

## **Emissions Inventory**

The Division of Air Quality (DAQ) maintains an emissions inventory to determine permit classification, and establish or confirm compliance status. Individual facilities are responsible for providing proper and accurate estimates of their emissions. DAQ reviews and accepts these estimates. To determine the facilities that would be affected by the revised hydrogen sulfide (H<sub>2</sub>S) Ambient Air Levels (AALs), this database was studied.

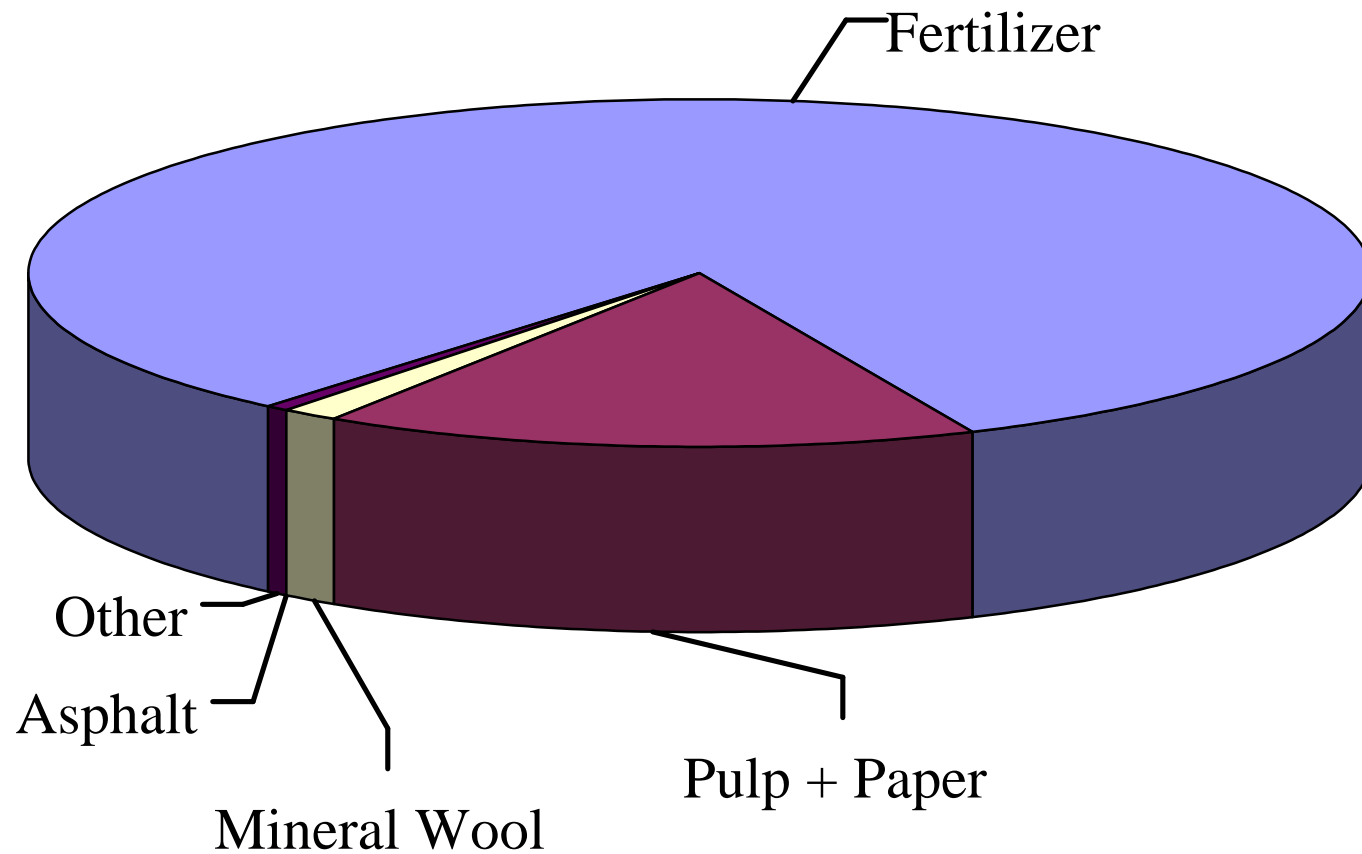
1999 was the most recent emissions inventory on file. Pounds per year were grouped into similar industrial source categories. The pie chart, Figure 1, presents the percentage breakdown as well as the total statewide emissions. Evident from the Figure is that fertilizer and pulp/paper are the major contributing industries. Absent are both Animal Operations and Publicly Owned Treatment Works (POTW), as neither are required to have an air permit or submit an emission inventory. Note that the 1999 emissions inventory contains actual emissions reflecting production experienced in a given year.

