

**U . S . DEPARTMENT OF TRANSPORTAION**  
**HAZARDOUS MATERIALS SAFETY**  
**HAZARDOUS MATERIALS INFORMATION SYSTEM**  
**HAZMAT SUMMARY BY Cause FOR 2006**

Cause	Incidents	INJURIES		Fatalities	Damages
		Hospitalized	Non-Hospitalized		
Abrasion	161	0	2	0	382,661
Broken Component or Device	232	1	6	0	464,155
Commodity Self-Ignition	6	0	2	0	32,837
Commodity Polymerization	5	0	0	0	29,085
Conveyer or Material Handling Equipment Mishap	119	0	1	0	46,243
Corrosion - Exterior	54	1	15	0	45,885
Corrosion - Interior	76	0	2	0	153,237
Defective Component or Device	1,365	2	1	0	623,939
Derailment	25	2	0	0	6,150,097
Deterioration or Aging	298	1	7	0	511,498
Dropped	2,430	0	5	0	293,424
Fire, Temperature, or Heat	22	0	1	0	1,629,017
Forklift Accident	1,821	3	58	0	530,830
Freezing	22	0	0	0	2,039
Human Error	2,056	6	42	0	1,759,845
Impact with Sharp or Protruding Object (e.g., nail)	1,177	0	0	0	955,102
Improper Preparation for Transportation	2,410	1	13	0	1,455,898
Inadequate Accident Damage Protection	38	0	0	0	211,050
Inadequate Blocking and Bracing	1,413	0	8	0	467,097
Inadequate Maintenance	11	0	0	0	19,223
Inadequate Preparation for Transportation	1,014	2	10	0	410,815
Inadequate Procedures	158	0	4	0	1,199,562
Inadequate Training	13	0	1	0	4,500
Incompatible Product	9	0	0	0	1,116,717
Incorrectly Sized Component or Device	12	0	1	0	16,748
Loose Closure, Component, or Device	1,877	7	7	0	761,334
Misaligned Material, Component, or Device	63	0	2	0	899,363
Missing Component or Device	50	3	3	0	842,954
Overfilled	192	0	1	0	207,148
Over-pressurized	104	1	1	0	252,164
Rollover Accident	126	4	1	4	14,082,321
Stub Sill Separation from Tank (Tank Cars)	3	0	0	0	0
Threads Worn or Cross Threaded	29	0	0	0	389,129
Too Much Weight on Package	675	0	3	0	154,490
Valve Open	296	0	22	0	36,592
Vandalism	3	0	0	0	1,000
Vehicular Crash or Accident Damage	115	2	2	0	24,682,137
Water Damage	12	0	0	0	0
Cause Not Reported	2,698	0	13	4	15,266,406
<b>Total - 2006</b>	<b>21,190</b>				

Note: Due to multiple causes being involved in a single incident, the totals above may not correspond to the totals in the other reports.