

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

**HAZARDOUS MATERIALS INFORMATION SYSTEM
HAZMAT SUMMARY BY MODE / CAUSE FOR CALENDAR YEAR - 2002**

Mode / Cause	Incidents	Injuries		Deaths	Damages
		Major	Minor		
SERIOUS INCIDENTS*					
Air					
Human Error	11	0	0	0	0
Package Failure	1	0	0	0	0
Vehicular Accident/Derailment	1	0	0	0	12,000
Other	2	0	0	0	0

SUBTOTAL:	15	0	0	0	12,000
Highway					
Human Error	135	9	5	0	3,317,714
Package Failure	67	3	1	0	3,328,201
Vehicular Accident/Derailment	180	3	2	7	24,534,887
Other	9	1	1	1	405,912

SUBTOTAL:	391	16	9	8	31,586,714
Railway					
Human Error	17	0	0	0	127,816
Package Failure	31	1	1	0	1,208,807
Vehicular Accident/Derailment	19	0	1	1	5,337,841
Other	1	0	0	0	0

SUBTOTAL:	68	1	2	1	6,674,464
Water					
Human Error	3	0	0	0	13,383
Package Failure	0	0	0	0	0
Vehicular Accident/Derailment	0	0	0	0	0
Other	0	0	0	0	0

SUBTOTAL:	3	0	0	0	13,383
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 - 2002:	477	17	11	9	38,286,561

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.