

**U.S. DEPARTMENT OF TRANSPORTATION
HAZARDOUS MATERIALS SAFETY
HAZARDOUS MATERIALS INFORMATION SYSTEM
HAZMAT SUMMARY BY MODE / CAUSE FOR CALENDAR YEAR - 1993**

Mode / Cause	Incidents	Injuries		Deaths	Damages
		Major	Minor		
SERIOUS INCIDENTS*					
Air					
Human Error	5	2	0	0	2,722
Package Failure	3	0	0	0	20,453
Vehicular Accident/Derailment	0	0	0	0	0
Other	1	2	3	0	0

SUBTOTAL:	9	4	3	0	23,175
Highway					
Human Error	47	14	100	0	201,051
Package Failure	17	1	59	0	1,729,576
Vehicular Accident/Derailment	217	13	48	14	11,262,952
Other	2	0	3	1	0

SUBTOTAL:	283	28	210	15	13,193,579
Railway					
Human Error	8	0	1	0	4,720
Package Failure	8	2	3	0	14,677
Vehicular Accident/Derailment	49	0	1	0	1,915,653
Other	1	0	4	0	0

SUBTOTAL:	66	2	9	0	1,935,050
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 - 1993:	358	34	222	15	15,151,804

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