1;119:1;120:2;	entire (4)	45:1,5,13;48:4;54:17;	104:14	108:11
126:6;130:8,23;131:2,9;	45:22;94:8;110:19;	56:14,20;59:13;62:8;	eternal (1)	Everyone (12)
132:5;138:14;139:13;	133:18	63:13,15;68:1,5;73:21;	114:19	33:19;79:1;80:21,21;
143:19,22;151:10;	entirely (1)	78:17;79:7,11;83:24;	ethanol (4)	82:8;83:7,21;84:15;
155:9;170:19;172:6;	26:8	85:21;90:16;93:7,11,14;	157:14,15,16,18	92:12;125:16;150:4;
181:12,15,16,18,19;	entrepreneur (1)	94:13;102:2;115:9;	ethical (2)	161:11
182:2,15;191:9,9	27:11	130:2;132:14;133:6;	154:2;186:1	everyone's (2)
energy-saving (2)	entrepreneurs (2)	143:2;147:17;149:19;	Europe (7)	25:21;144:5
130:25;131:6	31:8;32:11	160:13;178:9	133:2;137:8;151:25;	everything (10)
enforce (1)	entrepreneurs' (1)	EPA/NHTSA (2)	153:2,7;159:10,25	21:9;68:19,21;81:2;
97:2	33:1	2:2,8	European (2)	82:1;83:17,25;84:7;
enforcement (3)	entrust (1)	EPA's (2)	129:6,16	90:23;95:6
93:10,15;121:11	99:2	10:7;45:24	even (32)	everywhere (7)
enforcing (1)	environment (40)	equal (1)	28:21;29:14;32:5;	33:6;58:5;107:15;
94:15	12:8,11;35:8;40:16;	13:16	38:13;41:2;54:12;56:1;	123:22;159:14;161:10;
engaged (1)	53:12,15;57:9;59:9;	equaling (1)	57:24;61:16;62:10;	171:7
146:16	67:24;74:21;77:22;	76:21	66:14;81:19;91:5;	evidence (4)
engine (1)	81:1;82:17,20;83:15;	equality (1)	97:25;103:9,20;107:20;	47:8;53:25;75:1;
91:4	90:21;93:13;107:17;	112:15	108:11;124:7,15;127:2;	150:1
engineer (5)	115:4;121:25;122:24;	equally (1)	141:13;145:2,9;146:22;	evidently (1)
95:12;126:5;143:4;	127:11;129:9;131:8;	31:21	159:14;165:6;169:2,19;	48:18
170:10;180:19	141:22;142:6;145:22,	equals (2)	170:6;171:10;179:20	exacerbate (1)
engineers (2)	22;147:22;148:16;	29:22;104:14	evening (17)	10:24
71:4,10	154:19,20;158:21;	equip (1)	24:15,21;30:14;59:2;	exact (1)
engines (2)	160:17,18;171:4;	33:4	90:12;99:14;111:16;	84:14
11:12;91:7	172:16;175:2,6;176:3	equivalent (11)	116:18;123:10;128:23;	exactly (4)
enhance (3)	<b>Environmental (45)</b>	17:10;45:21;55:2;	153:10;156:21;164:13;	49:3;79:4;94:9;95:22
12:7;18:17;19:14	9:11;12:20;14:9;	74:5;103:11,17;104:6;	166:2;182:20;183:5;	example (15)
enhanced (1)	16:13;17:6;24:4;25:23;	105:12;148:11;156:11;	186:11	64:1;68:16;113:3;
26:18	26:3;40:6,21,23;45:2;	179:19	event (1)	115:24;127:11,17;
enhancing (1)	46:25;54:15;56:14;	ERICA (3)	139:11	130:12,13,14;131:4;
48:10	59:15;65:4;68:17;	30:11,15;52:3	events (4)	132:10,17,19;186:2;
enjoy (8)	72:10;74:20;75:13;	especially (13)	20:7;119:17;171:8;	190:3
21:16;23:13,15;	80:19;81:6;82:7,10;	23:5;100:25;101:24;	173:9	examples (2)
58:17,18;93:6;119:17;	93:10;95:4,11;102:1;	119:23;120:11;129:6;	eventually (5)	128:11;190:4
123:18	106:2,4;112:19;123:19;	137:13;138:17;149:1;	37:23;60:20;68:10,	exceed (1)
enjoying (2)	124:16;130:9;140:25;	151:25;173:9;180:4;	24;157:23	10:6
22:6;124:1	143:4;158:15;162:25;	190:14	ever (8)	exceedingly (1)
enormous (1)	163:9,11;170:10;	essential (4)	26:8;66:5;83:20;	165:15
-				

excellent (6)	185:3;187:2	facing (3)	18;158:18;163:22;	82:8;101:3;107:7;
54:12;120:15;164:23;	expertise (2)	22:17;49:3;145:8	168:21;170:15;180:22;	108:5,7;136:7,10;137:9,
168:13,25;169:3	98:19;154:24	<b>fact</b> (13)	187:19	20;148:3;185:21;
except (2)	experts (3)	32:21;40:12;54:1;	family's (1)	190:19
77:11;159:14	18:23;99:1;127:3	85:18;86:7;90:13;	187:7	feeling (2)
exception (1)	explain (2)	102:2;119:4;131:12;	famine (1)	43:24;44:3
9:23	32:18;43:5	148:8;158:16,19;179:3	128:10	fees (1)
exceptions (1)	explaining (2)	factor (2)	famous (1)	98:2
49:12	100:6;158:16	11:5;114:12	23:18	fell (2)
exchange (1)	explore (1)	factors (1)	fancy (1)	146:12;168:23
127:22	157:20	112:14	144:14	Felley (4)
exciting (1)	explored (1)	facts (8)	far (6)	15:5,8,11,12
113:5	151:23	86:1;92:13;99:24;	43:21;67:4;83:22;	fellow (1)
excuse (2)	explosion (1)	103:24;129:10;143:3;	118:14;127:2,7	70:14
54:4;69:15	181:7	178:18;185:9	Farally (7)	fellowship (1)
executive (2)	exportable (1)	failed (2)	85:10;111:9,9,10,12,	171:19
36:3;50:6	73:19	55:20;127:1	15,16	felt (4)
exercise (1)	exports (1)	failure (2)	farmers (2)	47:7;83:21;124:8;
79:3	18:17	100:11;113:23	100:18,24	137:15
<b>exhaust (1)</b> 16:3	Exposure (3)	<b>fair (3)</b> 60:11;62:16;143:12	fascinating (1) 68:2	<b>few (17)</b> 21:23,24;27:19;
exile (1)	10:23;38:13;64:14	-	fast (1)	
124:8	express (2) 72:6;98:18	<b>fairy (2)</b> 143:12;145:3	152:20	38:16;44:2,6;48:14; 49:18;54:3;61:8,9;92:6;
existence (1)	expressing (1)	faith (10)	faster (1)	49:18;54:5;61:8,9;92:6; 112:9;115:16;118:23;
83:12	191:23	50:21;71:14,14;	82:18	119:13;159:15
exists (4)	expulsion (1)	93:19;117:2;154:2,4,10,	father (10)	fewer (1)
44:24;54:20;117:22;	92:20	22;155:17	22:13,19;72:2;92:1;	165:7
180:21	extending (1)	faith-based (1)	100:3;110:2;126:4;	field (9)
exorbitant (1)	130:7	54:2	155:8;170:12;184:16	45:4;89:2,4;106:4;
109:3	extension (1)	faithful (1)	fathers (1)	126:6;145:10;175:3,6;
expect (2)	14:10	40:22	183:23	185:3
14:14;158:18	external (1)	faiths (1)	favor (2)	fieldwork (1)
expectancy (2)	127:16	118:5	92:22;126:1	47:25
11:1;166:16	externalities (3)	fall (3)	favorably (1)	fifth (2)
expected (1)	26:3;127:23;128:13	22:25;169:2,20	26:12	41:5;53:10
148:17	extra (2)	falling (1)	favorites (1)	fight (2)
expedient (1)	49:18;105:9	112:13	96:16	87:20;181:19
190:22	extracted (1)	Fallon (1)	fear (2)	fighting (1)
expenditure (1)	108:2	2:10	78:7;184:24	167:22
97:20	extracurriculars (1)	fallout (1)	fears (1)	fights (1)
expense (3)	168:19	173:11	48:10	100:7
119:20;133:23;187:4	extreme (3)	fame (1)	fed (1)	figure (1)
expenses (2)	77:11;100:6;128:10	158:14	157:18	161:12
14:12;105:6	extremely (2)	familiar (1)	federal (18)	figures (2)
expensive (4)	83:10,11	132:23	8:25;17:20;19:13;	99:24;110:16
28:23;103:22;127:9;	eyes (3)	families (9)	26:18;32:1;53:17;93:9;	figuring (1)
179:10	54:14;75:4;111:7	14:11;20:6;22:24;	119:25;131:25;133:19;	161:10
experience (8)	_	23:10,11,14;36:25;	135:3;143:19;146:1,2,5;	<b>fill</b> (1)
38:17;47:7,14,20;	F	91:17;191:2	156:3,4;172:5	187:14
78:4;81:12;185:4;187:5		family (27)	feed (1)	filled (2)
experienced (1)	fabulous (1)	29:15;37:11;46:9;	34:9	23:23;159:13
155:6	57:14	61:4;65:9;68:24;78:24;	feedback (1)	filling (2)
experiences (3)	face (4)	80:16,17;81:13;90:24;	75:5	155:12;187:3
47:2,11;85:25	74:23,23;78:15;79:24	112:5;115:16;116:22;	feel (18)	fills (1)
expert (6)	faces (2)	122:22;143:1,17;	46:5;47:2;62:13;	128:7
126:3;143:3,4;159:3;	64:5;152:17	144:10;148:25;154:8,	74:25;80:21;81:18;	<b>film</b> (1)
-	1	<u> </u>	<u> </u>	<u> </u>

92:11				
O42 : (4)	161:24;173:2;176:23	176:17;180:23	forms (1)	Franklin (2)
filter (1)	firsts (1)	follow (2)	114:2	21:21;23:10
47:24	75:18	83:24;116:25	forth (2)	frankly (1)
final (4)	fiscal (1)	followed (1)	19:5;77:10	163:17
35:16;125:11;180:10,	106:5	117:16	fortunate (1)	free (13)
10	fish (1)	following (2)	90:20	23:7,7,7;56:7;75:11,
finalize (1)	128:4	92:11;159:11	forum (2)	16;126:24;127:1,14,19,
15:1	five (9)	fondness (1)	81:21;84:9	22;128:1,2
finalized (1)	10:8;38:19;75:12;	78:9	forward (10)	Frenchmen (1)
13:1	98:11;109:4;110:3;	food (6)	25:4;35:16;39:7,24;	113:9
Finally (8)	139:8;142:1;184:3	67:24;100:7;112:9;	52:19;112:25;115:2;	frequency (1)
	five-hour (1)	133:24;151:7,9		173:8
26:5;56:7;69:4;89:13;	` '	-	123:2;177:21;182:21	
101:5;111:8;112:3;	105:20	footing (1)	fossil (17)	frequently (3)
143:16	five-year (2)	39:6	51:1,3,5;55:10;64:10;	21:16;165:4,5
financed (1)	19:10;141:14	<b>footprint</b> (6)	65:1;76:17;81:3,7,15;	fresh (1)
103:22	five-year-old (2)	89:10,10,11;142:12;	113:17;114:11,24;	125:6
finances (1)	99:20;100:3	157:5;165:3	117:15;151:4;152:16;	friend (4)
187:7	five-years-olds (1)	force (1)	155:12	95:9;143:17;149:23;
financial (3)	174:1	71:16	foster (1)	182:11
70:11;185:7;186:3	fix (2)	forced (1)	33:5	friendly (1)
financially (1)	83:1;173:21	92:11	fought (1)	86:22
142:7	flares (1)	forces (5)	167:19	friends (11)
<b>find</b> (5)	54:9	165:7;167:13;168:21;	<b>foul</b> (1)	22:5;78:25;80:15;
57:21;95:13,23;	flecks (1)	169:6,7	173:18	101:2;123:24;124:3;
105:5;182:1	64:8	Ford (2)	found (9)	143:6;145:16;160:14;
finding (1)	fleet (2)	90:24;91:4	19:20;31:14,23;	166:21;168:22
136:17	18:13;132:11	Ford's (1)	114:6;122:10;152:5,9;	frightening (1)
finds (2)	fleet-wide (1)	157:10	181:19;188:10	134:13
97:16;148:23	17:8	foreclosures (1)	Foundation (2)	frightens (1)
<b>fine</b> (3)	<b>flew</b> (1)	97:19	70:12,17	133:25
9:23,25;65:22	177:3	forego (1)	founded (2)	Frisbees (1)
			(-)	I Habees (I)
finish (1)	flexibilities (1)	91:15	30:18;145:24	23:7
<b>finish (1)</b> 134:14	flexibilities (1) 125:12		` '	23:7 frogs (1)
	` /	91:15	30:18;145:24	23:7
134:14	125:12	91:15 foreign (16)	30:18;145:24 <b>founder (1)</b>	23:7 frogs (1)
134:14 <b>finished (1)</b>	125:12 flexibility (1)	91:15 <b>foreign (16)</b> 14:1,2;18:11;19:22;	30:18;145:24 founder (1) 95:2	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6,
134:14 <b>finished (1)</b> 68:6	125:12 flexibility (1) 25:7	91:15 <b>foreign (16)</b> 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5,	30:18;145:24 founder (1) 95:2 founding (1) 21:25	23:7 frogs (1) 59:20 from (140)
134:14 finished (1) 68:6 Finishing (1)	125:12 flexibility (1) 25:7 flied (1)	91:15 <b>foreign (16)</b> 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16;	30:18;145:24 founder (1) 95:2 founding (1) 21:25	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6,
134:14 <b>finished</b> (1) 68:6 <b>Finishing</b> (1) 134:10	125:12 flexibility (1) 25:7 flied (1) 90:25	91:15 <b>foreign (16)</b> 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14;	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10)	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16;
134:14 finished (1) 68:6 Finishing (1) 134:10 finite (2)	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1)	91:15 <b>foreign (16)</b> 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5;	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1;
134:14  finished (1) 68:6  Finishing (1) 134:10  finite (2) 71:10;72:17	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25	91:15 foreign (16) 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11 forever (1)	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11;	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24;
134:14  finished (1) 68:6  Finishing (1) 134:10  finite (2) 71:10;72:17  Finland (5)	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2)	91:15 foreign (16) 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11 forever (1) 143:24	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18;
134:14  finished (1) 68:6  Finishing (1) 134:10  finite (2) 71:10;72:17  Finland (5) 128:25;130:5,10;	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2) 54:7;100:6	91:15 foreign (16) 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11 forever (1) 143:24 forget (2)	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22 four-way (1)	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18; 38:12;40:14;45:10;
134:14  finished (1) 68:6  Finishing (1) 134:10  finite (2) 71:10;72:17  Finland (5) 128:25;130:5,10; 131:10,16	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2) 54:7;100:6 flourish (2)	91:15 foreign (16) 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11 forever (1) 143:24 forget (2) 95:4;98:10	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22 four-way (1) 66:22	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18; 38:12;40:14;45:10; 47:11;48:16;51:12;
134:14  finished (1) 68:6  Finishing (1) 134:10  finite (2) 71:10;72:17  Finland (5) 128:25;130:5,10; 131:10,16  Finnish (2)	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2) 54:7;100:6 flourish (2) 55:17;134:24	91:15 foreign (16) 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11 forever (1) 143:24 forget (2) 95:4;98:10 forgive (1) 172:25	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22 four-way (1) 66:22 fracking (2)	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18; 38:12;40:14;45:10; 47:11;48:16;51:12; 55:10,11;56:7;57:21;
134:14  finished (1) 68:6  Finishing (1) 134:10  finite (2) 71:10;72:17  Finland (5) 128:25;130:5,10; 131:10,16  Finnish (2) 130:14,23	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2) 54:7;100:6 flourish (2) 55:17;134:24 flow (1) 98:14	91:15 foreign (16) 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11 forever (1) 143:24 forget (2) 95:4;98:10 forgive (1)	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22 four-way (1) 66:22 fracking (2) 139:4;142:21	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18; 38:12;40:14;45:10; 47:11;48:16;51:12; 55:10,11;56:7;57:21; 63:15,16;65:9;67:23,24;
134:14  finished (1) 68:6  Finishing (1) 134:10  finite (2) 71:10;72:17  Finland (5) 128:25;130:5,10; 131:10,16  Finnish (2) 130:14,23  Finns (1) 131:20	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2) 54:7;100:6 flourish (2) 55:17;134:24 flow (1)	91:15 foreign (16) 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11 forever (1) 143:24 forget (2) 95:4;98:10 forgive (1) 172:25 forgotten (1)	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22 four-way (1) 66:22 fracking (2) 139:4;142:21 fraction (1) 164:25	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18; 38:12;40:14;45:10; 47:11;48:16;51:12; 55:10,11;56:7;57:21; 63:15,16;65:9;67:23,24; 68:1;71:25;72:7;73:4,6; 75:13;80:10,24;82:4,16,
134:14  finished (1) 68:6  Finishing (1) 134:10  finite (2) 71:10;72:17  Finland (5) 128:25;130:5,10; 131:10,16  Finnish (2) 130:14,23  Finns (1)	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2) 54:7;100:6 flourish (2) 55:17;134:24 flow (1) 98:14 flower (2)	91:15 foreign (16)     14:1,2;18:11;19:22;     26:7;37:18;46:3;60:5,     24;74:10;132:16;     138:22;171:5;174:14;     188:12;191:11 forever (1)     143:24 forget (2)     95:4;98:10 forgive (1)     172:25 forgotten (1)     93:22	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22 four-way (1) 66:22 fracking (2) 139:4;142:21 fraction (1) 164:25 fragile (2)	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18; 38:12;40:14;45:10; 47:11;48:16;51:12; 55:10,11;56:7;57:21; 63:15,16;65:9;67:23,24; 68:1;71:25;72:7;73:4,6;
134:14  finished (1) 68:6  Finishing (1) 134:10  finite (2) 71:10;72:17  Finland (5) 128:25;130:5,10; 131:10,16  Finnish (2) 130:14,23  Finns (1) 131:20  firm (1)	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2) 54:7;100:6 flourish (2) 55:17;134:24 flow (1) 98:14 flower (2) 57:14;145:20	91:15 foreign (16) 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11 forever (1) 143:24 forget (2) 95:4;98:10 forgive (1) 172:25 forgotten (1) 93:22 form (3)	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22 four-way (1) 66:22 fracking (2) 139:4;142:21 fraction (1) 164:25 fragile (2)	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18; 38:12;40:14;45:10; 47:11;48:16;51:12; 55:10,11;56:7;57:21; 63:15,16;65:9;67:23,24; 68:1;71:25;72:7;73:4,6; 75:13;80:10,24;82:4,16, 19,22;85:19;87:2,3,4;
134:14  finished (1) 68:6  Finishing (1) 134:10  finite (2) 71:10;72:17  Finland (5) 128:25;130:5,10; 131:10,16  Finnish (2) 130:14,23  Finns (1) 131:20  firm (1) 135:25	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2) 54:7;100:6 flourish (2) 55:17;134:24 flow (1) 98:14 flower (2) 57:14;145:20 flying (1) 116:5	91:15 foreign (16) 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11 forever (1) 143:24 forget (2) 95:4;98:10 forgive (1) 172:25 forgotten (1) 93:22 form (3) 34:15;42:23;147:21	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22 four-way (1) 66:22 fracking (2) 139:4;142:21 fraction (1) 164:25 fragile (2) 180:24;181:5	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18; 38:12;40:14;45:10; 47:11;48:16;51:12; 55:10,11;56:7;57:21; 63:15,16;65:9;67:23,24; 68:1;71:25;72:7;73:4,6; 75:13;80:10,24;82:4,16, 19,22;85:19;87:2,3,4; 90:17;92:16;94:3,4,5; 97:14;98:11;100:20,21,
134:14 finished (1) 68:6 Finishing (1) 134:10 finite (2) 71:10;72:17 Finland (5) 128:25;130:5,10; 131:10,16 Finnish (2) 130:14,23 Finns (1) 131:20 firm (1) 135:25 first (24)	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2) 54:7;100:6 flourish (2) 55:17;134:24 flow (1) 98:14 flower (2) 57:14;145:20 flying (1)	91:15 foreign (16) 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11 forever (1) 143:24 forget (2) 95:4;98:10 forgive (1) 172:25 forgotten (1) 93:22 form (3) 34:15;42:23;147:21 Formaldehyde (1)	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22 four-way (1) 66:22 fracking (2) 139:4;142:21 fraction (1) 164:25 fragile (2) 180:24;181:5 frame (1) 159:1	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18; 38:12;40:14;45:10; 47:11;48:16;51:12; 55:10,11;56:7;57:21; 63:15,16;65:9;67:23,24; 68:1;71:25;72:7;73:4,6; 75:13;80:10,24;82:4,16, 19,22;85:19;87:2,3,4; 90:17;92:16;94:3,4,5;
134:14  finished (1) 68:6  Finishing (1) 134:10  finite (2) 71:10;72:17  Finland (5) 128:25;130:5,10; 131:10,16  Finnish (2) 130:14,23  Finns (1) 131:20  firm (1) 135:25  first (24) 13:25;17:23;22:24; 50:18;52:14;62:7;	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2) 54:7;100:6 flourish (2) 55:17;134:24 flow (1) 98:14 flower (2) 57:14;145:20 flying (1) 116:5 focus (1) 24:9	91:15 foreign (16) 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11 forever (1) 143:24 forget (2) 95:4;98:10 forgive (1) 172:25 forgotten (1) 93:22 form (3) 34:15;42:23;147:21 Formaldehyde (1) 10:9 Forman (7)	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22 four-way (1) 66:22 fracking (2) 139:4;142:21 fraction (1) 164:25 fragile (2) 180:24;181:5 frame (1)	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18; 38:12;40:14;45:10; 47:11;48:16;51:12; 55:10,11;56:7;57:21; 63:15,16;65:9;67:23,24; 68:1;71:25;72:7;73:4,6; 75:13;80:10,24;82:4,16, 19,22;85:19;87:2,3,4; 90:17;92:16;94:3,4,5; 97:14;98:11;100:20,21, 25;101:9,11;105:5; 106:5;107:25;108:3;
134:14 finished (1) 68:6 Finishing (1) 134:10 finite (2) 71:10;72:17 Finland (5) 128:25;130:5,10; 131:10,16 Finnish (2) 130:14,23 Finns (1) 131:20 firm (1) 135:25 first (24) 13:25;17:23;22:24; 50:18;52:14;62:7; 63:11;64:17;75:18;	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2) 54:7;100:6 flourish (2) 55:17;134:24 flow (1) 98:14 flower (2) 57:14;145:20 flying (1) 116:5 focus (1) 24:9 focused (2)	91:15 foreign (16) 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11 forever (1) 143:24 forget (2) 95:4;98:10 forgive (1) 172:25 forgotten (1) 93:22 form (3) 34:15;42:23;147:21 Formaldehyde (1) 10:9 Forman (7) 116:11;135:12,13,16,	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22 four-way (1) 66:22 fracking (2) 139:4;142:21 fraction (1) 164:25 fragile (2) 180:24;181:5 frame (1) 159:1 FRANCE (1) 2:16	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18; 38:12;40:14;45:10; 47:11;48:16;51:12; 55:10,11;56:7;57:21; 63:15,16;65:9;67:23,24; 68:1;71:25;72:7;73:4,6; 75:13;80:10,24;82:4,16, 19,22;85:19;87:2,3,4; 90:17;92:16;94:3,4,5; 97:14;98:11;100:20,21, 25;101:9,11;105:5; 106:5;107:25;108:3; 110:8,20;112:4,6;113:2;
134:14 finished (1) 68:6 Finishing (1) 134:10 finite (2) 71:10;72:17 Finland (5) 128:25;130:5,10; 131:10,16 Finnish (2) 130:14,23 Finns (1) 131:20 firm (1) 135:25 first (24) 13:25;17:23;22:24; 50:18;52:14;62:7; 63:11;64:17;75:18; 107:1;113:1;117:4;	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2) 54:7;100:6 flourish (2) 55:17;134:24 flow (1) 98:14 flower (2) 57:14;145:20 flying (1) 116:5 focus (1) 24:9 focused (2) 159:7;190:18	91:15 foreign (16) 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11 forever (1) 143:24 forget (2) 95:4;98:10 forgive (1) 172:25 forgotten (1) 93:22 form (3) 34:15;42:23;147:21 Formaldehyde (1) 10:9 Forman (7) 116:11;135:12,13,16, 18;137:20,25	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22 four-way (1) 66:22 fracking (2) 139:4;142:21 fraction (1) 164:25 fragile (2) 180:24;181:5 frame (1) 159:1 FRANCE (1) 2:16 Francisco (1)	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18; 38:12;40:14;45:10; 47:11;48:16;51:12; 55:10,11;56:7;57:21; 63:15,16;65:9;67:23,24; 68:1;71:25;72:7;73:4,6; 75:13;80:10,24;82:4,16, 19,22;85:19;87:2,3,4; 90:17;92:16;94:3,4,5; 97:14;98:11;100:20,21, 25;101:9,11;105:5; 106:5;107:25;108:3; 110:8,20;112:4,6;113:2; 115:6;118:21;119:14;
134:14  finished (1) 68:6  Finishing (1) 134:10  finite (2) 71:10;72:17  Finland (5) 128:25;130:5,10; 131:10,16  Finnish (2) 130:14,23  Finns (1) 131:20  firm (1) 135:25  first (24) 13:25;17:23;22:24; 50:18;52:14;62:7; 63:11;64:17;75:18; 107:1;113:1;117:4; 129:11;136:22;139:12,	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2) 54:7;100:6 flourish (2) 55:17;134:24 flow (1) 98:14 flower (2) 57:14;145:20 flying (1) 116:5 focus (1) 24:9 focused (2) 159:7;190:18 fold (1)	91:15 foreign (16)     14:1,2;18:11;19:22;     26:7;37:18;46:3;60:5,     24;74:10;132:16;     138:22;171:5;174:14;     188:12;191:11 forever (1)     143:24 forget (2)     95:4;98:10 forgive (1)     172:25 forgotten (1)     93:22 form (3)     34:15;42:23;147:21 Formaldehyde (1)     10:9 Forman (7)     116:11;135:12,13,16,     18;137:20,25 former (4)	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22 four-way (1) 66:22 fracking (2) 139:4;142:21 fraction (1) 164:25 fragile (2) 180:24;181:5 frame (1) 159:1 FRANCE (1) 2:16 Francisco (1) 149:15	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18; 38:12;40:14;45:10; 47:11;48:16;51:12; 55:10,11;56:7;57:21; 63:15,16;65:9;67:23,24; 68:1;71:25;72:7;73:4,6; 75:13;80:10,24;82:4,16, 19,22;85:19;87:2,3,4; 90:17;92:16;94:3,4,5; 97:14;98:11;100:20,21, 25;101:9,11;105:5; 106:5;107:25;108:3; 110:8,20;112:4,6;113:2; 115:6;118:21;119:14; 124:19;126:10,11,14,
134:14 finished (1) 68:6 Finishing (1) 134:10 finite (2) 71:10;72:17 Finland (5) 128:25;130:5,10; 131:10,16 Finnish (2) 130:14,23 Finns (1) 131:20 firm (1) 135:25 first (24) 13:25;17:23;22:24; 50:18;52:14;62:7; 63:11;64:17;75:18; 107:1;113:1;117:4;	125:12 flexibility (1) 25:7 flied (1) 90:25 float (1) 23:25 floods (2) 54:7;100:6 flourish (2) 55:17;134:24 flow (1) 98:14 flower (2) 57:14;145:20 flying (1) 116:5 focus (1) 24:9 focused (2) 159:7;190:18	91:15 foreign (16) 14:1,2;18:11;19:22; 26:7;37:18;46:3;60:5, 24;74:10;132:16; 138:22;171:5;174:14; 188:12;191:11 forever (1) 143:24 forget (2) 95:4;98:10 forgive (1) 172:25 forgotten (1) 93:22 form (3) 34:15;42:23;147:21 Formaldehyde (1) 10:9 Forman (7) 116:11;135:12,13,16, 18;137:20,25	30:18;145:24 founder (1) 95:2 founding (1) 21:25 four (10) 21:17,20;22:7;42:5; 72:3;73:1;119:11; 145:13;155:4;191:22 four-way (1) 66:22 fracking (2) 139:4;142:21 fraction (1) 164:25 fragile (2) 180:24;181:5 frame (1) 159:1 FRANCE (1) 2:16 Francisco (1)	23:7 frogs (1) 59:20 from (140) 8:21;10:9,12,17;11:6, 7;14:2;17:12;19:16; 22:16;23:3,21;28:1; 31:10;32:9;34:19,24; 36:12,13;37:2,18,18; 38:12;40:14;45:10; 47:11;48:16;51:12; 55:10,11;56:7;57:21; 63:15,16;65:9;67:23,24; 68:1;71:25;72:7;73:4,6; 75:13;80:10,24;82:4,16, 19,22;85:19;87:2,3,4; 90:17;92:16;94:3,4,5; 97:14;98:11;100:20,21, 25;101:9,11;105:5; 106:5;107:25;108:3; 110:8,20;112:4,6;113:2; 115:6;118:21;119:14;

	_			
139:6,7,17;140:9;	<b>full</b> (6)	galaxy (1)	87:3	91:11;93:4;103:10;
142:17;144:14;145:9,	37:17;104:3;115:22;	181:1	gene (1)	104:25;106:8;107:3,5,
12;146:4;148:1,11;	116:24;138:9;143:2	gallon (39)	161:3	14;109:10;120:2;
149:3,19;150:22;151:4,	full-time (1)	17:9;24:7;27:16;32:5,	general (7)	127:18;152:6,7;160:10,
6;154:22,24;155:11;	145:10	6;34:4;54:19;82:25;	86:18,18;119:22;	20;161:5,19;163:16;
156:12;161:3;162:5;	fully (1)	84:3;88:14;91:4,6,12;	124:10;138:10;139:16,	165:6;168:23;175:11;
163:2;164:2,3,17;	99:3	97:22;103:7;104:13,13;	17	176:2,6;177:11,12;
165:11;166:25,25;	fumes (1)	108:20,23;119:8;	generally (2)	180:9
172:4;173:11,13;	66:11	124:14;136:1;139:24,	67:20;147:24	gets (10)
175:15;176:3,18,19;	fun (2)	25;144:2;152:7,8,10;	General's (1)	33:20;53:15;84:12;
177:2;178:4,11,12;	136:23;144:24	153:2;159:5,20;160:20;	130:23	102:17;108:23;144:13,
179:6,10,17,22;181:6;	functions (1)	161:15;162:10;165:6;	generating (1)	14,16,25;153:2
188:23;189:2,2;191:9,	42:14	171:1;178:23;186:21;	14:8	getting (8)
12,13	<b>fund</b> (1)	187:13	generation (12)	65:1;95:18;106:1;
front (7)	62:4	gallons (3)	72:3;75:19;78:9,12;	119:7;120:7;131:22;
63:25;64:5,9;66:18,	fundamental (1)	140:11;148:10;	100:10;113:2;114:9;	139:22;165:2
18;83:23;177:5	25:24	156:11	137:14,16,22;155:23;	GHGs (1)
frustrated (1)	fundamentally (1)	games (2)	173:5	117:15
61:8	112:8	22:11,12	generations (17)	gift (1)
FUEL (111)	<b>funded</b> (2)	garbage (1)	41:9;49:17;60:12;	154:9
2:3;8:17;10:19;12:22;	61:23;74:13	116:5	77:14;78:8,10;79:14,16;	gifts (1)
13:2;14:14;15:2,21;	funding (3)	Garden (3)	93:6;98:24;123:20,23;	154:12
17:9,12,21,23;19:3,7,8,	73:10;74:8,10	57:11;58:1;175:9	136:15;169:5;188:7;	girls (1)
			189:24;191:18	110:2
13,16,19,25;20:5;25:10,	fundraising (1)	GAS (62)	*	
14;26:10;31:5,11,16;	166:3	2:2;8:16;13:15;14:19;	generation's (1)	give (13)
32:4,9,11,15,18,20;33:1,	funds (2)	17:10;24:7;25:22;33:4;	79:24	31:8;39:23;51:18;
7;34:1;35:15;38:17,21;	73:13;146:18	34:2;35:6;38:20;40:13;		52:21;56:10;62:25;
39:25;45:12,14;47:22;	fungal (2)	56:5;62:1,4;69:2;91:5;	114:21	85:3;88:9;110:7;
48:5;55:10,15,21;59:11;	59:19,23	96:22;97:17,22,25;98:6;	generous (2)	113:11;130:13;158:5;
60:9,22;61:6;62:2;	further (1)	101:17;104:13;109:8;	56:8;62:12	159:1
68:22;70:4;77:20;	81:8	114:4;115:7;117:13,19;	genes (2)	given (4)
78:20,24;79:5;81:19;	FUTURE (47)	120:19,25;122:2,8,11,	158:17,19	27:19;40:1;50:6;
82:20,24;88:4,18;91:13,	12:2,5;21:6,8,13;	13;130:17;133:15;	geneticist (1)	180:9
18;96:20;98:10;99:25;	49:17,20;51:16,19;60:4,	134:5,25;135:1;138:25;	158:12	gives (3)
102:18;106:23;107:18,	12;62:1;70:8;77:14;	140:11;142:21;143:22;	genetics (1)	72:12;106:1;125:3
24;108:9,15;109:3;	78:8;79:14,16;93:3,5;	144:25;146:7,10;	158:14	giving (6)
110:4,24;111:1;115:13,	94:14;97:13;98:24;	148:20;155:19;156:23,	Genome (4)	136:18;147:17;
13;119:20;120:7;	108:20;115:25;116:5;	23;159:19;161:23;	110:11,11,19;111:2	161:18;164:14;166:1;
122:11;124:20;126:1;	117:6;123:20,22;	163:21;165:7;178:22;	gently (1)	174:23
129:13;131:24;132:15;	125:14;130:4;135:5;	179:6,9;187:6,10,13;	113:18	glacial (1)
133:8;142:11;143:3;	142:7;154:17;166:13;	191:2	Geo (2)	47:15
147:18;148:14;151:8;	167:18;168:8;169:4,15;	gases (9)	140:8,9	glaciers (1)
157:15,23;161:23;	172:9;182:22;184:22,	12:17;13:13;23:24;	Geographic (1)	171:9
164:21;166:8,18;167:2;	22;188:7;189:6,24;	76:9;122:16,18;129:13;	83:8	glad (3)
170:16,24;171:11;	191:17,17	132:1;165:10	Geologists (1)	52:7;80:13;89:14
174:13;177:19;183:15;		gasoline (11)	72:23	Gladwyne (1)
184:20;185:11,14;	G	26:19;61:18,18;	George (1)	71:25
186:20;188:1		77:20;81:11;97:4;98:9;	181:20	glass (1)
fueled (1)	GAIL (2)	121:4;160:1,7;164:20	get (56)	161:4
89:6	172:21,24	gas-propelled (1)	27:16;29:6;42:12,19,	Glauser (4)
fuels (18)	gain (2)	92:20	21;43:1;44:22;45:17;	116:10;118:17,20,21
51:1,3,5;64:10;65:1;	96:18;101:10	gave (3)	46:7;57:19;58:12,12,20;	glistening (1)
76:17;81:3,7,15;95:19;	gaining (1)	64:19;119:10;183:24	65:4;66:6;81:18,25;	64:7
113:17;114:11,22,25;	29:13	gee (2)	82:16,18,22;83:18;	global (44)
117:15;151:4;152:17;	gains (1)	87:8;88:17	84:17,25;86:8,11,12;	18:24;21:12;22:1;
155:13	190:19	gems (1)	87:6,17;88:21;89:3;	23:22;35:4,13;40:12;
	-	8	07.0,17,00.21,07.3,	23.22,33.1,13,70.12,

45:17,19;47:4,10,17; 48:15;51:7;59:24;61:1; 100:5;106:23;107:19; 108:9,10;117:9,17;	95:4,6,22;97:20;100:1; 102:20,23;103:18; 104:15,16;105:1,3; 107:21;108:18;111:21;	86:5 graduate (2) 65:21;156:25 graduated (2)	59:22;132:6;140:4; 152:24;166:16;174:5 <b>greed (1)</b> 183:17	136:16;175:10 guest (1) 146:19 guide (5)
126:17,20;127:6; 138:20;139:10;147:23; 154:14;155:1;156:1;	112:20;122:9,15;124:9; 126:21;131:12;137:16; 138:24;141:13;144:5,7;	145:9;164:17 graduates (1) 145:14	<b>Green (22)</b> 33:23;38:25;55:6; 101:11;112:15;113:24;	39:5;89:2,4;142:5; 144:15 guidelines (4)
157:17;163:23;165:9; 171:8;176:11;179:17, 21,23;187:24;188:1,5; 190:2	149:6;150:7,8,21;151:8, 17;152:4;161:5,8,8; 167:12;168:2;181:8,12; 182:1;183:8	graduation (1) 145:12 Grammy (1) 173:21	114:2,25;115:5;130:10, 16;131:19;136:6; 150:25;151:10,10,16; 170:14;171:18;178:7,7,	125:15;146:1,2,4 Gulf (1) 55:5 guy (1)
<b>globally (2)</b> 101:15;117:25	<b>golf (2)</b> 23:17;177:10	grams (2) 24:8;124:14	8 Greene (5)	64:15 guys (9)
globe (2)	gone (2)	Grand (1)	46:13,15,18,19,25	80:23;83:5,23,25;
54:5;75:15	76:2;110:20	190:6	greener (2)	84:6,14,23;147:15;
GM (3)	Good (50)	grandchild (1)	93:14;94:16	160:10
122:10;140:18;177:2	8:8;12:4;15:5,11;	173:20	<b>GREENHOUSE (25)</b>	guzzle (1)
go (33)	24:15,20,20;30:14;	grandchildren (10)	2:2;8:16;12:17;13:13,	97:25
28:22;30:9;39:6;	32:23;49:11;51:14;	21:5,14,14;123:22;	15;17:9;25:22;34:2;	TT
42:12;43:10;44:25;	53:11;57:23;59:2;	168:4;173:4;174:15,17,	40:13;41:7;69:2;	Н
57:20;58:1,3,6;61:19;	61:12;65:23;71:16;	22;184:4	101:17;117:13,19;	habitat (4)
63:24;69:9;76:1;89:21;	74:18;76:3,15;78:13;	granddaughters (1) 117:5	122:16,18;129:12;	83:6;88:25;92:22;
102:23;108:15;109:8; 111:17;119:17;129:24;	80:14;83:9;90:12;97:8; 99:14;108:18;111:16;	grandmother (3)	132:1;133:15;134:4,25; 135:1;138:20;148:20;	190:3
132:21;141:10;157:16,	112:9;114:13;116:18;	20:25;92:2;173:3	161:23	had (55)
25;160:13;161:12;	123:10;128:23;131:4;	grandmothers (1)	grew (5)	12:23;21:18;22:18;
162:2,5;168:13,18;	137:9;144:13,25;	20:24	65:13;91:25;106:18;	28:22;36:23;39:1;42:3,
187:13;190:9	151:16;153:10;156:21;	grandparent (1)	107:2;145:7	4,5,6,16,19;43:8;44:10,
GO60mpg (1)	164:13;165:18;166:15;	123:21	grip (1)	20;45:8;47:4,12,20;
185:18	183:5;186:11,23;	grandson (1)	26:12	55:12;64:12,13;66:2,2;
goal (6)	187:21;188:8;189:6,6	119:11	Ground (5)	72:25;81:9;87:1,13;
76:14,16;94:12;	Gore (2)	graph (1)	10:21;86:25;138:23;	88:14;92:16;107:3;
132:18;144:2;146:21	92:8;93:23	187:6	139:1;140:23	111:18;112:22;116:2;
goals (3)	gouging (1)	grass (2)	Group (5)	120:9;129:18;139:3,23;
98:1;132:15;171:3	91:20	22:10;57:6	9:14;151:1,3;154:16;	140:1,2;141:5;145:9;
<b>God</b> (2)	Government (26)	grassy (1)	175:7	146:10;155:8;158:15,
39:23;154:12	2:8;30:25;31:12;32:1;	22:15	groups (8)	17;159:18;164:21;
God-given (1)	45:2;49:4;86:8,11;99:1;	grateful (2)	34:16;90:1;95:13;	166:10;167:20;168:13;
154:6	115:9;119:25;120:1;	39:22;78:17	96:14;102:1;126:14;	175:25;177:6;182:12;
GODMILOW (4)	128:13;131:25;132:10;	great (20)	137:12;185:19	187:14
158:8,11;162:9,17	135:3;143:19;146:5;	23:5;33:2;56:1;57:23;	grow (1)	<b>hailed (1)</b> 110:13
God's (2) 40:3;154:17	151:15,21;156:3; 161:14;172:5;183:20;	64:20;66:24;70:15,16; 84:3;91:6;93:18;	41:9 growing (9)	HALBERT (2)
goes (7)	189:8;191:12	107:10;109:3;120:22;	18:17;24:2;39:21;	183:2,6
25:19;42:1;43:18;	governmental (2)	133:17;146:22;160:25;	60:16;77:17;90:19;	half (10)
67:5;164:1;179:12;	97:1;130:11	167:13;169:21;180:6	118:7;145:7;151:7	12:16;104:16;134:5;
182:21	governments (1)	greater (7)	grown (1)	138:9;141:6;161:4;
going (73)	51:11	11:12;47:22;56:3;	130:5	162:15;176:20;179:21;
27:25;28:3;29:8;	government's (1)	59:10;91:8;176:19;	growth (5)	182:5
32:25;33:11;36:12;	126:23	181:25	13:8;33:5;38:24;	half-a-million-dollar (1)
42:15,15;43:25;52:14,	Governor (1)	greater-than-average (1)	155:7;174:5	105:14
18;55:16;56:5;58:9;	134:3	38:12	guard (1)	<b>Hall (3)</b>
66:19;69:18;70:25;	governors (1)	greatest (4)	62:8	23:19;28:6;44:7
71:2;74:3;80:8,9;81:24;	133:22	45:16;78:11;79:24;	Guatemala (1)	Hamburg (1)
82:12;83:5;84:4;87:16,	grade (4)	113:5	100:22	58:2
19,19,20;89:21;90:17;	37:14;41:5;53:10;	greatly (6)	guess (2)	Hamilton (1)
				1

