### Page: 1

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

## Serious Incidents\*

## INJURIES

	INJURIES Non-						
Mode of Transportation / Cause	Incidents	Hospitalized	Hospitalized	Fatalities	Damages		
Air		<u> </u>	<u> </u>				
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		
Highway							
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		
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## U.S. DEPARTMENT OF TRANSPORTAION HAZARDOUS MATERIALS SAFETY HAZARDOUS MATERIALS INFORMATION SYSTEM HAZMAT SUMMARY BY Mode of Transportation / Cause FOR 2005

Serious Incidents\*

### INJURIES Non-

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

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

<sup>\*</sup> PHMSA revised the definition of a serious incident in 2002. This is the current definition:

<sup>-</sup> a fatality or major injury caused by the release of a hazardous material,

<sup>-</sup> the evacuation of 25 or more persons as a result of release of a hazardous material or exposure to fire,

<sup>-</sup> a release or exposure to fire which results in the closure of a major transportation artery,

<sup>-</sup> the alteration of an aircraft flight plan or operation,

<sup>-</sup> the release of radioactive materials from Type B packaging,

<sup>-</sup> the release of over 11.9 gallons or 88.2 pounds of a severe marine pollutant, or

<sup>-</sup> the release of a bulk quantity (over 119 gallons or 882 pounds) of a hazardous material.