

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

**HAZARDOUS MATERIALS INFORMATION SYSTEM
HAZMAT SUMMARY BY MODE / CAUSE FOR CALENDAR YEAR - 1997**

Mode / Cause	Incidents	SERIOUS INCIDENTS*		Deaths	Damages
		Major	Minor		
Air					
Human Error	9	0	1	0	100
Package Failure	4	0	0	0	2,551
Vehicular Accident/Derailment	0	0	0	0	0
Other	0	0	0	0	0

SUBTOTAL:	13	0	1	0	2,651
Highway					
Human Error	162	9	13	0	1,238,799
Package Failure	70	30	3	1	501,472
Vehicular Accident/Derailment	170	1	3	10	13,483,387
Other	7	0	0	1	543,198

SUBTOTAL:	409	40	19	12	15,766,856
Railway					
Human Error	17	0	0	0	100,665
Package Failure	21	1	1	0	176,826
Vehicular Accident/Derailment	22	0	5	0	5,552,814
Other	1	0	0	0	3,420

SUBTOTAL:	61	1	6	0	5,833,725
Water					
Human Error	1	0	0	0	13,000
Package Failure	0	0	0	0	0
Vehicular Accident/Derailment	0	0	0	0	0
Other	0	0	0	0	0

SUBTOTAL:	1	0	0	0	13,000
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 - 1997:	484	41	26	12	21,616,232

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.