68:13	77:3,5,8,8	84:7,16,18;85:1,2,18,	14;111:3,3;112:14;	167:9
Hampshire (3)	has (92)	22;87:11,13,13,20,22;	122:22;124:4;147:21,	held (2)
107:11;108:5;190:8	9:6;10:5;13:13;14:2;	88:18;89:10,11,22;	22,22,23,24;148:15,15,	2:4;44:20
hand (3)	17:20;20:4;27:10;	90:15,20;91:2,13;92:2;	16;163:6,8,11;166:13,	hello (3)
49:6;107:9;151:19	39:20;40:8;45:16;	93:4,19;94:18;95:6,8;	15;171:10;188:6;191:5	59:7;80:7;165:25
handed (1)	47:22;48:14;54:6,22;	96:25;97:6;98:15,19;	healthier (1)	help (29)
183:21	56:4,6;57:23;59:12;	99:19,23;100:14;101:8,	93:12	10:18;11:1,15;17:16,
handouts (1)	60:6;61:12,13;66:20;	10,19;102:20;103:10,	Health's (1)	21;18:20;31:4,8,12;
56:10	71:7,16;72:15;81:7;	20;104:21,22;106:21,	8:10	32:14;35:12;37:1;
hang (1)	82:20;83:9,21;88:24;	22;108:12,18;109:4;	healthy (5)	65:13;90:16;95:25;
169:12	89:5,23;91:22;92:4;	110:18,21;111:6,23;	9:5;21:12;45:1;	114:21;115:1;122:6,24;
hanging (2)	93:2,11;99:17;101:21,	113:7;114:2,19;115:22;	123:20;170:14	132:18;142:13;149:6,
21:16;182:4	21;107:16;110:12;	116:23;117:5,11;118:2,	hear (15)	22;151:3;167:8;169:14;
happen (5)	111:22;112:7,20;	3;119:24;121:23;	40:15;46:22,24;	182:14;184:22;188:23
87:16;120:25;128:16;	113:20;114:17,20,22;	125:13;131:8;133:2,4,	60:15;61:24;84:9;85:1,	helped (2)
144:8;161:16	117:16,23;120:20;	17;135:4,6;136:11;	19;89:14,20;90:5;	34:15;146:11
happened (4)	121:10;124:4;126:5;	137:5,5,6,17;138:24;	147:8;176:1,2,3	helping (1)
55:19;90:13;143:11,	127:1;130:16,20;	139:3,13;141:1,15,25;	heard (20)	23:12
16	132:14;136:21;139:5;	142:1,5,12,21;143:13;	2:7;48:9;57:8;64:24,	helps (2)
happening (1)	142:16;144:10;147:14,	144:5,19,22;146:13,20;	25;72:11;73:8;75:8;	32:18;170:21
187:25	25;148:25;154:12;	148:21;149:19;151:20,	85:24,24;99:23;137:17;	hemp (3)
happens (7)	155:5;157:7;160:5,11;	23;153:1;157:18,25;	148:21;149:11;151:2;	157:8,9,11
68:8;94:3,9,11;103:4;	161:22,24;163:15;	159:7,22;160:22,22,23;	163:25;176:9;178:4;	Henderson (4)
168:5;188:22	165:14;171:1,12;176:4,	161:2,4,13,16,22;162:7,	179:18;188:2	116:11;125:21,24,25
happier (2)	20;177:23;178:19;	14;164:23,25;165:1,1,4,	HEARING (10)	Henry (1)
107:15;124:15	180:21;182:6;183:20;	12;166:11,12;167:18;	2:1;8:14;63:16;68:2;	157:10
happy (3)	184:19;185:4,9,11;	168:6,15;169:3,20;	70:15;79:9;102:3;	here (106)
82:8;89:20;124:11	186:1;187:4;189:20;	170:15,16,16;171:15;	112:15;115:6;191:24	20:16,19,25;21:22;
hard (7)	190:11;191:12	172:2,3;173:3;174:3,21;	hearings (4)	23:11;28:19;29:19;
27:23;84:9;92:12;	hasn't (1)	177:19;179:4;180:8;	133:11;149:14,16;	36:2;39:18;41:24;47:3;
112:8,17;128:9;151:18	100:13	182:11,18;184:1,1,3,24;	169:17	50:10;53:22;57:21;
harder (4)	Hatboro (1)	185:22;186:16,18;	heart (12)	58:13;63:13,15;64:23;
106:7;136:17,18;	121:20	187:17,23;188:21;	16:16;42:8,11,12,16;	68:1;69:10,19;72:1,7,
141:16	hate (2)	189:20,21,25;190:5;	43:1,4;46:7;65:8,10,20;	21;74:5,16;76:16;
hardly (1)	99:20,21	191:16	125:14	77:18;78:22;80:10,11,
159:22	hated (1)	haven't (4)	heart-sickens (1)	12,20,24;84:2,15;85:18,
hard-pressed (1)	141:7	88:5;122:1,3;145:2	190:11	24;86:3;88:11;89:14,
144:12	have (244)	Haverford (1)	heat (7)	23;90:12,15;91:20;
Harley (1)	13:7;15:25;17:24;	170:8	43:15;54:7;112:24;	94:13;95:5;97:7;99:4,
144:24	21:1,1,23;25:13,20;	<b>Having (16)</b>	113:12;141:9;144:23;	16;102:3,16;106:17,18;
harm (4)	27:22;29:4,7;31:2;	21:5;58:19;83:14;	155:22	109:16,16;118:22;
58:10;98:23;154:8;	32:11,12,20;34:21;	85:5;91:15;106:17;	heater (1)	119:1,14;120:9;125:5;
183:12	37:11,12;38:4,8,9,9,10,	109:2;123:2;126:20;	113:2	126:4;129:2,4;131:14;
harmful (3)	11,15,18,23;39:3;40:1;	130:5;131:11;139:17;	heating (3)	133:2;134:23;138:9;
190:1;191:6,13	41:7,9;42:5,8,10,22;	143:1,25;158:1;183:9	141:2,5;170:17	142:25;143:5,7,24;
harms (1)	43:6,10,12,16,24;44:18;	Head (4)	heavily (2)	146:10;147:15,25;
82:20	45:3;48:14;51:19,25;	67:8,9,22;68:5	62:17;66:19	149:22;152:3;154:2;
harness (2)	52:2,23;54:13,14;55:11;	headed (1)	heavy (3)	158:4,11;164:18,22;
31:1;81:21	57:8,14,19;58:9;61:7;	87:14	64:13;182:7;183:21	165:1,25;166:2,6,10,17,
Harrisburg (1)	62:13,15,19;64:23;65:3,	health (51)	heeded (1)	22;170:11,22;173:25;
12:9	8,24;66:1,3,16,17,25;	8:21,22;9:19;11:2,6,	39:2	174:22;175:12,25;
harsh (1)	67:11;68:14,15;69:8,9;	19;12:19;16:15;36:2,6,	hefty (1)	176:17;181:15;182:8,
112:12	70:14,16,21,22;72:11,	12,13,14;37:7,20;38:1;	97:11	20;184:8,18,20,21;
Harvard (1)	14,22,25;75:15;76:1,20;	39:2,5;43:13;51:9,15;	height (1)	186:12;188:11;189:25
168:17	77:12,22,25;78:2,23;	53:14;67:11;78:5;81:4;	145:19	Here's (1)
Harvey (4)	79:1;81:3,20;82:6,8,9;	89:16;97:9;99:5;110:9,	heinous (1)	45:23
M: TI C 400	DEDODERN	O A GGOOTATED TTO	000 505 2222	110) II II. !

Heritage (2)	historic (1)	120:17;121:6	110:10,11,14,19;111:2,	67:5,10
70:12,17	70:13	horrible (2)	2;126:18;152:17,18;	ice (8)
hey (1)	historical (2)	42:13,24	154:8,18,19;163:6;	22:6;47:15;75:10,11,
46:4	101:16;147:13	horror (1)	188:16;190:11;191:12	11,16;76:1,1
Hi (8)	historically (1)	70:2	human-caused (1)	icecaps (1)
39:14;41:21;57:5;	100:16	horse (1)	117:9	171:9
85:16;96:8;162:24;	history (12)	169:8	humanity (1)	ICLEI (1)
		Horticultural (1)	123:25	9:11
170:5;189:15	65:8;70:18;71:15;	` ,		
high (15)	83:3;86:4,5,15,16;	57:12	humans (4)	idea (4)
10:1,23;29:10;38:19;	87:13;139:11;149:1;	hospitable (1)	11:1;24:9;83:3;163:8	159:1;186:23;188:4,
49:8,15;61:11;91:13;	152:18	117:7	humble (2)	16
97:21;98:3;115:7;	hitting (1)	hospital (1)	160:8;189:7	idealistic (1)
121:4;124:5;169:1;	94:3	36:24	humidity (1)	76:18
187:6	hold (1)	hospitalized (1)	43:15	ideals (3)
higher (27)	148:14	42:4	humility (1)	167:13;168:1,10
17:20;19:19;32:5;	holding (6)	hospitals (1)	154:11	identify (2)
33:2;48:5;54:19,21;	8:14;79:9;88:13;	36:22	Hummer (1)	19:21;36:25
99:25;118:23;119:19;	102:3;125:1;188:25	hot (2)	56:2	ignore (2)
120:10,19,25;121:9;	holds (1)	102:25;107:22	hundred (5)	44:1;51:1
126:1;132:15;133:8;	53:14	hour (2)	21:24;30:20;82:10,	ignored (2)
157:21;159:20;160:1;	Holme (1)	104:24;105:18	12;167:21	45:10;67:20
168:1,10;177:19;	21:18	hourly (1)	hundreds (4)	illnesses (3)
184:20;185:11;187:6,25	home (15)	105:21	34:24;71:12;117:24;	13:20;65:11,19
highest (5)	43:17;44:1;68:7,24;	hours (10)	167:19	Illumina (1)
		` '		110:18
29:21;37:4;58:3;	77:12;86:12;97:19;	44:2;57:20;58:20;	hunger (1)	
133:13;167:12	105:8,11,13;107:8;	104:2,3,5;105:3;162:15;	157:17	illuminating (1)
highlight (1)	143:1;145:16;172:1;	171:25;184:17	HUNT (3)	95:13
20:4	174:2	house (16)	116:16,20,22	image (2)
highly (1)	homeopath (1)	65:13;103:14;105:14,	<b>Hunt's (1)</b>	93:24;102:21
				•
28:15	68:13	14,16,16;106:9;112:23;	116:24	Imagine (5)
Highway (10)	homes (2)		116:24 <b>hurt (6)</b>	<b>Imagine (5)</b> 75:14;94:1,2,7;178:4
	homes (2) 44:25;92:23	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2;	116:24	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1)
Highway (10)	homes (2)	14,16,16;106:9;112:23; 141:3,9;144:23;149:5;	116:24 <b>hurt (6)</b>	<b>Imagine (5)</b> 75:14;94:1,2,7;178:4
Highway (10) 8:13;9:15;24:23;	homes (2) 44:25;92:23	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2;	116:24 <b>hurt (6)</b> 40:17;50:18;88:7;	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1)
<b>Highway (10)</b> 8:13;9:15;24:23; 27:17;63:19;78:19;	homes (2) 44:25;92:23 hometown (1)	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11	116:24 <b>hurt (6)</b> 40:17;50:18;88:7; 181:6,8,8	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23;	homes (2) 44:25;92:23 hometown (1) 63:13	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2)	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1)	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2)
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1)	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2)	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1)	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5)	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3)
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1)	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20;	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2)	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2)	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2)
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26)	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4)	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4)	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24;	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3)	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1)
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4) 108:4,5,6,7	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24; 62:21;70:7;76:18,19;	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3) 14:12;141:10;145:16	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9 hybrid (10)	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1) 67:2
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4) 108:4,5,6,7 hiking (4)	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24; 62:21;70:7;76:18,19; 79:11,22;93:1,2;102:5;	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3) 14:12;141:10;145:16 Hovensa (1)	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9 hybrid (10) 18:12;19:1;27:15;	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1) 67:2 impact (14)
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4) 108:4,5,6,7 hiking (4) 86:6;107:11;124:9;	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24; 62:21;70:7;76:18,19; 79:11,22;93:1,2;102:5; 114:19;115:23;131:4;	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3) 14:12;141:10;145:16 Hovensa (1) 132:20	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9 hybrid (10) 18:12;19:1;27:15; 56:2;104:22;108:17,22;	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1) 67:2 impact (14) 12:18;13:16;43:17;
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4) 108:4,5,6,7 hiking (4) 86:6;107:11;124:9; 184:17	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24; 62:21;70:7;76:18,19; 79:11,22;93:1,2;102:5; 114:19;115:23;131:4; 135:2;145:2;149:21,25;	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3) 14:12;141:10;145:16 Hovensa (1) 132:20 However (7)	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9 hybrid (10) 18:12;19:1;27:15; 56:2;104:22;108:17,22; 132:11;145:1;177:4	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1) 67:2 impact (14) 12:18;13:16;43:17; 70:19;94:10;107:16;
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4) 108:4,5,6,7 hiking (4) 86:6;107:11;124:9; 184:17 Hill (3)	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24; 62:21;70:7;76:18,19; 79:11,22;93:1,2;102:5; 114:19;115:23;131:4; 135:2;145:2;149:21,25; 166:9;167:12,15;	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3) 14:12;141:10;145:16 Hovensa (1) 132:20 However (7) 19:12;57:24;91:13;	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9 hybrid (10) 18:12;19:1;27:15; 56:2;104:22;108:17,22; 132:11;145:1;177:4 hybrids (3)	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1) 67:2 impact (14) 12:18;13:16;43:17; 70:19;94:10;107:16; 115:3;128:8;131:8;
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4) 108:4,5,6,7 hiking (4) 86:6;107:11;124:9; 184:17 Hill (3) 50:9;153:23;156:25	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24; 62:21;70:7;76:18,19; 79:11,22;93:1,2;102:5; 114:19;115:23;131:4; 135:2;145:2;149:21,25; 166:9;167:12,15; 168:17;169:17;182:21;	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3) 14:12;141:10;145:16 Hovensa (1) 132:20 However (7) 19:12;57:24;91:13; 97:8;101:14;131:24;	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9 hybrid (10) 18:12;19:1;27:15; 56:2;104:22;108:17,22; 132:11;145:1;177:4 hybrids (3) 38:22;55:24;108:25	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1) 67:2 impact (14) 12:18;13:16;43:17; 70:19;94:10;107:16; 115:3;128:8;131:8; 133:17;135:4;161:1;
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4) 108:4,5,6,7 hiking (4) 86:6;107:11;124:9; 184:17 Hill (3) 50:9;153:23;156:25 himself (1)	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24; 62:21;70:7;76:18,19; 79:11,22;93:1,2;102:5; 114:19;115:23;131:4; 135:2;145:2;149:21,25; 166:9;167:12,15; 168:17;169:17;182:21; 191:18	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3) 14:12;141:10;145:16 Hovensa (1) 132:20 However (7) 19:12;57:24;91:13; 97:8;101:14;131:24; 157:22	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9 hybrid (10) 18:12;19:1;27:15; 56:2;104:22;108:17,22; 132:11;145:1;177:4 hybrids (3) 38:22;55:24;108:25 hydrofluorocarbons (1)	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1) 67:2 impact (14) 12:18;13:16;43:17; 70:19;94:10;107:16; 115:3;128:8;131:8; 133:17;135:4;161:1; 163:11;170:15
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4) 108:4,5,6,7 hiking (4) 86:6;107:11;124:9; 184:17 Hill (3) 50:9;153:23;156:25 himself (1) 64:15	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24; 62:21;70:7;76:18,19; 79:11,22;93:1,2;102:5; 114:19;115:23;131:4; 135:2;145:2;149:21,25; 166:9;167:12,15; 168:17;169:17;182:21; 191:18 hoped (2)	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3) 14:12;141:10;145:16 Hovensa (1) 132:20 However (7) 19:12;57:24;91:13; 97:8;101:14;131:24; 157:22 huge (10)	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9 hybrid (10) 18:12;19:1;27:15; 56:2;104:22;108:17,22; 132:11;145:1;177:4 hybrids (3) 38:22;55:24;108:25 hydrofluorocarbons (1) 98:20	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1) 67:2 impact (14) 12:18;13:16;43:17; 70:19;94:10;107:16; 115:3;128:8;131:8; 133:17;135:4;161:1; 163:11;170:15 impacted (2)
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4) 108:4,5,6,7 hiking (4) 86:6;107:11;124:9; 184:17 Hill (3) 50:9;153:23;156:25 himself (1) 64:15 hindsight (1)	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24; 62:21;70:7;76:18,19; 79:11,22;93:1,2;102:5; 114:19;115:23;131:4; 135:2;145:2;149:21,25; 166:9;167:12,15; 168:17;169:17;182:21; 191:18 hoped (2) 143:23;168:14	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3) 14:12;141:10;145:16 Hovensa (1) 132:20 However (7) 19:12;57:24;91:13; 97:8;101:14;131:24; 157:22 huge (10) 23:1;40:14;89:10,11;	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9 hybrid (10) 18:12;19:1;27:15; 56:2;104:22;108:17,22; 132:11;145:1;177:4 hybrids (3) 38:22;55:24;108:25 hydrofluorocarbons (1) 98:20 hype (1)	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1) 67:2 impact (14) 12:18;13:16;43:17; 70:19;94:10;107:16; 115:3;128:8;131:8; 133:17;135:4;161:1; 163:11;170:15 impacted (2) 97:9;158:20
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4) 108:4,5,6,7 hiking (4) 86:6;107:11;124:9; 184:17 Hill (3) 50:9;153:23;156:25 himself (1) 64:15 hindsight (1) 48:17	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24; 62:21;70:7;76:18,19; 79:11,22;93:1,2;102:5; 114:19;115:23;131:4; 135:2;145:2;149:21,25; 166:9;167:12,15; 168:17;169:17;182:21; 191:18 hoped (2) 143:23;168:14 hopeful (2)	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3) 14:12;141:10;145:16 Hovensa (1) 132:20 However (7) 19:12;57:24;91:13; 97:8;101:14;131:24; 157:22 huge (10) 23:1;40:14;89:10,11; 107:16;112:24;115:5;	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9 hybrid (10) 18:12;19:1;27:15; 56:2;104:22;108:17,22; 132:11;145:1;177:4 hybrids (3) 38:22;55:24;108:25 hydrofluorocarbons (1) 98:20	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1) 67:2 impact (14) 12:18;13:16;43:17; 70:19;94:10;107:16; 115:3;128:8;131:8; 133:17;135:4;161:1; 163:11;170:15 impacted (2) 97:9;158:20 impactful (1)
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4) 108:4,5,6,7 hiking (4) 86:6;107:11;124:9; 184:17 Hill (3) 50:9;153:23;156:25 himself (1) 64:15 hindsight (1) 48:17 hippie (1)	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24; 62:21;70:7;76:18,19; 79:11,22;93:1,2;102:5; 114:19;115:23;131:4; 135:2;145:2;149:21,25; 166:9;167:12,15; 168:17;169:17;182:21; 191:18 hoped (2) 143:23;168:14 hopeful (2) 78:13;165:15	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3) 14:12;141:10;145:16 Hovensa (1) 132:20 However (7) 19:12;57:24;91:13; 97:8;101:14;131:24; 157:22 huge (10) 23:1;40:14;89:10,11; 107:16;112:24;115:5; 120:8;163:19;166:22	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9 hybrid (10) 18:12;19:1;27:15; 56:2;104:22;108:17,22; 132:11;145:1;177:4 hybrids (3) 38:22;55:24;108:25 hydrofluorocarbons (1) 98:20 hype (1) 91:10	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1) 67:2 impact (14) 12:18;13:16;43:17; 70:19;94:10;107:16; 115:3;128:8;131:8; 133:17;135:4;161:1; 163:11;170:15 impacted (2) 97:9;158:20 impactful (1) 14:24
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4) 108:4,5,6,7 hiking (4) 86:6;107:11;124:9; 184:17 Hill (3) 50:9;153:23;156:25 himself (1) 64:15 hindsight (1) 48:17 hippie (1) 145:20	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24; 62:21;70:7;76:18,19; 79:11,22;93:1,2;102:5; 114:19;115:23;131:4; 135:2;145:2;149:21,25; 166:9;167:12,15; 168:17;169:17;182:21; 191:18 hoped (2) 143:23;168:14 hopeful (2) 78:13;165:15 hopefully (1)	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3) 14:12;141:10;145:16 Hovensa (1) 132:20 However (7) 19:12;57:24;91:13; 97:8;101:14;131:24; 157:22 huge (10) 23:1;40:14;89:10,11; 107:16;112:24;115:5; 120:8;163:19;166:22 human (22)	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9 hybrid (10) 18:12;19:1;27:15; 56:2;104:22;108:17,22; 132:11;145:1;177:4 hybrids (3) 38:22;55:24;108:25 hydrofluorocarbons (1) 98:20 hype (1)	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1) 67:2 impact (14) 12:18;13:16;43:17; 70:19;94:10;107:16; 115:3;128:8;131:8; 133:17;135:4;161:1; 163:11;170:15 impacted (2) 97:9;158:20 impactful (1) 14:24 impacting (4)
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4) 108:4,5,6,7 hiking (4) 86:6;107:11;124:9; 184:17 Hill (3) 50:9;153:23;156:25 himself (1) 64:15 hindsight (1) 48:17 hippie (1) 145:20 hire (1)	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24; 62:21;70:7;76:18,19; 79:11,22;93:1,2;102:5; 114:19;115:23;131:4; 135:2;145:2;149:21,25; 166:9;167:12,15; 168:17;169:17;182:21; 191:18 hoped (2) 143:23;168:14 hopeful (2) 78:13;165:15 hopefully (1) 174:15	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3) 14:12;141:10;145:16 Hovensa (1) 132:20 However (7) 19:12;57:24;91:13; 97:8;101:14;131:24; 157:22 huge (10) 23:1;40:14;89:10,11; 107:16;112:24;115:5; 120:8;163:19;166:22 human (22) 40:13;47:9;64:17;	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9 hybrid (10) 18:12;19:1;27:15; 56:2;104:22;108:17,22; 132:11;145:1;177:4 hybrids (3) 38:22;55:24;108:25 hydrofluorocarbons (1) 98:20 hype (1) 91:10	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1) 67:2 impact (14) 12:18;13:16;43:17; 70:19;94:10;107:16; 115:3;128:8;131:8; 133:17;135:4;161:1; 163:11;170:15 impacted (2) 97:9;158:20 impactful (1) 14:24 impacting (4) 108:3;129:8;131:15;
Highway (10) 8:13;9:15;24:23; 27:17;63:19;78:19; 124:17;183:22,23; 185:10 highways (2) 120:1;183:15 hike (2) 107:10;124:3 hiker (2) 57:17;184:16 hikes (4) 108:4,5,6,7 hiking (4) 86:6;107:11;124:9; 184:17 Hill (3) 50:9;153:23;156:25 himself (1) 64:15 hindsight (1) 48:17 hippie (1) 145:20	homes (2) 44:25;92:23 hometown (1) 63:13 Honda (2) 27:14;88:17 honest (1) 131:21 honored (1) 83:23 hope (26) 46:8;53:17;58:24; 62:21;70:7;76:18,19; 79:11,22;93:1,2;102:5; 114:19;115:23;131:4; 135:2;145:2;149:21,25; 166:9;167:12,15; 168:17;169:17;182:21; 191:18 hoped (2) 143:23;168:14 hopeful (2) 78:13;165:15 hopefully (1)	14,16,16;106:9;112:23; 141:3,9;144:23;149:5; 155:20;170:17;176:2; 177:11 household (2) 103:13;145:11 households (1) 97:16 House-proposed (1) 124:18 houses (2) 66:13,22 housing (3) 14:12;141:10;145:16 Hovensa (1) 132:20 However (7) 19:12;57:24;91:13; 97:8;101:14;131:24; 157:22 huge (10) 23:1;40:14;89:10,11; 107:16;112:24;115:5; 120:8;163:19;166:22 human (22)	116:24 hurt (6) 40:17;50:18;88:7; 181:6,8,8 hurtled (1) 70:5 hurts (1) 88:4 husband (5) 27:15;38:18,20; 112:4;160:4 Huynh (4) 8:2,4,8,9 hybrid (10) 18:12;19:1;27:15; 56:2;104:22;108:17,22; 132:11;145:1;177:4 hybrids (3) 38:22;55:24;108:25 hydrofluorocarbons (1) 98:20 hype (1) 91:10	Imagine (5) 75:14;94:1,2,7;178:4 imagining (1) 155:13 imbalance (1) 80:25 immediate (2) 63:21;132:19 immediately (3) 44:13;64:8;145:12 immense (2) 111:23;179:11 immigrants (1) 67:2 impact (14) 12:18;13:16;43:17; 70:19;94:10;107:16; 115:3;128:8;131:8; 133:17;135:4;161:1; 163:11;170:15 impacted (2) 97:9;158:20 impactful (1) 14:24 impacting (4)

impacts (5)	32:22;45:25;51:4;	Independence (1)	94:10	installed (1)
9:19;11:2;102:19;	55:7;110:4;132:3;	23:19	influenced (1)	112:22
146:19;174:5	148:15;151:11	Index (2)	129:23	instant (1)
impassioned (1)	improvising (1)	10:2;124:5	influential (1)	57:13
136:4	129:19	India (2)	31:19	instead (6)
imperative (2)	incentive (1)	100:22;133:5	inform (1)	48:23;58:19;97:21;
21:8;152:19	185:7	Indiana (1)	17:24	113:7;142:25;157:14
implement (3)	<b>Incentives (5)</b>	41:6	information (1)	instilled (1)
62:15;130:10;164:5	18:11;25:8;56:11;	indicate (1)	56:12	172:17
implemented (1)	62:13;132:12	97:8	infrastructure (5)	Institute (1)
130:20	incentivizes (1)	indicates (1)	19:2;25:15;115:14;	75:9
implementing (1)	18:9	97:15	130:8;134:20	Institutes (1)
122:5	inception (1)	individual (6)	infuriating (1)	110:9
importance (3)	93:11	14:15;36:13;118:8;	43:23	institution (1)
20:5;25:24;34:14	incident (1)	135:2;146:3;171:21	ingenuity (3)	147:13
important (41)	113:25	individuals (8)	71:9;110:25;137:5	institutions (2)
26:5;29:9,12,14,15;	include (6)	37:12;48:11;49:5,14;	inhabitants (1)	37:8,13
31:15,18;37:25;45:3;	9:1,9;10:8;100:21;	84:13;146:12;171:11,20	143:6	insulation (1)
46:8;48:19;58:21;	128:1,3	indoors (1)	inhabits (1)	155:21
59:18;60:23;62:7;	includes (1)	43:20	93:17	insult (1)
79:12;83:11;86:14;	23:17	indulge (1)	inherit (2)	110:25
99:24;112:19;113:25;	including (9)	167:8	164:2;170:13	insurance (2)
121:22;122:19;124:10,	11:14;13:11;32:18;	indulgence (1)	inherited (1)	104:20;164:19
20;128:12;138:16,17,	55:21;78:15,18;133:22;	150:4	161:3	integrity (1)
21;140:23;141:11;	136:20,24	Indus (1)	initially (1)	125:11
146:6;147:20;148:7;	income (2)	86:23	158:13	intelligence (1)
149:20;151:20;178:1,6,	112:14;172:1	industrial (2)	Initiative (5)	83:13
21;179:1,21	incontrovertible (1)	16:8;92:18	9:14;25:3;28:10;	intelligent (1)
importantly (2)	47:9	industrialized (2)	82:23;134:5	143:18
112:10;191:11	inconvenient (3)	101:15;186:2	initiatives (4)	intended (1)
imported (3)	28:23;47:5;92:9	industries (3)	9:7,9,11;78:18	64:16
51:12;142:15,16	increase (14)	56:17;126:12;134:21	innocent (1)	intensifying (1)
importing (1)	16:7;17:13,23;31:16;	industry (41)	168:5	43:15
73:5	32:4,24;78:20;115:10;	13:7,10;14:8;18:24;	innovate (3)	interaction (1)
imports (5)	129:13;139:21;142:20;	19:15;32:4;35:12;45:8,	31:25;32:2;35:12	163:12
54:24;133:9;148:11;	152:24;174:13;187:12	10;46:1,2;55:13,22;	innovating (1)	interagency (1)
156:12;188:14	increased (10)	56:9;61:13;62:18;	88:15	25:5
impossible (1)	13:14;25:14;59:22,	64:13;71:1,3,4,7,15;	innovation (5)	interest (10)
139:9	22;62:2;79:5;115:8;	88:13;95:14,14,16,16,	13:3;32:23;35:4;	12:7;97:18;105:8,9;
impressed (1)	120:21,23;166:8	24,24;112:18;115:1,7;	88:10;95:23	134:9;142:5;148:3;
159:11	increases (2)	122:7;151:21,24;	innovative (1)	154:16;167:14;190:23
impressive (1)	77:24;167:24	152:10;159:6;183:7,10,	148:18	interested (3)
170:6	increasing (9)	16;191:3	input (3)	122:11;151:15;160:3
improve (11)	37:8;54:25;128:14;	ineffective (1)	15:16;146:20;163:2	interesting (3)
18:16;28:8,12;45:11,	139:13;145:23,25;	127:15	inquiry (1)	64:10;133:10;188:10
11;46:1;55:23;130:1;	151:12;160:19;173:7	inefficiencies (1)	126:8	interests (4)
138:14;171:3,11	increasingly (1)	133:7	ins (1)	30:22;56:17;125:14;
improved (6)	40:5	inefficient (1)	176:13	126:9
32:11;37:9;73:14;	incredible (2)	132:17	insanity (1)	Interfaith (2)
132:6;140:4;189:21	85:24;171:20	inescapably (1)	60:18	39:19;116:21
improvement (3)	incredibly (3)	77:16	inside (3)	International (5)
37:7,20;153:6	89:11;180:3;182:3	inevitable (1)	28:18;124:7;141:9	9:10;45:10;46:2;
improvements (7)	increments (2)	127:4	insists (1)	148:6;187:1
12:20;28:6;62:5;	19:10;175:22	inevitably (1)	115:2	internationalist (1)
110:24;130:8;171:3,14	indeed (1)	70:5	install (1)	100:12
improving (8)	40:3	infinite (1)	170:19	internationally (2)

68:12;188:9	irrational (1)	178:6,18;179:12,20,25;	38:16;41:19,20;42:17;	154:2;164:4;169:9
Internet (1)	76:12	190:9	45:2;48:9;50:4,10,12;	keeping (3)
149:10	IRS (1)	JIM (6)	53:23;55:11;57:13;	140:22;141:9;155:22
interreligious (1)	102:25	2:21;85:8;94:23;95:2;	58:22;59:19;60:17;	keeps (1)
50:8	island (1)	170:2,5	61:14;62:16,20;64:15,	160:2
intersections (1)	101:25	Jimmy (2)	19;66:10,11,23;67:13;	Kennedy (5)
66:22	Islands (1)	112:22;146:11	68:14,16,23;71:25;	41:14,16,19,20,22
intimidating (1)	132:21	jitters (1)	72:21;74:22,24;75:22;	Kentucky (1)
170:6	isn't (11)	49:10	76:7,12;79:8,14;80:12;	112:2
into (38)	29:9,12,14,15;58:7;	<b>job</b> (16)	81:15,23;82:25;83:1,2,	kept (2)
21:6,10;23:1;44:11;	91:19;115:12,15;161:8,	13:8;31:2;45:5;56:20;	4,22;84:16;85:19;	82:11;122:3
60:4;65:13;74:3;76:9,	8;162:9	57:21;58:20;90:16;	86:11;89:23;90:5;	Kesaaraa (3)
13,21;81:10;89:21;	isolation (1)	100:4;106:1,8;114:9;	99:16;102:18;106:5;	33:11,14,19
90:24;92:8,19;102:21;	158:20	141:8;144:12;145:10;	107:5;108:25;109:6,12;	key (1)
103:20;109:8;117:20;	Israel (1)	158:16;165:5	111:20;115:4,15,25;	31:11
120:19;122:15;126:13;	137:8	job-killing (1)	119:13;121:20;122:3;	Kia (1)
130:3;135:5;137:8;	issue (24)	48:9	124:2,2;127:9;130:13;	140:8
141:3;148:23;157:6,23;	15:17;40:7;47:6;49:4;	<b>jobs</b> (19)	132:19;136:1,12;140:9;	kicker (1)
161:25;168:24,24;	50:20;51:2;67:18;	13:9;34:10;35:3;	143:14;144:24;145:17;	45:23
169:8,14;177:23;	73:16;79:23;98:10;	40:17;44:15;46:4;	150:21;156:25;158:4;	kicking (1)
179:13;181:19;188:21	100:2;115:3;118:22;	48:13;49:18;55:6;	159:1;161:2,20;168:14,	75:5
Introduce (1)	126:8;140:20;154:22;	73:18;74:7;88:11;	16;171:12;174:11;	kids (10)
180:12	159:4;160:9;165:14;	101:6,11;103:10;	175:10;178:2,3,24;	22:21;23:16;66:25;
introduction (1)	166:7;167:16;168:9;	148:18;151:10;185:16;	179:1,12,15;181:1;	67:8,22;87:7;109:5;
18:9	172:6;185:25	191:4	182:12;183:8,25;190:18	145:7;170:13;172:17
invasion (1)	issued (2)	JOHN (5)	justice (1)	Kilimanjaro (1)
148:5	17:5;97:5	85:13,17;116:11;	117:2	47:13
invented (1)	issues (21)	138:2,5		kill (2)
			T/	
82:14	44:11;77:23;78:3,3,7,	join (1)	K	44:15;173:18
Inventory (1)	11;81:8;82:7,9,11;	177:25		killed (1)
<b>Inventory (1)</b> 10:12	11;81:8;82:7,9,11; 98:22;99:6;106:3;	177:25 <b>joined</b> (1)	Kaisla (6)	<b>killed (1)</b> 44:16
Inventory (1) 10:12 invest (3)	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15;	177:25 <b>joined</b> (1) 124:25	<b>Kaisla (6)</b> 116:10;128:20,23,24;	killed (1) 44:16 killer (1)
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17;	177:25 joined (1) 124:25 joiner (1)	<b>Kaisla (6)</b> 116:10;128:20,23,24; 134:10;135:8	killed (1) 44:16 killer (1) 45:6
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4)	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15;	177:25 joined (1) 124:25 joiner (1) 96:14	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3)	killed (1) 44:16 killer (1) 45:6 killing (1)
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25;	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3)	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17;	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1)	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13)
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1)	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1)	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22;
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1)	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3)	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22;
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1)	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3)	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3;
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1)	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2)	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24;
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1)	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1)	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3)	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5)	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1)
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5 involved (5)	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3) 20:11,13,16	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20 jotted (1)	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5) 85:10;109:18,20,23,	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1) 135:21
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5 involved (5) 87:6;93:4;150:25;	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3) 20:11,13,16 January (1)	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20 jotted (1) 136:1	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5) 85:10;109:18,20,23, 25	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1) 135:21 kindest (1)
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5 involved (5) 87:6;93:4;150:25; 158:14;163:9	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3) 20:11,13,16 January (1) 2:7	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20 jotted (1) 136:1 JOY (3)	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5) 85:10;109:18,20,23, 25 kayak (1)	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1) 135:21 kindest (1) 66:5
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5 involved (5) 87:6;93:4;150:25; 158:14;163:9 involves (2)	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3) 20:11,13,16 January (1) 2:7 Japanese (1)	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20 jotted (1) 136:1 JOY (3) 49:25;50:4;125:2	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5) 85:10;109:18,20,23, 25 kayak (1) 144:18	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1) 135:21 kindest (1) 66:5 kinds (1)
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5 involved (5) 87:6;93:4;150:25; 158:14;163:9 involves (2) 37:6;47:24	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3) 20:11,13,16 January (1) 2:7 Japanese (1) 108:19	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20 jotted (1) 136:1 JOY (3) 49:25;50:4;125:2 Jr (1)	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5) 85:10;109:18,20,23, 25 kayak (1) 144:18 kayaks (1)	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1) 135:21 kindest (1) 66:5 kinds (1) 121:7
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5 involved (5) 87:6;93:4;150:25; 158:14;163:9 involves (2) 37:6;47:24 Iran (1)	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3) 20:11,13,16 January (1) 2:7 Japanese (1) 108:19 Jay (3)	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20 jotted (1) 136:1 JOY (3) 49:25;50:4;125:2 Jr (1) 178:16	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5) 85:10;109:18,20,23, 25 kayak (1) 144:18 kayaks (1) 144:21	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1) 135:21 kindest (1) 66:5 kinds (1) 121:7 King (2)
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5 involved (5) 87:6;93:4;150:25; 158:14;163:9 involves (2) 37:6;47:24 Iran (1) 60:16	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3) 20:11,13,16 January (1) 2:7 Japanese (1) 108:19 Jay (3) 71:19,21,25	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20 jotted (1) 136:1 JOY (3) 49:25;50:4;125:2 Jr (1) 178:16 July (2)	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5) 85:10;109:18,20,23, 25 kayak (1) 144:18 kayaks (1) 144:21 Kean (1)	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1) 135:21 kindest (1) 66:5 kinds (1) 121:7 King (2) 93:23;113:8
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5 involved (5) 87:6;93:4;150:25; 158:14;163:9 involves (2) 37:6;47:24 Iran (1) 60:16 Iraq (5)	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3) 20:11,13,16 January (1) 2:7 Japanese (1) 108:19 Jay (3) 71:19,21,25 Jeanette (3)	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20 jotted (1) 136:1 JOY (3) 49:25;50:4;125:2 Jr (1) 178:16 July (2) 19:20;97:3	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5) 85:10;109:18,20,23, 25 kayak (1) 144:18 kayaks (1) 144:21 Kean (1) 178:15	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1) 135:21 kindest (1) 66:5 kinds (1) 121:7 King (2) 93:23;113:8 knees (1)
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5 involved (5) 87:6;93:4;150:25; 158:14;163:9 involves (2) 37:6;47:24 Iran (1) 60:16 Iraq (5) 148:5,12;156:12;	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3) 20:11,13,16 January (1) 2:7 Japanese (1) 108:19 Jay (3) 71:19,21,25 Jeanette (3) 26:24;27:1,6	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20 jotted (1) 136:1 JOY (3) 49:25;50:4;125:2 Jr (1) 178:16 July (2) 19:20;97:3 jumping (1)	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5) 85:10;109:18,20,23, 25 kayak (1) 144:18 kayaks (1) 144:21 Kean (1) 178:15 Keefer (4)	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1) 135:21 kindest (1) 66:5 kinds (1) 121:7 King (2) 93:23;113:8 knees (1) 183:18
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5 involved (5) 87:6;93:4;150:25; 158:14;163:9 involves (2) 37:6;47:24 Iran (1) 60:16 Iraq (5) 148:5,12;156:12; 181:20;189:3	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3) 20:11,13,16 January (1) 2:7 Japanese (1) 108:19 Jay (3) 71:19,21,25 Jeanette (3) 26:24;27:1,6 Jefferson (2)	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20 jotted (1) 136:1 JOY (3) 49:25;50:4;125:2 Jr (1) 178:16 July (2) 19:20;97:3 jumping (1) 23:1	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5) 85:10;109:18,20,23, 25 kayak (1) 144:18 kayaks (1) 144:21 Kean (1) 178:15 Keefer (4) 85:8;90:7,9,12	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1) 135:21 kindest (1) 66:5 kinds (1) 121:7 King (2) 93:23;113:8 knees (1) 183:18 knew (1)
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5 involved (5) 87:6;93:4;150:25; 158:14;163:9 involves (2) 37:6;47:24 Iran (1) 60:16 Iraq (5) 148:5,12;156:12; 181:20;189:3 Iraqis (1)	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3) 20:11,13,16 January (1) 2:7 Japanese (1) 108:19 Jay (3) 71:19,21,25 Jeanette (3) 26:24;27:1,6 Jefferson (2) 36:1;37:6	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20 jotted (1) 136:1 JOY (3) 49:25;50:4;125:2 Jr (1) 178:16 July (2) 19:20;97:3 jumping (1) 23:1 jumps (1)	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5) 85:10;109:18,20,23, 25 kayak (1) 144:18 kayaks (1) 144:21 Kean (1) 178:15 Keefer (4) 85:8;90:7,9,12 keep (13)	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1) 135:21 kindest (1) 66:5 kinds (1) 121:7 King (2) 93:23;113:8 knees (1) 183:18 knew (1) 139:16
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5 involved (5) 87:6;93:4;150:25; 158:14;163:9 involves (2) 37:6;47:24 Iran (1) 60:16 Iraq (5) 148:5,12;156:12; 181:20;189:3 Iraqis (1) 70:6	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3) 20:11,13,16 January (1) 2:7 Japanese (1) 108:19 Jay (3) 71:19,21,25 Jeanette (3) 26:24;27:1,6 Jefferson (2) 36:1;37:6 Jersey (13)	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20 jotted (1) 136:1 JOY (3) 49:25;50:4;125:2 Jr (1) 178:16 July (2) 19:20;97:3 jumping (1) 23:1 jumps (1) 22:9	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5) 85:10;109:18,20,23, 25 kayak (1) 144:18 kayaks (1) 144:21 Kean (1) 178:15 Keefer (4) 85:8;90:7,9,12 keep (13) 24:10;42:14;55:18,	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1) 135:21 kindest (1) 66:5 kinds (1) 121:7 King (2) 93:23;113:8 knees (1) 183:18 knew (1) 139:16 knock (1)
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5 involved (5) 87:6;93:4;150:25; 158:14;163:9 involves (2) 37:6;47:24 Iran (1) 60:16 Iraq (5) 148:5,12;156:12; 181:20;189:3 Iraqis (1) 70:6 irony (1)	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3) 20:11,13,16 January (1) 2:7 Japanese (1) 108:19 Jay (3) 71:19,21,25 Jeanette (3) 26:24;27:1,6 Jefferson (2) 36:1;37:6 Jersey (13) 80:24;91:1;133:21;	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20 jotted (1) 136:1 JOY (3) 49:25;50:4;125:2 Jr (1) 178:16 July (2) 19:20;97:3 jumping (1) 23:1 jumps (1) 22:9 just (99)	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5) 85:10;109:18,20,23, 25 kayak (1) 144:18 kayaks (1) 144:21 Kean (1) 178:15 Keefer (4) 85:8;90:7,9,12 keep (13) 24:10;42:14;55:18, 20,24;111:19;115:6;	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1) 135:21 kindest (1) 66:5 kinds (1) 121:7 King (2) 93:23;113:8 knees (1) 183:18 knew (1) 139:16 knock (1) 80:8
Inventory (1) 10:12 invest (3) 18:14;32:15;115:15 investment (4) 17:18;18:18;27:25; 166:12 invisible (1) 49:6 invite (1) 24:12 invited (1) 47:5 involved (5) 87:6;93:4;150:25; 158:14;163:9 involves (2) 37:6;47:24 Iran (1) 60:16 Iraq (5) 148:5,12;156:12; 181:20;189:3 Iraqis (1) 70:6	11;81:8;82:7,9,11; 98:22;99:6;106:3; 124:4;129:8,16;158:15; 163:9;168:20;169:17; 171:23   Jackson (1) 50:15 James (1) 73:8 Janet (3) 20:11,13,16 January (1) 2:7 Japanese (1) 108:19 Jay (3) 71:19,21,25 Jeanette (3) 26:24;27:1,6 Jefferson (2) 36:1;37:6 Jersey (13)	177:25 joined (1) 124:25 joiner (1) 96:14 joint (3) 8:14;17:5;18:8 joke (1) 119:6 Jonathan (3) 85:10;109:20,24 Joseph (1) 153:20 jotted (1) 136:1 JOY (3) 49:25;50:4;125:2 Jr (1) 178:16 July (2) 19:20;97:3 jumping (1) 23:1 jumps (1) 22:9	Kaisla (6) 116:10;128:20,23,24; 134:10;135:8 Kathmandu (3) 47:21,21,23 Kathy (1) 85:10 Katie (3) 162:19,21,24 Katy (2) 106:11,13 Katz (5) 85:10;109:18,20,23, 25 kayak (1) 144:18 kayaks (1) 144:21 Kean (1) 178:15 Keefer (4) 85:8;90:7,9,12 keep (13) 24:10;42:14;55:18,	killed (1) 44:16 killer (1) 45:6 killing (1) 117:25 kind (13) 25:5;44:16;61:22; 70:8;80:13;95:22; 106:8;136:3;153:3; 157:6;178:25;183:24; 189:7 kindergarten (1) 135:21 kindest (1) 66:5 kinds (1) 121:7 King (2) 93:23;113:8 knees (1) 183:18 knew (1) 139:16 knock (1)

