

U . S. DEPARTMENT OF TRANSPORTATION  
**HAZARDOUS MATERIALS SAFETY**  
**HAZARDOUS MATERIALS INFORMATION SYSTEM**  
**HAZMAT SUMMARY BY Mode of Transportation / Cause FOR 2007**

**Serious Incidents\***

Mode of Transportation / Cause	Incidents	INJURIES		Fatalities	Damages
		Hospitalized	Non-Hospitalized		
<b>Air</b>					
Defective Component or Device	1	0	0	0	0
Dropped	4	0	0	0	0
Forklift Accident	1	0	0	0	650
Human Error	1	0	0	0	0
Impact with Sharp or Protruding Object (e.g., nail)	2	0	0	0	0
Improper Preparation for Transportation	1	0	0	0	0
Overfilled	1	0	0	0	0
Too Much Weight on Package	1	0	0	0	0
Valve Open	1	0	0	0	0
Cause Not Reported	1	0	1	0	3,500
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<b>Highway</b>					
Abrasion	2	0	0	0	225,632
Broken Component or Device	6	0	1	0	33,617
Corrosion - Interior	8	0	0	0	360,400
Defective Component or Device	10	3	0	1	1,234,624
Deterioration or Aging	13	2	0	0	309,030
Dropped	4	0	0	0	20,863
Fire, Temperature, or Heat	10	0	0	1	836,993
Forklift Accident	13	0	1	0	41,232
Freezing	2	0	0	0	8,720
Human Error	59	5	1	0	1,201,053
Impact with Sharp or Protruding Object (e.g., nail)	9	2	1	0	1,604,412
Improper Preparation for Transportation	7	0	1	0	74,480
Inadequate Accident Damage Protection	1	0	0	0	3,300
Inadequate Blocking and Bracing	4	0	2	0	32,325
Inadequate Maintenance	3	0	0	0	47,597
Inadequate Preparation for Transportation	3	0	0	0	31,000
Inadequate Training	2	0	0	0	85,425
Incompatible Product	1	0	0	0	1,200
Incorrectly Sized Component or Device	1	0	0	0	11,221
Loose Closure, Component, or Device	12	1	11	0	423,950
Misaligned Material, Component, or Device	3	0	0	0	38,000
Missing Component or Device	3	0	0	0	33,000
Overfilled	8	0	0	0	106,549
Over-pressurized	5	4	0	0	316,680
Rollover Accident	72	9	4	7	19,016,711
Too Much Weight on Package	1	0	0	0	0
Valve Open	5	1	1	0	6,320
Vandalism	2	0	0	0	237,582
Vehicular Crash or Accident Damage	61	2	25	1	10,758,391
Cause Not Reported	86	7	5	3	4,595,267

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Mode of Transportation / Cause	Incidents	INJURIES		Fatalities	Damages
		Hospitalized	Non-Hospitalized		
<b>Rail</b>					
Abrasion	1	0	0	0	20,000
Broken Component or Device	2	0	0	0	10,500
Corrosion - Exterior	1	0	0	0	64,740
Corrosion - Interior	1	0	0	0	21,000
Defective Component or Device	16	0	18	0	2,743,001
Derailment	17	0	0	0	22,334,477
Deterioration or Aging	5	0	2	0	32,372
Fire, Temperature, or Heat	1	0	0	0	989,600
Forklift Accident	1	0	0	0	8,891
Freezing	1	0	0	0	5,000
Human Error	6	0	0	0	215,802
Improper Preparation for Transportation	4	0	1	0	57,875
Inadequate Accident Damage Protection	1	0	0	0	1,000
Inadequate Preparation for Transportation	1	1	1	0	2,025
Loose Closure, Component, or Device	13	1	4	0	49,751
Misaligned Material, Component, or Device	4	1	0	0	24,271
Missing Component or Device	3	2	0	0	22,445
Overfilled	2	0	0	0	10,900
Over-pressurized	3	0	0	0	12,356
Rollover Accident	1	0	0	0	989,600
Threads Worn or Cross Threaded	1	0	0	0	1,760
Too Much Weight on Package	1	0	0	0	20,000
Valve Open	1	0	0	0	3,800
Vehicular Crash or Accident Damage	4	0	0	0	3,449,702
Cause Not Reported	15	0	2	0	15,100,549
<b>Water</b>					
Impact with Sharp or Protruding Object (e.g., nail)	1	3	0	0	0
<b>Totals By Mode</b>					
Air Incidents	14	0	1	0	4,150
Highway Incidents	416	36	53	13	41,695,574
Rail Incidents	106	5	28	0	46,191,417
Water Incidents	2	6	0	0	0
<b>Total - 2007</b>	<b>537</b>	<b>44</b>	<b>82</b>	<b>13</b>	<b>87,891,141</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.