

**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		
Air					
Human Error	15	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

SUBTOTAL:	17	0	0	0	7,405
Highway					
Human Error	194	18	33	2	3,305,181
Package Failure	71	11	15	0	981,337
Vehicular Accident/Derailment	186	6	1	7	18,512,959
Other	6	1	0	0	1,382,422

SUBTOTAL:	457	36	49	9	24,181,899
Railway					
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

SUBTOTAL:	70	3	1	0	26,709,731
Water					
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

SUBTOTAL:	0	0	0	0	0
Other					
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

SUBTOTAL:	0	0	0	0	0

Total - 1999:	544	39	50	9	50,899,035

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

* PHMSA 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.