

U . S. DEPARTMENT OF TRANSPORTATION  
**HAZARDOUS MATERIALS SAFETY**  
**HAZARDOUS MATERIALS INFORMATION SYSTEM**  
**HAZMAT SUMMARY BY Mode of Transportation / Cause FOR 2005**

**Serious Incidents\***

Mode of Transportation / Cause	Incidents	INJURIES		Fatalities	Damages
		Hospitalized	Non-Hospitalized		
<b>Air</b>					
Abrasion	1	0	0	0	0
Broken Component or Device	1	0	0	0	8,500
Conveyer or Material Handling Equipment Misha	1	0	0	0	0
Defective Component or Device	1	0	0	0	0
Dropped	2	40	8	0	0
Forklift Accident	2	0	0	0	1,075
Human Error	3	0	0	0	0
Improper Preparation for Transportation	3	0	0	0	0
Over-pressurized	1	0	0	0	0
Valve Open	1	0	0	0	0
Cause Not Reported	2	1	3	0	3,000
<hr/>					
<b>Highway</b>					
Abrasion	3	0	1	0	137,500
Broken Component or Device	9	2	3	0	156,770
Conveyer or Material Handling Equipment Misha	5	0	0	0	96,826
Corrosion - Exterior	1	0	0	0	12,346
Corrosion - Interior	4	0	0	0	33,250
Defective Component or Device	17	1	9	1	186,340
Deterioration or Aging	12	0	1	0	74,769
Dropped	6	0	0	0	49,858
Fire, Temperature, or Heat	10	7	7	2	3,756,603
Forklift Accident	4	0	0	0	2,900
Freezing	2	0	0	1	100,000
Human Error	67	5	7	3	3,860,272
Impact with Sharp or Protruding Object (e.g., nail)	12	0	6	2	1,019,904
Improper Preparation for Transportation	8	2	1	0	92,977
Inadequate Accident Damage Protection	1	0	0	0	81,000
Inadequate Blocking and Bracing	5	0	1	0	86,045
Inadequate Preparation for Transportation	1	0	0	0	0
Inadequate Procedures	1	0	0	0	0
Loose Closure, Component, or Device	3	0	0	0	14,520
Misaligned Material, Component, or Device	1	0	0	0	0
Missing Component or Device	1	0	0	0	1,242
Overfilled	15	0	0	0	426,516
Over-pressurized	4	3	0	0	5,371
Rollover Accident	105	2	9	5	14,317,385
Too Much Weight on Package	1	2	1	0	0
Valve Open	2	0	0	0	7,509
Vehicular Crash or Accident Damage	68	0	18	3	6,155,658
Water Damage	1	0	0	0	60,000
Cause Not Reported	83	12	5	11	6,081,317

**HAZARDOUS MATERIALS SAFETY  
HAZARDOUS MATERIALS INFORMATION SYSTEM  
HAZMAT SUMMARY BY Mode of Transportation / Cause FOR 2005**

**Serious Incidents\***

Mode of Transportation / Cause	Incidents	INJURIES		Fatalities	Damages
		Hospitalized	Non-Hospitalized		
<b>Rail</b>					
Abrasion	1	0	0	0	6,056
Broken Component or Device	9	20	1	1	411,702
Commodity Polymerization	1	0	0	0	0
Corrosion - Interior	7	1	0	0	715,494
Defective Component or Device	10	0	6	0	81,459
Derailment	15	77	557	9	11,931,398
Deterioration or Aging	1	0	0	0	1,584
Freezing	1	0	0	0	1,800
Human Error	4	0	1	0	13,192
Impact with Sharp or Protruding Object (e.g., nail)	3	0	0	0	48,125
Inadequate Accident Damage Protection	1	0	0	0	15,500
Inadequate Blocking and Bracing	1	0	0	0	2,000
Inadequate Preparation for Transportation	2	0	1	0	1,000
Incompatible Product	1	1	0	0	656,066
Incorrectly Sized Component or Device	2	0	0	0	29,004
Loose Closure, Component, or Device	13	0	1	0	95,566
Misaligned Material, Component, or Device	1	0	0	0	16,928
Missing Component or Device	2	0	0	0	29,000
Overfilled	1	0	0	0	12,600
Over-pressurized	2	0	1	0	0
Rollover Accident	1	0	0	0	16,400
Threads Worn or Cross Threaded	1	0	0	0	6,260
Valve Open	1	0	0	0	2,700
Vehicular Crash or Accident Damage	1	0	0	0	1,368
Cause Not Reported	23	21	6	1	1,316,172
<b>Water</b>					
Dropped	1	0	0	0	65,500
Human Error	1	0	0	0	4,000
<b>Totals By Mode</b>					
Air Incidents	18	41	11	0	12,575
Highway Incidents	452	36	69	28	36,816,878
Rail Incidents	105	120	574	11	15,411,374
Water Incidents	3	0	0	0	73,500
<b>Total - 2005</b>	<b>577</b>	<b>197</b>	<b>654</b>	<b>39</b>	<b>52,310,327</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.

- \* 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.