1.41.7	155.10	165.16	1 (0)	04.10
141:6	155:12	165:16	leave (8)	84:19
know (89)	landlord (2)	lawmakers (3)	43:17;44:25;93:24;	level (12)
10:16;21:9;24:11;	57:18,18	32:25;146:1;178:8	98:24,25;138:25;	10:21,23;17:12;
28:18,19;31:9;32:8;	landmarks (1)	lawn (1)	166:24;180:9	44:12;53:17,17;76:8,10;
48:2;54:20;55:9;59:20;	23:18	144:21	leaves (2)	117:13;179:7;180:3;
61:3,7,16,22,22;62:1,12,	lands (1)	Lawrence (1)	23:2;138:22	188:22
13,14;65:5;71:3;73:5,	123:18	67:15	leaving (1)	levels (5)
10,18;79:7;80:20;81:14,	landscape (1)	laws (2)	173:5	48:22;128:9;131:6;
21,24;82:1,15;83:5,7,	59:16	93:16;118:9	LED (3)	132:4;133:17
18;84:2,6,10,11,13,23;	` '	LAWSON (6)	28:2;48:15;142:21	liaison (1)
85:25;86:8,10,11,12;	64:2;107:7	153:10,11,14;156:16,	LEED (1)	139:19
87:16,17,17;89:2;97:10;	lanes (3)	18,22	130:15	liberal (2)
98:22;100:4,19;106:2;	64:2,3;132:7	lawyer (1)	left (4)	104:14;136:12
111:6;113:9;114:10;	languages (1)	77:10	66:2;69:17;72:14;	liberate (1)
120:24;121:23;122:7,	23:12	lax (1)	95:10	188:23
19;131:16;137:4;145:6;	Large (15)	48:14	lefty (1)	liberating (1)
151:1;155:6,16,23;	9:13;22:4;26:3,18;	layer (1)	136:12	49:1
160:25;161:10;173:20,	38:4;50:17;58:22;	98:23	leg (1)	liberties (1)
23;174:8,8,15;176:5,13,	97:24;98:2,9;159:12,15,	lead (11)	108:13	48:11
13;177:5;178:1,6,21;	18;168:7;186:3	18:22;25:14,24;	legal (1)	<b>Liberty (1)</b> 23:19
179:14;181:6;183:10,	largely (2) 77:13;87:23	41:10;67:15;71:2;	117:13	librarian (1)
24;185:8;187:3	,	115:24;130:11;132:10;	legislation (5)	123:11
knowing (2)	larger (6)	140:20;152:9	96:17;112:20;176:24;	
79:22;155:23	25:25;66:3;70:3,4;	leader (2) 172:11;178:15	178:22;189:19	library (1) 70:18
knowledge (1) 85:2	144:19;185:25	T	legislative (1) 97:1	
83:2 known (9)	largest (4)	leaders (2) 40:8;137:7		Licensing (1) 98:2
12:6;21:21;40:8;	48:21;100:15;114:24; 152:17	40:8;137:7 <b>Leadership (4)</b>	legislatively (1) 176:24	lies (3)
		9:14;41:11;136:18;	legislators (2)	40:15,15,20
63:20;66:5;67:14,19; 68:12;131:20	<b>Larry (3)</b> 116:13,15,19	165:13	31:7;178:11	life (31)
knows (3)	Last (32)	leading (1)	-	8:21;10:25;11:20;
66:1;69:3;109:4	27:23;28:4;31:14;	78:17	legislature (1) 178:7	16:18;40:1,2;47:23;
knuckle (1)	33:12;38:19;42:16;	leads (1)	lend (1)	65:6;70:6,19,23;72:20;
168:16	47:14;48:14;63:1,14;	37:19	186:14	73:3;79:18;83:10;
Krakatoa (1)	64:6;65:21;68:1;70:23;	Leaf (1)	length (1)	107:14;110:18;129:2,2;
181:7	73:1;75:16;97:3,16;	177:24	116:23	138:8;154:5,11;155:5,
Kramer (5)	108:13;111:6;124:11;	LEAGUE (5)	lens (1)	16;166:16;173:9;185:3,
85:9;99:9,11,14,15	130:16;137:11;138:8;	15:9,12,14;96:15;	154:3	14;188:11;189:16,21
	148:4;149:9,9;153:3;	97:3	less (33)	life-changing (1)
${f L}$	157:18;160:23;173:10;	League's (1)	22:16;26:11;29:22;	41:25
	189:11	15:18	37:25;51:5,6,7,7,7,8,9,	lifeline (1)
lack (2)	lastly (1)	learn (2)	10,11,12,14;60:14,14;	107:4
60:19;129:18	144:24	83:24;174:6	62:3;70:4,4;88:4;	lifespans (1)
lacking (1)	late (5)	learned (4)	132:16;139:7;142:11;	16:17
101:21	21:3;102:7;150:5;	41:6;43:12;99:21;	148:22,22;150:20;	lifetime (3)
ladies (1)	183:17;191:22	112:6	159:19;178:22;185:23;	14:13,17;155:6
52:17	later (7)	learning (1)	187:15,16;191:2	light (12)
lady (1)	8:15;35:16;118:24;	53:11	lessen (1)	12:15;31:17;34:3,5;
182:5	139:19;140:6;153:4;	leashes (1)	20:1	39:20;59:11;78:21;
LaHood (1)	159:10	23:6	lessening (1)	106:24;116:21;170:25;
50:15	latter (1)	least (13)	60:20	184:21;186:22
lakes (2)	67:14	50:18;54:23;58:10;	letter (2)	LIGHT-DUTY (6)
88:22;92:19	laudable (2)	63:14;84:23;117:25;	139:16,20	2:3;8:16;12:13;13:12;
land (2)	19:5;25:4	120:1;130:3;148:13;	letters (1)	17:8;18:13
92:23;125:6	law (4)	162:14;174:18;186:16;	34:19	lightly (1)
landfills (1)	62:22;79:8;148:6;	189:11	letting (1)	43:10
			<u> </u>	

281.266.21   170.6   36.10.11   43.21.104.11.14.3   Inch.(3)	lights (3)	80:21;111:17;163:2;	logic (2)	losing (3)	164:22
8:12:21:7:23:19; 22:7:70:14:59:7; bgically (1)	28:1,2;66:21	170:6	36:10,11	43:21;104:1;114:3	lunch (3)
2422256.021-03-03;   17521:167-1865.19   de5:4822551:13529;   1523   1523   1591.21   1313:13   10 (38)   1313:13   1313:13   1313:13   1323:13	like (88)	listening (7)	logical (1)	loss (1)	23:16;55:22;103:8
342.238.1642.1524.2 152-3 165.242.5151.352.9 145.54.255.61.352.95.96.66 68.116.91.72.83732.0 37.17 37.38.31.92.18.49.12.1 23.66.22.66.99.13.2 16.62.66.29.69.13.2 16.62.66.29.19.19.16.2 111.2.21.11.62.23.1 116.2.23.11.10.23.1 11.2.02.11.16.2.3.1 11.2.02.11.16.3	8:12;21:7;23:19;	22:7;70:14;99:7;	82:5	70:6	<b>Lung (2)</b>
465-482-551-13-52-9   152-3	24:22;25:6;29:19;30:3;	175:21;176:7;186:5,19		` /	36:18;37:20
Mats   19.55   Al   19.56   Section   15.91	34:22;38:16;42:15,24;				lungs (2)
S88.99.91.82.06.11.7,   C3.23.177.5.10   Interature (1)   36.71.7   Ititle (17)   136.8   13	46:5;48:25;51:13;52:9,				*
25.64.22.65.19.66.6; literature (1)	14;54:19;55:4,11;56:8;	•	1		
683:11.99:1728-873-00. 74:12,1975:2176:7; 793:83:19,0169:15: 16646:680:11.91:16: 92:12.111.19,114:3; 879.988:21.90:69:15: 16646:680:11.91:16: 92:12.111.19,114:3; 93:22.24.958:99:16: 10:16:10625:108:25, 7.1624:109:2,23.110-7; 1112.21;116:2.3; 1192.24; 123:16;1244:133:20, 134:12;136:10;1373, 1112.21;136:23, 112.24;121.15.63:18, 112.14.15.3, 11					
74:12.1975:21;76.7;   little (17)		` /			
793.831.92.1849.125   23.62.52.61.581.5   65.10.667.68.24;   87.988.21.90.691.5;   66.64.680.11.91.16   96.23.137.4;144.5;   101.61.06.25.108.2.5   162.71.72.25.174.3;   140.23.159.8;161.11;   176.17.171.791.0;   176.17.171.791.0;   176.17.171.791.0;   176.17.171.791.0;   183.10;187.23;   140.23.159.8;161.11;   176.17.171.791.0;   183.10;187.23;   140.23.159.8;161.11;   176.17.171.791.0;   183.10;187.33;   140.23.159.8;161.11;   176.17.171.791.0;   183.10;187.23;   140.23.159.8;161.11;   176.17.171.791.0;   183.10;187.23;   183.10;187.21;   190.20   183.9;186.18   190;15					
					` ′
93:22,24:95:89-91.6; 101:16;106:25:108:2.5, 106:16;106:23:108:2.5, 111:221;116:2.3; 111:221;116:2.3; 111:221;116:2.3; 112:211:17:121:4; 123:16;124:8;133:20; 134:21;136:10;137:3, 11:20;21;156;3:18, 166:20;169:9;173:24; 166:20;169:9;173:24; 179:9;181:6]184:22; 188:3 166:20;169:9;173:24; 189:103:14;105:5,13; 166:20;169:9;173:24; 189:103:14;105:5,13; 166:20;169:9;173:24; 189:103:14;105:5,13; 166:20;169:9;173:24; 189:103:14;105:5,13; 166:20;169:9;173:24; 188:3 166:20;169:9;173:24; 189:103:14;105:5,13; 166:20;169:9;173:24; 189:103:14;105:5,13; 166:20;169:9;173:24; 189:113:14;102:24; 188:3 189:188:3 166:20;169:9;173:24; 189:113:16;128:2 188:3 189:188:13;100:2 189:113:16;128:2 199:113:16;128:2 199:113:16;13:13:1 11:00:12:117:11:19:9; 126:8;138:2:1 140:21;17:11;119:9; 126:8;138:2:1 140:21;17:11;119:9; 126:8;138:2:1 140:21;17:11;119:9; 126:8;138:2:1 140:21;17:11;119:9; 126:8;138:2:1 140:21;17:11;119:9; 126:8;138:2:1 140:21;17:11;119:9; 126:8;138:2:1 140:21;17:11;119:9; 126:8;138:2:1 140:21;17:11;119:9; 126:8;138:2:1 140:12:117:11;119:9; 126:8;138:2:1 140:12:117:11;119:9; 126:8;138:2:1 140:12:117:11;119:9; 126:8;138:2 140:12:17:11;119:9; 110:10 110:10 145:5;15;5;18:18 113:6 140:111:10:19 110:10 110					116:12;121:16,19
101:16:106:25;108:2.5,					3.4
7.16.24:109.2.23:110:7,					IVI.
111:2,21:116:2,3;   119:24:121:7;122:4;   122:14:13:14:14:13:177:20   133:6;123:6;13:24;   119:22:4;   141:23:6;13:24;   119:21:15:63:18,   112:21:117:11:19:9;   141:23:15:13:22;   146:23:15:8*4;165:8;   166:20:169:9;173:24;   179:9;181:6;184:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   138:7;140:6;189:16   123:11   123:11   100k (21)   138:19   13					1. (1)
19:24:121:7;122:4;   123:16;124:8;133:20;   11:20;21:15:63:18,   11:20;21:15:63:18,   126:8;138:25   11:20;21:15:15;138:25   126:8;138:25   126:20;169:9;173:24;   23;66:7;67:9;69:1,4;   406:23;158:4;165:8;   166:20;169:9;173:24;   106:18:107:12:11:25;   126:8;138:25   100der (2)   36:17;52:4;65:11;   36:17;52:4;65:11;   60:16,16   83:11;88:3;97:12;   179:9;181:6;184:22;   188:3   159:1182:135:22;   188:3   188:3   189:144:12;164:22;   188:3   189:144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   138:7;140:6;189:16   23:11:32:11   14:15   100k (21)   123:11   14:15   100k (21)   123:11   14:15   100k (21)   138:19					
123:16;124:8;133:20; 134:21;136:10;137:3, 11;140:9;143:12.3; 23:66;76:96:91.4; 100:everdue (1)			· ·		
134:21;136:10;137:3,				` '	
11;140:9;143:12,23;		` /			
146:2,3;158:4;165:8;   166:20;169:9;173:24;   106:18;107:12;111:25;   136:9;144:12;163:22;   136:9;144:12;164:22;   136:9;144:12;164:22;   138:7;140:6;189:16   123:11   10ok (1)   123:11   10ok (2)   174:4;180:20   24:18;121:22;121:26;199:13;   136:13;143:16;145:16   10p;133:23   10p;133:			1		` '
166:20,169:9,173:24;   106:18:107:12;111:25;   1519:18:21:135:22;   159:18:21:135:22;   159:18:21:135:22;   159:19;130:6   114:15   199:10   114:15   199:10   114:15   199:10   114:15   199:10   114:15   199:10   113:8   155:2; 159:22   136:9;144:12;164:22;   129:19;130:6   114:15   100et (1)   114:15   190:10   11				` ′	
179:9;181:6;184:22;   115:19;118:21;135:22;   25:10;32:12;77:21;   113:8   155:21;159:22   magnificent (1)   190:10   main (1)   138:19   138:7;140:6;189:16   22:7;99:5   livelihood (1)   70:10   70:3;85:18;87:10;   138:19   113:17:137:3;190:8   main (2)   98:71:13;89:89:2:12;   166:22;43:31:11:18;   186:127:24;134:19;   182:44:25;51:9;   175:21;77:21;   113:8   love (10)   main (1)   138:19   138:19   138:19;113:16   love (10)   main (1)   138:19   138:19   138:19;113:18;   139:113:16   love (10)   main (1)   138:19   138:19   139:13;110:8;   139:13;110:8;   139:13;110:8;   139:13;110:8;   139:13;110:8;   139:13;110:8;   139:13;113:18;   139:13;113:18;   139:37:113   139:13;113:18;				-	· · · · · · · · · · · · · · · · · · ·
188:3   136:9;144:12;164:22;   129:19;130:6   lousy (1)   190:10   main (1)   190:10   main (1)   138:19   lowe (2)   138:7;140:6;189:16   28:7;99:5   livelihood (1)   44:2   limited (5)   18:2;44:25;51:9;   199;38:13;119:22;   18:6;127:24;134:19;   16:6;127:24;134:19;   18:6;127:24;134:19;   18:6;127:24;134:19;   18:6;127:24;134:19;   18:6;127:24;134:19;   18:6;127:24;134:19;   18:6;127:24;134:19;   18:6;127:24;134:19;   18:6;127:24;134:19;   18:6;127:24;134:19;   18:6;127:24;134:19;   18:6;127:24;134:19;   18:6;127:24;134:19;   18:6;127:24;134:19;   18:6;127:24;134:19;   18:6;127:24;134:19;   105:24,25;129:5;   132:18;135:6;157:6   10ses (1)   104:17   maintain (2)   9:3;71:13   100:8 (1)   100:8 (3)   10:3;13;13;13   10:4:11;12:3;119:29;   10:5:6:6:21;80:19;   10:5:6:6:21;80:19;   10:5:6:6:6:7:21;97:18   lower (4)   25:16;122:11;139:6;   15:6:6:11   15:7   49:13;56:8;62:9;11;   15:7;   15:17   49:13;56:8;62:9;11;   15:17   10oms (1)   25:12;15:11;139:6;   16:6:11:15;22:14;15:31   10oms (1)   139:19   65:25;79:8:82:8:83:5;   113:16   10in (1)   10:11;12:11;13:19:19					
likely (5)					
27:18;118:1;120:24;   122:6;145:1   138:7;140:6;189:16   123:11   10ok (21)   70:3;85:18;87:10;   138:19   138:7;140:6;189:16   123:11   10ok (21)   70:3;85:18;87:10;   10ok (3)   113:17;137:3;190:8   138:19			-		
122:6;145:1   99:2!;128:25;129:4;   138:7;140:6;189:16   23:21;35:16;45:5;   107:1,5,6,9;112:8,10;   113:17;137:3;190:8   113:17;137:3;190:8   113:16   113:17;137:3;190:8   113:17;137:3;190:8   113:16   113:17;137:3;190:8   113:17;137:17   113:17;137:13   113:17;137:13   113:17;137:13   113:17;137:13   113:17;137:13   113:17;137:13   113:17;137:13   113:17;137:13   113:17;137:13   113:17;137:13   113:17;137:13   113:17;137:13   113:17;137:13   113:17;137:13   113:17;137:13   113:17;137	• • •				
likewise (2)		` '		` ′	
28:7;99:5   liwit (1)	*				
Imit (1)	` '				
44:2   liwes (12)	,	` ′			
Imited (5)					
19:9;38:13;119:22;		` '		1	T
146:12;188:22         118:6;127:24;134:19; 174:4;180:20         looked (6)         125:7         maintenance (1)           24:8         living (9)         86:23;89:2;153:3         loves (1)         104:17         major (9)           limits (2)         57:24;75:23;86:23; 90:22;112:6;119:13; 136:13;143:16;145:16         14:23;88:1,15;112:9; 136:13,13,13         136:13,13,13         104:11;112:13;119:20; 136:13,13,13           Lincoln (1)         136:13;143:16;145:16         looks (3)         136:13;143:16;145:16         10oks (3)         56:6;67:21;97:18         majorities (1)           1ine (5)         177:3         local (8)         looming (1)         56:6;67:21;97:18         majorities (1)           22:16;32:21;110:8; 149:11         10cal (8)         looming (1)         25:16;122:11;139:6; 18         MAJORITY (10)           147:13;177:20         8:19;9:11;36:4,22; 40:6         187:10         184:18         lowering (1)         30:12,16,16;31:18; 56:16;61:15;92:13; 17:8;136:10;169:18         MAJORITY (10)           67:5         184:18         locally (1)         15:7         49:13;56:8;62:9,11; 57:18;67:22         low-income (2)         57:18;67:22         make (54)           linked (2)         located (4)         125:12;152:14;155:3         lowly (1)         36:9;43:84;417;86:17;19; 86:29;93:22; 19:13         65:55;79:8;82:8;83:5, 19:19         65:55;79:8;82:8;83:5, 1	* *				
174:4;180:20			, , , , , , , , , , , , , , , , , , ,		
24:8   living (9)	·		1		
limits (2)		-			
38:14;48:24       90:22;112:6;119:13;       14:23;88:1,15;112:9;       136:13,13,13       104:11;112:13;119:20;         Lincoln (1)       136:13;143:16;145:16       lobbyists (1)       129:16;177:24;190:9,15       low (3)       131:8;181:18;187:4         93:23       lobbyists (1)       177:3       looks (3)       56:6;67:21;97:18       majorities (1)         147:13;177:20       8:19;9:11;36:4,22;       looming (1)       25:16;122:11;139:6;       MAJORITY (10)         14:12;57:10;151:7;       184:18       looms (1)       56:16;61:15;92:13;         67:5       184:18       50:17       25:22       117:8;136:10;169:18         lingering (1)       locally (1)       loopholes (7)       low-income (2)       make (54)         65:11       151:7       49:13;56:8;62:9,11;       57:18;67:22       16:2;20:20;26:9;32:2;         linked (2)       located (4)       125:12;152:14;155:3       lowly (1)       36:9;43:8;49:12;58:13;         60:19;68:5       18:20;36:2;70:13;       loops (1)       139:19       65:25;79:8;82:8;83:5,         LISA (2)       167:6       75:5       lubricants (1)       20,25;84:4,17;86:17,19;         165:22;166:3       location (1)       96:11       99:21;130:24       luck (1)       105:18;110:24;115:18;         152:6		<b>O</b> 1 1			•
Lincoln (1)         136:13;143:16;145:16         129:16;177:24;190:9,15         low (3)         131:8;181:18;187:4           93:23         lobbyists (1)         177:3         56:6;67:21;97:18         majorities (1)           22:16;32:21;110:8; 147:13;177:20         local (8)         looming (1)         25:16;122:11;139:6; 187:10         MAJORITY (10)           lined (1)         44:12;57:10;151:7; 184:18         looms (1)         lowering (1)         56:16;61:15;92:13; 117:8;136:10;169:18           lingering (1)         locally (1)         loopholes (7)         low-income (2)         make (54)           linked (2)         49:13;56:8;62:9,11; 125:12;152:14;155:3         lowly (1)         36:9;43:8;49:12;58:13; 139:19           60:19;68:5         18:20;36:2;70:13; 167:6         75:5         lubricants (1)         20:25;84:4,17;86:17,19; 103:8; 103:8; 115:26           LISA (2)         167:6         75:5         lubricants (1)         20:25;84:4,17;86:17,19; 103:8; 103:8; 103:8; 103:8; 115:26           list (1)         96:11         99:21;130:24         luck (1)         105:18;110:24;115:18; 117:21;118:5;122:5; 103:18; 103:24; 117:21;118:5;122:5; 103:18; 103:	` '		• • •		
93:23   lobbyists (1)   177:3   75:1,1;158:4   lower (4)   19:24     22:16;32:21;110:8; 147:13;177:20   8:19;9:11;36:4,22;   40:6   187:10   30:12,16,16;31:18;     lined (1)					
line (5)       177:3       75:1,1;158:4       lower (4)       19:24         22:16;32:21;110:8; 147:13;177:20       8:19;9:11;36:4,22; 40:6       187:10       30:12,16,16;31:18; 30:12,16,16;31:18; 187:10         lined (1)       44:12;57:10;151:7; 184:18       looms (1)       lowering (1)       56:16;61:15;92:13; 17:8;136:10;169:18         lingering (1)       locally (1)       loopholes (7)       low-income (2)       make (54)         65:11       151:7       49:13;56:8;62:9,11; 125:14;155:3       lowly (1)       36:9;43:8;49:12;58:13; 160;84         60:19;68:5       18:20;36:2;70:13; 167:6       167:6       75:5       lubricants (1)       20,25;84:4,17;86:17,19; 103:8; 103:8; 110:24; 115:18; 103:8; 110:24; 115:18; 115:16         LISA (2)       96:11       99:21;130:24       luck (1)       105:18;110:24;115:18; 110:24;115:18; 105:12:5; 122:5; 110:18					majorities (1)
22:16;32:21;110:8;         local (8)         looming (1)         25:16;122:11;139:6;         MAJORITY (10)           147:13;177:20         8:19;9:11;36:4,22;         40:6         187:10         30:12,16,16;31:18;           lined (1)         44:12;57:10;151:7;         looms (1)         lowering (1)         56:16;61:15;92:13;           67:5         184:18         50:17         25:22         117:8;136:10;169:18           lingering (1)         locally (1)         loopholes (7)         low-income (2)         make (54)           65:11         151:7         49:13;56:8;62:9,11;         57:18;67:22         16:2;20:20;26:9;32:2;           linked (2)         located (4)         125:12;152:14;155:3         lowly (1)         36:9;43:8;49:12;58:13;           60:19;68:5         18:20;36:2;70:13;         loops (1)         139:19         65:25;79:8;82:8;83:5,           LISA (2)         167:6         75:5         lubricants (1)         20,25;84:4,17;86:17,19;           165:22;166:3         location (1)         Los (2)         95:19         87:8;98:1;103:8;           list (1)         96:11         99:21;130:24         luck (1)         105:18;110:24;115:18;           152:6         Logan (1)         lose (1)         64:4         117:21;118:5;122:5;					19:24
147:13;177:20       8:19;9:11;36:4,22;       40:6       187:10       30:12,16,16;31:18;         lined (1)       44:12;57:10;151:7;       looms (1)       56:16;61:15;92:13;         67:5       184:18       50:17       25:22       117:8;136:10;169:18         lingering (1)       locally (1)       loopholes (7)       low-income (2)       make (54)         65:11       151:7       49:13;56:8;62:9,11;       57:18;67:22       16:2;20:20;26:9;32:2;         linked (2)       located (4)       125:12;152:14;155:3       lowly (1)       36:9;43:8;49:12;58:13;         60:19;68:5       18:20;36:2;70:13;       loops (1)       139:19       65:25;79:8;82:8;83:5,         LISA (2)       167:6       75:5       lubricants (1)       20,25;84:4,17;86:17,19;         165:22;166:3       location (1)       Los (2)       95:19       87:8;98:1;103:8;         list (1)       96:11       99:21;130:24       luck (1)       105:18;110:24;115:18;         152:6       Logan (1)       lose (1)       64:4       117:21;118:5;122:5;		local (8)		` '	MAJORITY (10)
lined (1)       44:12;57:10;151:7;       looms (1)       lowering (1)       56:16;61:15;92:13;         67:5       184:18       50:17       25:22       117:8;136:10;169:18         lingering (1)       locally (1)       loopholes (7)       low-income (2)       make (54)         65:11       151:7       49:13;56:8;62:9,11;       57:18;67:22       16:2;20:20;26:9;32:2;         linked (2)       located (4)       125:12;152:14;155:3       lowly (1)       36:9;43:8;49:12;58:13;         60:19;68:5       18:20;36:2;70:13;       loops (1)       139:19       65:25;79:8;82:8;83:5,         LISA (2)       167:6       75:5       lubricants (1)       20,25;84:4,17;86:17,19;         165:22;166:3       location (1)       Los (2)       95:19       87:8;98:1;103:8;         list (1)       96:11       99:21;130:24       luck (1)       105:18;110:24;115:18;         152:6       Logan (1)       lose (1)       64:4       117:21;118:5;122:5;		` '			30:12,16,16;31:18;
67:5       184:18       50:17       25:22       117:8;136:10;169:18         lingering (1)       locally (1)       loopholes (7)       low-income (2)       make (54)         65:11       151:7       49:13;56:8;62:9,11;       57:18;67:22       16:2;20:20;26:9;32:2;         linked (2)       located (4)       125:12;152:14;155:3       lowly (1)       36:9;43:8;49:12;58:13;         60:19;68:5       18:20;36:2;70:13;       loops (1)       139:19       65:25;79:8;82:8;83:5,         LISA (2)       167:6       75:5       lubricants (1)       20,25;84:4,17;86:17,19;         165:22;166:3       location (1)       Los (2)       95:19       87:8;98:1;103:8;         list (1)       96:11       99:21;130:24       luck (1)       105:18;110:24;115:18;         152:6       Logan (1)       lose (1)       64:4       117:21;118:5;122:5;			looms (1)	lowering (1)	56:16;61:15;92:13;
65:11       151:7       49:13;56:8;62:9,11;       57:18;67:22       16:2;20:20;26:9;32:2;         linked (2)       located (4)       125:12;152:14;155:3       lowly (1)       36:9;43:8;49:12;58:13;         60:19;68:5       18:20;36:2;70:13;       loops (1)       139:19       65:25;79:8;82:8;83:5,         LISA (2)       167:6       75:5       lubricants (1)       20,25;84:4,17;86:17,19;         165:22;166:3       location (1)       Los (2)       95:19       87:8;98:1;103:8;         list (1)       96:11       99:21;130:24       luck (1)       105:18;110:24;115:18;         152:6       Logan (1)       lose (1)       64:4       117:21;118:5;122:5;			50:17		117:8;136:10;169:18
linked (2)         located (4)         125:12;152:14;155:3         lowly (1)         36:9;43:8;49:12;58:13;           60:19;68:5         18:20;36:2;70:13;         loops (1)         139:19         65:25;79:8;82:8;83:5,           LISA (2)         167:6         75:5         lubricants (1)         20,25;84:4,17;86:17,19;           165:22;166:3         location (1)         Los (2)         95:19         87:8;98:1;103:8;           list (1)         96:11         99:21;130:24         luck (1)         105:18;110:24;115:18;           152:6         Logan (1)         lose (1)         64:4         117:21;118:5;122:5;	lingering (1)	locally (1)	loopholes (7)	low-income (2)	make (54)
60:19;68:5       18:20;36:2;70:13;       loops (1)       139:19       65:25;79:8;82:8;83:5,         LISA (2)       167:6       75:5       lubricants (1)       20,25;84:4,17;86:17,19;         165:22;166:3       location (1)       Los (2)       95:19       87:8;98:1;103:8;         list (1)       96:11       99:21;130:24       luck (1)       105:18;110:24;115:18;         152:6       Logan (1)       lose (1)       64:4       117:21;118:5;122:5;	65:11	151:7	49:13;56:8;62:9,11;	57:18;67:22	16:2;20:20;26:9;32:2;
LISA (2)       167:6       75:5       lubricants (1)       20,25;84:4,17;86:17,19;         165:22;166:3       location (1)       Los (2)       95:19       87:8;98:1;103:8;         list (1)       96:11       99:21;130:24       luck (1)       105:18;110:24;115:18;         152:6       Logan (1)       lose (1)       64:4       117:21;118:5;122:5;	linked (2)	located (4)	125:12;152:14;155:3	lowly (1)	36:9;43:8;49:12;58:13;
165:22;166:3       location (1)       Los (2)       95:19       87:8;98:1;103:8;         list (1)       96:11       99:21;130:24       luck (1)       105:18;110:24;115:18;         152:6       Logan (1)       lose (1)       64:4       117:21;118:5;122:5;	60:19;68:5	18:20;36:2;70:13;	loops (1)	139:19	65:25;79:8;82:8;83:5,
list (1)       96:11       99:21;130:24       luck (1)       105:18;110:24;115:18;         152:6       Logan (1)       lose (1)       64:4       117:21;118:5;122:5;	LISA (2)			lubricants (1)	
152:6 Logan (1) lose (1) 64:4 117:21;118:5;122:5;	165:22;166:3	location (1)	Los (2)	95:19	87:8;98:1;103:8;
	<b>list</b> (1)	96:11	99:21;130:24	luck (1)	
listen (4) 21:22 101:9 lucky (1) 125:4;126:24;128:16;	152:6		lose (1)	64:4	
	listen (4)	21:22	101:9	lucky (1)	125:4;126:24;128:16;

131:5;132:16;136:23;	86:9;96:22;97:15,19;	math (1)	64:10	melting (1)
137:7;146:3,14;156:1;	99:4;102:1,3;107:10;	100:8	measures (4)	75:5
157:17;160:19,21;	108:16;118:7;119:9;	Matt (1)	15:19;44:19;130:25;	member (11)
161:7,16,21;169:5;	126:9;127:2;129:24;	52:15	131:25	15:12;20:17;53:20;
171:13;179:6;183:8;	131:6;133:21;134:21;	matter (9)	measuring (1)	57:7,9,11;59:8;88:9;
185:4;190:1,25;191:1,4,	147:19;151:17;152:1;	9:25;16:18;23:24;	98:21	116:20;118:25;123:12
8,11	154:1;163:2;166:17;	44:8;68:25;131:12;	mechanic (1)	MEMBERS (7)
makers (4)	168:20,20;174:2;	152:21;160:7;176:16	156:24	2:14,19;24:4;33:25;
34:13;56:20;133:21;	176:21;180:23;184:17;	matters (7)	medals (1)	34:13;140:25;175:8
159:17	186:17;187:17;190:5,25	29:23;98:24,25;99:2;	175:12	membership (1)
makes (4)	Marcellus (1)	143:5;144:10;167:15	MEDFORD (76)	12:7
44:14;61:24;105:18;	63:16	MATTHEW (2)	2:20;21:3;30:6;33:10,	memorized (1)
190:23	March (3)	53:2,7	21;35:18;39:8;41:13;	42:10
making (17)	10:3;57:14;170:18	may (15)	46:12,23;49:22;51:23;	men (1)
12:18;29:12;44:11;	Margillo (3)	25:18;51:13;63:14;	52:1,9;69:13,15,18;	93:22
52:11;53:16;60:14,14;	162:19,21,24	67:21;68:2;101:17;	71:18;76:5;77:2;80:1,	mention (4)
62:10;73:24;99:2;	MARGO (1)	119:21;126:22;133:22;	15;82:3;84:21;90:4;	14:18;65:16;75:21;
105:21;106:6;129:8;	2:15	138:24;139:8;140:20;	94:20;96:2;99:8;102:9;	82:2
131:23;134:11;159:7,18	Marja (3)	160:10;166:17;187:22	106:10;109:14,17;	mentioned (5)
malaise (1)	116:10;128:20,24	maybe (8)	111:5,10;116:7;118:13;	27:13;119:5;158:19;
30:25	mark (2)	58:18,21;62:1;72:23;	121:13;123:5;125:18;	181:10;182:9
malaria (1)	168:23;169:2	79:14,14;108:22;145:2	128:18;134:8;135:7,10,	mercury (3)
128:9	marked (2)	Mayors (1)	17;137:19,23;138:1;	28:2;67:16;128:3
man (1)	54:25;111:20	9:13	140:16;141:18;146:8,	Meredith (3)
143:18	Market (11)	Mayors' (1)	25;147:2,9;150:3,12;	16:21,23;17:2
manage (1)	2:5;61:9,9;126:24;	9:12	153:8,12;156:15;158:2;	Mershon (3)
132:8	127:1,14,17,19,23;	Mazda (1)	161:20;162:12,18;	172:19,21,24
managed (1)	128:1,2	152:6	164:7;165:18;169:23;	Meryl (3)
14:21	markets (1)	McClellan (4)	172:15;174:20;175:14,	80:2,4,18
MANAGEMENT (4)	18:22	39:9,11,14,15	19;180:6,12;182:24;	mess (1)
8:6,11,18;142:3	married (2)	McCollum (1)	184:9;186:6;189:10;	173:6
mandate (2)	166:11;182:6	2:9	191:21	messages (1)
99:25;188:17	Martin (1)	McILVAINE (2)	media (1)	188:17
mandatory (1)	93:23	189:13,15	34:13	messengers (1)
132:8	marvelous (1)	McKee (4)	medical (9)	56:19
manmade (1)	47:14	59:2,4,7,8	28:24;36:5;37:7,11,	met (3)
133:15	Mary (10)	<b>MD</b> (2)	13,17;38:3;81:12;	63:8;79:2;112:3
mantra (1)	15:5,8,12;116:12;	35:21;53:2	141:25	metals (1)
115:6	123:7,11;153:9,12,16,	mean (10)	medication (1)	67:23
manufacturers (10)	19	51:6;61:12;63:23;	182:8	methods (1)
17:7,17;18:14,20;	masked (1)	82:14;83:2;84:10;88:5;	medications (1)	81:19
20:6;91:9;160:15,20;	190:12	143:16;162:10;176:1	54:11	metric (4)
177:9,16	masks (1)	means (13)	medicine (1)	13:16;45:20;163:23;
manufacturers' (1)	47:24	51:7,10,12;90:6;	87:4	188:2
94:15	mass (2)	101:6;107:5;114:8;	meet (8)	Metro (2)
manufacturing (7)	180:25;181:2	118:3;119:23;120:12;	22:11;31:7;32:25;	140:8,9
13:4;14:8;18:16;	Massachusetts (3)	144:4,7;148:22	82:6;123:14;141:14,15;	Mexico (2)
19:14;74:4,17;101:19	138:8;140:7;141:4	meant (1)	179:23	98:12;100:22
many (61)	masses (1)	143:15	meeting (2)	Michael (1)
14:11;23:13,18;	93:19	meantime (1)	29:14;82:11	180:18
25:13;32:19;35:2;	massive (1)	161:13	meetings (1)	Michigan (2)
36:10;38:20;41:8;45:4;	92:19	Meanwhile (1)	176:4	31:20;138:7
47:24;48:19;51:9;	master's (2)	152:15	meltdown (1)	MICHNYA (5)
54:10;57:18,19;61:5;	112:4;157:1	measurable (1)	48:15	63:2,5,6,8,11
65:7;66:1,2,24;67:1,9;	match (1)	25:21	melted (1)	M-i-c-h-n-y-a (1)
68:3;78:4,18,23;79:22;	146:19	measure (1)	75:12	63:6

midair (1)	36:20;107:20	modify (1)	119:16,18,22;120:7,13,	mountains (3)
23:7	minerals (1)	117:20	17;122:6,9,10,11,23;	88:22;190:7,7
Middle (4)	67:21	moguls (1)	128:10;129:7;130:19;	mountaintop (1)
60:7;133:6;137:8;	miniature (1)	160:14	131:23;132:5,7;133:3;	128:5
167:7	23:17	mold (1)	136:3;138:22;140:15;	move (11)
midterm (1)	minimizing (1)	149:4	142:11;147:23;155:4;	37:23;65:6,15;85:7;
19:7	160:3	mom (1)	156:13;162:7;165:11,	114:25;115:1;158:23,
might (5)	minimum (5)	149:2	11;167:21;170:18;	25;176:12;182:10,14
39:3;65:7;104:10;	105:17,22;120:3;	MONA (2)	171:8;172:10;173:13;	moved (4)
158:18;161:7	152:11;156:14	35:21,25	177:25;179:10,21;	65:12;141:3;164:18;
MIKE (1)	minister (1)	money (29)	181:22;185:1,1;187:8	182:11
180:15	153:23	14:11;17:14;31:8;	more-accountable (1)	Movement (1)
mile (12)	minivans (3)	32:14;33:3;35:11;	94:16	171:18
103:2;104:12,12,15,	97:24;159:19;161:1	51:10;61:2;73:19;	Moreover (1)	moving (3)
16,17,20,23,25;105:5,	minority (3)	74:13,14;109:7,8;	31:19	25:3;48:5;131:22
18;124:14	56:16;136:10;178:15	119:19;122:23;129:23;	morning (4)	Moyers (2)
mileage (15)	minutes (10)	136:19,19;138:15;	22:13;79:3;80:11;	64:12,19
118:23;119:3,19;	58:21;103:3,9,16,25; 104:1,2,4,6;105:2	159:22;160:9,19,19; 165:3;167:1,20;179:3;	175:15	<b>mpg (2)</b> 34:16;35:16
120:11,23;122:3,13; 138:14;139:21;140:5,	Miriam (4)	187:15;191:2	mortgage (1) 97:19	much (82)
13;144:13,17,25;152:2	69:14,15,21,24	<b>Monitoring (3)</b>	mosquitoes (1)	15:4;25:6;28:15;
miles (43)	mirror (1)	10:7;36:16;93:9	24:1	34:10;35:18;39:7,8;
17:9;24:7;27:16;32:4,	73:11	monoxide (1)	most (32)	43:3,21;47:22;50:11;
6;34:4;38:20;54:18;	miscellaneous (1)	10:15	46:3;57:7;60:2;61:6,	54:22;56:22;58:24;
56:5;82:25;84:3;91:4,	104:17	Montalto (4)	10,19;77:11;84:10,24;	61:20;63:12;66:3;
12;102:25;103:6;	miss (1)	16:21,23;17:1,2	98:6;101:1,9,10;103:19;	67:23;71:18;72:14;
104:13,18;105:1,10,13,	42:6	Monteith (3)	112:10;113:5;119:7,14;	77:2;84:4,18;85:6;90:4;
20;108:14,19,23;119:8,	missed (1)	164:8,10,16	121:2;127:13;138:7;	94:20;95:6,20;96:2,21,
9;124:13;135:25;	84:10	month (2)	139:10;146:5;166:21;	22,22;98:10,22;99:8,18;
139:24,25;144:2;152:7,	mission (1)	167:3;187:16	170:18;176:5,22;178:4;	102:9,19;103:18;
8,10;153:2;159:5,20;	8:20	monthly (1)	179:1;185:4;188:9;	106:10,16;109:17;
160:19;161:15;162:10;	mistaken (1)	14:18	191:11	112:21;113:12;116:8;
165:6;171:1;186:21	160:11	months (3)	mostly (7)	121:13;122:6;125:1,18;
militaristic (1)	mitigate (2)	21:24;44:6;104:6	99:18;103:22;115:8;	128:18;131:2;134:7;
51:14	155:25;190:1	mood (1)	119:6;142:6;144:24;	141:18;146:2;147:2;
military (5)	mitt (3)	67:17	173:7	151:19;152:2;153:8;
18:5;72:18;74:22;	22:15,19;179:9	moot (1)	mother (3)	156:15;158:2;159:7,19,
114:19;115:2	mixed (2)	40:7	66:4;92:1;161:3	22;160:1,1;162:15;
MILLBOURNE (3)	102:25;188:17	moral (5)	mother-in-law (1) 182:12	163:1;164:7,13;165:19;
27:2,7,8 million (15)	<b>mobile (5)</b> 10:9,12,17;12:17;	117:3;118:2;154:3; 155:17;186:1	mothers (1)	166:1;177:14;180:7; 181:25;182:19,23,24;
10:4,6;13:16,17;	15:20	morality (1)	23:25	184:7,9;186:6;191:20,
30:19;33:25;34:6;	mobility (3)	50:20	motivate (1)	23
45:20;133:3;139:7;	102:19;105:25;106:6	morally (1)	47:3	much-needed (2)
163:23;176:21;179:12;	MODEL (12)	51:16	motivation (1)	61:2;62:4
185:17;188:2	2:4;8:15;12:13;14:16;	more (83)	97:22	mucus (1)
million-dollar (1)	17:10;18:8;34:2;45:15;	10:22;12:5,18;13:2,8,	motor (1)	48:2
105:16	78:22;108:19;152:1;	17;20:3;22:16;25:6;	97:10	multiple (2)
millions (4)	186:22	26:10,11;27:19;29:9;	motorized (1)	65:10;144:21
29:18;91:14;117:24;	models (3)	31:21;32:1;34:6;35:7;	22:23	multiply (2)
155:11	91:10;152:3;165:5	41:8;51:6;56:12;58:15,	Motors (3)	103:4;104:5
mind (3)	modern (4)	16,17;62:14;65:18;	138:10;139:16,17	multi-state (1)
76:11;147:20;164:5	70:19;89:3;133:5;	66:1;67:19,23;77:17,18;	Motown (1)	134:4
mindless (1)	140:1	84:5;87:6,6;92:22,22;	138:7	multitude (1)
92:21	modernize (1)	95:6,20;97:17,22;	Mount (1)	41:24
mine (2)	191:3	115:10,13,13;118:1;	47:13	municipal (1)

