

**U.S. DEPARTMENT OF TRANSPORTATION  
HAZARDOUS MATERIALS SAFETY**

**HAZARDOUS MATERIALS INFORMATION SYSTEM  
HAZMAT SUMMARY BY MODE / CAUSE FOR CALENDAR YEAR - 1999**

Mode / Cause	Incidents	SERIOUS INCIDENTS*		Deaths	Damages
		Major	Minor		
<b>Air</b>					
Human Error	14	0	0	0	6,355
Package Failure	2	0	0	0	1,050
Vehicular Accident/Derailment	0	0	0	0	0
Other	0	0	0	0	0
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<b>SUBTOTAL:</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,405</b>
<b>Highway</b>					
Human Error	194	18	33	2	3,305,181
Package Failure	71	11	15	0	981,337
Vehicular Accident/Derailment	184	6	1	7	18,422,959
Other	6	1	0	0	1,382,422
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<b>SUBTOTAL:</b>	<b>455</b>	<b>36</b>	<b>49</b>	<b>9</b>	<b>24,091,899</b>
<b>Railway</b>					
Human Error	13	1	0	0	1,025,502
Package Failure	17	2	1	0	273,575
Vehicular Accident/Derailment	37	0	0	0	25,387,154
Other	3	0	0	0	23,500
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<b>SUBTOTAL:</b>	<b>70</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>26,709,731</b>
<b>Water</b>					
Human Error	0	0	0	0	0
Package Failure	0	0	0	0	0
Vehicular Accident/Derailment	0	0	0	0	0
Other	0	0	0	0	0
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<b>SUBTOTAL:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Other</b>					
Human Error	0	0	0	0	0
Package Failure	0	0	0	0	0
Vehicular Accident/Derailment	0	0	0	0	0
Other	0	0	0	0	0
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<b>SUBTOTAL:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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<b>Total - 1999:</b>	<b>541</b>	<b>39</b>	<b>50</b>	<b>9</b>	<b>50,809,035</b>

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

\* RSPA revised the definition of a serious incident in 2002. This report uses 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.