

**U.S. DEPARTMENT OF TRANSPORTATION
HAZARDOUS MATERIALS SAFETY
HAZARDOUS MATERIALS INFORMATION SYSTEM
HAZMAT SUMMARY BY MODE / CAUSE**

Mode / Cause	Incidents	Injuries		Deaths	Damages
		Major	Minor		
CALENDAR YEAR 1998					
Air					
Human Error	1,274	1	19	0	152,846
Package Failure	103	0	0	0	113,282
Vehicular Accident/Derailment	2	0	0	0	0
Other	7	0	0	0	500

SUBTOTAL:	1,386	1	19	0	266,628
Highway					
Human Error	11,395	9	107	5	5,488,008
Package Failure	1,429	5	21	0	1,602,417
Vehicular Accident/Derailment	264	3	6	8	21,488,762
Other	23	0	0	0	89,420

SUBTOTAL:	13,111	17	134	13	28,668,607
Railway					
Human Error	613	2	6	0	651,113
Package Failure	322	1	9	0	260,972
Vehicular Accident/Derailment	50	1	3	0	15,320,681
Other	4	0	0	0	9,740

SUBTOTAL:	989	4	18	0	16,242,506
Water					
Human Error	5	0	0	0	984,721
Package Failure	6	0	2	0	30,210
Vehicular Accident/Derailment	0	0	0	0	0
Other	0	0	0	0	0

SUBTOTAL:	11	0	2	0	1,014,931
Others					
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 - 1998	15,497	22	173	13	46,192,672

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