				T .
16:6	NASA (1)	42:5	42:24;45:14;50:15;	92:10
museum (2)	143:18	necessarily (5)	55:20;60:22;73:19;	Nobody (1)
70:18;113:3	NATA (2)	87:16,21;106:20,21;	80:24;88:10;91:1;	145:22
museums (1)	10:3,7	149:4	106:22;107:11;108:4,8,	no-brainer (9)
113:21	nation (7)	necessary (5)	21,23;124:12,18;	46:6;79:4,6,8;119:4;
musician (1)	16:2,5,13;17:25;20:7;	19:1;56:11;118:4;	129:20;130:2;132:8;	174:16,17;185:23;189:5
66:4	25:25;115:17	156:3,7	133:21;134:3,22;142:9;	nonetheless (1)
musicians (1)	National (36)	necessity (1)	143:8,11;147:18,20;	25:18
22:7	8:13;9:4,15;10:2,11;	186:23	148:14;149:24;153:3;	non-fossil (1)
<b>must</b> (18)	12:20;13:22;14:3,4,9,	need (51)	157:7;159:4;164:14;	114:22
19:13;31:1,7;51:4;	10;15:18;17:15;18:2;	25:6;28:14;31:4,9;	165:5;175:2,6;176:20;	nonpartisan (1)
54:11,17;84:8;96:25;	19:23;24:23;31:13;	41:4;44:10;48:21;49:7,	178:6,18;179:12,20,25;	30:17
97:7,12;110:6;117:11;	34:11;37:10;44:12;	14;56:7,12;57:25;58:1,	185:9,21;188:23;190:7	nonprofit (3)
118:5;131:25;152:13,	50:25;51:15;53:20;	3,6;63:14;70:7;74:24;	news (3)	65:4;166:4;175:7
21;154:6;167:8	54:5,25;72:9,11;73:13;	75:22;76:11;81:7;83:1;	78:13,13;177:5	nor (5)
muster (1)	78:6,19;83:8;110:9;	84:5;89:8;93:13;95:23;	next (23)	49:6;96:17;98:22;
152:10	124:16;163:20;185:10;	98:4;107:13;108:11;	30:7;44:17;52:12;	154:16;168:3
Myron (1)	188:19	109:5;118:9;123:25;	72:3;75:12;94:5;95:23;	` '
69:13	Nationally (1)	126:19;133:19;134:25;	114:9;116:9;118:1,23;	42:14;71:11
myself (13)	10:16	135:1;137:20;138:24;	121:14;125:19;131:3;	
27:21;28:17;44:2;	nations (6)	143:2,22;144:17,18;	140:17,20;143:15;	90:2 North (2)
53:23;54:12;66:8;	18:17;81:8;101:16; 102:1;167:8;168:6	154:7;156:13;157:21,	144:25;150:9;153:13;	North (2)
91:25;119:2;123:21;		22;160:6;170:22;	155:22;172:19;182:25	75:11;125:7
145:12;158:12;168:14; 186:13	nation's (6)	171:13;185:6;187:2 <b>needed (5)</b>	NHTSA (11)	Northeast (2) 16:7;66:14
100.13	18:1;26:7;35:5;74:14; 142:13;167:7	38:18;82:18;95:20;	2:19;12:25;14:22; 15:1;16:14;24:24;	nose (1)
N	nationwide (1)	136:19,25	26:15;34:1;39:23;79:7,	48:3
	34:18	needs (9)	11	noses (2)
	37.10	necus ()	11	HUBCB (=)
NAAOS (1)	Native (1)	33.1.39.2.67.19.82.6	nice (2)	181.22.24
NAAQS (1) 9:22	Native (1) 137:15	33:1;39:2;67:19;82:6, 11:132:6:133:6:160:13:	nice (2) 21:7:104:24	181:22,24 not ( <b>163</b> )
	137:15	11;132:6;133:6;160:13;	21:7;104:24	not (163)
9:22	137:15 natural (10)	11;132:6;133:6;160:13; 170:20		<b>not (163)</b> 14:18,20;15:2;16:5;
9:22 <b>Nadav (1)</b>	137:15 natural (10) 81:5;90:23;92:22;	11;132:6;133:6;160:13;	21:7;104:24 nicotine (1)	not (163)
9:22 <b>Nadav (1)</b> 41:14	137:15 natural (10)	11;132:6;133:6;160:13; 170:20 <b>negative (3)</b>	21:7;104:24 nicotine (1) 55:12	<b>not (163)</b> 14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18;
9:22 Nadav (1) 41:14 Nader's (1)	137:15 <b>natural (10)</b> 81:5;90:23;92:22; 114:4;125:2;142:21;	11;132:6;133:6;160:13; 170:20 <b>negative (3)</b> 78:4;128:13;188:6	21:7;104:24 nicotine (1) 55:12 NIEL (2)	<b>not (163)</b> 14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3)	21:7;104:24 <b>nicotine (1)</b> 55:12 <b>NIEL (2)</b> 186:8,12	not (163) 14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9,
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1)	not (163) 14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1)	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1)	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13	not (163) 14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1)	not (163) 14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1)	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1)	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2)	not (163) 14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8; 80:18;85:16;95:1;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8 Navy (4)	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22 nephew (1)	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2) 10:13;16:4	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24; 67:18;69:4;70:20; 74:11;75:13,21;78:2,3,
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8; 80:18;85:16;95:1; 99:14;102:15;109:24;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8 Navy (4) 75:9,14;114:22;	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22 nephew (1) 149:2	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2) 10:13;16:4 No (30)	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24; 67:18;69:4;70:20; 74:11;75:13,21;78:2,3, 8;80:12;81:15,18,22;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8; 80:18;85:16;95:1; 99:14;102:15;109:24; 111:15;116:18;118:15,	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8 Navy (4) 75:9,14;114:22; 156:24	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22 nephew (1) 149:2 nervous (1)	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2) 10:13;16:4 No (30) 2:9,10;21:13;29:7,10;	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24; 67:18;69:4;70:20; 74:11;75:13,21;78:2,3, 8;80:12;81:15,18,22; 82:21;84:13;86:13,13,
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8; 80:18;85:16;95:1; 99:14;102:15;109:24; 111:15;116:18;118:15, 20;121:19;123:10;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8 Navy (4) 75:9,14;114:22; 156:24 near (6)	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22 nephew (1) 149:2 nervous (1) 135:16	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2) 10:13;16:4 No (30) 2:9,10;21:13;29:7,10; 44:4;58:8;61:11;69:3;	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24; 67:18;69:4;70:20; 74:11;75:13,21;78:2,3, 8;80:12;81:15,18,22; 82:21;84:13;86:13,13, 22;87:12;89:21;90:1,1;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8; 80:18;85:16;95:1; 99:14;102:15;109:24; 111:15;116:18;118:15, 20;121:19;123:10; 125:24;128:23;135:11;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8 Navy (4) 75:9,14;114:22; 156:24 near (6) 11:2;45:21;64:3;67:5,	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22 nephew (1) 149:2 nervous (1) 135:16 net (4)	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2) 10:13;16:4 No (30) 2:9,10;21:13;29:7,10; 44:4;58:8;61:11;69:3; 78:11;88:4,12;93:21;	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24; 67:18;69:4;70:20; 74:11;75:13,21;78:2,3, 8;80:12;81:15,18,22; 82:21;84:13;86:13,13, 22;87:12;89:21;90:1,1; 92:4;93:3,21;94:7;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8; 80:18;85:16;95:1; 99:14;102:15;109:24; 11:15;116:18;118:15, 20;121:19;123:10; 125:24;128:23;135:11; 138:5;141:24;147:10;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8 Navy (4) 75:9,14;114:22; 156:24 near (6) 11:2;45:21;64:3;67:5, 9;173:8	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22 nephew (1) 149:2 nervous (1) 135:16 net (4) 13:21;14:17;73:24;	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2) 10:13;16:4 No (30) 2:9,10;21:13;29:7,10; 44:4;58:8;61:11;69:3; 78:11;88:4,12;93:21; 98:19;104:10;107:3;	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24; 67:18;69:4;70:20; 74:11;75:13,21;78:2,3, 8;80:12;81:15,18,22; 82:21;84:13;86:13,13, 22;87:12;89:21;90:1,1; 92:4;93:3,21;94:7; 96:17,24;98:10,15;99:4,
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8; 80:18;85:16;95:1; 99:14;102:15;109:24; 111:15;116:18;118:15, 20;121:19;123:10; 125:24;128:23;135:11; 138:5;141:24;147:10; 153:10,19;156:21;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8 Navy (4) 75:9,14;114:22; 156:24 near (6) 11:2;45:21;64:3;67:5, 9;173:8 nearly (9)	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22 nephew (1) 149:2 nervous (1) 135:16 net (4) 13:21;14:17;73:24; 103:20	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2) 10:13;16:4 No (30) 2:9,10;21:13;29:7,10; 44:4;58:8;61:11;69:3; 78:11;88:4,12;93:21; 98:19;104:10;107:3; 117:11,14;119:9;126:7;	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24; 67:18;69:4;70:20; 74:11;75:13,21;78:2,3, 8;80:12;81:15,18,22; 82:21;84:13;86:13,13, 22;87:12;89:21;90:1,1; 92:4;93:3,21;94:7; 96:17,24;98:10,15;99:4, 25;109:3;110:5;111:23;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8; 80:18;85:16;95:1; 99:14;102:15;109:24; 111:15;116:18;118:15, 20;121:19;123:10; 125:24;128:23;135:11; 138:5;141:24;147:10; 153:10,19;156:21; 158:3,5,11;162:24;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8 Navy (4) 75:9,14;114:22; 156:24 near (6) 11:2;45:21;64:3;67:5, 9;173:8 nearly (9) 12:16,16;34:8,17;	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22 nephew (1) 149:2 nervous (1) 135:16 net (4) 13:21;14:17;73:24; 103:20 NETWORK (2)	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2) 10:13;16:4 No (30) 2:9,10;21:13;29:7,10; 44:4;58:8;61:11;69:3; 78:11;88:4,12;93:21; 98:19;104:10;107:3; 117:11,14;119:9;126:7; 131:19;146:23;152:21;	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24; 67:18;69:4;70:20; 74:11;75:13,21;78:2,3, 8;80:12;81:15,18,22; 82:21;84:13;86:13,13, 22;87:12;89:21;90:1,1; 92:4;93:3,21;94:7; 96:17,24;98:10,15;99:4, 25;109:3;110:5;111:23; 113:4,22;114:14;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8; 80:18;85:16;95:1; 99:14;102:15;109:24; 111:15;116:18;118:15, 20;121:19;123:10; 125:24;128:23;135:11; 138:5;141:24;147:10; 153:10,19;156:21; 158:3,5,11;162:24; 164:16;170:5;172:24;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8 Navy (4) 75:9,14;114:22; 156:24 near (6) 11:2;45:21;64:3;67:5, 9;173:8 nearly (9) 12:16,16;34:8,17; 110:12;139:15;148:10;	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22 nephew (1) 149:2 nervous (1) 135:16 net (4) 13:21;14:17;73:24; 103:20 NETWORK (2) 30:12,15	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2) 10:13;16:4 No (30) 2:9,10;21:13;29:7,10; 44:4;58:8;61:11;69:3; 78:11;88:4,12;93:21; 98:19;104:10;107:3; 117:11,14;119:9;126:7; 131:19;146:23;152:21; 159:3;161:1;166:12;	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24; 67:18;69:4;70:20; 74:11;75:13,21;78:2,3, 8;80:12;81:15,18,22; 82:21;84:13;86:13,13, 22;87:12;89:21;90:1,1; 92:4;93:3,21;94:7; 96:17,24;98:10,15;99:4, 25;109:3;110:5;111:23; 113:4,22;114:14; 115:20,25;118:4,8;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8; 80:18;85:16;95:1; 99:14;102:15;109:24; 111:15;116:18;118:15, 20;121:19;123:10; 125:24;128:23;135:11; 138:5;141:24;147:10; 153:10,19;156:21; 158:3,5,11;162:24; 164:16;170:5;172:24; 175:5;180:18;183:5;	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8 Navy (4) 75:9,14;114:22; 156:24 near (6) 11:2;45:21;64:3;67:5, 9;173:8 nearly (9) 12:16,16;34:8,17; 110:12;139:15;148:10; 156:10;176:21	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22 nephew (1) 149:2 nervous (1) 135:16 net (4) 13:21;14:17;73:24; 103:20 NETWORK (2) 30:12,15 never (6)	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2) 10:13;16:4 No (30) 2:9,10;21:13;29:7,10; 44:4;58:8;61:11;69:3; 78:11;88:4,12;93:21; 98:19;104:10;107:3; 117:11,14;119:9;126:7; 131:19;146:23;152:21; 159:3;161:1;166:12; 175:14;177:5,9;187:23	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24; 67:18;69:4;70:20; 74:11;75:13,21;78:2,3, 8;80:12;81:15,18,22; 82:21;84:13;86:13,13, 22;87:12;89:21;90:1,1; 92:4;93:3,21;94:7; 96:17,24;98:10,15;99:4, 25;109:3;110:5;111:23; 113:4,22;114:14; 115:20,25;118:4,8; 120:18;122:7,17;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8; 80:18;85:16;95:1; 99:14;102:15;109:24; 111:15;116:18;118:15, 20;121:19;123:10; 125:24;128:23;135:11; 138:5;141:24;147:10; 153:10,19;156:21; 158:3,5,11;162:24; 164:16;170:5;172:24; 175:5;180:18;183:5; 184:15;186:11	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8 Navy (4) 75:9,14;114:22; 156:24 near (6) 11:2;45:21;64:3;67:5, 9;173:8 nearly (9) 12:16,16;34:8,17; 110:12;139:15;148:10; 156:10;176:21 near-roadway (1)	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22 nephew (1) 149:2 nervous (1) 135:16 net (4) 13:21;14:17;73:24; 103:20 NETWORK (2) 30:12,15 never (6) 55:17;64:13,16;	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2) 10:13;16:4 No (30) 2:9,10;21:13;29:7,10; 44:4;58:8;61:11;69:3; 78:11;88:4,12;93:21; 98:19;104:10;107:3; 117:11,14;119:9;126:7; 131:19;146:23;152:21; 159:3;161:1;166:12; 175:14;177:5,9;187:23 Noah (3)	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24; 67:18;69:4;70:20; 74:11;75:13,21;78:2,3, 8;80:12;81:15,18,22; 82:21;84:13;86:13,13, 22;87:12;89:21;90:1,1; 92:4;93:3,21;94:7; 96:17,24;98:10,15;99:4, 25;109:3;110:5;111:23; 113:4,22;114:14; 115:20,25;118:4,8; 120:18;122:7,17; 123:21,24;124:2,3;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8; 80:18;85:16;95:1; 99:14;102:15;109:24; 111:15;116:18;118:15, 20;121:19;123:10; 125:24;128:23;135:11; 138:5;141:24;147:10; 153:10,19;156:21; 158:3,5,11;162:24; 164:16;170:5;172:24; 175:5;180:18;183:5; 184:15;186:11 named (1)	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8 Navy (4) 75:9,14;114:22; 156:24 near (6) 11:2;45:21;64:3;67:5, 9;173:8 nearly (9) 12:16,16;34:8,17; 110:12;139:15;148:10; 156:10;176:21 near-roadway (1) 9:19	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22 nephew (1) 149:2 nervous (1) 135:16 net (4) 13:21;14:17;73:24; 103:20 NETWORK (2) 30:12,15 never (6) 55:17;64:13,16; 89:20;93:1;166:10	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2) 10:13;16:4 No (30) 2:9,10;21:13;29:7,10; 44:4;58:8;61:11;69:3; 78:11;88:4,12;93:21; 98:19;104:10;107:3; 117:11,14;119:9;126:7; 131:19;146:23;152:21; 159:3;161:1;166:12; 175:14;177:5,9;187:23 Noah (3) 100:3;186:8,11	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24; 67:18;69:4;70:20; 74:11;75:13,21;78:2,3, 8;80:12;81:15,18,22; 82:21;84:13;86:13,13, 22;87:12;89:21;90:1,1; 92:4;93:3,21;94:7; 96:17,24;98:10,15;99:4, 25;109:3;110:5;111:23; 113:4,22;114:14; 115:20,25;118:4,8; 120:18;122:7,17; 123:21,24;124:2,3; 125:11;126:3,20,22;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8; 80:18;85:16;95:1; 99:14;102:15;109:24; 111:15;116:18;118:15, 20;121:19;123:10; 125:24;128:23;135:11; 138:5;141:24;147:10; 153:10,19;156:21; 158:3,5,11;162:24; 164:16;170:5;172:24; 175:5;180:18;183:5; 184:15;186:11 named (1) 100:3	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8 Navy (4) 75:9,14;114:22; 156:24 near (6) 11:2;45:21;64:3;67:5, 9;173:8 nearly (9) 12:16,16;34:8,17; 110:12;139:15;148:10; 156:10;176:21 near-roadway (1) 9:19 Nebraska (1)	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22 nephew (1) 149:2 nervous (1) 135:16 net (4) 13:21;14:17;73:24; 103:20 NETWORK (2) 30:12,15 never (6) 55:17;64:13,16; 89:20;93:1;166:10 new (54)	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2) 10:13;16:4 No (30) 2:9,10;21:13;29:7,10; 44:4;58:8;61:11;69:3; 78:11;88:4,12;93:21; 98:19;104:10;107:3; 117:11,14;119:9;126:7; 131:19;146:23;152:21; 159:3;161:1;166:12; 175:14;177:5,9;187:23 Noah (3) 100:3;186:8,11 Noah's (1)	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24; 67:18;69:4;70:20; 74:11;75:13,21;78:2,3, 8;80:12;81:15,18,22; 82:21;84:13;86:13,13, 22;87:12;89:21;90:1,1; 92:4;93:3,21;94:7; 96:17,24;98:10,15;99:4, 25;109:3;110:5;111:23; 113:4,22;114:14; 115:20,25;118:4,8; 120:18;122:7,17; 123:21,24;124:2,3; 125:11;126:3,20,22; 127:23;128:1,3;129:14;
9:22 Nadav (1) 41:14 Nader's (1) 64:20 name (56) 8:8;15:11;17:1;24:21; 27:6;30:14;33:12,18; 35:24;41:21;46:19; 48:8;50:3;52:21,21; 53:7;57:5;59:7,20;63:1; 69:24;71:24;77:8; 80:18;85:16;95:1; 99:14;102:15;109:24; 111:15;116:18;118:15, 20;121:19;123:10; 125:24;128:23;135:11; 138:5;141:24;147:10; 153:10,19;156:21; 158:3,5,11;162:24; 164:16;170:5;172:24; 175:5;180:18;183:5; 184:15;186:11 named (1)	137:15 natural (10) 81:5;90:23;92:22; 114:4;125:2;142:21; 154:12,19;183:14; 190:12 nature (1) 90:25 nausea (1) 44:3 Naval (1) 75:8 Navy (4) 75:9,14;114:22; 156:24 near (6) 11:2;45:21;64:3;67:5, 9;173:8 nearly (9) 12:16,16;34:8,17; 110:12;139:15;148:10; 156:10;176:21 near-roadway (1) 9:19	11;132:6;133:6;160:13; 170:20 negative (3) 78:4;128:13;188:6 neighborhood (3) 23:1;57:10;66:14 neighbors (1) 78:25 Neil (1) 114:12 Neither (1) 142:22 nephew (1) 149:2 nervous (1) 135:16 net (4) 13:21;14:17;73:24; 103:20 NETWORK (2) 30:12,15 never (6) 55:17;64:13,16; 89:20;93:1;166:10	21:7;104:24 nicotine (1) 55:12 NIEL (2) 186:8,12 Nigeria (1) 98:13 night (2) 69:19;149:9 nine (1) 22:18 nitrogen (2) 10:13;16:4 No (30) 2:9,10;21:13;29:7,10; 44:4;58:8;61:11;69:3; 78:11;88:4,12;93:21; 98:19;104:10;107:3; 117:11,14;119:9;126:7; 131:19;146:23;152:21; 159:3;161:1;166:12; 175:14;177:5,9;187:23 Noah (3) 100:3;186:8,11	not (163)  14:18,20;15:2;16:5; 19:6;21:3,7,7;25:18; 26:12;29:10;31:25; 32:2;35:10;36:7;43:2,9, 17;44:13;46:25;48:17; 49:9,12,17;50:16;52:4; 53:21;54:1;55:22; 56:10,16,19;57:7;58:5, 12,16,22;60:11;61:14; 62:15;64:3,18;66:2,24; 67:18;69:4;70:20; 74:11;75:13,21;78:2,3, 8;80:12;81:15,18,22; 82:21;84:13;86:13,13, 22;87:12;89:21;90:1,1; 92:4;93:3,21;94:7; 96:17,24;98:10,15;99:4, 25;109:3;110:5;111:23; 113:4,22;114:14; 115:20,25;118:4,8; 120:18;122:7,17; 123:21,24;124:2,3; 125:11;126:3,20,22;

