

Statewide Hazmat Response Work Group

Extremely Hazardous Substance (EHS) Releases Calendar Year 2007

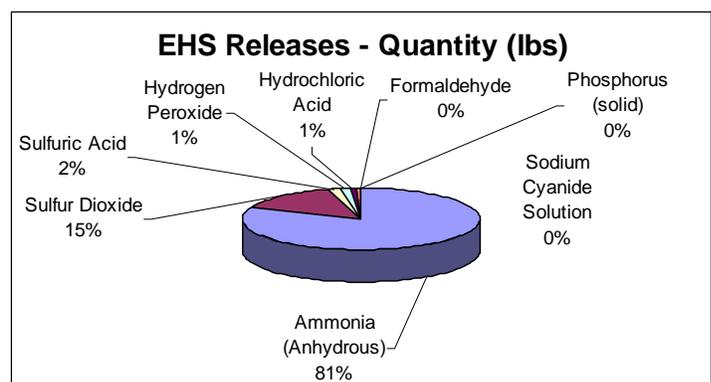
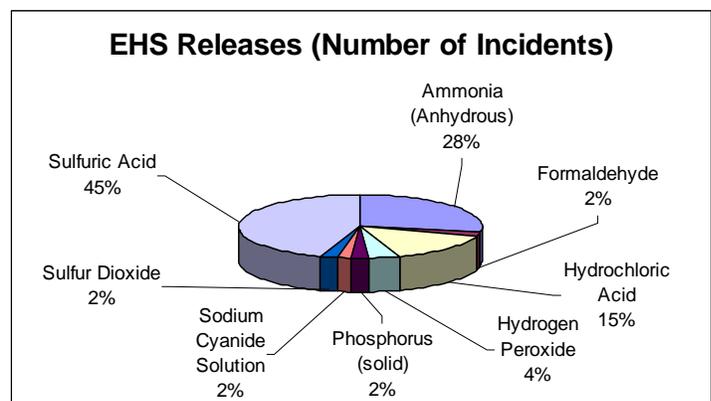
The State of Alaska experienced a total of 47 extremely hazardous substance (EHS) releases during Calendar Year 2007 (January 1 thru December 31, 2007).

EHS Releases by Substance and Quantity: The following is a breakdown of the EHS released over this 12-month period. To ensure consistency, the total volume released was converted to pounds, using a factor of 1 gallon = 8 pounds. Sulfuric acid accounted for 45% of the total number of releases, while anhydrous ammonia (28%) and hydrochloric acid (15%) releases were next. In terms of total quantity released, anhydrous ammonia releases constituted 81% of the total EHS released in Calendar Year 2007.

Substance	Number of Releases	Quantity (lbs)
Ammonia (Anhydrous)	13	27,996
Formaldehyde	1	2
Hydrochloric Acid	7	355
Hydrogen Peroxide	2	468
Phosphorus (solid)	1	1
Sodium Cyanide Solution	1	160
Sulfur Dioxide	1	5,030
Sulfuric Acid	21	551
Total	47	34,563

Significant EHS Releases: The significant EHS releases were as follows:

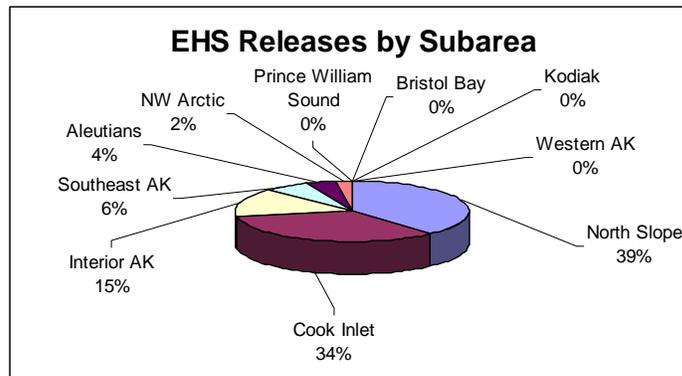
- 18,007 pounds of anhydrous ammonia (December 22, 2007 – Aleutians)
- 8,000 pounds of anhydrous ammonia (May 2, 2007 – Cook Inlet)
- 5,030 pounds of sulfur dioxide (April 24, 2007 – Cook Inlet)
- 600 pounds of anhydrous ammonia (May 2, 2007 – Cook Inlet)
- 450 pounds of anhydrous ammonia (September 28, 2007 – Cook Inlet)
- 450 pounds of anhydrous ammonia (September 28, 2007 – Cook Inlet)



EHS Releases by Location: In terms of EHS releases by subarea, the North Slope (39%) and Cook Inlet (34%) accounted for 73% of the total number of releases throughout the State. The remaining subareas (Interior, Aleutians, and NW Arctic) experienced seven or less releases, while Kodiak, Bristol Bay, Prince William Sound, and Western Alaska did not report any EHS releases for Calendar Year 2007.

(Note: In Calendar Year 2006, Interior Alaska (44%) and the North Slope (32%) accounted for 76% of the total releases.)

EHS Releases by Subarea	Number
Aleutians	2
Bristol Bay	0
Cook Inlet	16
Interior AK	7
Kodiak	0
NW Arctic	1
North Slope	18
Prince William Sound	0
Southeast Alaska	3
Western AK	0
Total	47



EHS Releases by Cause: Structural/Mechanical (56%), Human Factors (21%), and Other (21%) were the leading causes of 98% of the EHS releases in the State of Alaska for CY 2007.

EHS Releases By Cause	Number
Accident	0
Human Factors	10
Structural/Mechanical	26
Other	10
Unknown	1
Total	47

