

**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.