140:21:1418.13;   140:140:1418.13;   140:140:140:1418.13;   140:140:140:140:140:140:140:140:140:140:	140.01.141.0.10	• (4)	. (2)	1.5.20.20.10.24.14	65 24 66 0 67 10
44.5 4.5 4.5 4.6 2.3    9.3   misance (1)   9.3   misance (1)   127:8   622.4 6.3 (7.10)(6.5)   622.					
147:12;149;3,6;23;   9:3   127:8   62:24;637;10;69:7   70:10;00;0 (2)   31:20;139:1   92:393:8,21;94:57;   159:22;160;11,16;   160:21;163;141:642;   160:17;1682,7;10;17;12;   153:4187:14   169:61;760;10;71;12;   159:61;760;10;71;12;   159:61;760;10;71;12;   159:61;760;10;77;12;   159:22;176;224;177;7;   54:20;86;2;89:1;   129:10   174:23   129:10   174:23   129:10   174:23   129:10   174:23   129:10   174:23   129:10   174:23   129:10   174:23   139:12;157:10;   178:21   179:20   179:11;15;179:4   179:11;15;179:4   179:10   178:21   179:10   17					
152-22.154.15.156.1   152.02.382.03.73.5   159.22.160.11.16   161.2.1631.41.164.2   152.02.382.03.73.5   169.61.70.10.171.12   103.41.08.41.51.72.5   159.22.171.798.181.1   152.13.43.81.10.171.171.171.171.171.171.171.171.171					
6.13.157.15.158.23.4 159.22.160.11.16. 161.21.63.14.164.2, 166.617.168.27.10.17.11.2, 169.617.10.17.2, 169.617.10.17.2, 169.617.10.11.2, 169.617.10.11.2, 169.617.10.11.2, 169.617.10.11.2, 169.10.11.2					
159:22;160:11,164   161:2163:14;1642;   162:24;163:14;1642;   163:41;187:14   101:05024;159:12;   163:41;187:14   101:05024;159:12;   163:41;187:14   101:05024;159:12;   163:41;187:14   101:05024;1777;   178:22,17;1798:1814;   103:4105:415:1,725;   129:10   103:4105:415:1,725;   129:10   103:4105:415:1,725;   129:10   103:4105:415:1,725;   129:10   103:4105:415:1,725;   103:4105:415:415:1,72				` ,	
1661;2:163:14;164:22					
166:17;168:2,7;107:15;   163:4;187:14   numbers (9)   75:4,9;92:19   9;22;26;12;346,7;3;   175:13;34,214;35;   175:22;176;22;477:7;   178:2,217;179:8;181:1,   133:4;134:24;1853;   186:3,23;188:14;   189:11;190:15,18   36:24   nurturing (1)   68:12;99:3;131:10;   178:21   note (4)   59:18   nothing (4)   29:16;70:8;78:2;   20:2;245:3;26:39:24;   147:14   nothes (1)   59:18   0bama (19)   29:16;70:8;78:2;   147:14   note (2)   29:16;70:8;78:2;   147:14   note (2)   29:12;12:16:114:17;   115:23;143:8;147:18   115:23;143:8;147:18   115:23;143:8;147:18   115:23;143:8;147:18   115:23;143:8;147:18   115:23;143:8;147:18   115:23;143:8;147:18   117:3;186:1			` '		
19.66;170:10;171:12;   20.175:22;176:224:1777;   54:20;86:2;89:1;   103:4;108:4;15;125;   103:4;108:4;15;125;   103:4;108:4;15;125;   103:4;108:4;15;125;   103:4;108:4;15;125;   103:4;108:4;15;125;   103:4;108:4;15;125;   103:4;108:4;15;125;   103:4;108:4;15;13;15;13;13;13;13;13;13;13;13;13;13;13;13;13;					
175:22.176:22.41777-8.181:1,   176:24.151.72.5;   176:23   176:23   176:24.151.128.12;   176:23   176:24.151.128.12;   176:23   176:24.151.128.12;   176:24.151.128.12*   176:24.151.128.12*   176:24.151.128.12*   176:24.151.128.12*   176:24.151.128.12*   176:24.151.128.12*   176:24.151.128.12*   176:24.151.128.12*   176:24.151.128.12*   176:24.151.128.12*   176:24.151.128.12*   176:24.151.128*   17			` /		
178:22.17;179:81811.  103:4;105:4,15.17.25;					
18:81:31:3184:24:185:   186:3.23;188:14;   nurses (1)   36:24   off (17)   13:18;45:17;51:3;   21:24;72:13;14:16;   138:19;132:14;25;   133:10;137:3,11;   139:1,22;157:10,11;   66:10:10:18;1113;   66:10:10:18;1113;   16:10:10:18;   17:33;   17:33;   18:24;132:14,25;   133:10;137:3,11;   16:10:10:18;13;   16:10:10:18;13;   16:10:10:18;13;   16:10:10:18;13;   16:10:10:18;13;   16:10:10:18;   18:10:18;			` /		
1863.23;188:14;   note (4)					
189:11;190:15,18   nutruring (1)   13:18;45:17;51:3;   17:19;24;47:81,16;   16:19;157:10;   178:21   16:19;153:16:188:13;   16:19;153:16:188:13;   16:19;153:16:188:13;   188:22;22;51:39:14;   16:19;153:16:188:13;   188:22;22;51:39:14;   16:19;153:16:188:13;   188:22;22;51:39:14;   16:19;153:16:188:13;   188:22;22;51:39:14;   16:19;153:16:188:13;   188:22;22;51:39:14;   16:19;153:16:188:13;   188:22;22;51:39:14;   16:19;153:16:188:13;   188:22;22;51:39:14;   16:19;153:16:188:13;   188:22;22;51:39:14;   16:19;153:16:188:13;   188:22;22;51:39:14;   16:19;153:16:188:13;   188:22;22;51:39:14;   16:19;153:16:188:13;   188:22;22;51:39:14;   16:19;163:16:188:13;   188:22;22;51:39:14;   16:19;163:16:188:13;   188:22;22;51:39:14;   16:19;163:16:188:13;   188:22;22;51:39:14;   16:19;163:16:188:13;   188:12;161:19;21;   188:19;163:16:188:13;   188:22;22;51:39:14;   16:19;163:16:188:13;   188:12;163:18;   188:12;163:18;   188:12;   188:23;   188:3;   188:23;   188:3;   188:23;   188:3;   188:23;   188:3;   188:3;   188:19;163:18;   188:23;   188:3;   188:19;163:18;   188:23;   188:3;   188:23;   188:3;   188:19;163:18;   188:23;   188:3;   188:19;163:18;   188:23;   188:3;   188:23;   188:19;   188			` ,		
note (4)		` *			
68:12:99:3;131:10; 178:21   noted (3)   67:20;177:15;179:4   notes (1)   95:5   nothing (4)   29:16;70:8;78:2;   147:14   noticed (2)   88:23,24   noticed (3)   115:23;143:8147:18;   149:18;156;161:22;   165:143:143:147:18;   149:18;156;161:22;   165:143:18;163:168:9   00   185:6   21:74:19;75:6,10,16;   80:13;81:10;82:19;   22:123;103:12;   179:13,19;81:23;87:9;   91:209:157:10,21   116:11;103:12;   116:19;103:161:83;   18;20;133:37;124:16   180:12;112:16;114:17;   13:21;68:3171:19   138:22;22;25;139:14;   166:12;   166:11;95:8;145:9   185:12;12:15:11;   166:12;   166:12;   166:12;   166:11;95:8;145:9   176:12;   166:11;95:8;145:9   176:12;   176:13;   176:13;   176:13;   176:13;   176:13;   176:13;   177:12;   179:2   179:2   179:13;   179:2   179:2   179:2   179:13;   179:14;   179:14;   179:14;   179:12;   179:12;   179:14;   179:			` '		
178:21	* *				
noted (3)         O         161:19:163:16:168:13, 67:20;177:15;179:4 notes (1)         08k (1)         07fended (1)         108:1,2:113:15;114:4, 21;16:1;119:21; 10:20; 173:3         9;188:9         9;188:9         9;188:9         9;188:9         9;188:9         9;188:9         9;188:9         0me-and-a-half (1)         173:3         173:3         173:3         one-and-a-half (1)         173:3         173:3         one-and-a-half (1)         173:3         one-on-one (1) <td></td> <td>40:2</td> <td></td> <td></td> <td></td>		40:2			
67:20;177:15;179:4 notes (1)         ak (1)         21;169:10;175:10;22 offended (1)         115:7;116:1;119:21; one-and-a-half (1)         one-and-a-half (1)         one-and-a-half (1)         173:3         one-on-one		0			
notes (1)         oak (1)         offended (1)         12423;127:10;132:16, 32:16         173:3         one-one (1)           95:5         59:18         Obama (19)         29:16;70;8;78:2; 147:14         20:22:24:5;32:6;39:24, 45:13;46:6;50:14; 50:11;216:114;71; 88:23,24         56:11;95:8;145:9         138:22;225;319:14; 140:21;41:5;142:14, 151:22;144:38:147:18; 149:18;156:6;161:22; 165:14;172:31;74:12         offering (3)         13:22;68:3;171:19         155:7,14;15:01;57:8, 9:10         169:11,11         one-one (1)         169:11,11         one-one (1)         163:12         163:12	* 1	U			*
95:5 nothing (4) 29:16;70:8;78:2; 147:14 45:13;46:6;50:14; noticed (2) 88:23,24 notoriously (1) 114:15 Nowember (3) 20:3;32:7;124:15 Now (77) 12:23;20:23;23:21; 26:2,9;28:11;31:16; 46:5;48:16;49:18; 52:13;54:17;60:15; 63:16;65:3;67:1;68:10, 21;74:19;75:6;10.16; 80:13;81:10;82:19; 88:133		1- (1)			
nothing (4)         Obama (19)         offer (3)         138.22,22,25;139:14;         163:12         onerous (2)           147:14         45:13;46:65;50:14;         59:12;112:16;114:17;         15:21;68:3;171:19         15:16,21;148:3,92;         169:11,11           88:23,24         115:23;143:8147:18;         149:18;156:6;161:22;         offering (3)         15:7,14;156:10;157-8,         169:11,11           November (3)         20:3;32:7;124:15         objective (2)         74:25;168:9         offering (3)         15:7,14;16:10;15,10,22,22,23         ones (2)           Now (77)         12:23;20:23;23:21;         obligation (2)         117:3;186:1         observed (1)         160:13;161:22         office (2)         63:16;63;367;168:10,16;         65:14;164:19         office (2)         06;21         64:21         onime (1)         onime (1)           80:13;81:10;82:19;         84:8;169:10         obtacles (2)         70:11         138:2;22;22;5;139:14;         onime (2)         14:2;146:19         office (2)         84:19:19:10:11         0hig (1)         0hig (1)         160:13;161:22         office (2)         81:30:6;52;7,820;         84:11;19:10:11         0hig (1)         0hig (2)         14:2;4146:19         0hig (2)         64:21         0hig (2)         14:2;14;16:19         0hig (2)         84:19:19:10:10         0hig (2)	` '	` /			
29:16;70:8;78:2; 147:14					` '
147:14	<b>O</b> 1 1		` /		
noticed (2)         59:12;112:16;114:17;         13:21;68:3;171:19         155:7,14:156:10;157:8, 9,12;160:7,14;163:16, 143;179:2         ones (2)           notoriously (1)         114:15         149:18:156:6;161:22; 165:14:170:23;174:12         offering (3)         9,12;160:7,14;163:16, 16, 16;22, 20; 19;167:5,10,22,22,23; 168:7,17:6;173:12,14; 20; 21:5,8;134:2         one's (3)           Now (77)         74:25;168:9 obligation (2)         74:25;168:9 obligation (2)         offer (2)         166:22 offer (2)         185:16,23;188:14; 102:24         one-way (1)         06:22 offer (2)         online (1)         06:22 offer (2)         online (1)         06:22 offer (2)         00ligation (2)         189:1;19:1:10,11         00line (1)         06:22 offer (2)         016:13;161:22 offer (1)         08ay (15)         08ay (15)         09ing (3)         010:22,23;13:11         011:0:23         011:0:24 offer (2)         011:0:23;161:22;162:18:14:15         02:23;13:16:22         019:0:24 offer (1)         02:24:14:14:15:17:11         02:24:14:14:15:17:11         02:24:14:14:15:17:11         02:24:14:23:16:12         019:0:24:14:14:13:17:17:17:14:17         02:24:14:14:18:12:18:12         019:0:24:14:14:18:12:18:12         019:0:24:14:14:18:12:14:14:18         019:0:24:14:14:18:12:14         019:0:24:14:14:18:12:14         019:0:24:					` ,
88:23,24			` /		
notoriously (1)         149:18:156:6;161:22; 165:14;170:23;174:12 objective (2)         149:18:156:6;161:22; 165:14;170:23;174:12 objective (2)         191:67:5,10,22,22,23; 168:7;16;173:12,14; 174:14;181:22;184:1; 174:14;181:22;184:1; 174:14;181:22;184:1; 174:14;181:22;184:1; 174:14;181:22;184:1; 174:14;181:22;184:1; 174:14;181:22;184:1; 174:14;181:22;184:1; 174:14;181:22;184:1; 174:14;181:22;184:1; 174:14;181:22;184:1; 174:14;181:22;184:1; 174:14;181:22;184:1; 174:14;181:22;184:1; 174:14;181:14;175:14; 175:24;175:25; 176:13;17;175:24;175:25; 176:13;17;175:24;175:25; 176:13;17;175:24; 175:25; 174:21;176:20;177:7, 14;178:14;178:14;178:19;196;10; 181:8;182:5,13; 187:25;189:6;191:24         149:18:156:6;161:22; offerings (1) 165:24;16;173:12;14; 174:12;18:12;184:1; 174:12;18:14; 181:22;184:1; 174:14;181:22;184:1; 174:14;181:22;184:1; 174:14;181:22;184:1; 175:24;175:25; 176:13;17;175:24;175:25; 176:13;17;175:24;175:25; 176:13;17;175:24;175:25; 176:13;17;175:24;175:25; 176:13;17;175:24;175:25; 176:13;17;175:24;175:25; 176:13;17;175:24;175:25; 176:13;17;175:24;175:25; 176:13;17;175:24; 175:25; 176:13;17;175:24;175:25; 176:13;17;175:24;175:25; 176:13;17;175:24;175:25; 176:13;17;175:24; 175:25; 176:13;17;175:25; 176:13;17;175:25; 176:13;17;175:24					` '
114:15	•				*
November (3)         objective (2)         166:22         174:14;181:22;184:1;         one-way (1)           Now (77)         12:23;20:23;23:21;         117:3;186:1         office (2)         14:24;146:19         0stacles (2)         81;30:6;52:7,8,20;         onligation (1)         64:21           26:2,9;28:11;31:16;         observed (1)         185:6         office (1)         81;30:6;52:7,8,20;         onlig (1)         64:21           36:16;65;36:7;168:10, 21;74:19;75:6,10,16; 80:13;81:10;82:19; 85:7;89:393:397:6,12; 105:7;107:12;108:15, 17;11017,72;113:2,21; 117:11;118:14;120:19, obvious (4)         70:11         137:19;146:9,25; 150:12;162:18;180:12         56:11;83:20;91:19; 94:6;111:24;114:7; 190:4;114:7; 190:4;114:7; 190:4;1159:24;172:18; official (2)         12:8         44:14;50:19;70:13,24; 164:24; 166:24;175:25; 179:22         44:14;50:19;70:13,24; 164:14; 18:22;184:1; 179:24;114:135;717; 179:146:9,25; 179:22         70:11         137:19;146:9,25; 150:12;162:18;180:12         56:11;83:20;91:19; 94:6;111:24;114:7; 199:46;122:15;124:162:18;180:12         94:6;111:24;114:7; 199:46;122:15; 124:16;124; 114:7; 199:46;122:15; 124:162:18;180:12         142:18         12:8         44:14;50:19;70:13,24; 164:14; 166:14         14:12;35:10;47:14; 199:46;925; 150:12;162:18;180:12         144:14;181:22;184:1; 101         144:12;35:10;47:14; 181:22;180:12         141:12;35:10;47:14; 199:19; 119; 190:11         144:14;181:22;184:1; 189:11;10;11         141:12;35:10;47:14; 190:19; 114:19;23:10;14; 141:19;23:10;14; 141:19;23:10;14; 141:19;23:10;23:12; 119;10;11         141:12;35:10					` ′
20:3;32:7;124:15 Now (77) 12:23;20:23;23:21; 26:2,9;28:11,31:16; 46:5;48:16;49:18; 52:13;54:17;60:15; 63:16;65:3;67:1;68:10, 21;74:19;75:6,10,16; 80:13;81:10;82:19; 85:7;89:3;93:3;97:6,12; 105:7;107:12;108:15, 17:110:17,21;113:2,21; 17:11;118:14;120:19, 21;121:10;122:20; 127:3;131:12;134:23; 135:5,11;139;6;141:13, 17;143:13,16;150:8; 151:23;155:20;157:20; 162:18;166:16,25; 174:21;176:20;177:7, 14;178:1,179:6,10; 181:18;182:5,13; 187:25;189:6;191:24  nowhere (1)  observed (1) 117:3;186:1 observed (1) 1185:6 0ffice (2) 14:24;146:19 0ffice (2) 160:13;161:22 0fficer (1) 160:13;161:22 0fficer (1) 160:13;161:22 0fficer (1) 160:13;161:22 0fficer (1) 170:11 0ffices (1) 12:8 150:12;14:14;35:7,17; 150:12;162:18;180:12 0ffices (1) 12:8 150:12;14:14;35:7,17; 150:12;162:18;180:12 0ffices (1) 12:4 0olune (1) 64:21 0olung (2) 14:24;146:19 0ffice (2) 84:19;121:10;13;07; 150:12;162:18;180:12 0ffices (1) 12:4 0olune (1) 64:21 0olung (2) 14:21;14;135:7,17; 150:12;162:18;180:12 0old (17) 122:4 0olung (1) 64:21 0olung (1) 137:19;146:9,25; 150:12;162:18;180:12 0old (17) 122:4 0olung (1) 64:21 0olung (1) 137:19;146:9,25; 150:12;162:18;180:12 0old (17) 122:4 185:16,23;188:14; 189:1;19:1:10,11 0kay (15) 8:1;30:6;52:7,8,20; 84:19;121:4;135:7,17; 150:12;162:18;180:12 0old (17) 122:4 0olly (2) 14:24;146:19 0ffice (2) 84:19;121:4;135:7,17; 137:19;146:9,25; 150:12;162:18;180:12 0old (1) 179:2 27:13,21 0officials (2) 190:22;191:15 0fficials (2) 190:22;191:15 0ffice (1) 122:18:10 137:19;146:9,25; 150:12;162:18;180:12 0old (17) 123:24*ids:18;158:14; 189:1;191:10,11 0kay (15) 8:1;30:6;52:7,8,20; 84:19;121:4;13:57,17; 14:12;35:10;47:14; 170:12;108:15, 170:12;108:					
Now (77)         12:23;20:23;23:21;         obligation (2)         14:24;146:19 office (2)         189:1;191:10,11 Okay (15)         online (1)         64:21 only (22)           46:5;48:16;49:18; ds:16;53;67:1;68:10, 21;74:19;75:6,10,16; 80:13;81:10;82:19; 85:7;89:393:397:6,12; 105:7;107:12;108:15, 17;10:17,21;113:2,21; 17:11;118:14;120:19, 21;121:10;122:20; 127:3;131:12;134:23; 135:5,11;139:6;141:13, 17;143:13,16;150:8; 15:23;155:20;157:20; 162:18;166:16,25; 174:21;176:20;177:7, 14:11;19:8; 179:2 occasion (1) efficed (2)         14:24;146:19 office (2) dficer (1)         189:1;191:10,11 Okay (15)         online (1)         64:21 only (22)           185:6         officer (1) officers (1)         137:19;146:9,25; 56:11;83:20;91:19; 94:6;111:24;114:7; 56:11;24:114:13         56:11;83:20;91:19; 94:6;111:24;114:7; 56:11;23:123:23;27:15; 131:24;152:24;163:14; 150:18; 100:19; 119:5;124:6;129:14,15; 123:23;27:15; 131:24;152:24;163:14; 164:24;166:24;175:25; 178:17;103:24; 164:24;166:24;175:25; 178:17;103:24; 179:2 orlicals (2) orlicals (2) 179:2 orlicals (2) orlicals (2) 179:2 orlicals (2) 190:22;191:15 officel (1) 146:18 orlicals (2) 174:24;175:17;24; 146:19 orlicals (2) 174:24;175:17;25; 178:16:18;18:18;18:21; 179:20; 179:2 orlicals (2) orlicals (2) 174:24;175:17;20; 174:24;175:17;20; 174:24;175:17;20; 174:24;175:17;20; 174:24;175:17;20; 174:24;175:17;20; 174:24;175:17;20; 174:24;175:17;20; 174:24;175:17;20; 174:24;175:17;20; 174:24;175:17;20; 174:24;175:17;20; 174:24;175:17;20; 174:24;175:18;103:12; 175:25; 178:17;185:6 orlicals (2) 174:24;175:17;20; 174:24;175:17;20; 174:24;175:17;20; 174:24;175:18;103:12; 175:25; 178:17;20; 174:24;175:18;103:12; 175:25; 178:17;20; 174:24;175:18;103:12; 175:25; 175:24;114:19;114:11,111;114;114:115:114;114:113;114:114:115:114:114:114:115:114:114:114:	` '				
12:23;20:23;23:21;   26:2,9;28:11;31:16;   26:2,9;28:11;31:16;   26:2,9;28:11;31:16;   26:2,9;28:11;31:16;   26:2,9;28:11;31:16;   26:2,9;28:11;31:16;   27:3,135:4:17;60:15;   21:74:19;75:6,10,16;   21:74:19;75:6,10,16;   80:13;81:10;82:19;   84:8;169:10   officers (1)   137:19;146:9,25;   56:11;83:20;91:19;   94:6;111:24;114:3;   70:11   137:19;146:9,25;   56:11;83:20;91:19;   94:6;111:24;114:5;   70:11   137:19;146:9,25;   56:11;83:20;91:19;   94:6;111:24;114:5;   70:11   137:19;146:9,25;   56:11;83:20;91:19;   94:6;111:24;114:5;   70:11   137:19;146:9,25;   56:11;83:20;91:19;   94:6;111:24;114:5;   70:11   137:19;146:9,25;   56:11;83:20;91:19;   94:6;111:24;114:5;   70:11   12:8   44:14;50:19;70:13,24;   71:1;90:24;91:3;100:9;   179:22   27:13,21   164:1;166:14   71:3,21;   164:24;166:24;175:25;   176:13,17;177:7,14,21,   24   officials (2)   27:13,21   164:1;166:14   164:1			` '		
26:2,9;28:11;31:16; 46:5;48:16;49:18; 52:13;54:17;60:15; 63:16;65:3;67:1;68:10, 21;74:19;75:6,10,16; 80:13;81:10;82:19; 85:7;89:3;93:3;97:6,12; 105:7;107:12;108:15, 17;110:17,21;113:2,21; 117:11;118:14;120:19, 21;73;131:12;134:23; 135:5,11;139:6;141:13, 17;143:13,16;150:8; 17;143:13,16;150:13; 17;177:7,14,21, 17;143:13,16;150:13; 17;177:7,14,21, 17;142:1140:19 11;150:12;114:14;13:13,16;16:122 17;140:19 11;150:12;14:14;13:13,16;16:122 17;140:19 11;150:12;16:18;180:12 11;141:14;17;111:11;141:14;17;111:11;141:14;12:11;141:14;17:11;113:14;1113,14;120:19, 179:2 17:13,21 11;150:12;13:12:10; 114:13;13,14;15:13;10:12; 114:14;17;114:14;14;17;114:14;14;14;14:114;14;14;14:114;14;14:114;14;14:114;14;14:114;14;14:114;14;14:114;14;14:114;14;14:114;14;14:114;14;14:114;14;14:114;14:114;14:114;14:114;14:114;14:14;14:14;14:14;14:14;14:14;14:14;14:14;14:14;14:14;14:14;14:1					
46:5;48:16;49:18; 52:13;54:17;60:15; 63:16;65:3;67:1;68:10, 21;74:19;75:6,10,16; 80:13;81:10;82:19; 145:11,14 obvious (4) 49:11;159:24;172:18; 17;110:17,21;113:2,21; 17;11;118:14;120:19, 21;121:10;122:20; 127:3;131:12;134:23; 17;143:13,16;150:8; 151:23;155:20;157:20; 158:1;159:21;161:25; 162:18;166:16,25; 174:178:11;179:6,10; 181:18;18;25;13; 185:6 obstacles (2) 84:8;169:10 obtain (2) 145:11,14 obvious (4) 49:11;159:24;172:18; 179:2 0bvious (4) 49:11;159:24;172:18; 179:2 0bviously (9) 43:7;81:2;175:25; 176:13,17;177:7,14,21, 24 occasion (1) 64:20 occasion (1) 64:20 occasionally (1) 119:8 official (2) 146:18 official (2) 190:22;191:15 Olivia (2) 22:22;182:7 Olivia (2) 22:22;182:7 Olivia (2) 53:8,9 O'Malley (5) 174:24;175:15,17,20 once (6) 173:25 occupied (1) 173:25 occupied (1) 181:18;182:5,13; 187:25;189:6;191:24 nowhere (1) Officer (1) 84:19;12:14;135:7,17; 137:19;146:9,25; 150:12;162:18;180:12 0dd (17) 22:4,18;23:23;27:15; 150:12;162:18;180:12 0dd (17) 22:4,18;23:23;27:15; 150:12;162:18;180:12 0dd (17) 22:4,18;23:23;27:15; 162:4;166:24;175:25; 171:190:24;13:100:9; 171:190:22;21:11;15 110:122;22;191:15 Official (2) 12:8 0fficial (2) 12:22;191:15 0dd (17) 12:32:4;145:18;23:23;27:15; 131:24;152:24;163:14; 164:24;166:24;175:25; 178:17;186:23;188:14 0n-the-ground (1) 85:22 0PEC (2) 139:14;140:19 0pen (5) 174:24;175:1,5,17,20 0nce (6) 175:21;22:15;128:10; 176:13,17;177:7,14,21, 12:18 12:18 12:18 12:18 12:18 12:18 12:11:19:22:18;180:12 12:18 12:18 12:18 12:11:19:22:18;18:18:21:11 12:18 12:18 12:18 12:18 12:11:10:12:18;18:18:12:11 12:18 12:18 12:11:10:12:18;18:18:12:11 12:18 12:18 137:19:124:6:12:18;180:12 11:11:10:12:18:18:18:18:12:11 164:1;166:14 164:1;166:14 171:10:19:19:18 171:11:10:19:19:18 171:11:11:11:11 171:11:11:11:11:11:11 171:11:11:11:11:11 171:11:11:11:11:11 171:11:11:11:11 171:11:11:11:11 171:11:11:11:11 171:1					
52:13;54:17;60:15;         obstacles (2)         70:11         137:19;146:9,25;         56:11;83:20;91:19;           63:16;65:3;67:1;68:10, 21;74:19;75:6,10,16; 80:13;81:10;82:19; 85:7;89:3;93:3;97:6,12; 105:7;107:12;108:15, 17;110:17,21;113:2,21; 105:7;107:12;108:15, 17;110:17,21;113:2,21; 17:11;118:14;120:19, 21;121:10;122:20; 127:3;131:12;134:23; 135:5,11;139:6;141:13, 17;143:13,16;150:8; 151:23;155:20;157:20; 158:1;159:21;161:25; 162:18;166:16,25; 174:21;176:20;177:7, 14;178:1;179:6,10; 181:18;182:5,13; 187:25;189:6;191:24         70:11 officers (1) officers (1) officers (1) officers (1) offices (1) official (2)					
63:16;65:3;67:1;68:10, 21;74:19;75:6,10,16; 80:13;81:10;82:19; 85:7;89:3;93:3;97:6,12; 105:7;107:12;108:15, 17;110:17,21;113:2,21; 117:11;118:14;120:19, 21;121:10;122:20; 127:3;131:12;134:23; 135:5;11;139:6;141:13, 17;143:13,16;150:8; 151:23;155:20;157:20; 158:1;159:21;161:25; 162:18;166:16,25; 174:21;176:20;177:7, 14;178:14;179:6,10; 181:18;182:5,13; 187:25;189:6;191:24 nowhere (1)  84:8;169:10 obtain (2) 29:11 old (17) 22:4,18;23:23;27:15; 119:5;124:6;129:14,15; 12:8 old (17) 22:4,18;23:23;27:15; 131:24;152:24;163:14; 164:24;166:24;175:25; 179:13,21 officials (2) 27:13,21 officials (2) 123:24;145:18;158:21; 164:11;166:14 Older (2) 22:22;182:7 Older (2) 22:22;182:7 Olivia (2) 53:8,9 Orea (6) 174:24;175:1,5,17,20 one (6) 158:19 open (5) 174:21;176:20;177:7, 14:178:1;179:6,10; 181:18;182:5,13; 187:25;189:6;191:24 nowhere (1)  84:8;169:10 obtain (2) 29:11 offices (1) 29:13,100:9; 171:190:24;91:3;100:9; 178:17;186:23;188:14 on-the-ground (1) 85:22 OPEC (2) 22:22;182:7 Olivia (2) 53:8,9 Orea (5) 174:24;175:1,5,17,20 one (6) 174:24;175:1,5,17,20 one (6) 174:24;175:1,5,17,20 one (6) 175:119:11124;114:7; 119:5;124:6;129:14,15; 131:24;152:24;163:14; 164:24;166:24;175:25; 178:14:13;18:14:10:19;18:14 ifficials (2) 29:11 officials (2) 29:11 officials (2) 29:22;182:7 Olivia (2) 29:22;18:15; 107:6;131:21 officials (2) 139:14;140:19 officials (2) 139:14;140:19 officials (2) 146:13;166:14 Olivia (2) 139:14;140:19 officials (2) 146:13;166:14 Olivia (2) 146:13;166:14 Olivia (2) 146:13;166:14 Olivia (2) 146:18 officials (2) 146:1					
21;74:19;75:6,10,16; 80:13;81:10;82:19; 145:11,14 offices (1) 22:4,18;23:23;27:15; 131:24;152:24;163:14; 105:7;107:12;108:15, 17;110:17,21;113:2,21; 177:11,118:14;120:19, 21;121:10;122:20; 127:3;131:12;134:23; 17;143:13,16;150:8; 17;143:13,16;150:8; 174:21;176:20;177:7, 14:21, 162:18;166:16,25; 174:21;176:20;177:7, 14:21, 18:18;182:5,13; 18:18;182:5,13; 18:18;182:5,13; 18:18;182:5,13; 18:18;182:5,13; 18:18;182:5,13; 18:18;182:5,13; 18:19; 10ccur (1) official (2) 29:11 offices (1) 22:4,18;23:23;27:15; 131:24;152:24;163:14; 164:24;166:24;175:25; 131:24;152:24;163:14; 164:24;166:24;175:25; 131:24;152:24;163:14; 164:24;166:24;175:25; 176:13,17;177:7,14,21, 27:13,21 official (2) 12:22;18:15 official (2) 12:222;182:7 on-the-ground (1) 85:22 offset (1) 22:22;182:7 offset (1) 22:22;182:7 offshore (1) 22:22;182:7 offshore (1) 53:8,9 occasion (1) offshore (1) 53:8,9 occasion (1) offshore (1) 19:8 occupational (1) 19:8 occupational (1) 17:11;118:14;166:14 official (2) 7:11;19:22;22:11;43:20; offshore (1) 10:22;22:11;43:20; once (6) 22:7;43:11;63:12; operate (1) 158:19 operates (1) 158:19 operates (1) 129:18 one (81) 10:6;21:16;22:13,19, 120:8 operations (1) 120:8 operations (1)	, , ,			, , ,	
80:13;81:10;82:19; 85:7;89:3;93:3;97:6,12; 105:7;107:12;108:15, 17;110:17,21;113:2,21; 17:11;118:14;120:19, 21;121:10;122:20; 127:3;131:12;134:23; 135:5,11;139:6;141:13, 17;143:13,16;150:8; 151:23;155:20;157:20; 158:1;159:21;161:25; 174:21;176:20;177:7, 14;18:18;182:5,13; 181:18;182:5,13; 187:25;189:6;191:24 nowhere (1)		1	7 7		
85:7;89:3;93:3;97:6,12; 105:7;107:12;108:15, 179:12					
105:7;107:12;108:15, 17;10:17,21;113:2,21; 179:2			` '		
17;110:17,21;113:2,21; 179:2		2 2			
117:11;118:14;120:19, 21;121:10;122:20; 127:3;131:12;134:23; 135:5,11;139:6;141:13, 16;150:8; 151:23;155:20;157:20; 162:18;166:16,25; 174:21;176:20;177:7, 14;11, 18:14;179:6,10; 181:18;182:5,13; 187:25;189:6;191:24         obviously (9) 43:7;81:2;175:25; 190:22;191:15 offset (1) 190:22;191:15 offset (1) 22:22;182:7 Olivia (2) 22:22;182:7 Olivia (2) 139:14;140:19 open (5) 21:20;66:18;95:11; 146:18 Olivia (2) 53:8,9 O'Malley (5) 174:24;175:1,5,17,20 occasionally (1) 19:8 occasionally (1) 19:22;22:11;43:20; 174:24;175:1,5,17,20 operate (1) 158:19 operate (1) 158:19 operates (1) 173:25 occupied (1) 67:1 129:18 one (81) operation (1) 129:18 occur (1) 129:18 operations (1) 120:8 operations (1)           nowhere (1)         obviously (9) 43:7;81:2;175:25; 190:22;191:15 offset (1) 190:22;191:15 offset (1) 22:22;182:7 Olivia (2) 22:22;182:7 Olivia (2) 139:14;140:19 open (5) 21:20;66:18;95:11; 107:6;131:21 operate (1) 158:19 operate (1) 158:19 operates (1) 158:19 operates (1) 129:18 one (81) 129:18 operation (1) 129:18 operations (1)			` '		
21;121:10;122:20; 127:3;131:12;134:23; 135:5,11;139:6;141:13, 17;143:13,16;150:8; 151:23;155:20;157:20; 158:1;159:21;161:25; 162:18;166:16,25; 174:21;176:20;177:7, 14;178:1;179:6,10; 181:18;182:5,13; 187:25;189:6;191:24 nowhere (1)  43:7;81:2;175:25; 190:22;191:15 offset (1)  146:18  Olivia (2)  53:8,9  O'Malley (5)  174:24;175:1,5,17,20  once (6)  173:25  occupied (1)  67:1  129:18  occur (1)  OREC (2)  139:14;140:19  open (5)  21:20;66:18;95:11;  107:6;131:21  operate (1)  158:19  operates (1)  158:19  operates (1)  109:10;134:23;167:3  one (81)  120:8  operations (1)			*		
127:3;131:12;134:23;       176:13,17;177:7,14,21,       offset (1)       22:22;182:7       139:14;140:19         135:5,11;139:6;141:13,       24       146:18       Olivia (2)       open (5)         17;143:13,16;150:8;       occasion (1)       64:20       55:4       O'Malley (5)       107:6;131:21         158:1;159:21;161:25;       occasionally (1)       19:8       10:22;22:11;43:20;       once (6)       158:19         174:21;176:20;177:7,       occupational (1)       67:21;122:15;128:10;       22:7;43:11;63:12;       operates (1)         181:18;182:5,13;       occupied (1)       oftentimes (1)       10:6;21:16;22:13,19,       0peration (1)         187:25;189:6;191:24       occur (1)       OGE (19)       19,25;25:16,25;43:14;       operations (1)			` '	/	
135:5,11;139:6;141:13,       24       146:18       Olivia (2)       open (5)         17;143:13,16;150:8;       64:20       53:8,9       21:20;66:18;95:11;         158:1;159:21;161:25;       64:20       0'Malley (5)       107:6;131:21         162:18;166:16,25;       119:8       0ccasionally (1)       10:22;22:11;43:20;       0nce (6)       158:19         174:21;176:20;177:7,       0ccupational (1)       67:21;122:15;128:10;       22:7;43:11;63:12;       0perates (1)         181:18;182:5,13;       0ccupied (1)       0ftentimes (1)       0peration (1)       8:23         187:25;189:6;191:24       0ccur (1)       0GE (19)       19;25;25:16;25;43:14;       0perations (1)			*		` '
17;143:13,16;150:8; 151:23;155:20;157:20; 64:20			` '		· ·
151:23;155:20;157:20;       64:20       55:4       O'Malley (5)       107:6;131:21         158:1;159:21;161:25;       occasionally (1)       19:8       10:22;22:11;43:20;       once (6)       158:19         174:21;176:20;177:7,       occupational (1)       67:21;122:15;128:10;       22:7;43:11;63:12;       operate (1)         181:18;182:5,13;       occupied (1)       129:18       one (81)       operation (1)         187:25;189:6;191:24       occur (1)       OGE (19)       19,25;25:16,25;43:14;       operations (1)					
158:1;159:21;161:25;       occasionally (1)       often (9)       174:24;175:1,5,17,20 once (6)       operate (1)         162:18;166:16,25;       119:8       10:22;22:11;43:20; once (6)       158:19         174:21;176:20;177:7,       occupational (1)       67:21;122:15;128:10; 122:15;128:10; 109:10;134:23;167:3       operates (1)         181:18;182:5,13; 187:25;189:6;191:24       occupied (1)       oftentimes (1)       one (81)       operation (1)         129:18 nowhere (1)       occur (1)       OGE (19)       19,25;25:16,25;43:14; operations (1)		T		,	
162:18;166:16,25;       119:8       10:22;22:11;43:20;       once (6)       158:19         174:21;176:20;177:7,       occupational (1)       67:21;122:15;128:10;       22:7;43:11;63:12;       operates (1)         14;178:1;179:6,10;       173:25       142:18;172:7;185:6       10:22;22:11;43:20;       operates (1)         181:18;182:5,13;       occupied (1)       0ftentimes (1)       0ne (81)       operation (1)         187:25;189:6;191:24       67:1       129:18       10:6;21:16;22:13,19,       120:8         nowhere (1)       OGE (19)       19,25;25:16,25;43:14;       operations (1)				• ` ′	· ·
174:21;176:20;177:7,       occupational (1)       67:21;122:15;128:10;       22:7;43:11;63:12;       operates (1)         14;178:1;179:6,10;       173:25       142:18;172:7;185:6       109:10;134:23;167:3       8:23         181:18;182:5,13;       occupied (1)       67:1       129:18       10:6;21:16;22:13,19,       120:8         nowhere (1)       occur (1)       OGE (19)       19,25;25:16,25;43:14;       operation (1)			` /		
14;178:1;179:6,10;       173:25       142:18;172:7;185:6       109:10;134:23;167:3       8:23         181:18;182:5,13;       occupied (1)       oftentimes (1)       one (81)       operation (1)         187:25;189:6;191:24       67:1       129:18       10:6;21:16;22:13,19,       120:8         nowhere (1)       OGE (19)       19,25;25:16,25;43:14;       operations (1)					
181:18;182:5,13;       occupied (1)       oftentimes (1)       one (81)       operation (1)         187:25;189:6;191:24       67:1       129:18       10:6;21:16;22:13,19, 120:8       120:8         nowhere (1)       OGE (19)       19,25;25:16,25;43:14; operations (1)		_			
187:25;189:6;191:24 67:1 129:18 10:6;21:16;22:13,19, 120:8 nowhere (1) OGE (19) 19,25;25:16,25;43:14; operations (1)					
nowhere (1) occur (1) OGE (19) 19,25;25:16,25;43:14; operations (1)			* *	` '	
70.1 2:15;8:1;11:25;15:5; 47:5;31:25;59:20; 150:22					
	/0.1	05.15	2.13,6.1,11.25,13.3;	47.5,51.25,59.20;	130.22

opinion (4)	63:18,23,24;64:1;69:1;	14:13,17;22:9,9;	owners (13)	76:20;112:22;113:15,
30:21;31:13;160:8;	73:4;79:15,21;81:8,15,	26:11;40:1;43:16,17;	14:16;23:8;30:18;	18,21;114:20;130:25;
189:7	16;87:4,12;88:14;95:5;	54:3;60:6;64:8;68:20;	31:15,19,24;32:3,8,14,	155:8;170:19
opinions (1)	97:4;98:11;100:15;	80:8;88:24;91:12,22;	19,22;33:3;98:4	paper (1)
129:23	101:25;107:9;114:2;	102:23;103:4,15,16,17;	ownership (3)	116:24
opportunities (1)	115:9;119:10;130:25;	104:7;105:11;112:6;	56:6;98:5;103:7	par (1)
40:24	133:9;143:15;145:5;	126:6,13;127:18;129:1,	owning (1)	32:10
opportunity (31)	148:21;150:24;151:6,6,	3;133:2;153:6;167:19,	105:13	paragraphs (1)
11:17;12:12;14:5;	24;152:8;154:1;159:24;	20,22,23,24,25;172:25;	owns (1)	111:20
15:16;18:22;20:18;	174:3;175:23;185:22;	175:8;178:8;179:14;	136:24	parallel (1)
24:25;26:21;33:18;	187:11	183:20;185:14;188:20,	oxide (1)	110:7
39:22;44:23;46:19;	others (4)	22	16:4	parent (1)
47:13;49:2;53:6;55:8;	23:17;102:2;131:7;	overall (2)	oxides (1)	135:19
59:10;85:19;87:23;	170:10	107:5;108:10	10:14	parents (4)
88:10;109:24;121:21;	otherwise (1)	overbuilding (1)	oxygen (1)	23:11;41:4;65:9;
123:14;125:25;147:16;	88:8	89:6	42:15	90:20
150:19;154:4;164:14;	ought (1)	overcome (1)	ozone (8)	Park (7)
184:8;186:14,17	98:3	67:11	9:23,24;10:21,23;	21:21,22;22:25;23:3,
opposed (1)	ourselves (7)	overdrawn (1)	37:15;38:12;91:23;	4,14;184:18
142:19	48:21;51:3,4;79:18;	86:24	98:23	parking (2)
opposing (1)	83:17;188:15,25	overlooked (1)		120:20;164:19
159:4	out (46)	102:17	P	parks (5)
optimist (1)	21:16;25:13;26:6;	overly (2)		22:22;24:13;90:25;
114:19	28:21;29:17;36:17;	56:8;62:12	paces (1)	93:16;151:13
option (2)	42:12;43:19;47:25;	overregulated (1)	22:15	Part (13)
78:2;165:1	48:2;61:10,23;63:24;	183:10	pack (1)	37:6;65:17;73:20;
options (1)	66:18;74:15;83:4;	overregulation (2)	141:7	89:24;103:22;106:19,
28:12	84:25;87:19,20;95:15,	183:11,14	package (1)	20;108:9;113:4,20;
orange (1)	17;98:14;102:4;104:10;	overseas (1)	74:7	136:9;140:12;151:22
43:19	109:16;111:17;113:15;	34:10	page (2)	partially (2)
order (6)	116:22;120:10;122:10;	overstatement (1)	150:20;177:5	164:19;176:4
19:14;42:7;48:22;	134:4;140:15,21;	173:17	pages (1)	participant (2)
111:25;132:1;184:5	144:19;160:11;161:10,	overstating (1)	152:9	43:23;171:16
ordinary (1)	12;177:3;180:23;	173:15	paid (1)	participated (3)
98:19	181:11,11,20;182:2,2,4;	overuse (1)	138:11	9:6;36:20;37:5
Organic (1)	187:5	108:1	paid-off (1)	particle (2)
10:14	outcomes (1)	overwhelming (5)	104:19	37:16;38:12
organics (1)	37:9	17:22;47:8;53:24;	pain (2)	particular (5)
136:5	outdoors (6)	92:13;126:16	42:13;152:25	40:13;58:8;64:14;
organization (9)	23:23;107:10;124:1,	Overwhelmingly (1)	paintings (1)	68:3;181:14
12:7;30:17,21;39:20;	7,9;125:1	51:1	66:1	particularly (5)
53:14;57:7;75:14;95:4;	outfitter (1)	owe (2)	pallets (1)	59:18;60:5;101:15;
106:5	146:17	83:12,16	144:21	121:7;148:25
organizations (5)	outgrowth (1)	own (21)	palpitations (1)	particulate (3)
36:8;58:23;118:25;	183:14	22:18;30:20;36:7;	42:12	9:23,25;23:24
123:19;150:24	outrage (1)	44:20;46:9;67:4;73:1;	pander (1)	partisan (1)
organize (3)	118:2	112:7;118:6;119:9;	167:9	154:16
22:11;48:21;49:4	outs (1)	122:4;132:10,11;134:2;	Panel (16)	Partnership (1)
organizer (2)	176:14	138:10;142:19;146:20;	2:8,14,19;30:3,7;	95:2
99:15;162:25	outside (7)	155:6;170:15;188:8,17	49:1;51:24;52:12,14;	parts (2)
originally (1)	27:8;71:25;87:2;	owned (1)	65:21;68:5;69:8;85:7;	100:15;139:7
163:9	124:9;129:5;140:10;	122:1	116:9;150:4,9	Party (1)
other (50)	170:9	owner (7)	panelists (5)	131:19
14:23;23:9,12;36:23;	ovarian (1)	27:11;38:18;72:4;	79:21;175:11,25;	pass (12)
40:7;43:4;44:19;45:4;	166:15	127:22;135:23;141:4;	180:8,10	14:6;24:6;29:20;
47:11;48:25;59:23;	Over (45)	184:16	panels (9)	58:11,12,25;60:12;
T1.11,T0.43,37.43,	O 101 (43)	107.10	F 33333 (7)	JU.11,12,2J,UU.12,

61:25;62:22;115:11;	98:9	136:23;137:6;138:15;	49:20;81:7	174:1;176:19;184:18;
139:8;176:23	pays (1)	139:1;140:14;144:4;	permits (1)	186:12;189:16,18;
passage (1)	105:8	148:21;151:6;154:1,4;	134:6	190:13
143:7	<b>PBS</b> (1)	155:17;158:16,22;	permitted (1)	Philadelphians (4)
passed (4)	64:12	160:2;169:9,18;175:22;	65:23	8:21;9:5;63:20;99:4
117:7;146:11;168:20;	Peace (1)	176:5,18,21;177:6;		Philly (1)
178:22	92:10	178:4;181:23;185:4,22;	66:5;74:25;83:20;	164:23
passenger (3)	peasant (2)	186:16,18;187:14,17;	93:21;103:12;119:5;	philosophy (1)
12:22;17:12;124:18	100:18,24	189:8,25	143:14;144:19	129:8
passing (2)	pedestrian (2)	people's (4)	personal (13)	Phoenix (1)
14:15;189:5	28:12;119:14	16:15;85:25;134:1;	38:17;81:12;89:15;	124:4
passion (4)	peer-reviewed (1)	140:7	99:17;100:2;111:18;	phone (1)
125:8;171:21;172:2,	53:24	peppercorn (1)	125:4;129:2;155:24;	143:24
16	PENN (6)	167:20	166:12;168:8;171:15;	photo (1)
passionate (2)	12:2;21:18;46:20;	per (48)	187:4	34:25
106:3;163:3	57:9;59:9;141:22	17:9;24:7;27:16;32:4,	personality (1) 112:7	photograph (1) 65:24
past (17)	PennFuture (5)	6;34:4;37:4;38:21;61:3,		
21:24;36:5;41:1; 43:16;44:2;54:3;55:5,	12:6,10,24;14:25; 50:5	4;73:25;82:25;84:3;	Personally (7) 27:14;81:23;82:8;	<b>photos (2)</b> 34:21;47:15
43:10;44:2;34:3;33:3, 16;70:20;88:24;92:17;	Penn's (2)	88:14;91:4,12;103:1,6, 16,25;104:13;105:3,6,7;	93:4;121:25;135:2;	physical (1)
107:24;131:14;133:1;	21:23;23:20	108:19,23;117:25;	139:17	78:5
134:6;167:18;187:3	Pennsylvania (42)	124:13,14;133:3;136:1;	Persons (1)	physician (4)
past-Governor (1)	2:6;8:24;15:9,13,25;	139:7,25;144:2;152:8,	123:14	35:25;53:19;54:10;
134:15	17:2;27:8;41:23;57:12;	10;159:5,20;160:20;	perspective (7)	109:25
pastime (1)	58:3;65:22;66:9;70:1;	161:15;163:22;165:6;	21:6;100:13;154:3,	Physicians (1)
119:16	71:25;91:1;102:13,16;	171:1;186:21;187:13,	22;166:6;191:10,12	36:4
pastor (1)	107:11;108:6,6;110:1;	15,16,19	petition (1)	pianist (1)
39:15	112:3;116:21;117:12,	percent (35)	20:2	129:3
path (4)	16;127:17,20;132:24;	10:13,14,15,17;12:17;	petro-dictators (1)	picked (1)
18:14;85:4;115:22;	133:12,14,21;134:17,	13:12;19:21;28:3;	74:10	23:2
116:2	18;137:2;142:1;146:10;	31:14,17,23,25;32:3,21;	petro-dictatorships (1)	pickup (1)
pathogens (1)	147:12;149:9,10,17;	34:8;38:5;72:16,17,21;	73:7	144:20
59:23	161:7;176:19	84:1;100:19,23;101:8;	petroleum (2)	picnics (1)
paths (1)	Pennsylvanians (1)	105:9;114:6,7,23;	95:19;165:10	23:14
151:12	163:3	117:19;127:18;130:17,	PEW (8)	piece (1)
patient (2)	Pennsylvania's (3)	18;133:15;166:23;	16:24;17:3,4,20;	113:3
52:24;162:16	12:5,8;133:12	170:21;180:25	18:25;19:6,8;20:4	pigeons (1)
patiently (1)	Pentagon (1)	percentage (2)	phase (1)	23:8
162:14	114:24	37:10;40:14	14:3	pile (1)
patients (2)	people (97)	perfect (1)	Philadelphia (75)	90:23
37:23;54:11	11:20;22:5,22;23:22;	88:3	2:5,6;8:5,10,12,14,20,	piles (1)
patronage (1) 120:21	27:12;28:14;29:19; 37:20;38:5,8,11,15;	perform (1) 127:8	24;9:20,21,25;10:5,5, 13,16,23;11:8,9,12,16,	23:1 pinnacle (1)
patronizing (1)	40:3;41:1;43:4;44:20;	performed (1)	21;12:9;15:24;21:15,	58:2
33:5	47:24;48:25;56:15;	114:5	20;23:18;24:22;27:5,9;	pipelines (1)
patterns (1)	57:8;58:8,22;65:18;	perhaps (6)	28:19;36:4,15,21;37:23;	142:22
171:10	66:6;77:18;78:23;	26:19;56:19;98:5;	38:4;39:18;50:9;56:4;	Pittsburgh (1)
PAUL (2)	83:18;85:1,20,20;87:4;	127:13;152:11,18	57:11,23,25;66:14;	12:9
46:15,19	88:1;89:14,21,22,24;	period (6)	70:13,16;72:1;77:9;	place (12)
pause (2)	90:1,2;93:13,20,24;	19:8;38:13;40:23;	90:19;96:9;99:16;	24:10;29:5;47:17;
72:13;180:11	95:5;100:21,25;101:2,7,	81:23;101:13;162:5	102:4;106:18;107:13;	52:5;64:17;80:25;
pay (4)	10;102:3;103:10,14;	periods (1)	110:1;118:21;119:24;	115:19;133:11;144:14,
26:3;58:15,16;81:11	104:8;106:7;108:16;	100:10	120:12,16;123:12;	14;149:15,16
paying (2)	109:9;112:7,23;113:6,	permanent (1)	131:14;138:9;149:16;	places (8)
28:11;127:20	, , , ,,			·
	11,24;117:3,4,24;118:5;	81:5	151:1,14;153:21;163:1;	21:5;67:1;86:9;87:4;
payment (1)	11,24;117:3,4,24;118:5; 120:9,17;122:10;	81:5 permanently (2)	151:1,14;153:21;163:1; 164:17;166:5;170:9;	21:5;67:1;86:9;87:4; 107:4;119:17;155:25;