In May 2002, as a part of the H<sub>2</sub>S cost consideration effort, DAQ approached the fertilizer and pulp/paper industries to request their cooperation. As part of that discussion there was a discovery of a significant underestimation in the wastewater treatment emissions for most of the pulp mills. In November 2002 after a concerted effort the pulp industry revised their emission and resubmitted their emissions. The November 2002 data represents maximum hourly emissions multiplied by 8,760 (the number of hours in a year). Figure 2 presents the revised emission breakdown and new total emissions. Pulp/paper relative percentage jumped from 16% of the total to 44% of the statewide emissions. Again, animal operations and POTWs were excluded in the revised emission inventory for 2002.

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# Figure 1. Emissions Inventory (IMPAQ-1999)

Total = 4.2 Million lb H<sub>2</sub>S/yr



## Figure 2. Emissions Inventory (MCIC-11/7/02)

**Total = 11.9 Million lb H<sub>2</sub>S/yr**

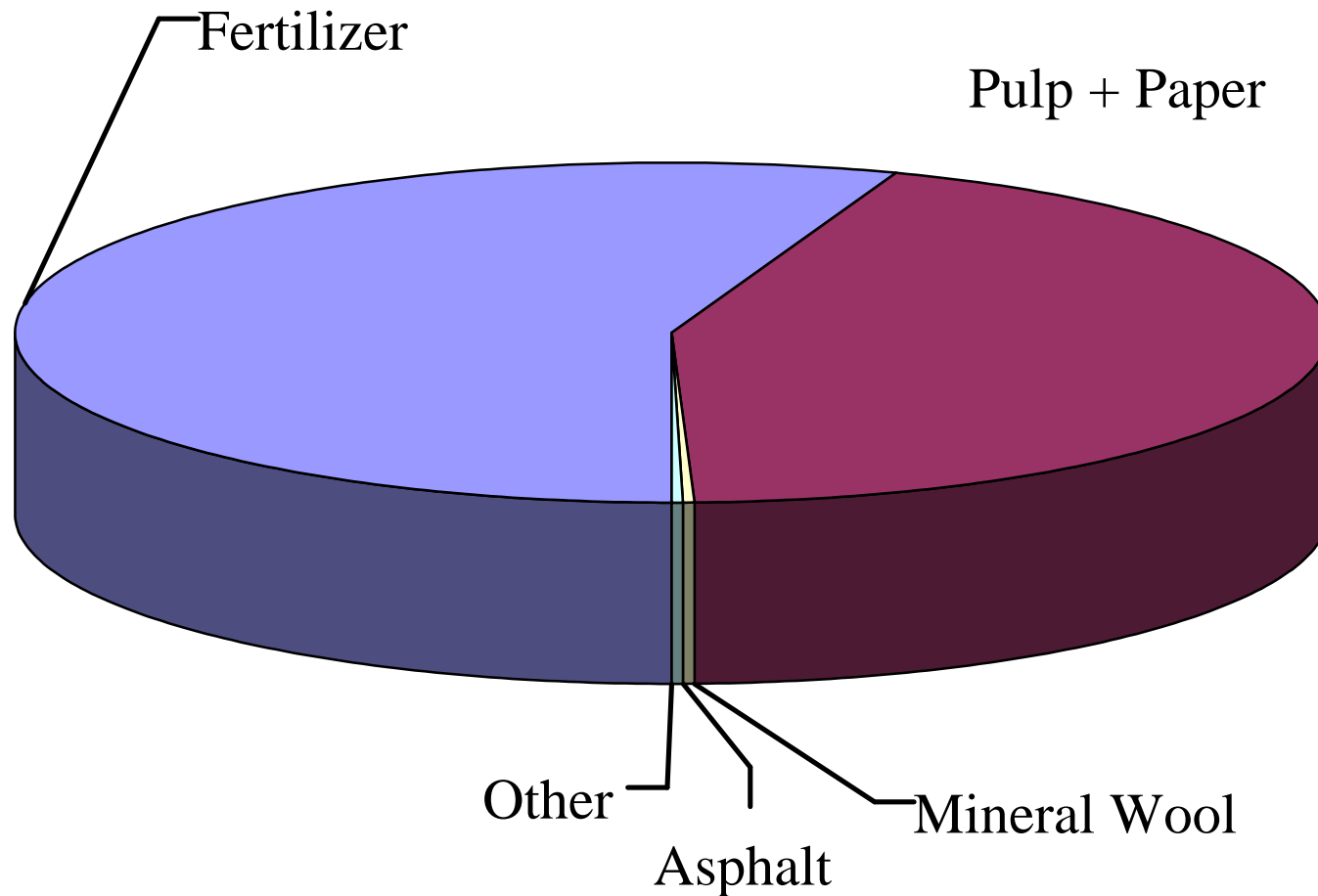


Table 1. Emissions Inventories

	1999 Emission Inventory Actual		2002 Revised Inventory Potential	
	Fertilizer	3,500,000	82%	6,617,304
Pulp + Paper	672,281	16%	5,226,277	44%
Mineral Wool	51,562	1%	51,562	0%
Asphalt	7,044	0%	7,044	0%
Other	19,263	0%	12,621	0%

Actual = Reflect production experienced in a given year.

Potential = Reflect maximum hourly emissions multiplied by 8,760 hr/yr.