

A Method for Estimating Mercury in Recalled Ford Vehicles

Comparison of Ford Production Data and Mercury Usage Data to Estimate Average Mercury Content

Note: All mercury information is based on the State of Vermont product disclosure for model year 2000. This analysis assumes that this information is accurate for 1995-2000 model year period.

Vehicle	Component	Production						Total Production	
		2000	1999	1998	1997	1996	1995		
F-Series Truck (F150-550)	Convenience Lighting Switches	939,468	824,789	879,906	819,414	814,013	764,853	5,042,443	
Crown Victoria	Convenience Lighting Switches	102,911	124,002	134,905	110,163	113,561	108,585	694,127	
Expedition	Convenience Lighting Switches	240,357	256,562	245,103	235,852	74,288	0	1,052,162	
Navigator	Convenience Lighting Switches	44,831	42,689	32,963	32,963	0	0	153,446	
Excursion	Convenience Lighting Switches	58,847	29,685	0	0	0	0	88,532	
Explorer	Convenience Lighting Switches and ABS Sensor	494,042	507,091	465,466	444,817	437,769	469,405	2,818,590	
Mountaineer	Convenience Lighting Switches and ABS Sensor	41,267	51,628	46,705	46,847	39,546	0	225,993	
Ranger	ABS Sensor	350,740	355,421	363,401	330,363	306,973	356,728	2,063,626	
	Total Production	2,272,463	2,191,867	2,168,449	2,020,419	1,786,150	1,699,571	12,138,919	
	Subtotal - Models with Convenience Lighting Option	1,921,723	1,836,446	1,805,048	1,690,056	1,479,177	1,342,843	10,075,293	
	Subtotal - Potential Models w/ mercury ABS	886,049	914,140	875,572	822,027	784,288	826,133	5,108,209	
	<i>Note: Convenience light was an option and was not installed on all production models.</i>								
	<i>Mercury containing ABS was only installed on 4 wheel drive versions of Explorers, Navigators & Rangers.</i>								

Source: Production Data from Wards Automotive & Automobile News

Ford Switch Usage Data (No. Switches)	Average No. Switches/Vehicle							
	Convenience Lighting	1,022,250	1,272,750	1,285,500	1,263,750	1,377,000	1,735,500	7,956,750
ABS Switches	340,750	424,250	428,500	421,250	459,000	578,500	2,652,250	
ABS Capsules (2 @ 1 g. per ABS Switch)	681,500	848,500	857,000	842,500	918,000	1,157,000	5,304,500	
Total	1,703,750	2,121,250	2,142,500	2,106,250	2,295,000	2,892,500	13,261,250	

Source: Ford Motor Company

Average No. Switches/Vehicle							
Lighting Switches Per Vehicle	0.5	0.7	0.7	0.7	0.9	1.3	0.8
ABS Switches Per Vehicle	0.4	0.5	0.5	0.5	0.6	0.7	0.5

Potential Mercury In Recalled Vehicles*

(*Based on 13 million recalled tires)

Recalled Vehicles	Mercury/Switches per Vehicle	Switches	Merc.(lbs.)
3,250,000	0.8	2,600,000	4,581
3,250,000	0.5	1,625,000	5,727
		4,225,000	10,308

Source: Calculation based on a comparison of Ford production data to Ford mercury use data.

Only mercury contained in lighting switches (4,581 pounds) can be recovered from in use vehicles.