190:5	81:10	19:20;31:13	129:24	38:14
plan (4)	plus (3)	polled (1)	positive (5)	precurse (1)
28:12;45:25;46:6;	64:2;104:20;121:2	32:16	25:17,23;115:3;	80:10
134:16	pm (5)	pollutant (3)	131:8;171:2	predict (1)
planet (17)	2:7;150:10,11;176:5;	9:17,18;10:21	POSMONTEIR (2)	18:23
60:3;72:15;77:17;	191:25	pollutants (13)	184:12,15	
		1 =	*	prediction (2)
79:18;83:9,16;89:11;	pneumonia (1) 42:4	9:22;10:8;21:10;38:3;	possibility (1)	75:13;113:20
93:5;102:6;117:3;		67:13;68:3,18;89:18;	21:19	predictions (1)
152:22;155:5;170:14;	pocketbooks (1)	97:5;122:14,21;127:25;	possible (13)	100:6
172:10,12;180:20;188:6	51:15	138:16	16:11;27:18,19,20;	preferences (1)
planet's (3)	pockets (3)	polluted (1)	57:16;61:7;66:7;68:21;	51:17
49:19;81:6;93:3	109:10;122:24;	182:13	83:12;151:4;152:20,23;	premise (1)
planner (1)	179:13	polluting (2)	156:1	151:2
21:18	point (28)	155:12,19	possibly (2)	prepared (2)
planning (5)	26:6;29:6;58:3;65:17,	pollution (48)	62:10;133:23	15:14;183:8
39:6;129:19,21;	25;69:3;82:5,16,16,19,	8:19,22,24;9:2,2;	postcards (1)	Presbyterian (1)
130:6;157:1	19,22,22,24;83:4;84:3,	11:11;13:15,19;15:20,	34:24	39:16
plans (1)	18;87:11,19;88:19,20;	22;16:5;34:9;37:16,25;		present (4)
142:22	136:21;139:8;148:4,24;	38:13;43:15;45:20;	54:13	18:21;116:3;123:20;
plant (3)	149:7,8;183:18	51:8,8;54:9,16;68:9;	potatoes (1)	163:19
59:17;127:22;146:21	pointed (2)	75:25;76:8,9;92:16;	113:9	presentation (2)
plants (5)	25:13;120:10	117:17;124:14,24;	potential (5)	36:12;150:20
45:22;55:2;127:19;	poison (1)	126:12;127:5,8,15,16;	13:7;31:3;32:20;	presented (2)
128:1;133:13	113:10	132:4;133:17;142:13;	62:10;98:4	17:15;88:6
plastic (1)	poisons (2)	148:23;163:23;165:9;	potentially (1)	preservation (1)
155:11	21:10;76:13	176:11;179:18,22;	101:13	92:24
plastics (1)	polar (3)	182:16;188:2;190:2;	power (12)	preserve (3)
157:9	75:10,25;190:3	191:7,14	31:1;32:12;39:19;	93:5;169:12;191:17
platforms (2)	<b>Pole</b> (1)	pollution-related (2)	93:20;114:21,23;	President (22)
	` ,			
72:8;154:15	75:11	13:20;16:16	116:21;127:19,21,25;	20:2;27:7;46:10;
play (2)	75:11 <b>police (2)</b>	13:20;16:16 ponds (1)	116:21;127:19,21,25; 133:13;151:3	20:2;27:7;46:10; 50:14;92:8;112:21;
<b>play (2)</b> 23:17;132:22	75:11 police (2) 29:11,11	13:20;16:16 ponds (1) 24:1	116:21;127:19,21,25; 133:13;151:3 powerful (1)	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17;
play (2) 23:17;132:22 played (1)	75:11 police (2) 29:11,11 policies (9)	13:20;16:16 ponds (1) 24:1 poor (7)	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19;
play (2) 23:17;132:22 played (1) 129:3	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2;	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19;	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3)	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21;
play (2) 23:17;132:22 played (1) 129:3 playing (1)	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9;	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10,
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1)	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2)	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1)	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12)	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4)
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22;	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3)	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2)	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4)	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12;	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1)
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1)	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2)	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14)	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1)	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3)
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14) 24:6;30:9;56:10;	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1) 17:25	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22 Population (10)	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19 pragmatic (1)	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3) 37:8;145:25;146:1
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14) 24:6;30:9;56:10; 57:15;58:11;84:1;99:3;	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1) 17:25 political (12)	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22 Population (10) 36:2,18;38:2,6;77:17;	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19 pragmatic (1) 129:19	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3) 37:8;145:25;146:1 pressures (2)
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14) 24:6;30:9;56:10; 57:15;58:11;84:1;99:3; 121:14;125:10,13;	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1) 17:25 political (12) 48:7;64:24;98:15;	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22 Population (10) 36:2,18;38:2,6;77:17; 92:14;100:20,24;	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19 pragmatic (1) 129:19 praise (1)	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3) 37:8;145:25;146:1 pressures (2) 154:17;186:3
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14) 24:6;30:9;56:10; 57:15;58:11;84:1;99:3; 121:14;125:10,13; 135:17;156:8;181:21;	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1) 17:25 political (12) 48:7;64:24;98:15; 101:22;126:9;134:2;	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22 Population (10) 36:2,18;38:2,6;77:17; 92:14;100:20,24; 106:19,21	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19 pragmatic (1) 129:19 praise (1) 113:7	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3) 37:8;145:25;146:1 pressures (2) 154:17;186:3 prestigious (1)
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14) 24:6;30:9;56:10; 57:15;58:11;84:1;99:3; 121:14;125:10,13; 135:17;156:8;181:21; 182:25	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1) 17:25 political (12) 48:7;64:24;98:15; 101:22;126:9;134:2; 142:18;147:24;154:15;	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22 Population (10) 36:2,18;38:2,6;77:17; 92:14;100:20,24; 106:19,21 Porsche (2)	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19 pragmatic (1) 129:19 praise (1) 113:7 prayerfully (1)	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3) 37:8;145:25;146:1 pressures (2) 154:17;186:3 prestigious (1) 130:15
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14) 24:6;30:9;56:10; 57:15;58:11;84:1;99:3; 121:14;125:10,13; 135:17;156:8;181:21; 182:25 pleased (6)	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1) 17:25 political (12) 48:7;64:24;98:15; 101:22;126:9;134:2; 142:18;147:24;154:15; 168:9;172:7;173:11	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22 Population (10) 36:2,18;38:2,6;77:17; 92:14;100:20,24; 106:19,21 Porsche (2) 136:25,25	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19 pragmatic (1) 129:19 praise (1) 113:7 prayerfully (1) 118:5	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3) 37:8;145:25;146:1 pressures (2) 154:17;186:3 prestigious (1) 130:15 pretend (1)
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14) 24:6;30:9;56:10; 57:15;58:11;84:1;99:3; 121:14;125:10,13; 135:17;156:8;181:21; 182:25 pleased (6) 17:4;22:1;38:23,24;	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1) 17:25 political (12) 48:7;64:24;98:15; 101:22;126:9;134:2; 142:18;147:24;154:15; 168:9;172:7;173:11 politically (3)	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22 Population (10) 36:2,18;38:2,6;77:17; 92:14;100:20,24; 106:19,21 Porsche (2) 136:25,25 portable (1)	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19 pragmatic (1) 129:19 praise (1) 113:7 prayerfully (1) 118:5 prayers (1)	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3) 37:8;145:25;146:1 pressures (2) 154:17;186:3 prestigious (1) 130:15 pretend (1) 82:1
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14) 24:6;30:9;56:10; 57:15;58:11;84:1;99:3; 121:14;125:10,13; 135:17;156:8;181:21; 182:25 pleased (6) 17:4;22:1;38:23,24; 54:22;113:13	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1) 17:25 political (12) 48:7;64:24;98:15; 101:22;126:9;134:2; 142:18;147:24;154:15; 168:9;172:7;173:11 politically (3) 142:8;149:23;190:21	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22 Population (10) 36:2,18;38:2,6;77:17; 92:14;100:20,24; 106:19,21 Porsche (2) 136:25,25 portable (1) 114:20	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19 pragmatic (1) 129:19 praise (1) 113:7 prayerfully (1) 118:5 prayers (1) 118:8	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3) 37:8;145:25;146:1 pressures (2) 154:17;186:3 prestigious (1) 130:15 pretend (1) 82:1 pretty (4)
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14) 24:6;30:9;56:10; 57:15;58:11;84:1;99:3; 121:14;125:10,13; 135:17;156:8;181:21; 182:25 pleased (6) 17:4;22:1;38:23,24; 54:22;113:13 pleasure (1)	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1) 17:25 political (12) 48:7;64:24;98:15; 101:22;126:9;134:2; 142:18;147:24;154:15; 168:9;172:7;173:11 politically (3) 142:8;149:23;190:21 politician (3)	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22 Population (10) 36:2,18;38:2,6;77:17; 92:14;100:20,24; 106:19,21 Porsche (2) 136:25,25 portable (1) 114:20 portion (2)	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19 pragmatic (1) 129:19 praise (1) 113:7 prayerfully (1) 118:5 prayers (1) 118:8 pre-bankruptcy (1)	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3) 37:8;145:25;146:1 pressures (2) 154:17;186:3 prestigious (1) 130:15 pretend (1) 82:1 pretty (4) 43:3;54:21;172:17;
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14) 24:6;30:9;56:10; 57:15;58:11;84:1;99:3; 121:14;125:10,13; 135:17;156:8;181:21; 182:25 pleased (6) 17:4;22:1;38:23,24; 54:22;113:13 pleasure (1) 80:20	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1) 17:25 political (12) 48:7;64:24;98:15; 101:22;126:9;134:2; 142:18;147:24;154:15; 168:9;172:7;173:11 politically (3) 142:8;149:23;190:21 politician (3) 126:4;133:25;170:11	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22 Population (10) 36:2,18;38:2,6;77:17; 92:14;100:20,24; 106:19,21 Porsche (2) 136:25,25 portable (1) 114:20 portion (2) 97:11;146:23	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19 pragmatic (1) 129:19 praise (1) 113:7 prayerfully (1) 118:5 prayers (1) 118:8 pre-bankruptcy (1) 138:11	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3) 37:8;145:25;146:1 pressures (2) 154:17;186:3 prestigious (1) 130:15 pretend (1) 82:1 pretty (4) 43:3;54:21;172:17; 187:17
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14) 24:6;30:9;56:10; 57:15;58:11;84:1;99:3; 121:14;125:10,13; 135:17;156:8;181:21; 182:25 pleased (6) 17:4;22:1;38:23,24; 54:22;113:13 pleasure (1) 80:20 plenty (1)	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1) 17:25 political (12) 48:7;64:24;98:15; 101:22;126:9;134:2; 142:18;147:24;154:15; 168:9;172:7;173:11 politically (3) 142:8;149:23;190:21 politician (3) 126:4;133:25;170:11 politicians (3)	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22 Population (10) 36:2,18;38:2,6;77:17; 92:14;100:20,24; 106:19,21 Porsche (2) 136:25,25 portable (1) 114:20 portion (2) 97:11;146:23 portions (1)	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19 pragmatic (1) 129:19 praise (1) 113:7 prayerfully (1) 118:5 prayers (1) 118:8 pre-bankruptcy (1) 138:11 precarious (1)	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3) 37:8;145:25;146:1 pressures (2) 154:17;186:3 prestigious (1) 130:15 pretend (1) 82:1 pretty (4) 43:3;54:21;172:17; 187:17 prevent (3)
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14) 24:6;30:9;56:10; 57:15;58:11;84:1;99:3; 121:14;125:10,13; 135:17;156:8;181:21; 182:25 pleased (6) 17:4;22:1;38:23,24; 54:22;113:13 pleasure (1) 80:20 plenty (1) 66:11	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1) 17:25 political (12) 48:7;64:24;98:15; 101:22;126:9;134:2; 142:18;147:24;154:15; 168:9;172:7;173:11 politically (3) 142:8;149:23;190:21 politician (3) 126:4;133:25;170:11 politicians (3) 45:4;134:11;135:5	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22 Population (10) 36:2,18;38:2,6;77:17; 92:14;100:20,24; 106:19,21 Porsche (2) 136:25,25 portable (1) 114:20 portion (2) 97:11;146:23 portions (1) 40:25	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19 pragmatic (1) 129:19 praise (1) 113:7 prayerfully (1) 118:5 prayers (1) 118:8 pre-bankruptcy (1) 138:11 precarious (1) 73:3	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3) 37:8;145:25;146:1 pressures (2) 154:17;186:3 prestigious (1) 130:15 pretend (1) 82:1 pretty (4) 43:3;54:21;172:17; 187:17 prevent (3) 49:16;126:21;127:7
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14) 24:6;30:9;56:10; 57:15;58:11;84:1;99:3; 121:14;125:10,13; 135:17;156:8;181:21; 182:25 pleased (6) 17:4;22:1;38:23,24; 54:22;113:13 pleasure (1) 80:20 plenty (1) 66:11 plodded (1)	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1) 17:25 political (12) 48:7;64:24;98:15; 101:22;126:9;134:2; 142:18;147:24;154:15; 168:9;172:7;173:11 politically (3) 142:8;149:23;190:21 politician (3) 126:4;133:25;170:11 politicians (3) 45:4;134:11;135:5 politics (2)	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22 Population (10) 36:2,18;38:2,6;77:17; 92:14;100:20,24; 106:19,21 Porsche (2) 136:25,25 portable (1) 114:20 portion (2) 97:11;146:23 portions (1) 40:25 position (2)	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19 pragmatic (1) 129:19 praise (1) 113:7 prayerfully (1) 118:5 prayers (1) 118:8 pre-bankruptcy (1) 138:11 precarious (1) 73:3 precious (1)	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3) 37:8;145:25;146:1 pressures (2) 154:17;186:3 prestigious (1) 130:15 pretend (1) 82:1 pretty (4) 43:3;54:21;172:17; 187:17 prevent (3) 49:16;126:21;127:7 preventing (1)
play (2) 23:17;132:22 played (1) 129:3 playing (1) 22:6 Plaza (1) 2:5 plea (4) 136:4,8,16,22 please (14) 24:6;30:9;56:10; 57:15;58:11;84:1;99:3; 121:14;125:10,13; 135:17;156:8;181:21; 182:25 pleased (6) 17:4;22:1;38:23,24; 54:22;113:13 pleasure (1) 80:20 plenty (1) 66:11	75:11 police (2) 29:11,11 policies (9) 21:11;31:4;41:2; 50:22,24;51:1;118:9; 130:20;143:20 policy (12) 14:20;40:22,22,22; 177:21,22,23;188:12; 190:18,20,21;191:9 policymakers (1) 17:25 political (12) 48:7;64:24;98:15; 101:22;126:9;134:2; 142:18;147:24;154:15; 168:9;172:7;173:11 politically (3) 142:8;149:23;190:21 politician (3) 126:4;133:25;170:11 politicians (3) 45:4;134:11;135:5	13:20;16:16 ponds (1) 24:1 poor (7) 27:10;36:19;50:19; 97:9;101:10,24;114:8 poorer (1) 67:4 popular (3) 131:17;141:8;159:16 populated (1) 176:22 Population (10) 36:2,18;38:2,6;77:17; 92:14;100:20,24; 106:19,21 Porsche (2) 136:25,25 portable (1) 114:20 portion (2) 97:11;146:23 portions (1) 40:25	116:21;127:19,21,25; 133:13;151:3 powerful (1) 71:16 powerplants (3) 163:25;179:20;188:3 practice (2) 37:11,22 practices (2) 130:21;146:17 practicing (2) 22:9;53:19 pragmatic (1) 129:19 praise (1) 113:7 prayerfully (1) 118:5 prayers (1) 118:8 pre-bankruptcy (1) 138:11 precarious (1) 73:3	20:2;27:7;46:10; 50:14;92:8;112:21; 113:13,14,23;114:17; 115:23;136:21;139:19; 153:24;156:5,6;161:21; 162:8;174:12;178:10, 13;181:21 presidential (4) 131:11,13,14,18 President's (1) 155:2 pressure (3) 37:8;145:25;146:1 pressures (2) 154:17;186:3 prestigious (1) 130:15 pretend (1) 82:1 pretty (4) 43:3;54:21;172:17; 187:17 prevent (3) 49:16;126:21;127:7

	· ·		I	
9:1	produce (2)	113:14	167:5	56:3;170:16
previous (2)	95:19;157:14	prompts (1)	provide (9)	purchases (1)
141:4;181:20	produced (3)	45:10	9:5,16;12:12;15:16;	128:7
price (6)	19:9;157:9;183:22	prop (1)	18:13;61:14;150:5;	purpose (2)
17:16;38:20;61:11;	producers (1)	167:8	163:14;166:6	11:11;144:11
91:19;97:21;98:6	138:20	propaganda (1)	provided (2)	pursue (2)
prices (9)	produces (2)	61:23	8:23;154:12	61:14;171:2
109:4;115:8,8;	131:2;138:19	PROPOSAL (13)	providing (1)	push (3)
120:19;122:8;163:21;	producing (1)	2:2;8:15;62:6;79:5;	24:24	36:9;44:1;112:24
185:12;187:6,10	101:17	117:1;118:10;129:12;	proximity (1)	put (10)
Primarily (1)	product (1)	138:13;155:2;156:5;	65:12	64:15;76:13;95:15;
41:24	45:11	174:12,16;185:20	prudent (2)	107:6;114:12;122:23;
primary (3)	production (4)	propose (1)	79:15,17	142:16;167:7,13;168:13
11:10;35:25;82:9	17:18;18:15,18;55:1	123:3	psychiatric (1)	putting (3)
principles (1)	products (1)	proposed (36)	158:13	39:24;76:9;109:1
188:18	39:3	9:16;10:18;11:1,14,	psychologist (1)	0,121,700,120,11
prior (1)	professional (5)	18;12:12;14:15;15:2,	68:1	Q
78:10	82:5;129:2;142:2,4;	21;16:17;17:5,11;18:8,	<b>PUBLIC (54)</b>	
priority (3)	186:12	21;19:4;27:18;32:7,10;	2:1;8:10,14;12:6,19;	Quaker (1)
14:3;28:7;29:10	professionals (1)	45:19;51:18;59:12;	17:24;19:18;28:14;	189:17
pristine (1)	171:24	60:22;71:13;78:20,24;	33:4;34:12;36:6,12;	quality (23)
127:12	professor (3)	98:1;117:18;121:22;	39:3,5;49:11;57:15,19;	8:21;9:4;10:2,22;
Prius (6)	36:1;43:24;46:20	124:20;147:18;148:8;	58:5;66:12;80:9;96:11;	11:20;15:19;27:10;
56:2,3;104:9;135:24;	profile (1)	156:9;163:3;164:5;	115:15,21;119:15;	36:16,19;37:7,9;43:14,
136:6;137:1	134:2	185:15;186:20		19;44:11;97:5,10;
private (1)	profit (3)	proposing (8)	120:16,22;121:1;132:3,	98:22;120:11;149:5,7,
147:15	55:10;126:11,14	26:16;34:1;45:14;	5,13;133:11,24;145:23,	12;185:2;189:21
	1		25,25;147:17;149:21,	quantify (2)
privilege (1)	profligate (1) 183:15	50:15;74:5;95:22;	25;150:1;151:11;	25:18;128:9
111:23		130:2;143:9	163:11;164:24;166:23;	question (1)
<b>Prize (1)</b> 92:10	<b>profound (1)</b> 101:13	prosperity (1) 32:24	167:14;176:3;178:7,18; 190:20,21,22,23;	41:8
probably (12)	Program (13)	protect (13)	190.20,21,22,23,	questions (4)
43:10;60:2;64:11;	13:22;14:4,10,13,24;	8:20;11:19;16:15;	publication (1)	26:1;30:2;44:20;
81:5;103:21;108:19;	16:24;17:3;30:5;50:8;	37:2;79:18;90:17;	97:14	51:24
109:6,8;137:17;139:2;	74:6;94:16;110:6,21	94:14;102:6;125:16;	publications (1)	quick (2)
168:15;175:12	PROGRAMS (2)	136:15;154:6;191:13,16	37:18	61:19;83:5
problem (14)	8:6;9:1	protecting (4)	public's (1)	quickly (3)
48:22;49:5,7;60:20;		19:16;93:16;154:18;	36:14	42:18;68:21;178:24
	progressing (1) 115:17	172:11		quiet (1)
81:3;87:1;122:9;127:2;			Pugh (7)	64:5
134:11;142:24;161:9;	project (9)	Protection (14)	116:13;141:19,21,24,	quite (5)
187:9,12,23	36:21,23;37:3,5;	9:10,12;16:14;17:6;	24;146:9;147:1	28:15;58:7;103:21;
<b>problems (12)</b> 38:1;47:22;58:9;	110:11,12;111:2;114:5; 142:3	24:4;56:15;64:21;65:4;	<b>pull (1)</b> 168:21	122:1;180:24
		92:24;93:11;124:16;		quo (2)
67:12;77:21;78:1;81:4;	projected (1)	130:9;140:25;156:5		126:15;169:12
89:16,18;158:17;	14:4	protections (1)	134:3	120.13,109.12
163:11;182:12	projecting (1)	178:2	pump (10)	R
procedure (2)	75:10	Protest (1)	14:19;17:14;25:20;	
42:19,21	projects (1)	145:20	35:6,11;45:18;163:22;	Rachel (1)
procedures (2)	11:13 Promise (4)	protested (1)	181:21;187:4,15	110:3
21:11;131:2	Promise (4)	55:13	puncture (1)	radiating (1)
proceedings (1)	97:6,7;143:23;148:14	proud (4)	43:1	94:4
65:18	promised (2)	57:11;135:23;146:15;	punishment (1)	rail (2)
process (2)	114:22;116:4	169:5	124:8	183:7,16
108:2;147:24	promote (3)	prove (2)	purchase (1)	railroads (2)
procure (1)	9:7;11:7;15:19	25:18;65:25	97:24	` '
173:14	promptly (1)	proven (1)	purchased (2)	121:2,8
	1			

	1			
rain (3) 94:8;107:22;128:2	reaction (1) 79:1	163:5;189:4,18 <b>rebate (1)</b>	10:19;11:3;13:19; 97:2;148:20;171:9	88:2,3,3;115:9,10,12;
		` ´		130:3;146:11;176:8,10,
raindrop (1)	reactive (1)	74:6	reductions (4)	12,14
94:2	127:7	REBECCA (1)	9:18,19;11:7;55:1	rehearsing (2)
rainstorm (1)	read (10)	2:22	re-election (1)	22:8,10
94:8	42:18;88:2;97:6;	rebuild (1)	113:14	reinstalled (1)
raise (9)	100:4,5;111:21;116:23;	31:9	reference (1)	113:15
35:15;66:24;82:23;	135:11;151:25;152:4	recall (1)	52:4	relate (1)
120:3;135:25;140:12;		64:14	refill (1)	80:22
160:6;161:14;170:24	15:13;116:16,19	received (3)	167:3	related (10)
raised (1)	ready (6)	112:2;113:17;130:15	refineries (6)	11:13;54:15;77:23;
138:6	23:2;30:7,8;39:4;	recent (5)	95:9;132:18,24;	78:1;103:24;145:15;
raising (7)	85:7;116:9	9:6;36:4;114:5;139:5;	133:4,5,7	147:21;149:4;185:2;
24:6;31:6;33:1,7;	Reagan (1)	142:20	refinery (1)	191:6
119:3;136:14;162:1	113:14	recently (10)	132:20	relations (1)
rally (1)	real (14)	73:8;75:8;101:21;	reflect (1)	188:12
167:16	48:3;49:1;53:25;75:2;	114:12;124:2;130:24;	50:25	relationship (1)
Ralph (1)	79:22;85:2;90:1;98:4;	132:24;148:1;166:14;	Reflecting (1)	155:14
64:20	114:7,10;142:5;171:15;	170:18	130:22	relationships (1)
ramifications (1)	173:12;187:24	Recess (1)	reflects (1)	188:24
129:22	reality (4)	150:10	25:5	relative (1)
ran (6)	85:22;112:12;171:14;	recognize (3)	reform (1)	123:24
80:10;84:11;95:17;	177:23	82:19;101:5;187:10	* *	relatively (1)
131:12;157:11;178:16	realize (2)	recommend (2)	refreshing (1)	179:7
RAND (1)	100:8;180:24	141:10;158:25	84:25	relatives (1)
18:4	realized (2)	record (4)	refuse (1)	65:8
randomly (1)	55:3;171:13	52:6,22;89:24;97:7	155:23	relaxing (1)
42:11	really (38)	records (2)	regaled (1)	143:1
			143:20	
rare (1) 89:4	29:6,23;43:12;48:4;	28:24;54:4		released (3)
	53:17;60:9;61:11,19;	recovering (1) 48:16	regard (3)	10:3;31:13;92:18
Rarely (1)	62:16,18;64:25;65:23;		45:3;92:23;158:15	reliance (4)
122:16	66:5;68:2;69:11;72:12;	recurrence (1)	regimes (1)	142:14,14,16;191:10
rate (8)	84:8,25;85:4;91:23;	42:22	188:15	reliant (1)
10:4;13:13;16:10;	99:21;102:5;106:6;	recycle (1)	region (6)	132:16
42:11;105:9;160:7;	109:1;122:4,19;136:1;	146:21	15:25;19:24;112:7;	relieve (1)
165:8,12	149:2;150:1;162:4;	reduce (36)	120:17;188:13,21	44:5
rates (1)	167:2;168:4;169:9;	9:4;10:18,25;11:2,11;	regional (2)	religious (1)
157:22	170:22;173:6;174:4;	15:20;19:3;26:2;28:8,8;	9:7;134:4	40:20
rather (5)	181:12;182:3	48:13;68:22;70:7;	regular (3)	rely (1)
69:4;118:24;129:9;	reap (1)	71:10;96:25;97:13;	54:11;58:8,21	72:25
188:16;190:22	166:17	101:20;115:12;117:18;	regularly (1)	relying (1)
rating (1)	rearview (1)	122:14,16,17,21,22;	27:16	129:22
10:1	73:11	124:22;129:12;132:1,4;	regulate (1)	remain (2)
rational (4)	reason (6)	134:25;135:1;170:20;	128:13	19:13;20:21
74:25;190:18,24;	61:12;95:20;127:14;	171:4,5;176:10;181:16;	regulating (1)	remained (2)
191:8	176:12;178:17,25	191:10	127:15	12:23;91:2
rationing (2)	reasonable (4)	reduced (3)	regulation (23)	remaining (2)
146:7,10	56:11;144:2;152:11,	13:15;55:3;148:19	42:1;48:8,14,17,19,	133:7;167:5
raved (1)	12	reduces (3)	20,23;49:11,15;73:14,	remains (2)
137:3	reasonably (1)	138:16,18,21	17,22;74:12;97:1;	11:19;93:2
reach (1)	166:7	reducing (13)	114:18;121:11;133:20;	remarkable (1)
61:10	reasoning (1)	13:24;14:1;19:18;	154:25;172:7;179:19,	91:12
reached (2)	186:24	25:20;26:6;60:24;61:1;	24;183:11,19	remarks (3)
69:4;94:6	reasons (9)	71:2;96:19;117:15;	regulations (21)	116:23;137:24;183:7
reaching (1)	41:24;66:25;100:2;	142:14;155:19;191:5	15:1;24:6;44:14;48:5,	remediation (2)
130:3	127:1;145:5;147:19;	reduction (6)	10,11,12;58:13;72:7;	127:9,9
		` '		

remember (10)	represents (3)	resonate (1)	104:1;120:25	13:18;16:6;26:4;
45:7;56:14;64:11;	34:23;102:5;181:4	149:8	Reverend (5)	107:6;113:3,22;119:8;
65:18;70:24;71:1;91:3;	reproducible (1)	resonates (1)	39:9,15;116:20,21,24	160:4;169:10
145:18;146:7;158:21	140:22	148:24	review (2)	roads (2)
remind (4)	Republic (1)	resource (3)	19:8,11	115:14;120:3
44:23;53:23;84:16;	140:7	72:17;87:18;140:20	rhythm (1)	roadways (1)
93:25	Republican (1)	resources (5)	42:12	11:2
reminded (1)	178:16	71:11;81:5;87:7;	rich (3)	ROBERT (2)
176:8	Republicans (3)	118:3;167:19	65:5;184:12,15	39:11,15
removal (1)	160:10,12;178:12	respect (3)	rid (2)	Roberta (1)
128:5	request (1)	90:22;154:6,11	136:6;165:2	15:15
removed (1)	52:2	respiratory (3)	ride (2)	rock (1)
23:3	require (4)	10:25;149:1;174:3	23:16;77:10	181:3
removing (1)	17:7;68:22;115:21;	respond (3)	ridiculous (1)	rogue (1)
13:17	121:11	147:17;151:18;	44:14	167:8
Rendell (1)	required (1)	169:18	right (36)	role (4)
134:15	9:3	responsibility (4)	15:23;20:23;22:10;	50:6;101:17;126:23;
render (1)	requirement (2)	100:14;137:14;	32:10;39:17;41:10;	183:20
40:7	117:14;161:15	191:16,19	44:5;46:5;64:1;65:3;	
renovations (1)	requirements (6)	responsible (9)	66:15;72:24;75:3,6;	128:12
28:6	19:4;31:7;117:14;	10:22;34:7;47:9;	85:4;97:6;104:9;107:7;	Rome (5)
rent (1)	119:19;140:13;152:14	60:25;73:2;92:15;	108:15,17;109:8;	86:20;87:1,5,15;
165:4	requires (1)	97:11;129:15;189:23	113:12;115:22;124:21;	159:13
renting (1)	124:1	responsibly (1)	128:15;129:14;131:12;	Romney (1)
165:6	requiring (2)	146:13	141:16;149:13,20;	179:9
repairs (1)	32:3;118:22	rest (3)	152:21;158:1;160:16,	RON (1)
104:11	rescued (1)	42:15;112:13;186:2	18;163:6;185:5	2:20
repeated (1)	68:11	result (10)	rights (1)	roof (2)
140:7	research (12)	40:12;74:11;86:25;	188:16	76:20;170:20
repetitive (1)	17:18;18:15,18;	94:8;119:22;120:13;	rigorous (1)	room (5)
137:18	30:22;31:10;47:21;	131:1;133:8;155:15;	130:20	28:19,25;29:23;
replace (1)	67:19;75:8;93:9;	183:19	ripped (1)	144:19;179:8
95:24	110:14;122:18;154:24	resulted (2)	113:15	rooms (2)
replenished (1)	researcher (1)	60:6;81:4	rise (4)	28:20;36:25
86:25	109:25	resulting (2)	16:15;122:8;180:3;	Roosevelt (1)
report (3)	reserves (4)	91:14;130:18	185:12	63:20
37:14;139:5;185:15	119:21;167:6,23;	results (2)	risen (1)	roots (1)
reported (2)	168:7	14:25;92:16	91:13	57:6
2:8;185:9	reset (1)	Resumed (1)	rising (6)	Rosa (2)
Reporter (2)	76:11	150:11	31:11;32:17;75:4;	62:25;63:2
2:9,10	reside (1)	<b>Retired (4)</b>	91:18;120:20;128:9	
reporters (1)	141:25	123:13;158:12;	risk (10)	165:20,22;166:3;
150:7	residence (1)	180:19;183:6	10:6,6,18;11:6;36:18;	181:10
	130:24	T		
represent (7)		retrofitted (1) 130:24	38:2,12;43:6;142:16; 167:7	rot (1) 166:25
30:19,22;53:21;	resident (9)			
56:21;147:12;159:6; 190:17	24:22;41:22;77:9;	return (2) 127:11;178:24	risks (1) 42:18	rotated (1) 86:24
	110:2;121:20;123:12;	· · · · · · · · · · · · · · · · · · ·		
representative (1)	164:17;166:4;170:8	returned (1)	RITA (2)	roughly (4)
17:3	residential (1)	22:20	150:14,18	45:20;103:15;148:11;
representatives (3)	66:19	returns (1)	Rittenhouse (3)	156:11 Ponto (1)
34:20;56:18;167:11	residents (1)	44:4 DEW (2)	21:22;22:3;23:5	Route (1)
representative's (1)	27:22	REV (3)	river (3)	63:19
44:9	resistance (2)	39:11,14;116:16	142:5;144:15;176:16	routes (1)
representing (4)	61:21;167:13	revealed (1)	RMR (1)	18:3
53:22;154:21;158:12;	resolve (1)	64:16	2:11	routines (1)
175:8	167:17	revenue (2)	road (9)	22:8

<b>RPR</b> (2)				
` ,	80:22;83:21;89:3;	saving (9)	52:15,20;53:2,5,7,8,9;	18:2;19:23;34:11;
2:9,11	110:15;113:1;114:13;	35:5;45:18;71:11;	56:23	51:16;54:25;72:9,10,10,
ruin (2)	134:3,13,15;140:19;	74:2,13,14;109:7;	science (6)	11;73:13,16;74:20;
55:14,17	143:13;154:14;177:9;	115:16;120:8	75:1;80:19;83:8;86:1;	77:23;78:6;163:20;
rule (21)	181:21;185:22;186:16,	savings (10)	100:24;114:13	167:7;182:1;185:24;
8:15;10:18;11:1,15,	18;187:18	14:14,17,18;70:9;	sciences (1)	188:20
18;13:1;17:5,11;18:8;	sail (1)	73:24;97:19;130:19;	70:19	sedan (1)
50:16,22;51:18;56:7;	58:4	179:11,13,17	scientific (6)	109:6
76:3;95:21;117:18,20;	sailor (1)	saw (4)	30:21;40:11;53:24;	sedans (1)
121:22;148:6;161:25,25	57:17	22:7;55:5,18;186:14	126:8,17;154:24	159:18
rule-making (2)	sake (1)	say (39)	scientifically (1)	seed (3)
24:25;25:8	134:1	33:12;44:8;63:22;	98:21	157:8,9,12
rules (7)	salamanders (1)		scientist (2)	seeing (2)
	59:21	70:8,14;73:9;74:1;76:8;		
9:16;32:10;107:19;		82:21;83:2,22,22;85:1;	70:20;170:11	149:22;161:5
108:9;169:11;185:15,21	salary (1)	87:8;90:15;94:19;95:6;	Scientists (12)	seek (1)
ruling (1)	104:23	104:8,21;110:23;	53:21;56:13;58:22;	18:10
123:1	sales (2)	111:21;113:19;125:5;	70:22;71:4,10,15;	seeks (1)
run (9)	29:13;46:1	129:11;137:4,13;	101:12;114:10,15;	151:3
30:18;87:20;136:19;	salesmen (1)	149:11;155:22;161:14,	117:9;137:6	seem (3)
142:12;144:19;157:10;	114:16	15;162:13;173:20,23;	scorching (1)	47:18;114:3;142:23
182:2,2;183:24	same (23)	174:9,18;179:11;183:9,	54:7	seems (7)
running (5)	44:13;60:13;77:22;	19;184:4	screened (1)	26:7;77:16;79:3;
23:7;140:21;160:12;	78:9;84:14,16;94:9;	saying (8)	47:5	159:3;172:7;187:16;
181:11,11	112:8;122:25;131:7;	25:19;55:14;134:14;	sculptures (1)	190:21
runs (2)	141:2;143:25;144:16;	149:3;160:5;164:1;	24:2	seen (13)
63:19;116:5	152:1,3,7;153:3,4;	175:11;177:11	sea (2)	21:23;43:16;47:15;
rural (2)	164:25;179:7,11;182:4;	says (5)	128:9;180:2	48:14;88:5;129:17,24;
16:9;101:1	188:18	43:18;68:13;88:6;	Sean (1)	130:5;145:2;159:23;
rushing (1)	San (1)	173:21,22	2:10	175:23;177:2,6
129:20	149:15	scale (2)	seasons (2)	self-employed (1)
RVCC (1)	sands (1)	130:11;131:6	107:12;134:22	30:19
80:20	108:3	Scandinavian (1)	seat (3)	self-imposed (1)
	Santorini (6)	129:6		103:23
S	Santorini (6) 116:12:147:3,5,8,10,	129:6	55:13;70:24;178:16	103:23
S	Santorini (6) 116:12;147:3,5,8,10, 11		55:13;70:24;178:16 second (5)	
	116:12;147:3,5,8,10, 11	129:6 scares (1) 60:2	55:13;70:24;178:16 <b>second (5)</b> 14:3,12;87:15;88:20;	103:23 self-interests (1) 96:17
sacrifice (1)	116:12;147:3,5,8,10, 11 Sarfaty (4)	129:6 scares (1) 60:2 scary (1)	55:13;70:24;178:16 <b>second (5)</b> 14:3,12;87:15;88:20; 148:19	103:23 self-interests (1) 96:17 self-sufficient (1)
sacrifice (1) 154:11	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25	129:6 scares (1) 60:2 scary (1) 72:18	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1)	103:23 <b>self-interests (1)</b> 96:17 <b>self-sufficient (1)</b> 26:11
sacrifice (1) 154:11 sad (2)	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5)	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6)	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1)
sacrifice (1) 154:11 sad (2) 119:6;162:9	116:12;147:3,5,8,10, 11 <b>Sarfaty (4)</b> 35:19,21,24,25 <b>Saudi (5)</b> 54:24;98:12;148:11;	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1)	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1)	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1)	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3)
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1)	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2)	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1)	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1) 181:21	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1)	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1)
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1) 93:18	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1) 181:21 Saunders (4)	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1) 95:11	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12 secret (1)	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1) 130:3
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1) 93:18 safe (5)	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1) 181:21 Saunders (4) 116:12;121:16,19,20	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1) 95:11 scholar (2)	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12 secret (1) 131:19	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1) 130:3 Senate (3)
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1) 93:18 safe (5) 20:21;45:1;82:21;	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1) 181:21 Saunders (4) 116:12;121:16,19,20 save (23)	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1) 95:11 scholar (2) 47:1;139:17	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12 secret (1) 131:19 Secretaries (1)	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1) 130:3 Senate (3) 178:13,15,16
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1) 93:18 safe (5) 20:21;45:1;82:21; 133:24;174:10	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1) 181:21 Saunders (4) 116:12;121:16,19,20 save (23) 14:4,11,19;17:14;	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1) 95:11 scholar (2) 47:1;139:17 scholars (1)	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12 secret (1) 131:19 Secretaries (1) 50:14	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1) 130:3 Senate (3) 178:13,15,16 sending (4)
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1) 93:18 safe (5) 20:21;45:1;82:21; 133:24;174:10 safeguard (2)	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1) 181:21 Saunders (4) 116:12;121:16,19,20 save (23) 14:4,11,19;17:14; 27:25;28:3;31:8;32:14;	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1) 95:11 scholar (2) 47:1;139:17 scholars (1) 47:6	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12 secret (1) 131:19 Secretaries (1) 50:14 Section (1)	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1) 130:3 Senate (3) 178:13,15,16 sending (4) 34:20;60:6;74:16;
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1) 93:18 safe (5) 20:21;45:1;82:21; 133:24;174:10 safeguard (2) 16:14;189:24	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1) 181:21 Saunders (4) 116:12;121:16,19,20 save (23) 14:4,11,19;17:14; 27:25;28:3;31:8;32:14; 33:4;35:11;61:2,3;	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1) 95:11 scholar (2) 47:1;139:17 scholars (1) 47:6 School (9)	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12 secret (1) 131:19 Secretaries (1) 50:14 Section (1) 36:5	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1) 130:3 Senate (3) 178:13,15,16 sending (4) 34:20;60:6;74:16; 188:20
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1) 93:18 safe (5) 20:21;45:1;82:21; 133:24;174:10 safeguard (2) 16:14;189:24 Safety (8)	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1) 181:21 Saunders (4) 116:12;121:16,19,20 save (23) 14:4,11,19;17:14; 27:25;28:3;31:8;32:14; 33:4;35:11;61:2,3; 73:19,22;112:9;119:19,	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1) 95:11 scholar (2) 47:1;139:17 scholars (1) 47:6 School (9) 36:1,24;37:4;42:5;	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12 secret (1) 131:19 Secretaries (1) 50:14 Section (1) 36:5 sector (3)	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1) 130:3 Senate (3) 178:13,15,16 sending (4) 34:20;60:6;74:16; 188:20 sends (1)
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1) 93:18 safe (5) 20:21;45:1;82:21; 133:24;174:10 safeguard (2) 16:14;189:24 Safety (8) 8:13;9:16;24:23;	116:12;147:3,5,8,10, 11  Sarfaty (4) 35:19,21,24,25  Saudi (5) 54:24;98:12;148:11; 156:12;189:2  Saudis (1) 181:21  Saunders (4) 116:12;121:16,19,20 save (23) 14:4,11,19;17:14; 27:25;28:3;31:8;32:14; 33:4;35:11;61:2,3; 73:19,22;112:9;119:19, 21;163:22;164:19;	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1) 95:11 scholar (2) 47:1;139:17 scholars (1) 47:6 School (9) 36:1,24;37:4;42:5; 43:21;68:15;113:17;	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12 secret (1) 131:19 Secretaries (1) 50:14 Section (1) 36:5 sector (3) 13:4;74:4,18	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1) 130:3 Senate (3) 178:13,15,16 sending (4) 34:20;60:6;74:16; 188:20 sends (1) 188:17
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1) 93:18 safe (5) 20:21;45:1;82:21; 133:24;174:10 safeguard (2) 16:14;189:24 Safety (8) 8:13;9:16;24:23; 38:22;78:19;124:17;	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1) 181:21 Saunders (4) 116:12;121:16,19,20 save (23) 14:4,11,19;17:14; 27:25;28:3;31:8;32:14; 33:4;35:11;61:2,3; 73:19,22;112:9;119:19, 21;163:22;164:19; 165:3;179:3;185:14;	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1) 95:11 scholar (2) 47:1;139:17 scholars (1) 47:6 School (9) 36:1,24;37:4;42:5; 43:21;68:15;113:17; 135:20;189:17	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12 secret (1) 131:19 Secretaries (1) 50:14 Section (1) 36:5 sector (3) 13:4;74:4,18 sectors (1)	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1) 130:3 Senate (3) 178:13,15,16 sending (4) 34:20;60:6;74:16; 188:20 sends (1) 188:17 senior (1)
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1) 93:18 safe (5) 20:21;45:1;82:21; 133:24;174:10 safeguard (2) 16:14;189:24 Safety (8) 8:13;9:16;24:23; 38:22;78:19;124:17; 134:1;185:10	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1) 181:21 Saunders (4) 116:12;121:16,19,20 save (23) 14:4,11,19;17:14; 27:25;28:3;31:8;32:14; 33:4;35:11;61:2,3; 73:19,22;112:9;119:19, 21;163:22;164:19; 165:3;179:3;185:14; 187:18	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1) 95:11 scholar (2) 47:1;139:17 scholars (1) 47:6 School (9) 36:1,24;37:4;42:5; 43:21;68:15;113:17; 135:20;189:17 schoolboy (1)	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12 secret (1) 131:19 Secretaries (1) 50:14 Section (1) 36:5 sector (3) 13:4;74:4,18 sectors (1) 13:10	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1) 130:3 Senate (3) 178:13,15,16 sending (4) 34:20;60:6;74:16; 188:20 sends (1) 188:17 senior (1) 168:16
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1) 93:18 safe (5) 20:21;45:1;82:21; 133:24;174:10 safeguard (2) 16:14;189:24 Safety (8) 8:13;9:16;24:23; 38:22;78:19;124:17; 134:1;185:10 sagging (1)	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1) 181:21 Saunders (4) 116:12;121:16,19,20 save (23) 14:4,11,19;17:14; 27:25;28:3;31:8;32:14; 33:4;35:11;61:2,3; 73:19,22;112:9;119:19, 21;163:22;164:19; 165:3;179:3;185:14; 187:18 saved (2)	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1) 95:11 scholar (2) 47:1;139:17 scholars (1) 47:6 School (9) 36:1,24;37:4;42:5; 43:21;68:15;113:17; 135:20;189:17 schoolboy (1) 41:6	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12 secret (1) 131:19 Secretaries (1) 50:14 Section (1) 36:5 sector (3) 13:4;74:4,18 sectors (1) 13:10 secure (2)	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1) 130:3 Senate (3) 178:13,15,16 sending (4) 34:20;60:6;74:16; 188:20 sends (1) 188:17 senior (1) 168:16 sense (10)
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1) 93:18 safe (5) 20:21;45:1;82:21; 133:24;174:10 safeguard (2) 16:14;189:24 Safety (8) 8:13;9:16;24:23; 38:22;78:19;124:17; 134:1;185:10 sagging (1) 187:8	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1) 181:21 Saunders (4) 116:12;121:16,19,20 save (23) 14:4,11,19;17:14; 27:25;28:3;31:8;32:14; 33:4;35:11;61:2,3; 73:19,22;112:9;119:19, 21;163:22;164:19; 165:3;179:3;185:14; 187:18 saved (2) 56:4;167:1	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1) 95:11 scholar (2) 47:1;139:17 scholars (1) 47:6 School (9) 36:1,24;37:4;42:5; 43:21;68:15;113:17; 135:20;189:17 schoolboy (1) 41:6 schools (2)	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12 secret (1) 131:19 Secretaries (1) 50:14 Section (1) 36:5 sector (3) 13:4;74:4,18 sectors (1) 13:10 secure (2) 60:15;184:22	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1) 130:3 Senate (3) 178:13,15,16 sending (4) 34:20;60:6;74:16; 188:20 sends (1) 188:17 senior (1) 168:16
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1) 93:18 safe (5) 20:21;45:1;82:21; 133:24;174:10 safeguard (2) 16:14;189:24 Safety (8) 8:13;9:16;24:23; 38:22;78:19;124:17; 134:1;185:10 sagging (1) 187:8 said (22)	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1) 181:21 Saunders (4) 116:12;121:16,19,20 save (23) 14:4,11,19;17:14; 27:25;28:3;31:8;32:14; 33:4;35:11;61:2,3; 73:19,22;112:9;119:19, 21;163:22;164:19; 165:3;179:3;185:14; 187:18 saved (2) 56:4;167:1 saves (1)	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1) 95:11 scholar (2) 47:1;139:17 scholars (1) 47:6 School (9) 36:1,24;37:4;42:5; 43:21;68:15;113:17; 135:20;189:17 schoolboy (1) 41:6 schools (2) 36:23;37:4	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12 secret (1) 131:19 Secretaries (1) 50:14 Section (1) 36:5 sector (3) 13:4;74:4,18 sectors (1) 13:10 secure (2) 60:15;184:22 security (22)	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1) 130:3 Senate (3) 178:13,15,16 sending (4) 34:20;60:6;74:16; 188:20 sends (1) 188:17 senior (1) 168:16 sense (10) 88:3;89:9;163:18; 172:8;190:24,25;191:1,
sacrifice (1) 154:11 sad (2) 119:6;162:9 saddling (1) 60:10 sadly (1) 93:18 safe (5) 20:21;45:1;82:21; 133:24;174:10 safeguard (2) 16:14;189:24 Safety (8) 8:13;9:16;24:23; 38:22;78:19;124:17; 134:1;185:10 sagging (1) 187:8	116:12;147:3,5,8,10, 11 Sarfaty (4) 35:19,21,24,25 Saudi (5) 54:24;98:12;148:11; 156:12;189:2 Saudis (1) 181:21 Saunders (4) 116:12;121:16,19,20 save (23) 14:4,11,19;17:14; 27:25;28:3;31:8;32:14; 33:4;35:11;61:2,3; 73:19,22;112:9;119:19, 21;163:22;164:19; 165:3;179:3;185:14; 187:18 saved (2) 56:4;167:1	129:6 scares (1) 60:2 scary (1) 72:18 Schaefer (6) 69:13,14,16,21,24,25 schedule (1) 111:17 scheduled (1) 95:11 scholar (2) 47:1;139:17 scholars (1) 47:6 School (9) 36:1,24;37:4;42:5; 43:21;68:15;113:17; 135:20;189:17 schoolboy (1) 41:6 schools (2)	55:13;70:24;178:16 second (5) 14:3,12;87:15;88:20; 148:19 second-highest (1) 28:7 second-most (1) 131:17 second-worst (2) 149:10,12 secret (1) 131:19 Secretaries (1) 50:14 Section (1) 36:5 sector (3) 13:4;74:4,18 sectors (1) 13:10 secure (2) 60:15;184:22	103:23 self-interests (1) 96:17 self-sufficient (1) 26:11 sell (1) 113:24 selling (3) 56:1;114:18;152:1 semi-far (1) 130:3 Senate (3) 178:13,15,16 sending (4) 34:20;60:6;74:16; 188:20 sends (1) 188:17 senior (1) 168:16 sense (10) 88:3;89:9;163:18;

