



U.S. Department  
of Transportation  
**National Highway  
Traffic Safety  
Administration**

# ODI RESUME

Investigation: EA 05-015  
Prompted By: PE05-033  
Date Opened: 10/13/2005  
Principal Investigator: Cynthia Glass  
Subject: Windshield leak causes electrical failure

Manufacturer: Ford Motor Company  
Products: 1999-2001 Ford Expedition  
Population: 653,471

Problem description: Water leaks around the windshield causing failure of various electrical components, including but not limited to the windshield wipers and headlamps.

## FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	39	1,464	1,503
Crashes/Fires:	0	0	0
Injury Incidents:	0	0	0
# Injuries:	0	0	0
Fatality Incidents:	0	0	0
# Fatalities:	0	0	0
Other*:	0	0	0

\*Description Of Other:

Action: This Engineering Analysis has been opened

Engineer: Cynthia Glass  
Div. Chief: Thomas Z. Cooper  
Office Dir.: Kathleen C. DeMeter

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Summary: ODI has received 39 reports alleging that water leaks around the windshield causing electrical failure of various components, including but not limited to the windshield wipers and headlamps. Ford reports that water entering the vehicle can wet the power distribution box (PDB) and the generic electronic module (GEM). These components control various electrical systems in the vehicle. An Engineering Analysis is opened to conduct further investigation of this issue and to assess the nature of the potential safety consequence.

*720-13-05*