

**U.S. DEPARTMENT OF TRANSPORTATION
HAZARDOUS MATERIALS SAFETY
HAZARDOUS MATERIALS INFORMATION SYSTEM
HAZMAT SUMMARY BY MODE / CAUSE FOR CALENDAR YEAR - 1999**

Mode / Cause	Incidents	Injuries		Deaths	Damages
		Major	Minor		
SERIOUS INCIDENTS*					
Air					
Human Error	10	0	3	0	6,187
Package Failure	2	0	1	0	0
Vehicular Accident/Derailment	0	0	0	0	0
SUBTOTAL:	12	0	4	0	6,187
Highway					
Human Error	55	18	52	2	1,906,100
Package Failure	20	11	12	0	434,762
Vehicular Accident/Derailment	307	6	9	7	23,065,382
Other	2	1	0	0	852,200
SUBTOTAL:	384	36	73	9	26,258,444
Railway					
Human Error	3	1	0	0	160
Package Failure	3	2	0	0	185,150
Vehicular Accident/Derailment	64	0	0	0	28,655,871
Other	1	0	0	0	23,500
SUBTOTAL:	71	3	0	0	28,864,681
Water					
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:	467	39	77	9	55,129,312

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 previous definition:

- a fatality or major injury caused by the release of a hazardous material,
- closure of a major transportation artery,
- the evacuation of 6 or more persons due to the presence of a hazardous material,
- a vehicle accident or derailment resulting in the release of a hazardous material