-	•			· /
sensible (3)	severe (1)	97:21,23;166:13,19;	128:6;130:22;155:14	15;160:3;166:4;171:25;
25:4;44:19;124:13	28:18	167:4;168:4;172:2,8	similarly (1)	172:4;181:3;184:16
sent (2)	severity (1)	show (6)	79:15	smaller (7)
139:15,20	173:8	10:3;34:25;37:8;56:9;	simple (1)	108:25;130:11;131:6;
sentence (1)	Shale (2)	57:14;93:14	159:4	142:12;159:7,19;160:21
173:16	63:16,17	showed (1)	simply (5)	smallest (1)
separate (2)	shame (1)	183:16	63:22;92:14;115:10;	68:9
144:6,6	44:16	shown (2)	163:12;183:14	smart (1)
SEPTA (1)	share (8)	71:16;185:4	since (14)	31:4
120:20	24:5;30:4;88:16;	shows (3)	13:14,25;21:25;41:8;	Smith (5)
September (1)	99:19;123:25;125:8;	37:14;83:9;113:25	93:11;114:3,23;119:20;	24:15,17,20,21;
31:13	142:18;145:16	shrift (1)	121:11;122:8;154:21;	168:24
sequence (2)	shares (1)	53:16	161:21;164:17;175:13	smog (3)
110:10,19	138:10	shut (1)	sincerely (1)	124:4;190:10,16
serious (9)	she (3)	132:24	79:11	smog-forming (1)
65:20;74:22;75:3;	66:4;79:4;182:6	shutdown (1)	single (8)	16:4
77:21,22;78:1;81:4;	Shenandoah (1)	132:19	35:9;40:7;41:8;42:6;	smoggiest (1)
87:9;148:20	190:6	shutdowns (1)	45:16;94:2,4;154:25	16:1
seriously (6)	shift (1)	133:1	single-lane (1)	sneakers (1)
74:24;75:20;117:24;	105:20	shuttering (1)	64:6	181:13
137:21;149:2,3	shifting (1)	55:2	sister (5)	snow (1)
serve (1)	171:9	shutting (3)	92:3;153:9,12,19,20	64:7
168:2	shine (1)	45:21;179:19;188:3	sisters (3)	snowstorm (1)
served (1)	107:22	, ,	40:11;90:19;155:20	64:6
156:22	ship (1)	sic (2) 85:10,11	sit (2)	social (12)
	75:16	15		` '
serves (1)		sick (2)	52:18;84:9	13:21;48:21;82:7,9;
131:4	shipping (1)	50:19;66:2	site (1)	102:19;105:25;106:6;
service (2)	151:9	side (7)	56:13	107:4,13;135:20;
156:23,23	shock (1)	63:18,23,24;69:1;	sitting (3)	158:13;168:20
servicemen (1)	186:25	106:5;131:10;133:23	23:15;44:4;50:10	socially (1)
18:3	shopping (1)	sides (2)	situation (3)	142:8
Services (2)	38:22	47:6;178:12	29:5;106:24;132:23	Society (11)
8:11,18	shore (4)	Sierra (13)	situations (2)	57:12;60:3;78:14;
serving (1)	58:4;180:1,2;190:9	20:17;33:15,23,24;		82:17;89:25;126:13,19;
39:21	short (10)	35:14;96:15;99:12,16;		152:17,18;157:6;169:14
session (1)	53:16;77:25;92:6;	100:17;123:13;124:25;	27:15;105:2;110:3;	
81:22	101:8;150:20;168:23;	150:23;154:23	111:25	28:2
set (7)	169:2,20;171:15;183:9	sights (1)	size (1)	solar (15)
19:4;124:13;161:23;	shortened (3)	190:10	89:9	76:20;112:22;113:2,
169:1,10,10;186:1	16:17;127:24;166:16	sign (2)	sizes (1)	15,18,20;114:1,20;
sets (1)	shortens (1)	107:25,25	23:13	130:25;136:7;155:8;
162:6	51:9	signed (2)	skepticism (1)	170:19;180:25;181:2,3
setting (3)	shorter (1)	20:3;134:16	92:7	sold (4)
93:9;132:15;166:7	87:5	significant (12)	sleep (1)	72:4;124:12,19;
settings (1)	short-term (2)	9:17;11:5;13:22,24;	174:5	164:18
174:2	129:20;190:19	15:23;17:13;19:23;	slightly (2)	solution (2)
settle (2)	should (27)	37:9;40:25;83:11;	169:2,20	115:12;142:23
54:21;108:18	27:20;32:1;62:19;	127:3;156:2	slow (1)	Solutions (2)
seven (3)	68:6;81:16,17;83:1;	significantly (7)	118:6	30:24;129:20
22:17;68:11;77:13	91:20,23;110:5;114:25;	13:19;19:2;26:10,17;	slump (1)	solve (5)
seventh (3)	117:18;118:24;120:8;	98:3;124:23;160:6	187:20	48:22;49:5,7;187:9,
86:4;137:16,21	132:7,8,10;140:22;	signing (1)	small (30)	12
several (9)	141:1;149:8;159:6;	29:11	23:18;30:12,16,16,17,	some (36)
22:15;36:23;55:19;	165:12;168:1;172:3;	SILVERMAN (1)	18,23,25;31:2,12,14,19,	23:16;42:18;43:13;
89:20;91:9;120:9;	175:11;176:11;189:8	2:17	24;32:8,14,19,22,24;	51:13;58:18;64:4;
131:24;139:3;152:8	Shouldn't (8)	similar (3)	33:3,8;113:4;159:12,13,	79:15;80:16;84:23;
			1	1

0	( <b>=</b> )	11 (4)	4 00 (4)	
85:3,24;86:1,1;87:18;	source (5)	spending (4)	staff (1)	150:21;175:10;179:1
98:15;100:22;101:2;	10:9,12,17;12:17;	74:6;109:11;141:4;	50:4	started (6)
104:8;105:24;113:17;	94:5	187:15	stagnant (1)	83:19;89:1;112:5;
121:10;122:1;124:21;	sources (8)	spends (1)	12:23	114:20;175:14,16
126:22;133:13;138:24;	13:11;15:20;26:12;	18:5	stake (1)	starting (2)
140:6;143:10;144:3;	98:12;149:11;151:10;	spent (8)	168:8	54:23;66:21
152:3,5;155:21;170:7;	155:10;165:11	37:10;40:25;51:10;	stakeholders (2)	startling (1)
177:20;183:7;186:16	South (2)	88:1;97:17;107:10;	11:10;14:23	75:7
somebody (4)	108:7;137:9	183:9;184:17	stand (7)	starving (1)
180:20,20,21;182:9	Southampton (1)	spewing (1)	41:23;79:24;135:25;	113:9
somehow (2)	135:23	44:13	163:5;167:12,16;168:9	State (26)
40:17;172:7	spaces (1)	spices (1)	standard (15)	15:15;16:6;45:1;
someone (5)	21:20	87:3	17:10;32:5,6;34:16;	46:20;53:17;63:12;
44:3;87:20;88:8;	speak (24)	spill (1)	35:3;49:15;54:18;	66:9;72:5;89:23;
96:14;106:25	20:18;24:25;26:22;	127:10	82:24;93:9;102:4;	102:18;112:1;117:17;
something (33)	36:7;39:22;47:6;50:6;	spills (1)	104:22;126:1;146:24;	118:15;127:12;132:9;
43:2,9;48:24;61:25;	53:6;72:1,8;84:20;	55:4	171:1;179:23	134:7;149:12;175:9;
62:18;79:8;81:17;	100:3,12;109:24;119:2;	spirit (1)	STANDARDS (137)	176:2,4,22,23;177:11;
82:24;84:3;110:5,5;	123:23;125:25;135:19;	129:7 <b>spite (3)</b>	2:3,3;8:17;9:4;12:13,	178:15;179:23;180:4 <b>stated (3)</b>
122:20;140:8;145:2;	164:14;173:2,24;174:7,		22;13:9,18,23;14:7,15;	` /
155:24;157:6,7,20;	7;184:8	90:13;92:7;188:25	15:3,22;16:10,18;17:21;	132:14;134:6;139:5
169:3,3,4,5,21;171:17;	speaker (3)	<b>split (1)</b> 104:21	18:21;19:7,9,12,13,25;	statement (3)
172:3,3;174:21;178:3;	121:14;166:20;		25:11;27:17;29:21;	15:14;86:18;129:7
179:16;181:13;184:1,5;	182:25	spoke (3)	31:5,22;32:9,12,13,20;	statements (1)
190:19	speakers (1) 25:13	65:21;67:6;120:9	33:1,2,8;34:2,14,19,25;	86:18
sometimes (1) 183:20		spoken (2)	35:9,11,15,16;39:25;	states (38)
	speaking (11)	78:23;79:1	40:17;45:15,19,25;49:9;	27:12;29:19;31:16,
somewhere (1) 29:1	23:11;47:1;67:8;80:9;	spokespersons (1) 79:23	55:16,20;59:11;60:23;	20;39:21;47:23;72:15,
son (6)	83:19;96:9,13;121:25; 127:10;173:7,10	spot (2)	61:17;62:3,8;70:7;71:5,	25;74:16;75:8;77:18;
88:8;99:20;100:9;	special (6)	66:24;179:9	8,14;78:21,24;99:25; 106:23;107:19;108:24;	86:21;88:5,7;101:8,16; 102:2;111:24;128:25;
184:19,24;189:20	38:2;49:13;56:16;	spread (1)		129:1,5;131:16,23;
song (1)	68:11;135:22;171:17	59:22	110:4,25;119:3,6;120:3, 11,23;122:5;123:3;	133:12,20,22;135:3;
21:1	specialize (1)	spring (2)	124:12,18,20;125:11,	133.12,20,22,133.3,
sons (1)	142:3	22:21;188:10	13;126:2;128:15;	154:13;159:16;166:5;
184:3	species (4)	spur (2)	130:10;135:25;142:10;	180:4,21;181:17,24;
soon (10)	59:17,18,18;88:25	17:17;18:12	143:8;145:6;147:18,20;	186:1
16:11;51:3;76:2;	specific (2)	Square (7)	148:8,14,17,19;149:21,	statewide (1)
110:3;143:12,13,21,21;	144:11;158:17	21:21,22;22:3,4,25;	24;156:10;159:5;	12:6
164:18;177:25	specifically (4)	23:4,10	161:24;162:1,2,4,6;	stating (1)
sooner (4)	13:8;127:6;147:25;	squares (1)	163:4,14,17,21;164:5,	129:9
117:20;118:24;	149:19	21:17	15;165:15;166:8,18;	station (1)
152:22;161:16	specifics (1)	squeeze (2)	167:2;169:1,19;170:25;	90:24
Sorry (2)	68:3	104:10;140:14	177:4,12,17;178:10,14,	stationary (1)
43:6;157:25	speech (3)	squirrels (1)	20,25;179:3,5;182:22,	15:20
sort (3)	44:14;64:20,25	23:8	22;183:13;184:2,20;	statistic (2)
49:4;83:3;85:3	speed (1)	SR (1)	185:12;186:21;187:25;	72:12;75:7
sought (1)	42:11	153:16	188:7,23;189:5;190:17,	statistical (1)
17:24	speeding (1)	St (2)	25;191:8	90:2
sound (6)	82:18	132:20;153:20	standing (1)	statistics (2)
40:21,22;51:17;90:5,	spelling (1)	stabilize (1)	22:15	65:19;102:21
5;146:16	111:7	115:1	stands (1)	status (3)
sounder (1)	spend (9)	stable (1)	25:25	37:20;126:15;169:12
39:6	34:9;86:5;88:20;	134:20	start (12)	statute (1)
sounds (2)	96:22;103:18;105:10;	stable-enough (1)	8:1;30:25;33:2;52:20;	19:9
48:25;87:8	160:4;165:7;191:2	83:15	67:8,9,22;83:1;110:21;	stave (1)

101:18	storm (1)	18:25;19:13;25:12;	121:3	21:1
stay (7)	39:4	31:21;35:3;36:10;	subsidizes (1)	sunlight (1)
43:20;68:23;69:10;	story (3)	50:15;56:5;58:13,25;	119:25	76:21
74:16;77:12;95:11;	99:17;137:4;171:15	62:22;118:4,9;133:19;	substance (1)	sunny (1)
179:11	straight (1)	138:9;151:15;152:19	155:15	158:23
stayed (1)	179:12	stronger (10)	substantial (1)	superstitious (1)
168:22	straightforward (1)	16:10;19:25;31:5;	36:20	64:4
staying (3)	187:17	32:13,19;41:2;62:11;	substantially (1)	supplies (2)
44:1;150:5;191:22	strange (1)	94:15;178:14,20	13:14	144:21;171:6
steady (1)	107:2	strongest (2)	subtracting (1)	supply (7)
88:13	strangers (1)	29:20;152:23	105:22	20:5;72:22,22;73:1,4;
step (21)	22:6	strongly (10)	suburban (1)	87:5;133:24
15:23;22:25;35:9;	strategic (1)	14:25;19:6,18;	119:15	support (42)
45:16;59:14;60:23;	26:6	126:25;138:13;139:2;	suburbs (2)	11:18;17:22;20:19;
62:7;76:3,15;79:12,15;	strategy (1)	142:9;148:3,25;149:8	57:21;132:6	21:8;24:3,25;31:1,21;
118:10;128:15;149:20;	38:1	structures (1)	subway (1)	32:3;33:7;34:16,18,24;
154:25;163:15;170:19;	Street (4)	23:13	119:15	35:2;59:10;62:6;72:6;
172:11;176:10,15,16	2:6;22:7;64:6;66:16	struggle (1) 81:11	success (2)	82:23;84:1;94:12;
<b>steps (9)</b> 26:2;60:25;79:16;	streetlight (1) 27:24		26:17;110:13 succumb (1)	96:16;98:16;101:4;
81:25;124:21,22;	streetscape (1)	struggles (3) 42:14;44:10;101:4	186:3	102:4;108:8;115:23; 123:18;137:7;138:13;
151:15;152:19;157:23	132:9	struggling (2)	such (20)	142:9;145:6,12;149:21;
Steve (4)	strength (3)	60:13;145:14	13:5,6;14:24;18:22;	151:5,6,20;163:5,13;
77:3,5,8;178:13	46:2;72:19,19	student (2)	31:4;38:15;41:2;43:14;	170:23;177:16;185:20;
STEVEN (1)	strengthen (2)	43:22;82:2	50:22;58:17;62:11;	189:19
2:17	34:1;167:17	students (1)	66:1,24;97:2,24;98:5;	supported (2)
still (21)	strengthened (2)	135:21	112:14;120:12;127:23;	17:20;36:10
31:3;42:10;48:16;	32:9;53:18	studied (2)	157:9	supporters (1)
50:11;54:13;66:12;	strengthening (6)	67:20;97:4	suffer (2)	33:25
67:6;81:24;82:2;92:14;	14:9;15:21;34:14,19;	studies (4)	100:10;166:25	supporting (2)
93:2;95:10;108:12;	48:12;134:2	70:18;75:9;143:3;	suffered (3)	34:21;184:20
114:3;119:11;124:10;	stress (1)	144:1	148:1;149:2,3	supports (5)
129:4;143:25;169:2,20;	41:25	study (2)	suffering (1)	12:24;19:18;51:21;
187:20	stressing (1)	86:17;114:5	117:4	150:2;154:5
stimulate (6)	96:20	stuff (6)	suffice (1)	sure (18)
13:2,7;31:3;73:18;	stretching (1)	48:2;70:16;88:11;	44:8	43:4;52:1;63:5;65:5;
74:6;171:4	111:7	89:6,24;152:3	suggest (1)	67:10;83:7,7;84:7,11,
stipend (1)	strict (1)	stunting (1)	144:1	14;111:18;121:23;
172:1	83:9	40:18	suggested (1)	144:25;146:9;154:7;
stock (2)	strictest (1)	Subaru (1)	156:6	158:24;161:21;185:8
55:25;138:11	29:20	119:7	suggesting (1)	surefire (1)
stone's (1)	strides (1)	subject (2)	113:8	32:13
66:23	13:24	44:12;79:11	suggestion (2)	surgeons (1)
stood (1)	strike (1)	submit (1)	113:11;188:16	42:25
22:16	166:10	34:22	sum (1)	surgery (4)
stop (7)	<b>stringency (1)</b> 125:13	submitted (2) 20:2;127:25	65:19 Suman (4)	42:16,20;43:11;44:17
21:9;76:2,16;84:2; 107:25,25;139:9		submitting (1)	<b>Sumer (4)</b> 86:20,24,25;87:17	surprised (1) 119:4
stopped (1)	<b>stringent (1)</b> 31:22	116:24		surprising (2)
159:18	striving (1)	subordination (1)	summary (1) 174:11	32:2;131:17
stopping (1)	81:18	148:2	summed (1)	survey (3)
66:20	stroke (1)	subsidies (1)	79:2	31:23;52:4;72:13
stops (1)	43:6	121:6	summer (6)	survive (1)
94:6	strokes (1)	subsidize (1)	35:17;75:12,17;	134:23
stories (1)	65:10	62:18	124:11;178:9;190:14	surviving (1)
176:7	strong (17)	subsidized (1)	sung (1)	186:18
	~ <b>~</b> (~-·)	(1)	(-)	

	1			
suspect (2)	44:10;48:8;53:11;	26:18;61:18,18;62:1,	177:12;179:9	68:19;69:6,7,10;71:17,
65:2;185:2	54:11,12;58:9,10,20,20;	4;74:5,12;120:25;	tenants (2)	18,24;76:25;77:2;79:9,
sustain (1)	60:25;65:13;72:22,24;	149:24;160:7	57:18;58:19	21;80:1;84:15,19,21,21;
155:16	74:24;75:19;79:12,15,	taxes (1)	tends (1)	85:6,17,23;90:3,4,15;
sustainability (5)	22;81:25;92:12;99:18;	160:1	28:25	94:18,20;95:1;96:1,2,9,
9:8;11:14;82:6;95:3;	103:3,25;105:7;118:4;	taxi (1)	Tennessee (1)	10;99:7,8;102:8,9;
153:24	124:22;136:2;137:21;	159:14	112:3	106:10,16;109:12,14,
sustainable (1)	143:24;150:8;152:19,	taxpayer-financed (1)	term (3)	15,17,23;111:4,5,10,16;
130:21	22;155:24;157:23;	62:12	9:17;25:16;120:9	116:6,7,7,8;118:12,13;
sustained (1)	166:23;176:15;182:7;	taxpayers (1)	terms (3)	121:12,13,21;123:1,4,5,
155:5	188:15;189:2	62:17	60:3;191:5,9	14;125:17,18;128:17,
SUV (1)	taken (6)	teach (3)	terrible (1)	18;135:7,10;137:23,23;
144:22	45:16;113:4;149:19;	86:4,16;140:14	80:9	141:18;147:1,2;150:2,3,
<b>SUVs</b> (2)	163:16;165:10,14	teacher (2)	terrorism (1)	3,5,17,18;153:7,8;
159:18;161:1	takes (4)	86:4,15	74:23	154:4;156:15;158:1,2,6;
sweater (1)	102:6,23;108:2;	technique (1)	terrorists (3)	161:18,20;162:13,15;
112:24	180:25	37:1	73:10,13;182:1	163:1;164:6,7,13;
Sweeney (1)	taking (15)	technological (3)	tested (2)	165:18,25;166:1;
178:13	26:2;30:4;40:17;	13:4;19:11;171:14	64:13;65:3	169:16,22,23,23;
swings (2)	59:14;74:15;79:17;	technologically (1)	testified (1)	172:14,15,18;174:19,
23:14;67:17	80:25;85:5;111:16;	83:14	177:16	20,23;175:5,20,21,24;
symptoms (3)	133:11;149:15,16;	technologies (8)	testifiers (1)	180:5,6;182:19,22,24;
44:1,5,18	151:15;156:2;163:1	17:17;18:10,13,19;	52:23	184:7,8,9;186:5,6,16,
syntax (1)	tale (2)	73:19;76:24;91:8;	testify (9)	17;189:9,10;191:20,21
147:14	143:12;145:3	148:18	11:18;30:4;33:18;	thankful (1)
system (9)	talk (14)	technology (17)	52:10;59:10;77:14;	44:22
27:24;57:24;120:16,	44:23;48:9;55:6; 63:15;74:19;85:23;	11:8;54:20;61:12;	150:19;162:15;177:3 <b>testifying (1)</b>	thanking (1) 79:20
20;164:24;181:1,2,3;	63.12.14.19.82.73.	73.73.88.10.101.10.	toctitying ( ) )	/9.70
	· · · · · · · · · · · · · · · · · · ·	73:23;88:10;101:19;		
183:23	86:8,11;89:21;122:15,	110:18;114:2;115:5;	69:11	thanks (5)
183:23 <b>systemic (1)</b>	86:8,11;89:21;122:15, 17;143:10;148:21;	110:18;114:2;115:5; 117:21;118:3;121:9;	69:11 testimonies (2)	thanks (5) 39:23;68:9;91:7;
183:23 <b>systemic</b> (1) 156:3	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13;	69:11 <b>testimonies (2)</b> 170:7;175:23	thanks (5) 39:23;68:9;91:7; 165:17;191:21
183:23 <b>systemic (1)</b> 156:3 <b>systems (3)</b>	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5)	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11	69:11 testimonies (2) 170:7;175:23 testimony (15)	thanks (5) 39:23;68:9;91:7; 165:17;191:21 theater (1)
183:23 <b>systemic</b> (1) 156:3	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 <b>talked (5)</b> 85:19;89:20;145:21;	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2)	69:11 <b>testimonies (2)</b> 170:7;175:23 <b>testimony (15)</b> 30:1;50:11;52:3;	thanks (5) 39:23;68:9;91:7; 165:17;191:21 theater (1) 114:20
183:23 <b>systemic (1)</b> 156:3 <b>systems (3)</b> 98:15;151:12;170:17	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 <b>talked (5)</b> 85:19;89:20;145:21; 176:18;189:25	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13	69:11 <b>testimonies (2)</b> 170:7;175:23 <b>testimony (15)</b> 30:1;50:11;52:3; 116:16,19,25;125:3;	thanks (5) 39:23;68:9;91:7; 165:17;191:21 theater (1) 114:20 them (41)
183:23 <b>systemic (1)</b> 156:3 <b>systems (3)</b>	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5)	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1)	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21;	thanks (5) 39:23;68:9;91:7; 165:17;191:21 theater (1) 114:20 them (41) 21:2;22:18;31:1,4,8;
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20;	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13	thanks (5) 39:23;68:9;91:7; 165:17;191:21 theater (1) 114:20 them (41) 21:2;22:18;31:1,4,8; 32:2;37:1;41:3;43:25;
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17 T TABERNACLE (2)	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 <b>talked (5)</b> 85:19;89:20;145:21; 176:18;189:25 <b>talking (5)</b> 80:17;82:1;86:20; 89:15;179:15	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1)	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1)	thanks (5) 39:23;68:9;91:7; 165:17;191:21 theater (1) 114:20 them (41) 21:2;22:18;31:1,4,8; 32:2;37:1;41:3;43:25; 52:19;53:21;56:9,10;
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17 T TABERNACLE (2) 39:12,15	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2)	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17 T TABERNACLE (2) 39:12,15 tables (1)	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15)	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1)	thanks (5) 39:23;68:9;91:7; 165:17;191:21 theater (1) 114:20 them (41) 21:2;22:18;31:1,4,8; 32:2;37:1;41:3;43:25; 52:19;53:21;56:9,10; 62:10;65:14;81:21; 89:17;93:17,25;98:15;
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17 T TABERNACLE (2) 39:12,15 tables (1) 23:15	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1)	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25;	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T  TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1)	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23;	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1)	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T  TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1) 42:10	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21 tangible (1)	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23; 94:13;101:12,14;106:5;	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1) 10:11	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,     23;149:22,24;167:16;
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1) 42:10 tackle (4)	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21 tangible (1) 12:19	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23; 94:13;101:12,14;106:5; 117:2,9;126:23;143:2;	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1) 10:11 Texas (2)	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,     23;149:22,24;167:16;     169:10;173:6;174:7,9,9,
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T  TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1) 42:10 tackle (4) 45:17;49:5;155:1;	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21 tangible (1) 12:19 tangle (1)	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23; 94:13;101:12,14;106:5; 117:2,9;126:23;143:2; 174:21	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1) 10:11 Texas (2) 149:13;160:15	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,     23;149:22,24;167:16;     169:10;173:6;174:7,9,9,     18;177:6,25;182:7;
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T  TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1) 42:10 tackle (4) 45:17;49:5;155:1; 163:10	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21 tangible (1) 12:19 tangle (1) 188:24	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23; 94:13;101:12,14;106:5; 117:2,9;126:23;143:2; 174:21 telling (1)	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1) 10:11 Texas (2) 149:13;160:15 thank (183)	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,     23;149:22,24;167:16;     169:10;173:6;174:7,9,9,     18;177:6,25;182:7;     183:17;184:4
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T  TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1) 42:10 tackle (4) 45:17;49:5;155:1;	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21 tangible (1) 12:19 tangle (1) 188:24 tank (3)	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23; 94:13;101:12,14;106:5; 117:2,9;126:23;143:2; 174:21 telling (1) 154:7	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1) 10:11 Texas (2) 149:13;160:15 thank (183) 8:12;11:17,22,23;	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,     23;149:22,24;167:16;     169:10;173:6;174:7,9,9,     18;177:6,25;182:7;     183:17;184:4 theme (1)
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T  TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1) 42:10 tackle (4) 45:17;49:5;155:1; 163:10 tackling (1) 60:20	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21 tangible (1) 12:19 tangle (1) 188:24 tank (3) 128:8;136:7;137:3	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23; 94:13;101:12,14;106:5; 117:2,9;126:23;143:2; 174:21 telling (1) 154:7 tells (2)	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1) 10:11 Texas (2) 149:13;160:15 thank (183) 8:12;11:17,22,23; 15:4,15;16:19,20;17:1;	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,     23;149:22,24;167:16;     169:10;173:6;174:7,9,9,     18;177:6,25;182:7;     183:17;184:4 theme (1)     163:25
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T  TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1) 42:10 tackle (4) 45:17;49:5;155:1; 163:10 tackling (1) 60:20 tag (1)	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21 tangible (1) 12:19 tangle (1) 188:24 tank (3) 128:8;136:7;137:3 tanks (1)	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23; 94:13;101:12,14;106:5; 117:2,9;126:23;143:2; 174:21 telling (1) 154:7 tells (2) 95:13;100:25	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1) 10:11 Texas (2) 149:13;160:15 thank (183) 8:12;11:17,22,23; 15:4,15;16:19,20;17:1; 20:8,10,18;24:12,14,22;	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,     23;149:22,24;167:16;     169:10;173:6;174:7,9,9,     18;177:6,25;182:7;     183:17;184:4 theme (1)     163:25 themselves (6)
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T  TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1) 42:10 tackle (4) 45:17;49:5;155:1; 163:10 tackling (1) 60:20 tag (1) 158:3	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21 tangible (1) 12:19 tangle (1) 188:24 tank (3) 128:8;136:7;137:3 tanks (1) 113:16	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23; 94:13;101:12,14;106:5; 117:2,9;126:23;143:2; 174:21 telling (1) 154:7 tells (2) 95:13;100:25 temperatures (1)	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1) 10:11 Texas (2) 149:13;160:15 thank (183) 8:12;11:17,22,23; 15:4,15;16:19,20;17:1; 20:8,10,18;24:12,14,22; 26:21,23;27:4,4;29:24,	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,     23;149:22,24;167:16;     169:10;173:6;174:7,9,9,     18;177:6,25;182:7;     183:17;184:4 theme (1)     163:25 themselves (6)     50:19;120:18;133:8;
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T  TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1) 42:10 tackle (4) 45:17;49:5;155:1; 163:10 tackling (1) 60:20 tag (1)	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21 tangible (1) 12:19 tangle (1) 188:24 tank (3) 128:8;136:7;137:3 tanks (1) 113:16 tar (1)	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11  teenagers (2) 135:20;137:13  teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23; 94:13;101:12,14;106:5; 117:2,9;126:23;143:2; 174:21 telling (1) 154:7 tells (2) 95:13;100:25 temperatures (1) 134:24	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1) 10:11 Texas (2) 149:13;160:15 thank (183) 8:12;11:17,22,23; 15:4,15;16:19,20;17:1; 20:8,10,18;24:12,14,22; 26:21,23;27:4,4;29:24, 25,25;30:3,5;33:9,10,	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,     23;149:22,24;167:16;     169:10;173:6;174:7,9,9,     18;177:6,25;182:7;     183:17;184:4 theme (1)     163:25 themselves (6)     50:19;120:18;133:8;     158:18;174:8;178:5
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T  TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1) 42:10 tackle (4) 45:17;49:5;155:1; 163:10 tackling (1) 60:20 tag (1) 158:3 tags (1) 135:11	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21 tangible (1) 12:19 tangle (1) 188:24 tank (3) 128:8;136:7;137:3 tanks (1) 113:16 tar (1) 108:3	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23; 94:13;101:12,14;106:5; 117:2,9;126:23;143:2; 174:21 telling (1) 154:7 tells (2) 95:13;100:25 temperatures (1)	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1) 10:11 Texas (2) 149:13;160:15 thank (183) 8:12;11:17,22,23; 15:4,15;16:19,20;17:1; 20:8,10,18;24:12,14,22; 26:21,23;27:4,4;29:24, 25,25;30:3,5;33:9,10, 17,21;35:17,18,24;39:7,	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,     23;149:22,24;167:16;     169:10;173:6;174:7,9,     18;177:6,25;182:7;     183:17;184:4 theme (1)     163:25 themselves (6)     50:19;120:18;133:8;     158:18;174:8;178:5 theory (1)
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T  TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1) 42:10 tackle (4) 45:17;49:5;155:1; 163:10 tackling (1) 60:20 tag (1) 158:3 tags (1)	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21 tangible (1) 12:19 tangle (1) 188:24 tank (3) 128:8;136:7;137:3 tanks (1) 113:16 tar (1) 108:3 targets (1)	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23; 94:13;101:12,14;106:5; 117:2,9;126:23;143:2; 174:21 telling (1) 154:7 tells (2) 95:13;100:25 temperatures (1) 134:24 Temple (1) 112:5	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1) 10:11 Texas (2) 149:13;160:15 thank (183) 8:12;11:17,22,23; 15:4,15;16:19,20;17:1; 20:8,10,18;24:12,14,22; 26:21,23;27:4,4;29:24, 25,25;30:3,5;33:9,10, 17,21;35:17,18,24;39:7, 8;41:11,11,13;46:11,12,	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,     23;149:22,24;167:16;     169:10;173:6;174:7,9,9,     18;177:6,25;182:7;     183:17;184:4 theme (1)     163:25 themselves (6)     50:19;120:18;133:8;     158:18;174:8;178:5 theory (1)     154:15
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T  TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1) 42:10 tackle (4) 45:17;49:5;155:1; 163:10 tackling (1) 60:20 tag (1) 158:3 tags (1) 135:11 tailpipe (2)	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21 tangible (1) 12:19 tangle (1) 188:24 tank (3) 128:8;136:7;137:3 tanks (1) 113:16 tar (1) 108:3 targets (1) 144:6	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23; 94:13;101:12,14;106:5; 117:2,9;126:23;143:2; 174:21 telling (1) 154:7 tells (2) 95:13;100:25 temperatures (1) 134:24 Temple (1)	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1) 10:11 Texas (2) 149:13;160:15 thank (183) 8:12;11:17,22,23; 15:4,15;16:19,20;17:1; 20:8,10,18;24:12,14,22; 26:21,23;27:4,4;29:24, 25,25;30:3,5;33:9,10, 17,21;35:17,18,24;39:7, 8;41:11,11,13;46:11,12, 18;49:17,21,22;50:3,10;	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,     23;149:22,24;167:16;     169:10;173:6;174:7,9,     18;177:6,25;182:7;     183:17;184:4 theme (1)     163:25 themselves (6)     50:19;120:18;133:8;     158:18;174:8;178:5 theory (1)
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T  TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1) 42:10 tackle (4) 45:17;49:5;155:1; 163:10 tackling (1) 60:20 tag (1) 158:3 tags (1) 135:11 tailpipe (2) 11:3;15:3	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21 tangible (1) 12:19 tangle (1) 188:24 tank (3) 128:8;136:7;137:3 tanks (1) 113:16 tar (1) 108:3 targets (1)	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23; 94:13;101:12,14;106:5; 117:2,9;126:23;143:2; 174:21 telling (1) 154:7 tells (2) 95:13;100:25 temperatures (1) 134:24 Temple (1) 112:5 tempting (1)	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1) 10:11 Texas (2) 149:13;160:15 thank (183) 8:12;11:17,22,23; 15:4,15;16:19,20;17:1; 20:8,10,18;24:12,14,22; 26:21,23;27:4,4;29:24, 25,25;30:3,5;33:9,10, 17,21;35:17,18,24;39:7, 8;41:11,11,13;46:11,12,	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,     23;149:22,24;167:16;     169:10;173:6;174:7,9,9,     18;177:6,25;182:7;     183:17;184:4 theme (1)     163:25 themselves (6)     50:19;120:18;133:8;     158:18;174:8;178:5 theory (1)     154:15 therapist (1)
183:23 systemic (1) 156:3 systems (3) 98:15;151:12;170:17  T  TABERNACLE (2) 39:12,15 tables (1) 23:15 tachycardia (1) 42:10 tackle (4) 45:17;49:5;155:1; 163:10 tackling (1) 60:20 tag (1) 158:3 tags (1) 135:11 tailpipe (2) 11:3;15:3 take (46)	86:8,11;89:21;122:15, 17;143:10;148:21; 180:19 talked (5) 85:19;89:20;145:21; 176:18;189:25 talking (5) 80:17;82:1;86:20; 89:15;179:15 talks (2) 64:22;101:23 TAMM (1) 2:21 tangible (1) 12:19 tangle (1) 188:24 tank (3) 128:8;136:7;137:3 tanks (1) 113:16 tar (1) 108:3 targets (1) 144:6 taught (2)	110:18;114:2;115:5; 117:21;118:3;121:9; 140:2,3;141:25;157:13; 171:11 teenagers (2) 135:20;137:13 teens (1) 114:8 telephones (1) 143:14 tell (15) 33:11;41:3;43:25; 44:15;70:15;72:23; 94:13;101:12,14;106:5; 117:2,9;126:23;143:2; 174:21 telling (1) 154:7 tells (2) 95:13;100:25 temperatures (1) 134:24 Temple (1) 112:5 tempting (1) 168:22	69:11 testimonies (2) 170:7;175:23 testimony (15) 30:1;50:11;52:3; 116:16,19,25;125:3; 150:1,5;158:5;175:21; 180:7,9,10,13 testimony's (1) 50:5 tests (1) 64:15 Tetrachloride (1) 10:11 Texas (2) 149:13;160:15 thank (183) 8:12;11:17,22,23; 15:4,15;16:19,20;17:1; 20:8,10,18;24:12,14,22; 26:21,23;27:4,4;29:24, 25,25;30:3,5;33:9,10, 17,21;35:17,18,24;39:7, 8;41:11,11,13;46:11,12, 18;49:17,21,22;50:3,10; 51:22,23;52:3,8,9;53:5,	thanks (5)     39:23;68:9;91:7;     165:17;191:21 theater (1)     114:20 them (41)     21:2;22:18;31:1,4,8;     32:2;37:1;41:3;43:25;     52:19;53:21;56:9,10;     62:10;65:14;81:21;     89:17;93:17,25;98:15;     101:3;111:25;137:7;     143:9;144:12;145:14,     23;149:22,24;167:16;     169:10;173:6;174:7,9,9,     18;177:6,25;182:7;     183:17;184:4 theme (1)     163:25 themselves (6)     50:19;120:18;133:8;     158:18;174:8;178:5 theory (1)     154:15 therapist (1)     173:25

thereof (1) 60:19	181:6;188:10 think (84)	23,23;80:11;81:14;83:5, 6;84:9,18;87:11,18;	thoughts (2) 67:17;136:2	tight (1) 97:18
they (104)	21:25;24:2;25:9;26:5;	88:13;89:3,24;94:11,13;	thousands (2)	tighter (1)
15:1;21:18,20;25:17;	27:17;30:6;41:20;	95:21;97:1;102:3,4,22,	66:8;178:19	107:18
28:23,23;31:3,9;32:8,	45:12;48:25;52:16;	23,23;106:6;107:22;	threat (8)	time (67)
11;34:6;35:3,11;38:4;	53:16;60:2,11,18;61:18;	110:6,12,21;111:19;	19:22;74:20,21,22,23;	12:24;20:9;26:11;
39:3;43:1;52:23;54:15;	62:16,20;65:17;74:9,18;	112:15,19;113:2,24;	75:3;79:25;181:25	29:2,22;40:8;41:4,10;
55:15,16,17,18,20;56:9;	76:11,13,15,17;80:16;	114:18,25;115:15,18,	threatened (2)	49:10,12;51:3;60:13;
58:20;65:14;66:16,17;	82:21;83:16;84:2;	18,21;117:1,18;118:10;	59:19,21	61:24;62:14;65:6,14;
67:2;68:14;76:2;80:22;	87:14,21,23;88:9;89:8;	121:21,22;122:8;123:1,	threatening (1)	77:22;79:24,25;84:17,
87:15,17,21;90:23;91:2,	96:23;100:13;102:17,	14;124:12,15;125:3,7;	34:11	18;85:5;86:6;87:11,19;
11,16;92:14,15;93:20;	22;103:10;104:14;	126:25;129:9;131:4,14,	threatens (2)	88:1,21;90:6;95:25;
95:17,17;100:19,19;	105:24;107:25;110:15;	16;136:8,17;137:12,12,	40:7;134:19	96:23;97:18;100:9;
101:14;103:21;106:8,9;	116:3;120:21;122:5,6,9,	17;139:12;146:2,22,23,	threats (1)	102:8;103:11,18;
107:24;108:25;109:1;	10;133:25;135:3;136:8;	24;148:7,13,24;149:7;	17:15	105:23;109:13;110:22;
113:10;114:3;115:11;	139:15;146:3;153:12;	150:19;152:4,6,8,13;	three (31)	111:16;116:6;119:14;
124:21;126:10;133:8,	156:8;157:5,13,15,16,	154:4,22,25;155:17;	20:25;21:24;22:16;	121:11;122:1,25;134:9;
16;138:24;139:6;	19,22;160:17;161:6,11;	156:5;157:14,19;160:2,	27:12;42:3;47:2,12;	135:9;136:3;139:13,23;
140:14;142:11,12;	162:18;167:3;173:14,	6,8,9,16;161:22;162:4;	57:20;69:18;72:4,8;	141:13;147:1;157:5,19;
143:13,15;145:17;	16;174:20;178:1,20;	163:15,25;165:7,14;	80:13;86:3;90:18;	159:1,8,16;160:4;163:2;
146:20;147:20;149:2;	179:16;180:8,23;	166:6;167:16;168:9;	100:2;111:20;127:13;	166:24;171:1;172:10,
158:17,17,20;159:6;	181:19;183:8,25;	171:1;172:6;174:12,16,	133:1,11;149:14;	10,13;176:16;177:20;
160:1,4,17,18;163:18;	185:25;187:25;189:4,	16;175:15,21;176:1;	156:24;159:17;162:6,7;	179:18;181:23
167:12;169:17;171:24;	21,22;190:17;191:15	177:11,12,17,19;178:2,	165:8,11;170:12;	times (13)
172:1;174:7;177:6,7,10;	thinking (8)	9,21;179:8,18,24;	173:15;174:1;179:14;	38:23;103:6,13,13,25;
181:22;183:14,16,18,	20:23;78:15;79:17;	182:20;186:14,18;	186:24	104:2,3;141:16;165:8,
20,21;185:6,15,21,22;	107:18,23;123:2;	187:9,10,12,18;189:19,	three-and-a-half (1)	11;173:16;185:9;
187:7,15;188:11;191:1,	139:25;177:21	22	173:4	187:14
11,18	thinks (1)	Thomas (7)	three-minute (1)	timing (1)
they'll (3) 33:8;61:1;142:13	68:23	8:2,4,9;21:18;24:15,	105:2 thrive (1)	30:4 TINKED (3)
55:8;01:1;142:15 they're (8)	third (6) 16:3;28:10;53:10;	17,21 <b>thorough (2)</b>	35:13	TINKER (2) 180:15,18
26:16;27:18;52:22;	56:3;148:21;161:23	49:15;129:21	throat (1)	tiny (3)
53:10,10;59:19;75:10;	thirdly (1)	those (40)	48:3	64:8;144:5;164:24
145:8	28:10	20:23;36:7;50:18;	through (25)	tipping (2)
They've (3)	third-worst (2)	61:9;63:14,21;64:23;	11:9;13:3;19:19;33:2;	69:3;139:8
55:12;93:22;139:3	117:16;149:11	69:2;70:17;75:25;	34:3,17;40:16;43:10;	tired (1)
thing (25)	this (216)	79:16;82:11;83:9;87:5,	44:18;50:10;66:19;	83:6
43:14;60:2;76:8;	8:14;13:1;14:5;15:16,	7;91:21,22;97:13;98:14,	87:13,21;106:7;107:10;	tirelessly (1)
80:14;83:3,22;87:9;	16;20:9,18;21:7;24:24;	18,25;100:9;101:8;	124:13,19;137:2;162:1,	93:12
88:23;89:13,19;112:5;	25:3,8,25;28:5;29:4;	103:4;110:15;115:12,	1,3,3,5;190:10,15	tires (2)
114:13;129:14,15;	30:5;31:9,18;32:18;	25;118:1;120:3,22;	throughout (7)	104:15;166:25
137:11;141:2;152:21;	35:16;36:11,19;37:5,13,	154:21;159:4;168:3,6;	13:10;66:21;77:18;	titled (1)
153:4;157:21;159:23,	18;40:9;42:1,16,19,21;	169:6;176:4;178:11;	90:25;91:3,15;92:21	92:9
24;185:5;187:11;189:7,	43:8,11;44:22;45:15;	180:8;181:14;188:18	throw (1)	today (46)
23	46:5,6,8,18;47:6,16,17;	though (12)	66:23	21:21;23:20;27:19;
things (35)	48:22,24;49:1,1,7,9,12;	25:17;45:23;53:22;	thumb (1)	33:18;34:22;41:23;
22:2;40:5;43:13;	50:15,21,24;51:18;54:1;	61:16;81:19;95:17;	181:23	42:8;43:20;50:11,23;
57:25;61:23;62:15;	55:5;58:11,12,12,21;	97:25;108:11;127:2;	thumbed (1)	52:10,23;53:7;63:15;
70:17;75:23;81:16,16;	59:14;60:14,20;61:12,	128:8;129:11;141:13	181:22	64:23;65:23;68:14;
84:14;85:1,24;86:16,17;	14,20;62:11,18;64:4;	thought (8)	thus (3)	72:7,12;77:15;78:7,22;
87:2,3,5,10;88:23;89:1;		0		
	65:6,17;67:18;68:17;	41:7;91:6;113:8;	50:20;163:13;187:7	80:20;83:14,19;91:7;
95:12;102:17;137:15;	65:6,17;67:18;68:17; 69:2;70:8;72:5,17,19,	41:7;91:6;113:8; 134:11;143:15;145:22;	Thyroid (1)	92:4;99:5,23;100:11,14;
95:12;102:17;137:15; 140:4;143:10,21;	65:6,17;67:18;68:17; 69:2;70:8;72:5,17,19, 20;73:4,9,22;74:9,11,	41:7;91:6;113:8; 134:11;143:15;145:22; 163:10;186:15	<b>Thyroid</b> (1) 68:16	92:4;99:5,23;100:11,14; 103:19;106:17;109:24;
95:12;102:17;137:15;	65:6,17;67:18;68:17; 69:2;70:8;72:5,17,19,	41:7;91:6;113:8; 134:11;143:15;145:22;	Thyroid (1)	92:4;99:5,23;100:11,14;

