

Statewide Hazmat Response Work Group

Extremely Hazardous Substance (EHS) Releases Calendar Year 2008

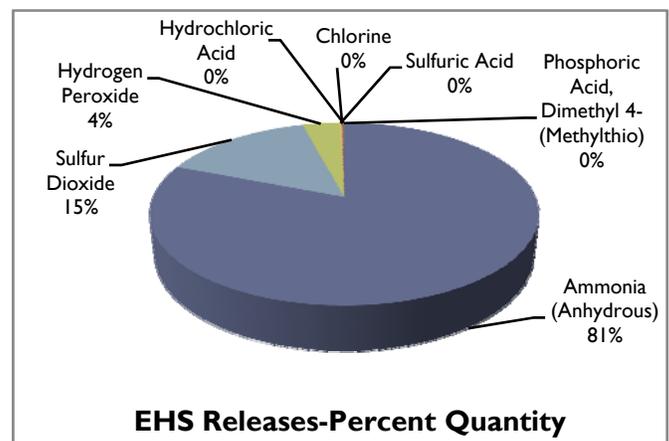
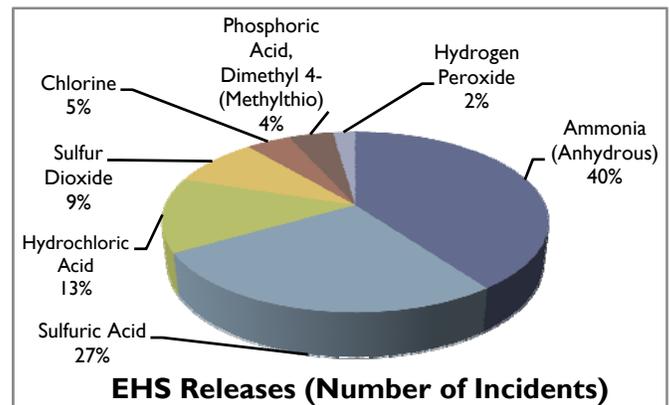
The State of Alaska experienced a total of 45 extremely hazardous substance (EHS) releases during Calendar Year 2008 (January 1 thru December 31, 2008).

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. Anhydrous ammonia accounted for 40% of the total number of releases, while 27% of the releases involved sulfuric acid. Hydrochloric acid (13%) and sulfur dioxide (9%) releases were next. In terms of total quantity released, anhydrous ammonia releases constituted 81% of the total EHS released in Calendar Year 2008 for the State of Alaska.

Substance	Number of Releases	Quantity (lbs)
Ammonia (Anhydrous)	18	65,557
Sulfuric Acid	12	153
Hydrochloric Acid	6	86
Sulfur Dioxide	4	12103
Chlorine	2	122
Phosphoric Acid, Dimethyl 4-(Methylthio)	2	9
Hydrogen Peroxide	1	3000
Total	45	81,030

Significant EHS Releases: The significant EHS for Calendar Year 2008 releases were as follows:

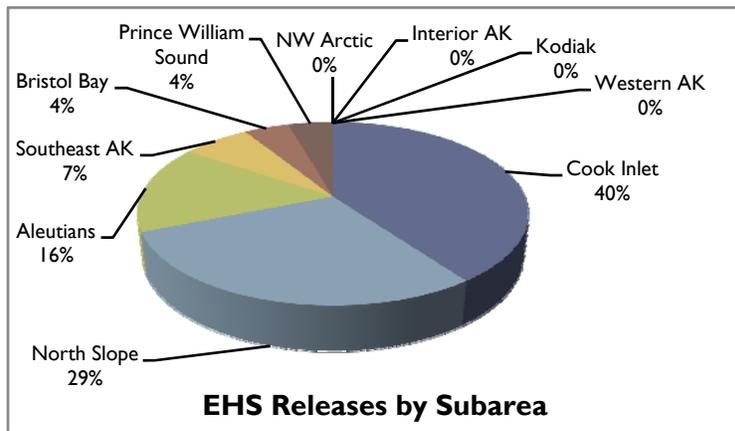
- 40,013 pounds of anhydrous ammonia (July 17, 2008 – Cook Inlet)
- 10,226 pounds of sulfur dioxide (July 10, 2008 – Cook Inlet)
- 8,000 pounds of anhydrous ammonia (July 21, 2008 – Bristol Bay)
- 5,900 pounds of anhydrous ammonia (July 20, 2008 – Cook Inlet)



EHS Releases by Location: In terms of EHS releases by subarea, Cook Inlet (40%) and North Slope (29%) accounted for 69% of the total number of releases throughout the State. The remaining subareas (Aleutians, Southeast, Bristol Bay, and Prince William Sound) experienced seven or less releases, while Kodiak, Interior, Northwest Arctic and Western Alaska did not report any EHS releases for Calendar Year 2008.

(Note: In Calendar Year 2007 the North Slope (39%) and Cook Inlet (34%) accounted for 73% of the total releases.)

EHS Releases by Subarea	Number
Cook Inlet	18
North Slope	13
Aleutians	7
Southeast AK	3
Bristol Bay	2
Prince William Sound	2
NW Arctic	0
Interior AK	0
Kodiak	0
Western AK	0
Total	45



EHS Releases by Cause: Structural/Mechanical (56%) and Human Factors (20%) were the leading causes for 76% of the EHS releases in the State of Alaska for CY 2008.

EHS Releases by Cause	Number
Structural/Mechanical	25
Human Factors	9
Other	7
Unknown	4
Accident	0
Total	45

