

Appendix B. SO₂ Source Categories for the Emissions Inventory

SO₂ Source Categories for the Emissions Inventory

SO₂ emissions source categories and preliminary county emissions for 2017 in tons/year for Whatcom County are shown below.

Sources listed below marked with Status 'X' will be included in the inventory. Sources not marked for inclusion emit at insignificant levels, are intermittent, and do not generally occur near the NAA.

Fire categories (wildfire, agricultural burning, prescribed fire, open burning) do have SO₂ emissions associated with them but will not be included because they are unpredictable, uncontrollable, insignificant, intermittent, uncertain, and do not cause noticeable increases in ambient SO₂ concentrations.

Table 1: SO₂ Source Categories in Whatcom County (2017)

Status	Emissions Category	Type	Tons SO ₂ (2017)	% of Total SO ₂ (2017)	Within NAA?
X	Alcoa Primary Metals Intalco Works	Point	3,987.4	80.1%	Yes
X	BP Cherry Point Refinery	Point	828.0	16.6%	No
X	All other Title V point sources	Point	61.9	1.2%	No
X	Industrial/Commercial/Institutional fuel use (F_ICI)	Non-Point	34.0	0.7%	No
X	Ships (commercial marine vessels)	Non-Point	27.1	0.5%	Yes
X	Aircraft: military, commercial, general aviation	Point	8.6	0.2%	No
.	Residential open burning: yard waste, trash, land clearing	Non-Point	7.3	0.1%	No
X	Residential wood combustion (home heating)	Non-Point	6.8	0.1%	Yes
X	On-road mobile sources	On-Road	6.6	0.1%	Yes
.	Wildfires	Event	3.2	0.1%	No
X	Residential non-wood fuel use (F_RES)	Non-Point	2.6	0.1%	Yes
X	Non-road mobile equipment and vehicles (NEC)	Non-Road	0.8	0.0%	Yes
.	Prescribed (Silvicultural) open burning	Event	0.3	0.0%	No
.	Agricultural open burning	Non-Point	0.2	0.0%	No
X	Railroad (locomotives)	Non-Road	0.2	0.0%	Yes
.	Recreational boats	Non-Road	0.1	0.0%	Insignificant
.	Miscellaneous	Non-Point	0.1	0.0%	Insignificant