163:2;164:1;167:6;	76:3;152:20	transport (1)	16:2;23:2;31:17;34:3,5;	typically (1)
169:13;183:25	towards (5)	173:14	35:7;59:11;77:20;	73:7
today's (7)	60:24;61:1;79:12;	Transportation (31)	78:21;97:25;98:3;	typo (1)
13:18;40:23;48:7;	114:25;151:16	13:11;14:12;17:7;	106:24;124:19;148:22;	41:20
64:23;65:17;76:24;	town (8)	25:14;28:14;33:23;	166:9;170:25;174:13;	Tyson (1)
157:13	27:22;28:13,16;	57:15,20,24;58:5;59:14;	179:22;184:21;186:22	114:12
toddlers (1)	29:12;44:7;116:22;	62:4;66:12;70:10;	true (9)	
22:24	151:2;166:24	76:16,22;93:15;94:17;	77:16;113:20;114:10,	U
toe (1)	towns (1)	96:12;115:15;119:24;	14;126:11;127:15;	
90:14	28:20	120:16,23;121:1,7;	145:4;177:7;190:13	ucsusaorg (1)
together (3)	Township (1)	125:15;132:4,5,13;	truly (4)	56:13
101:15;105:4;171:13	170:8	164:24;185:10	16:18;64:24;76:22;	ultimate (1)
told (3)	toxic (6)	travel (2)	119:4	104:19
32:11;99:17;140:18	9:18;10:19;11:6;	57:19;97:15	Trust (2)	ultimately (1)
tolerate (1)	67:23;76:9;92:18	traveled (3)	17:4;154:23	174:6
76:12	toxics (4)	113:22;120:1;159:10	truth (4)	unacceptable (1)
Tom (1)	9:5;10:2,5,8	traveling (2)	40:21;47:5;84:22;	76:13
178:15	Toyota (3)	28:21;166:2	92:10	unchecked (1)
tomorrow (1)	88:16;153:1;157:3	travels (1)	try (8)	98:25
86:12	traditional (1)	47:12	42:16;87:7;102:20;	uncommon (1)
tomorrow's (1)	51:8	treasurer (1)	120:2;144:15;169:6,11;	89:4
40:24	traditions (1)	57:9	170:15	under (7)
tongue (1)	117:2	treat (1)	trying (5)	8:23;10:1;23:15;25:1;
44:21	Traffic (8)	191:18	44:17;151:17;160:20;	37:8;73:22;182:8
tonight (14)	8:13;9:15;16:6;24:23;	treatments (1)	168:21;183:19	underline (1)
123:15;125:5;142:25;	66:21;78:19;102:25;	42:6	Tuesday (1)	71:14
166:1;170:11,22;	124:17	treats (1)	90:13	underlying (2)
172:14;174:22;176:17,	traffic-wise (1)	68:14	tumultuous (1)	38:3;81:9
18;178:5;180:19;	67:7	trees (3)	188:13	undermine (2)
181:15;189:25	tragedy (1)	22:4;23:15;146:21	tundra (1)	62:9;125:12
tons (6)	155:17	tremendously (1)	75:5	undermines (2)
				IIIIaeriiiines (7)
* *				` '
13:16;45:21;89:16;	Trail (1)	148:1	turn (4)	37:12;188:19
13:16;45:21;89:16; 155:11;163:24;188:3	<b>Trail (1)</b> 58:2	148:1 <b>trending (1)</b>	turn (4) 112:24;113:12;171:7;	37:12;188:19 underplay (2)
13:16;45:21;89:16; 155:11;163:24;188:3 took (9)	Trail (1) 58:2 trails (1)	148:1 <b>trending (1)</b> 187:6	<b>turn (4)</b> 112:24;113:12;171:7; 172:7	37:12;188:19 <b>underplay (2)</b> 86:13,14
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9;	Trail (1) 58:2 trails (1) 90:25	148:1 trending (1) 187:6 Trenton (2)	turn (4) 112:24;113:12;171:7; 172:7 turned (1)	37:12;188:19 underplay (2) 86:13,14 understand (8)
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11;	Trail (1) 58:2 trails (1) 90:25 train (4)	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21;
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9;	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1)	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1)	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19;
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5)	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9;	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1)	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1)	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2)	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2)
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2)	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1)	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1)	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31)	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1)
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11;	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15 top-secret (1)	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21 trains (1)	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13 trillion (1)	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11; 52:15,16,22;53:8;57:20;	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8 undertaken (1)
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15 top-secret (1) 45:24	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21 trains (1) 119:15	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13 trillion (1) 14:14	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11; 52:15,16,22;53:8;57:20; 58:20;69:16;77:12;	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8 undertaken (1) 113:6
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15 top-secret (1) 45:24 tossed (1)	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21 trains (1) 119:15 transactions (1)	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13 trillion (1) 14:14 trip (1)	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11; 52:15,16,22;53:8;57:20; 58:20;69:16;77:12; 95:9;103:13,14;105:4;	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8 undertaken (1) 113:6 undo (1)
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15 top-secret (1) 45:24 tossed (1) 22:19	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21 trains (1) 119:15 transactions (1) 128:14	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13 trillion (1) 14:14 trip (1) 172:25	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11; 52:15,16,22;53:8;57:20; 58:20;69:16;77:12; 95:9;103:13,14;105:4; 107:20;109:5;110:2,16,	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8 undertaken (1) 113:6 undo (1) 93:1
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15 top-secret (1) 45:24 tossed (1) 22:19 total (7)	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21 trains (1) 119:15 transactions (1) 128:14 TRANSCRIPT (1)	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13 trillion (1) 14:14 trip (1) 172:25 trips (1)	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11; 52:15,16,22;53:8;57:20; 58:20;69:16;77:12; 95:9;103:13,14;105:4; 107:20;109:5;110:2,16, 17;117:5;118:21;127:5;	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8 undertaken (1) 113:6 undo (1) 93:1 undoubtedly (2)
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15 top-secret (1) 45:24 tossed (1) 22:19 total (7) 10:4,17;14:14;38:7;	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21 trains (1) 119:15 transactions (1) 128:14 TRANSCRIPT (1) 2:1	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13 trillion (1) 14:14 trip (1) 172:25 trips (1) 91:16	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11; 52:15,16,22;53:8;57:20; 58:20;69:16;77:12; 95:9;103:13,14;105:4; 107:20;109:5;110:2,16, 17;117:5;118:21;127:5; 132:23;134:15;135:19,	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8 undertaken (1) 113:6 undo (1) 93:1 undoubtedly (2) 13:22;65:11
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15 top-secret (1) 45:24 tossed (1) 22:19 total (7) 10:4,17;14:14;38:7; 56:6;103:1;133:1	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21 trains (1) 119:15 transactions (1) 128:14 TRANSCRIPT (1) 2:1 transformations (1)	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13 trillion (1) 14:14 trip (1) 172:25 trips (1) 91:16 trouble (2)	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11; 52:15,16,22;53:8;57:20; 58:20;69:16;77:12; 95:9;103:13,14;105:4; 107:20;109:5;110:2,16, 17;117:5;118:21;127:5; 132:23;134:15;135:19, 20;138:23;162:14;	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8 undertaken (1) 113:6 undo (1) 93:1 undoubtedly (2) 13:22;65:11 unemployed (1)
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15 top-secret (1) 45:24 tossed (1) 22:19 total (7) 10:4,17;14:14;38:7; 56:6;103:1;133:1 totaled (1)	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21 trains (1) 119:15 transactions (1) 128:14 TRANSCRIPT (1) 2:1 transformations (1) 70:22	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13 trillion (1) 14:14 trip (1) 172:25 trips (1) 91:16 trouble (2) 161:3,5	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11; 52:15,16,22;53:8;57:20; 58:20;69:16;77:12; 95:9;103:13,14;105:4; 107:20;109:5;110:2,16, 17;117:5;118:21;127:5; 132:23;134:15;135:19, 20;138:23;162:14; 177:15;184:3	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8 undertaken (1) 113:6 undo (1) 93:1 undoubtedly (2) 13:22;65:11 unemployed (1) 101:7
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15 top-secret (1) 45:24 tossed (1) 22:19 total (7) 10:4,17;14:14;38:7; 56:6;103:1;133:1 totaled (1) 133:3	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21 trains (1) 119:15 transactions (1) 128:14 TRANSCRIPT (1) 2:1 transformations (1) 70:22 transit (3)	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13 trillion (1) 14:14 trip (1) 172:25 trips (1) 91:16 trouble (2) 161:3,5 troubles (1)	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11; 52:15,16,22;53:8;57:20; 58:20;69:16;77:12; 95:9;103:13,14;105:4; 107:20;109:5;110:2,16, 17;117:5;118:21;127:5; 132:23;134:15;135:19, 20;138:23;162:14; 177:15;184:3 two-minute (1)	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8 undertaken (1) 113:6 undo (1) 93:1 undoubtedly (2) 13:22;65:11 unemployed (1) 101:7 unfair (1)
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15 top-secret (1) 45:24 tossed (1) 22:19 total (7) 10:4,17;14:14;38:7; 56:6;103:1;133:1 totaled (1) 133:3 touch (1)	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21 trains (1) 119:15 transactions (1) 128:14 TRANSCRIPT (1) 2:1 transformations (1) 70:22 transit (3) 18:3;151:11;166:23	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13 trillion (1) 14:14 trip (1) 172:25 trips (1) 91:16 trouble (2) 161:3,5 troubles (1) 149:1	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11; 52:15,16,22;53:8;57:20; 58:20;69:16;77:12; 95:9;103:13,14;105:4; 107:20;109:5;110:2,16, 17;117:5;118:21;127:5; 132:23;134:15;135:19, 20;138:23;162:14; 177:15;184:3 two-minute (1) 175:22	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8 undertaken (1) 113:6 undo (1) 93:1 undoubtedly (2) 13:22;65:11 unemployed (1) 101:7 unfair (1) 124:8
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15 top-secret (1) 45:24 tossed (1) 22:19 total (7) 10:4,17;14:14;38:7; 56:6;103:1;133:1 totaled (1) 133:3 touch (1) 67:13	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21 trains (1) 119:15 transactions (1) 128:14 TRANSCRIPT (1) 2:1 transformations (1) 70:22 transit (3) 18:3;151:11;166:23 transited (1)	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13 trillion (1) 14:14 trip (1) 172:25 trips (1) 91:16 trouble (2) 161:3,5 troubles (1) 149:1 truck (2)	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11; 52:15,16,22;53:8;57:20; 58:20;69:16;77:12; 95:9;103:13,14;105:4; 107:20;109:5;110:2,16, 17;117:5;118:21;127:5; 132:23;134:15;135:19, 20;138:23;162:14; 177:15;184:3 two-minute (1) 175:22 type (3)	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8 undertaken (1) 113:6 undo (1) 93:1 undoubtedly (2) 13:22;65:11 unemployed (1) 101:7 unfair (1) 124:8 unfettered (1)
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15 top-secret (1) 45:24 tossed (1) 22:19 total (7) 10:4,17;14:14;38:7; 56:6;103:1;133:1 totaled (1) 133:3 touch (1) 67:13 tow (1)	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21 trains (1) 119:15 transactions (1) 128:14 TRANSCRIPT (1) 2:1 transformations (1) 70:22 transit (3) 18:3;151:11;166:23 transited (1) 75:17	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13 trillion (1) 14:14 trip (1) 172:25 trips (1) 91:16 trouble (2) 161:3,5 troubles (1) 149:1 truck (2) 61:7;144:20	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11; 52:15,16,22;53:8;57:20; 58:20;69:16;77:12; 95:9;103:13,14;105:4; 107:20;109:5;110:2,16, 17;117:5;118:21;127:5; 132:23;134:15;135:19, 20;138:23;162:14; 177:15;184:3 two-minute (1) 175:22 type (3) 85:22;88:22;89:19	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8 undertaken (1) 113:6 undo (1) 93:1 undoubtedly (2) 13:22;65:11 unemployed (1) 101:7 unfair (1) 124:8 unfettered (1) 167:9
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15 top-secret (1) 45:24 tossed (1) 22:19 total (7) 10:4,17;14:14;38:7; 56:6;103:1;133:1 totaled (1) 133:3 touch (1) 67:13 tow (1) 144:22	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21 trains (1) 119:15 transactions (1) 128:14 TRANSCRIPT (1) 2:1 transformations (1) 70:22 transit (3) 18:3;151:11;166:23 transited (1) 75:17 Transition (2)	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13 trillion (1) 14:14 trip (1) 172:25 trips (1) 91:16 trouble (2) 161:3,5 troubles (1) 149:1 truck (2) 61:7;144:20 trucks (23)	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11; 52:15,16,22;53:8;57:20; 58:20;69:16;77:12; 95:9;103:13,14;105:4; 107:20;109:5;110:2,16, 17;117:5;118:21;127:5; 132:23;134:15;135:19, 20;138:23;162:14; 177:15;184:3 two-minute (1) 175:22 type (3) 85:22;88:22;89:19 types (1)	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8 undertaken (1) 113:6 undo (1) 93:1 undoubtedly (2) 13:22;65:11 unemployed (1) 101:7 unfair (1) 124:8 unfettered (1) 167:9 unfolding (1)
13:16;45:21;89:16; 155:11;163:24;188:3 took (9) 34:18;35:1;43:9; 57:21;91:16;110:11; 168:18;170:19;189:2 top (5) 10:8;32:17;81:9; 98:11;108:15 topic (2) 26:19;112:15 top-secret (1) 45:24 tossed (1) 22:19 total (7) 10:4,17;14:14;38:7; 56:6;103:1;133:1 totaled (1) 133:3 touch (1) 67:13 tow (1)	Trail (1) 58:2 trails (1) 90:25 train (4) 57:22;67:5;69:9; 99:18 trainer (1) 142:4 training (1) 22:21 trains (1) 119:15 transactions (1) 128:14 TRANSCRIPT (1) 2:1 transformations (1) 70:22 transit (3) 18:3;151:11;166:23 transited (1) 75:17	148:1 trending (1) 187:6 Trenton (2) 176:2;177:3 trial (1) 124:8 tried (1) 169:9 trigger (1) 67:13 trillion (1) 14:14 trip (1) 172:25 trips (1) 91:16 trouble (2) 161:3,5 troubles (1) 149:1 truck (2) 61:7;144:20	turn (4) 112:24;113:12;171:7; 172:7 turned (1) 92:8 turning (1) 64:2 TV (2) 43:18;64:15 two (31) 25:2;38:19;47:11; 52:15,16,22;53:8;57:20; 58:20;69:16;77:12; 95:9;103:13,14;105:4; 107:20;109:5;110:2,16, 17;117:5;118:21;127:5; 132:23;134:15;135:19, 20;138:23;162:14; 177:15;184:3 two-minute (1) 175:22 type (3) 85:22;88:22;89:19	37:12;188:19 underplay (2) 86:13,14 understand (8) 30:22;75:2;81:21; 98:20;107:16;136:19; 162:12,13 understanding (2) 54:22;129:21 understands (1) 19:8 undertaken (1) 113:6 undo (1) 93:1 undoubtedly (2) 13:22;65:11 unemployed (1) 101:7 unfair (1) 124:8 unfettered (1) 167:9

•				
unfortunate (1)	42:17;43:11	19:6	VAN (2)	63:22
168:6	unsustainable (1)	urine (1)	186:8,11	video (1)
Unfortunately (4)	60:11	64:12	vapor (1)	143:23
37:21;114:15;117:14;	until (8)	<b>USA</b> (1)	28:2	view (3)
133:16	12:22;55:18;92:11;	39:16	variations (1)	21:6;82:5;127:20
unhealthy (3)	94:5;101:21;113:19;	usage (3)	134:22	viewing (1)
10:1,22;97:12	153:5;161:17	28:3;96:25;119:1	variety (2)	48:24
Union (4)	unwelcome (1)	use (34)	25:7;93:8	views (4)
39:17;53:20;56:12;	29:4	28:8,9;37:1;51:5,6;	Varley (3)	30:4;92:7;174:23;
88:9	unwise (1)	58:10;71:10;77:19,23;	150:12,14,18	191:23
unions (1)	60:5	78:1,16;81:3,22;96:19,	vastly (1)	vilification (1)
112:18	up (67)	22;98:8;113:12;117:15;	131:23	49:10
unique (1)	12:21;14:6;23:2;	119:15;120:7,13;	vegetation (1)	violation (1)
171:17	30:20;41:9;42:11;	123:17;130:17;132:13;	10:24	148:5
United (33)	46:10;54:13;55:18,20;	144:16,20,22,23;	vehicle (26)	violent (1)
29:19;31:16;39:12,	58:2;65:13;67:5;74:7;	149:25;159:19;166:24;	8:16;13:5;14:15,18;	67:17
16,17;47:23;50:9;72:15,	76:6;79:2;80:12,13;	169:11;183:15;184:1	17:12;18:12,19,20;34:1,	Virgil (3)
25;74:16;75:8;77:18;	82:18;84:12;86:11,12;	used (11)	14,19;51:4;61:6;68:22;	153:11;156:18,22
86:21;88:5,7;101:7,16;	88:21;90:6,19;91:4,11,	47:16;51:7,10,11,14;	73:25;76:19;115:8;	Virgin (1)
102:2;128:24;129:1,5;	25;95:21,25;97:7,21;	90:23;108:18;113:18,	125:13;129:13;144:20,	132:21
131:16,23;147:25;	99:6;100:13;106:18;	18;120:2;157:17	22,25;145:1;177:23;	Virginia (1)
148:9;149:12;154:13;	107:2;109:15;113:11,	uses (2)	185:12,13	113:21
159:16;166:5;180:21;	12;122:3;128:4,7;	10:20;30:21	VEHICLES (29)	virtually (1)
181:17,24;185:25	130:5;132:21;134:8;	using (9)	2:4;11:7;12:13,18;	134:19
unites (1)	135:22;137:2;140:16,	81:19;88:4;114:20;	13:3,12;17:8,11,19;	virtue (1)
154:8	24;144:9;145:7,8;146:8,	119:11;120:4;132:11;	19:1;26:10;36:9;37:24;	119:18
units (1)	25;152:8;166:1;167:8,	148:22;157:20;173:15	38:24;55:25;73:22;	vision (2)
13:6	12,13;168:10;169:10;	usual (1)	91:22;92:20;97:10,23,	21:19;23:21
universe (1)	172:11;180:1,10,25;	126:11		visit (3)
181:1	187:3,14		24;103:14;119:7;120:4;	` '
		usually (2)	124:12;131:23;132:11, 15;144:11	11:21;28:25;56:12
University (4)	update (1) 115:14	77:12;127:9		visited (1) 190:5
110:1;139:18;147:11;		Utica (1)	veil (1)	
157:2	upgrade (1)	63:17	190:10	visiting (1)
University's (1)	191:3	utility (1)	Venezuela (1)	111:24
46:21	upgraded (1)	130:19	98:13	visual (2)
unlikely (1)	170:16	utilize (1)	venue (1)	65:23;93:24
26:8	upgrading (1)	114:22	26:20	vital (1)
unnecessarily (1)	28:1	utterly (2)	Vermont (1)	67:21
56:10	upheld (1)	29:4;152:19	190:8	voice (1)
unnecessary (1)	124:17	₹7	vessels (1)	186:15
121:4	uphill (1)	$\mathbf{V}$	42:25	voicing (1)
unpaid (1)	114:18	¥70 (4)	vet (1)	163:13
66:9	uphold (1)	V8 (1)	68:15	Volatile (1)
unpolluted (3)	125:10	91:4	veteran (2)	10:14
123:18;125:6,9	<b>upon</b> (5)	vacations (1)	156:22;183:6	volatility (2)
unprecedented (1)	56:18;60:5;94:14;	91:15	veterans (1)	17:16;19:17
148:2	180:1,2	valid (1)	20:6	Volkswagen (1)
unpredictable (1)	uprising (1)	36:10	veterinary (1)	139:23
28:22	188:11	Valley (4)	68:13	volleyball (1)
unquestionable (1)	upstream (1)	86:23;95:10;184:19,	vets (1)	22:11
117:10	76:23	24	68:12	Volt (1)
unraveling (1)	<b>urge</b> (8)	value (5)	viable (1)	177:24
74:21	50:16;62:7;71:13;	19:10;26:6;96:20;	20:21	voluntarily (1)
unsolvable (1)	117:19;128:16;154:2;	97:2;167:20	Vice (2)	96:25
173:6	155:2;164:4	values (3)	92:7;139:19	volunteer (1)
unsuccessful (2)	urges (1)	91:2;142:17;154:10	vicinity (1)	67:9

	T	T	T	
vote (1)	178:24;180:19;182:15,	133:24;142:5;146:17;	98:1,8,15,16,24;99:1,	weatherman (1)
93:20	17;184:4	163:7;166:13;167:24;	19;100:14;101:14,17,	43:18
voted (1)	wanted (9)	181:11;182:2	18;102:5;103:2,4;	Web (4)
131:20	44:15;53:23;82:15;	way (50)	105:7;107:3;109:10,10;	56:13;151:23;152:5,9
VOTERS (4)	90:5;109:12;124:6;	15:3;20:1;32:14;33:2;	110:5,5;111:6;112:8,12;	We'd (4)
15:9,13;96:15;97:3	168:13;173:2;175:10	41:3;47:16;48:23;	113:11,13;115:6;116:2,	52:9;116:3;146:2;
vulnerable (2)	wanting (1)	50:16;61:19;64:19;	9;117:11,11,19;118:2,9,	159:20
181:25;182:3	136:14	65:5;67:3,25;72:20;	14;119:24;120:15;	week (3)
VW (2)	war (6)	73:3;78:17;79:10,18;	122:15,16,20,21,21;	38:21;104:2;143:15
159:9;162:10	60:15,16,17;70:5,8;	81:17;82:16,18,21;84:8;	123:23,25;124:22;	weekend (2)
	129:24	86:22;88:4;103:3;	125:5,7;126:14,21;	91:1;131:15
$\mathbf{W}$	warm (1)	105:1,3;114:3;115:4;	127:6,11,17;133:20;	weeks (3)
	158:24	129:17;131:17;137:2,7;	134:25;137:5,5,6;	42:3;104:3,4
wage (3)	warmer (1)	139:12;140:10;148:23;	138:25;139:1,5,8;140:6,	weighing (1)
105:18,21,22	134:24	151:4;157:16;159:20;	16,19,21,22,23;141:3,	187:7
wagon (1)	warming (33)	161:2,6,11;162:3;	15,15,16;142:17;	Weinbaum (5)
90:24	21:12;22:1;23:22;	163:12;170:15;181:7,	143:21,24;144:11,19,	85:9;96:3,5,8,8
wait (2)	35:4;45:17,20;51:7;	19;187:9,11	19,20,22,22,23;145:2;	Welcome (8)
49:6;161:17	59:21,24;61:1;100:5;	ways (8)	146:10,12,13,13,14;	8:2;26:24;52:16;63:7;
waited (2)	101:14;106:23;107:19;	32:23;40:2;78:15;	148:20;149:11;151:19;	137:25;148:13,13;
162:14,14	108:9;117:17;126:17,	81:24,25;97:15;155:18;	152:15,19,22;154:5,6,8,	162:17
waiting (5)	20;127:6;138:21;	191:1	9;155:5,16,17,18,22,23,	welcoming (1)
132:25;145:3,10;	139:10;155:1;163:23;	we (384)	23,24;156:4,13,13;	130:2
152:24;153:5	165:10;171:8;176:11;	10:16;15:19;17:21,	157:14,19,20,21,22;	welfare (1)
wake (1)	179:17,21,23;187:24;	23;19:12;21:8,9;24:3,9,	158:18;160:5,22,23,24,	56:8
54:13	188:1,5;190:2	11;25:6,16;26:10;	24,24,25;161:7,13,16;	well (40)
walk (11)	warrant (1)	27:23;28:11,15;30:18;	162:12;164:23;165:1;	13:4;34:23;38:6;
24:13;63:25;66:16;	10:1	31:1,9,12;32:16;33:7;	166:10,11;167:8,11,11,	39:19;42:1;55:14;
90:14;107:9,14,22;	wars (8)	34:9,15,25;35:9;37:11;	15,16,24,25;168:7,10;	59:22;63:17;67:2,14,19,
132:12;137:8;166:23;	60:9;87:6;100:7;	38:21,22,23;39:6;41:1,	169:1,1,2,12,14,20;	19;74:1,8;78:7;81:12;
184:23	156:24;167:18,18,23;	9,9;44:10,25;45:3,8;	170:14,15,16,18,22;	84:8;88:17;93:15;
walker (1)	168:3	46:23,23,24;47:4,5,5;	171:7,7,13;172:3,3;	104:8;108:14;112:17;
184:17	Washington (9)	48:9,14,16,21;49:4,5,6,	173:21,22;174:18;	116:1;120:20;121:3;
walkers (1)	21:21;22:3,25;23:4;	7,14;50:16;51:2,3,5,19;	175:7,15,16;176:2,21,	128:25;135:5,16;
22:23	84:24;93:22;112:1;	52:5,10,19,24;54:23;	22;177:14;179:22;	140:20;143:15;144:9;
<b>walking (2)</b> 28:13;119:16	130:14;175:16	55:5,9,18;56:7,15;	180:24;181:3,3,6,8,10,	148:17;169:12;175:15;
28:15;119:10 walkways (2)	Wasilewski (6)	57:14;58:6;60:15;	11,12,13,15,17,18,19,	176:14;178:14;179:14;
22:5;151:12	80:2,4,7,18,19;82:4	61:24;63:8,10,14;65:8,	24;182:1,2,3,15,15,16,	183:25;187:5,16
want (62)	wasn't (6)	23;66:10,11;69:11;	17,17;183:15,17,25,25;	We'll (15)
20:18;23:23;26:14;	86:25;90:14;139:24;	70:16;71:3;72:11,14,21,	184:5;187:19;188:20,	8:1;39:6;52:20;54:21,
29:19;32:11;35:6;	140:1;143:23;145:21	22,24,25;73:2,5,12,20;	21,24;189:1,2;191:23	24,25;55:3,5;62:25;
41:25;42:17;50:10;	waste (1) 92:18	74:11,15,22,23,23;	weaken (2) 15:2;152:14	121:23;143:13;150:9; 158:3;169:20;180:9
53:13;55:10;58:9;61:5,	wasting (1)	75:15,18,22;76:3,11,11,	weakened (2)	well-being (5)
15;62:20;72:6;73:10;	107:24	13,15,17;77:22,25;78:2, 3,4,6,9,10,14,15,16;	19:7;50:16	11:19;40:2;53:15;
75:19;83:4,22;84:16;	watch (3)	79:15;81:2,9,11,14,16,	wealth (1)	99:6;135:6
85:17,23;86:13,13;	22:5;23:11;41:9	18,20;82:12,15,18,19;	98:17	we're (28)
87:24;89:23;93:5;	watched (1)	83:1,2,12,14,16;84:5,16,	wean (1)	27:25;28:1,3,5;30:6;
106:7,9;108:4;112:10;	70:2	17,18,23;85:4;86:17,23;	51:2	46:4;50:22;52:13;
117:6;118:22;121:21;	watches (1)	87:1,11,13,22,23;88:16;	wear (1)	56:17,20;69:18;80:15;
123:16;129:11;136:9;	83:7	89:5,8,10,10,22,25;	112:23	81:10,17;85:2,3,7;
137:7,18;142:10;143:8,	watching (1)	90:19,25;91:5,6,6,17,	wearing (2)	87:14;101:12;114:8;
10;153:5;154:22;	22:13	17;92:5,15,16,25;93:1,	22:14;47:24	131:11;136:14;138:24;
160:24;161:20;162:13;	water (16)	3,4,13,14;94:11,13,13;	weather (5)	143:16;146:12;149:13;
169:19;170:13;174:6,8,	21:10;76:14;80:8;	95:3,20,23;96:11,24,25;	77:11;100:6;128:10;	150:7,8
9,11,17;175:24;176:15;	94:2,3;123:17;125:6,9;	97:5,7,8,8,10,20,23;	171:8,10	weren't (2)
, , , , , , , , , , , , , , , , , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , . , . , . , . ,	1,1,5,10	··· •- • • ( <del>-</del> )

65:23;86:24	171:8	33:14,17,19,22	96:15;97:3;141:8	154:1;163:10;171:25
West (1)	which (63)	wilderness (1)	won (1)	works (6)
157:1	13:16;15:14;18:15,	93:16	92:10	11:6,13;56:15;65:25;
we've (17)	23;19:2;20:20;27:10;	wildlife (2)	wonder (3)	95:9;173:25
43:16;75:4,4,5;83:2;	28:7;37:4;40:14;43:2;	173:19;190:2	22:1;60:17;73:2	world (45)
110:20;140:12,14;	45:21;48:16;50:20;	Wilkes-Barre (1)	wonderful (5)	18:4,7;40:9;66:2,6;
155:13,21;161:9,11;	51:19;56:2;58:2;59:23;	12:10	50:12;52:13;87:22;	72:13;77:19;81:1;
163:25;167:21;177:2;	60:8;67:1;70:12;71:8,	William (4)	143:21;169:4	86:10;87:24;88:24;
183:24;188:2	14,15;72:14;92:10;	21:17;85:9;99:11,15	wondering (1)	91:15,22;92:21;93:22;
whales (1)	93:2;96:11;97:15,17,25;	willing (4)	23:20	100:15,20;102:19;
95:17	104:13,24;105:2;106:3;	58:15,16;161:14;	wonders (1)	112:13;115:18;117:6;
whaling (2)	110:16;114:9;130:15;	179:8	190:12	118:7;133:16,18;135:5;
95:15,16	131:10;133:2,16;	Wilson (1)	wood (1)	139:11;145:6,7;166:6;
whatever (4)	137:15;138:17,19;	67:15	144:23	167:6;168:11;174:10;
86:20;88:14;149:5;	139:3,9,15,24;140:8;	win (3)	woodlands (1)	177:1,2,4,8,15,15,17,20;
160:24	147:14,25;148:10;	115:5;136:20;163:19	93:16	181:18;183:23;186:2;
what's (6)	153:2;162:2;163:4,5;	win/win (3)	woods (1)	188:8;189:24
89:6;90:17;107:21;	167:20;175:23;180:2;	163:17,18;185:23	88:21	world's (6)
136:13;160:16,17	181:16;187:19;188:4,15	wind (1)	woodsy (1)	72:16,22;92:13;
wheelchairs (1)	While (16)	114:1	107:7	100:20;117:8;143:12
22:23	14:20;19:4,15;23:16;	window (1)	Woolsey (1)	worldwide (1)
		66:18	73:9	77:24
when (66)	44:17;45:17;49:18;			
28:20,22,24;29:5,5,7,	58:8;71:11;88:12;93:1;	windows (2)	word (1)	worried (1)
16;30:8;37:14;38:22;	107:22;112:7;114:1,6;	141:7;170:17	173:15	46:5
41:6;42:4;43:18;44:11;	126:11	winds (1)	words (5)	worry (3)
60:17;63:13,22;64:12;	white (6)	167:25	38:17;79:2;98:16;	33:19;69:19;80:16
67:21;68:15;69:2,3;	64:7;75:16;112:23;	winter (6)	116:25;172:25	worse (4)
70:24;71:1;74:9;76:1;	124:18;142:5;146:17	64:7;108:4,5,6,7;	work (54)	42:24;65:11;66:14;
77:11;83:2;87:5;88:21;	whiz (1)	124:7	11:15,20;24:3;25:5;	67:6
89:1,2;90:18,18;91:17;	107:24	Winters (1)	33:22;36:25;37:6;	worship (1)
94:6,11;100:5;103:4;	whole (9)	15:15	43:21;45:1;58:14;65:3;	155:25
112:21;114:13;124:6;	15:25;72:22;83:6;	win-win (2)	66:3;67:3,3;77:9,10;	worst (2)
127:5;128:6;134:15;	88:24;157:19,21,24;	106:24;127:21	84:23,24;104:1,6;105:5,	50:18;101:18
137:12;139:24,25;	160:8,9	Wisconsin (1)	10,20;107:5,14;110:8;	worth (3)
141:3;149:9;153:2;	wholeheartedly (2)	112:1	112:8,17;115:24;	64:25;103:21;138:12
158:21;159:10;166:10;	108:8;118:11	wisdom (1)	120:17;123:19;125:15;	would (76)
167:8,11,15,25;168:12;	whose (6)	37:22	132:22;137:13;141:12,	8:12;10:18;13:23;
169:8;173:20;176:5;	11:10;74:10;99:5;	wise (2)	15;143:2;144:15,17,20;	17:7,11;21:1,7,25;
178:22;181:23;186:14;	117:5;142:17,18	79:16;98:13	146:15,17;147:11,13;	24:22;25:4,6;26:17;
190:15	why (19)	wish (3)	160:11;161:7,8,9,10;	34:22;44:15;45:19,21;
whenever (1)	20:25;32:19;44:24;	54:19;58:6;97:20	167:14;171:13,21,24;	48:1,1;51:18,19;52:5,
144:16	45:9;50:21;51:20;	Wissahickon (2)	177:7	14;55:14;60:18;61:17,
where (28)	82:14;95:21;99:24;	184:19,23	workday (1)	18;62:3,11;64:9;65:24;
24:1;29:6;31:12;	123:18;130:1;142:25;	within (7)	105:19	73:1;88:9;91:10;93:24;
47:17;66:22;77:9;	144:9;145:5;161:16;	44:2;46:1;75:12;	worked (12)	94:1;97:20;98:4;
86:10;87:14;112:1,3;	170:22;176:8;178:25;	92:17;139:8;141:5;	17:21;27:23;64:13;	102:25;103:2,3;104:8;
127:21;136:9,10,21;	189:18	152:11	71:7;100:18;126:6;	113:7;116:2;120:13;
139:6,18;150:21;	Wich (5)	Without (13)	135:21;143:18,18;	121:1;122:4,4,5,6;
158:23;164:23;177:2,4,	85:10;106:11,13,16;	21:12;25:19;51:19;	162:4;168:19,19	127:17:122:4,4,5,0,
	109:15			
8,10,18,20;183:18;		67:11;92:23;129:21;	worker (2)	22;141:15;143:21;
184:23;188:21	widely (1)	144:12;152:13;155:2;	135:21;158:13	144:11;146:23;148:9;
Wherever (2)	110:13	156:2;168:8,9;179:24	working (18)	156:10;158:24;159:21;
25:25;190:9	wife (6)	woman (2)	12:7;20:6;28:5,11;	163:11;165:8;168:15;
whether (7)	27:11;77:12;99:19,	65:20;79:2	41:1;47:20;53:13;	178:5;187:12,16;188:1,
43:17;86:19;88:7;	22;138:18;141:7	WOMEN (7)	70:20;93:12;101:3,7,10;	7,23;189:21;191:1,3,4,
92:17;114:14;126:20;	WIJEYEWICKREMA (4)	15:9,13;18:3;22:8;	103:17;141:16;150:25;	4,10
	1	1	ı	I

Stullaurus una 1 del Ecc	momy stantal as		Junuary 12, 2012
wouldn't (4)	01.22.02.6.100.0.		
wouldn't (4)	91:22;92:6;100:9;		
92:15;143:24;186:13;	101:3;103:5,13,15,16,		
188:4	17,18,19,25;104:1,5,7;		
Wow (1)	105:11;107:11;108:20;		
91:4	109:4;110:11,15,16,16;		
wrap (6)	111:3;118:1,23;119:11;		
76:5;134:8;140:16;	121:10;126:7;129:1;		
146:8,25;180:1	131:3;132:1;133:1;		
wrapped (1)	134:15;139:8,15;140:6;		
74:7	142:20;152:11;153:4;		
writing (1)	155:4;160:5,23;162:8;		
34:19	166:14;167:19,21;		
wrong (3)	173:10;177:12,16;		
33:20;45:24;111:7	179:6,10;182:6;183:6;		
wrote (3)	186:22		
67:15;92:8;95:5	yellow (1)		
-	90:24		
X	Yes (13)		
	24:5;59:7;76:7;82:3;		
XVI (1)	93:23;95:1;134:10;		
113:8	147:9;156:21;157:21;		
	162:12;172:24;175:16		
Y	yesterday (1)		
	132:20		
Yale (3)	<b>YOON</b> (1)		
114:5;168:18,24	2:22		
yard (2)	York (2)		
64:9;94:2	143:11;185:9		
Yaris (1)	<b>Young (14)</b>		
157:3	22:10,23;23:22;41:1;		
yeah (4)	50:19;52:16;65:20;		
24:21;46:23;52:1;	90:18;91:17;123:24;		
140:17	168:12;171:20,23;		
year (44)	186:12		
13:18;17:10;27:23;	youngest (1)		
28:1,4,5;31:14;42:16;	52:23		
45:18,22;55:5;57:15;	yourself (1)		
60:8;61:4;75:16;76:18;	180:13		
92:11;97:16;105:1,3,6,	100110		
7;117:25;124:12;	${f Z}$		
127:24;130:16;134:5;			
138:8;141:5,5;148:8;	Zachary (3)		
153:3;156:9;157:18,19;	164:8,10,16		
159:10,11;163:22;	zero (5)		
168:16;171:19;187:16;	76:10,17,22;138:12;		
188:4,21,25	177:22		
<b>YEARS</b> (91)			
2:4;8:15;9:6;12:13,			
23;14:16;17:23;18:9;			
20:25;21:24;22:18;			
23:21,21;27:15,20;34:3;			
38:19;41:1;45:15;			
47:12;48:14;54:3;56:4;			
64:21;68:15,20;70:21,			
23;72:23;73:1;75:12;			
78:4,22;82:10,12;88:25;			
<del></del>		 	