

Revised 2010 NASS GES Data File

The 2010 National Automotive Sampling System (NASS) General Estimates System (GES) data file was made available to the public in December 2011. Shortly after posting the file, a coding error was discovered in the data element "Vehicle Trailing". This variable identifies how many trailers a vehicle is pulling. NCSA temporarily deleted the data element from public file and posted a notice saying the variable was under review. Since that time, NCSA investigated the coding error and discovered additional related variables were affected. There were 8 data elements (vehicle trailing, vehicle configuration, body type, cargo body type, jackknife, vehicle model, vehicle model year, and vehicle identification number) corrected for 842 vehicles out of 81,406 vehicles on the 2010 NASS GES file.

Like many other data systems, the NASS GES database accounts for or addresses unknown data or data fields with no known value. Accordingly, selected variables, corresponding with certain tables published by NHTSA annually, were chosen for imputation. As a result of re-coding cases, the imputation program to generate the imputed variables had to be re-run and 20 imputed variables were revised:

5 imputed variables in Accident:

MANCOL_IM	IMPUTED MANNER OF COLLISION
RELJCT2_IM	IMPUTED RELATION TO JUNCTION
MAXSEV_IM	IMPUTED MAXIMUM INJURY IN CRASH
NO_INJ_IM	IMPUTED NUMBER INJURED IN CRASH
ALCHL_IM	IMPUTED DRINKING IN CRASH

9 imputed variables in Vehicle:

MDLYR_IM	IMPUTED MODEL YEAR
HITRUN_IM	IMPUTED HIT AND RUN
BDYTYP_IM	IMPUTED BODY TYPE
PCRASH1_IM	IMPUTED VEHICLE P_CRASH1
IMPACT1_IM	IMPUTED AREA OF IMPACT-INITIAL
VEVENT_IM	IMPUTED MOST HARMFUL EVENT
MXVSEV_IM	IMPUTED MAXIMUM INJURY IN VEHICLE
NUMINJ_IM	IMPUTED NUMBER INJURED IN VEHICLE
V_ALCH_IM	IMPUTED DRIVER DRINKING IN VEHICLE

6 imputed variables in Person:

EJECT_IM	IMPUTED EJECTION
SEX_IM	IMPUTED SEX
INJSEV_IM	IMPUTED INJURY SEVERITY
PERALCH_IM	IMPUTED POLICE REP. ALCOHOL INV.
SEAT_IM	IMPUTED SEATING POSITION
AGE_IM	IMPUTED AGE

The impact was very minor to overall estimates. However, we will re-issue the 2010 Overview Traffic Safety Fact Sheet with the revised numbers. The following table summarizes some changes resulting from the revised 2010 NASS GES file:

Original 2010 NASS GES File versus Re-imputed Updated File

Description					Rounded			
	Original	Revised	Change	% Change	Original	Revised	Change	% Change
Injury Crashes	1,545,629	1,542,104	-3,525	-0.23	1,546,000	1,542,000	-4,000	-0.26
PDO Crashes	3,843,498	3,847,045	3,547	0.09	3,843,000	3,847,000	4,000	0.10
Persons Injured	2,242,994	2,239,074	-3,920	-0.17	2,243,000	2,239,000	-4,000	-0.18
Occupants	2,030,986	2,027,222	-3,764	-0.19	2,031,000	2,027,000	-4,000	-0.20
<i>Passenger Car</i>	1,257,559	1,252,616	-4,943	-0.39	1,258,000	1,253,000	-5,000	-0.40
<i>Light Truck</i>	732,095	733,117	1,022	0.14	732,000	733,000	1,000	0.14
<i>Large Truck</i>	19,154	19,691	537	2.80	19,000	20,000	1,000	5.26
<i>Bus</i>	17,558	17,067	-491	-2.80	18,000	17,000	-1,000	-5.56
<i>Other/Unknown</i>	4,620	4,731	111	2.40	5,000	5,000	0	0.00
Motorcyclists	82,447	81,979	-468	-0.57	82,000	82,000	0	0.00
Non-occupants	129,561	129,873	312	0.24	130,000	130,000	0	0.00
<i>Pedestrian</i>	70,076	70,076	0	0.00	70,000	70,000	0	0.00
<i>Pedalcyclist</i>	51,449	51,761	312	0.61	51,000	52,000	1,000	1.96
<i>Other/Unknown</i>	8,037	8,037	0	0.00	8,000	8,000	0	0.00
Injured in Large Truck Crash	79,225	79,945	720	0.91	79,000	80,000	1,000	1.27
<i>Truck Occupants</i>	19,154	19,691	537	2.80	19,000	20,000	1,000	5.26
<i>Single Vehicle Crash</i>	8,738	9,053	315	3.60	9,000	9,000	0	0.00
<i>Multiple Vehicle Crash</i>	10,415	10,638	223	2.14	10,000	11,000	1,000	10.00
<i>Other People</i>	60,072	60,255	183	0.30	60,000	60,000	0	0.00
<i>Occ of Other Vehicle</i>	57,807	58,294	487	0.84	58,000	58,000	0	0.00
<i>Non-occupant</i>	2,265	1,960	-305	-13.47	2,000	2,000	0	0.00
Vehicles in Injury Crashes								
<i>Passenger Cars</i>	1,589,198	1,578,724	10,474	-0.66	1,589,000	1,579,000	-10,000	-0.63
<i>Light Trucks</i>	1,052,074	1,053,326	1,252	0.12	1,052,000	1,053,000	1,000	0.10
<i>Large Trucks</i>	56,997	58,268	1,271	2.23	57,000	58,000	1,000	1.75
<i>Motorcycles</i>	78,033	77,565	-468	-0.60	78,000	78,000	0	0.00
Vehicles in PDO Crashes								
<i>Passenger Cars</i>	3,751,403	3,753,670	2,267	0.06	3,751,000	3,754,000	3,000	0.08
<i>Light Trucks</i>	2,696,074	2,704,499	8,425	0.31	2,696,000	2,704,000	8,000	0.30
<i>Large Trucks</i>	214,579	213,940	-639	-0.30	215,000	214,000	-1,000	-0.47
<i>Motorcycles</i>	14,960	14,241	-719	-4.81	15,000	14,000	-1,000	-6.67