

**U.S. DEPARTMENT OF TRANSPORTATION  
HAZARDOUS MATERIALS SAFETY  
HAZARDOUS MATERIALS INFORMATION SYSTEM  
HAZMAT SUMMARY BY MODE / CAUSE FOR CALENDAR YEAR - 1997**

| Mode / Cause                  | Incidents  | Injuries  |           | Deaths    | Damages           |
|-------------------------------|------------|-----------|-----------|-----------|-------------------|
|                               |            | Major     | Minor     |           |                   |
| <b>SERIOUS INCIDENTS*</b>     |            |           |           |           |                   |
| <b>Air</b>                    |            |           |           |           |                   |
| Human Error                   | 9          | 0         | 4         | 0         | 6,184             |
| Package Failure               | 1          | 0         | 0         | 0         | 25                |
| Vehicular Accident/Derailment | 1          | 0         | 0         | 0         | 0                 |
| SUBTOTAL:                     | 11         | 0         | 4         | 0         | 6,209             |
| <b>Highway</b>                |            |           |           |           |                   |
| Human Error                   | 56         | 9         | 12        | 0         | 446,193           |
| Package Failure               | 24         | 30        | 3         | 1         | 217,074           |
| Vehicular Accident/Derailment | 264        | 1         | 10        | 10        | 17,871,071        |
| Other                         | 3          | 0         | 0         | 1         | 316,911           |
| SUBTOTAL:                     | 347        | 40        | 25        | 12        | 18,851,249        |
| <b>Railway</b>                |            |           |           |           |                   |
| Human Error                   | 5          | 0         | 0         | 0         | 43,000            |
| Package Failure               | 6          | 1         | 0         | 0         | 16,250            |
| Vehicular Accident/Derailment | 53         | 0         | 5         | 0         | 7,446,489         |
| Other                         | 2          | 0         | 0         | 0         | 905               |
| SUBTOTAL:                     | 66         | 1         | 5         | 0         | 7,506,644         |
| <b>Water</b>                  |            |           |           |           |                   |
| Vehicular Accident/Derailment | 0          | 0         | 0         | 0         | 0                 |
| Other                         | 0          | 0         | 0         | 0         | 0                 |
| SUBTOTAL:                     | 0          | 0         | 0         | 0         | 0                 |
| <b>Other</b>                  |            |           |           |           |                   |
| 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                 |
| <b>Total - 1997:</b>          | <b>424</b> | <b>41</b> | <b>34</b> | <b>12</b> | <b>26,364,102</b> |

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