

**HAZARDOUS MATERIALS SAFETY
HAZARDOUS MATERIALS INFORMATION SYSTEM
HAZMAT SUMMARY BY Mode of Transportation / Cause FOR 2006**

Serious Incidents*

Mode of Transportation / Cause	Incidents	INJURIES		Fatalities	Damages
		Hospitalized	Non-Hospitalized		
Air					
Conveyer or Material Handling Equipment Mishap	2	0	0	0	0
Forklift Accident	5	0	2	0	1,772
Human Error	4	0	0	0	0
Impact with Sharp or Protruding Object (e.g., nail)	3	0	0	0	574,263
Improper Preparation for Transportation	1	0	0	0	0
Inadequate Preparation for Transportation	1	0	0	0	0
Cause Not Reported	1	0	0	0	0
Highway					
Abrasion	4	0	0	0	340,128
Broken Component or Device	10	1	1	0	331,970
Commodity Self-Ignition	1	0	2	0	31,337
Commodity Polymerization	1	0	0	0	650
Corrosion - Exterior	1	0	0	0	0
Corrosion - Interior	1	0	0	0	115,000
Defective Component or Device	14	2	0	0	175,372
Derailment	1	0	0	0	345,300
Deterioration or Aging	9	0	1	0	58,388
Dropped	7	0	0	0	146,253
Fire, Temperature, or Heat	7	0	1	0	1,439,204
Forklift Accident	15	3	2	0	76,300
Freezing	1	0	0	0	539
Human Error	64	6	24	0	1,064,722
Impact with Sharp or Protruding Object (e.g., nail)	5	0	0	0	26,333
Improper Preparation for Transportation	8	0	0	0	30,385
Inadequate Blocking and Bracing	9	0	3	0	61,150
Inadequate Maintenance	2	0	0	0	4,450
Inadequate Preparation for Transportation	5	0	8	0	44,705
Inadequate Procedures	3	0	0	0	1,161,842
Inadequate Training	1	0	1	0	4,500
Incompatible Product	2	0	0	0	1,116,717
Incorrectly Sized Component or Device	1	0	0	0	0
Loose Closure, Component, or Device	10	3	0	0	180,322
Misaligned Material, Component, or Device	2	0	0	0	804,450
Missing Component or Device	5	3	0	0	801,700
Overfilled	8	0	0	0	82,500
Over-pressurized	4	1	1	0	152,724
Rollover Accident	91	4	1	4	12,871,034
Threads Worn or Cross Threaded	2	0	0	0	359,870
Valve Open	4	0	19	0	13,000
Vehicular Crash or Accident Damage	62	2	2	0	23,592,972
Cause Not Reported	75	0	5	4	8,453,904

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		Hospitalized	Non-Hospitalized		
Rail					
Conveyer or Material Handling Equipment Mishap	1	0	0	0	2,500
Corrosion - Exterior	1	1	0	0	1,000
Corrosion - Interior	2	0	2	0	18,750
Defective Component or Device	1	0	0	0	528
Derailment	17	2	0	0	5,731,592
Deterioration or Aging	8	1	0	0	160,972
Human Error	4	0	0	0	7,400
Impact with Sharp or Protruding Object (e.g., nail)	2	0	0	0	4,500
Improper Preparation for Transportation	3	1	0	0	15,469
Inadequate Accident Damage Protection	1	0	0	0	211,050
Inadequate Blocking and Bracing	1	0	0	0	21,470
Inadequate Preparation for Transportation	2	2	0	0	1,052
Incorrectly Sized Component or Device	1	0	0	0	10,000
Loose Closure, Component, or Device	14	4	1	0	79,783
Misaligned Material, Component, or Device	3	0	0	0	17,780
Missing Component or Device	2	0	1	0	9,752
Overfilled	6	0	0	0	30,417
Over-pressurized	6	0	0	0	19,203
Vehicular Crash or Accident Damage	3	0	0	0	212,308
Cause Not Reported	21	0	2	0	713,031
Water					
Cause Not Reported	1	0	0	0	31,030
Totals By Mode					
Air Incidents	17	0	2	0	576,035
Highway Incidents	435	25	71	8	53,887,721
Rail Incidents	99	11	6	0	7,268,557
Water Incidents	2	0	0	0	62,060
Total - 2006	552	36	79	8	61,763,343

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

* PHMSA revised the definition of a serious incident in 2002. This is the current definition:

- a fatality or major injury caused by the release of a hazardous material,
- the evacuation of 25 or more persons as a result of release of a hazardous material or exposure to fire,
- a release or exposure to fire which results in the closure of a major transportation artery,
- the alteration of an aircraft flight plan or operation,
- the release of radioactive materials from Type B packaging,
- the release of over 11.9 gallons or 88.2 pounds of a severe marine pollutant, or
- the release of a bulk quantity (over 119 gallons or 882 pounds) of a hazardous material.