

U . S. DEPARTMENT OF TRANSPORTATION  
 HAZARDOUS MATERIALS SAFETY  
 HAZARDOUS MATERIALS INFORMATION SYSTEM  
 HAZMAT SUMMARY BY Mode of Transportation / Cause FOR 2006

Mode of Transportation / Cause	Incidents	INJURIES		Fatalities	Damages
		Hospitalized	Non-Hospitalized		
<b>Air</b>					
Abrasion	19	0	0	0	0
Broken Component or Device	4	0	0	0	0
Commodity Self-Ignition	1	0	0	0	0
Conveyer or Material Handling Equipment Mishap	15	0	0	0	1,500
Corrosion - Interior	1	0	0	0	0
Defective Component or Device	53	0	0	0	0
Deterioration or Aging	4	0	0	0	0
Dropped	179	0	0	0	3,000
Forklift Accident	47	0	2	0	10,931
Freezing	3	0	0	0	0
Human Error	70	0	0	0	9,098
Impact with Sharp or Protruding Object (e.g., nail)	54	0	0	0	576,138
Improper Preparation for Transportation	938	0	0	0	10,500
Inadequate Blocking and Bracing	4	0	0	0	2,050
Inadequate Preparation for Transportation	97	0	0	0	17,948
Inadequate Procedures	1	0	0	0	1,200
Loose Closure, Component, or Device	1	0	0	0	0
Misaligned Material, Component, or Device	1	0	0	0	1,950
Missing Component or Device	1	0	0	0	0
Overfilled	12	0	0	0	0
Over-pressurized	4	0	0	0	0
Rollover Accident	3	0	0	0	0
Stub Sill Separation from Tank (Tank Cars)	1	0	0	0	0
Too Much Weight on Package	14	0	0	0	0
Valve Open	63	0	0	0	0
Vandalism	1	0	0	0	0
Vehicular Crash or Accident Damage	4	0	0	0	0
Water Damage	3	0	0	0	0
Cause Not Reported	834	0	0	0	40,665

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<b>Highway</b>					
Abrasion	138	0	2	0	372,429
Broken Component or Device	204	1	5	0	376,809
Commodity Self-Ignition	5	0	2	0	32,837
Commodity Polymerization	5	0	0	0	29,085
Conveyer or Material Handling Equipment Mishap	98	0	1	0	16,875
Corrosion - Exterior	43	0	0	0	31,181
Corrosion - Interior	65	0	0	0	122,535
Defective Component or Device	1,254	2	1	0	499,743
Derailment	2	0	0	0	345,300
Deterioration or Aging	219	0	5	0	233,710
Dropped	2,243	0	5	0	217,990
Fire, Temperature, or Heat	21	0	1	0	1,589,396
Forklift Accident	1,770	3	56	0	508,799
Freezing	18	0	0	0	2,039
Human Error	1,940	6	42	0	1,659,965
Impact with Sharp or Protruding Object (e.g., nail)	1,115	0	0	0	327,564
Improper Preparation for Transportation	1,407	0	11	0	1,289,847
Inadequate Accident Damage Protection	37	0	0	0	0
Inadequate Blocking and Bracing	1,402	0	8	0	407,567
Inadequate Maintenance	8	0	0	0	7,985
Inadequate Preparation for Transportation	888	0	10	0	328,713
Inadequate Procedures	155	0	4	0	1,197,661
Inadequate Training	13	0	1	0	4,500
Incompatible Product	9	0	0	0	1,116,717
Incorrectly Sized Component or Device	7	0	0	0	0
Loose Closure, Component, or Device	1,600	3	3	0	366,229
Misaligned Material, Component, or Device	23	0	0	0	819,790
Missing Component or Device	29	3	1	0	812,889
Overfilled	161	0	1	0	151,034
Over-pressurized	64	1	1	0	201,881
Rollover Accident	122	4	1	4	14,082,321
Threads Worn or Cross Threaded	23	0	0	0	359,870
Too Much Weight on Package	652	0	3	0	116,227
Valve Open	215	0	21	0	25,768
Vandalism	2	0	0	0	1,000
Vehicular Crash or Accident Damage	108	2	2	0	24,469,829
Water Damage	9	0	0	0	0
Cause Not Reported	1,600	0	9	4	11,576,074

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	Incidents	Hospitalized	Non-Hospitalized	Hospitalized		
<b>Rail</b>						
Abrasion	4	0	0	0	0	10,232
Broken Component or Device	24	0	1	0	0	87,346
Conveyer or Material Handling Equipment Misha	5	0	0	0	0	13,500
Corrosion - Exterior	10	1	0	0	0	4,704
Corrosion - Interior	10	0	2	0	0	30,702
Defective Component or Device	58	0	0	0	0	124,196
Derailment	23	2	0	0	0	5,804,797
Deterioration or Aging	75	1	2	0	0	277,788
Dropped	8	0	0	0	0	72,434
Fire, Temperature, or Heat	1	0	0	0	0	39,621
Forklift Accident	4	0	0	0	0	11,100
Freezing	1	0	0	0	0	0
Human Error	45	0	0	0	0	76,414
Impact with Sharp or Protruding Object (e.g., nail)	8	0	0	0	0	51,400
Improper Preparation for Transportation	65	1	2	0	0	155,551
Inadequate Accident Damage Protection	1	0	0	0	0	211,050
Inadequate Blocking and Bracing	6	0	0	0	0	55,550
Inadequate Maintenance	3	0	0	0	0	11,238
Inadequate Preparation for Transportation	29	2	0	0	0	64,154
Inadequate Procedures	1	0	0	0	0	701
Incorrectly Sized Component or Device	5	0	1	0	0	16,748
Loose Closure, Component, or Device	273	4	4	0	0	395,105
Misaligned Material, Component, or Device	38	0	2	0	0	77,623
Missing Component or Device	20	0	2	0	0	30,065
Overfilled	19	0	0	0	0	56,114
Over-pressurized	34	0	0	0	0	48,783
Rollover Accident	1	0	0	0	0	0
Stub Sill Separation from Tank (Tank Cars)	2	0	0	0	0	0
Threads Worn or Cross Threaded	6	0	0	0	0	29,259
Too Much Weight on Package	9	0	0	0	0	38,263
Valve Open	18	0	1	0	0	10,824
Vehicular Crash or Accident Damage	3	0	0	0	0	212,308
Cause Not Reported	203	0	4	0	0	3,618,637
<b>Water</b>						
Conveyer or Material Handling Equipment Misha	1	0	0	0	0	14,368
Corrosion - Exterior	1	0	15	0	0	10,000
Human Error	1	0	0	0	0	14,368
Inadequate Blocking and Bracing	1	0	0	0	0	1,930
Inadequate Procedures	1	0	0	0	0	0
Loose Closure, Component, or Device	2	0	0	0	0	0
Misaligned Material, Component, or Device	1	0	0	0	0	0
Over-pressurized	2	0	0	0	0	1,500
Cause Not Reported	60	0	0	0	0	31,030

**Totals By Mode**

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Air Incidents	2,432	0	2	0	674,980
Highway Incidents	17,674	25	196	8	63,702,159
Rail Incidents	1,012	11	21	0	11,636,207
Water Incidents	130	0	15	0	104,226
<b>Total - 2006</b>	<b>21,188</b>	<b>36</b>	<b>234</b>	<b>8</b>	<b>76,086,542</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.