

# **Appendix H: Pennsylvania Toxic Emissions Inventory**

## **METHODOLOGY**

### **Mobile Source Methodology**

Pennsylvania's portion of the onroad and nonroad mobile sources toxic inventory for 1999 was taken directly from the US EPA NEI Hazardous Air Pollutants Inventory. For further information see: <http://www.epa.gov/ttn/chief/net/index.html#haps99>

## **INFORMATION**

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**Table H-1: Pennsylvania - Statewide Summary of Emissions (lb/yr)**

<b>POLLUTANT</b>	<b>Point Source</b>	<b>Area Source</b>	<b>Mobile Source</b>	<b>Non-road Source</b>	<b>TOTAL</b>
16-PAH	0	0	0	0.002	0.002
2,2,4-TRIMETHYLPENTANE	0	0	12902393.55	2937.549	12905331.1
ACENAPHTHENE	0	0	2085.87	0.495	2086.365
ACENAPHTHYLENE	0	0	10849.29	1.669	10850.959
ACETALDEHYDE	22200	0	1916897.13	588.6	1939685.73
ACROLEIN	3400	0	290849.91	73.227	294323.137
ACRYLONITRIL	2400	0	0	0	2400
ANTHRACENE	0	0	2525.9	0.314	2526.214
ANTIMONY	3800	0	0	0	3800
ARSENIC	5800	0	0	0.014	5800.014
ARSENIC & COMPOUNDS (INORGANIC INCLUDING ARSINE)	0	0	1589.1	0.065	1589.165
BENZENE	135800	4680390.76	12265350.44	2351.97	17083893.17
BENZO[A]PYRENE	0	0	394.95	0.042	394.992
BENZO[B]FLUORANTHENE	0	0	429.63	0.029	429.659
BENZO[G,H,I,]PERYLENE	0	0	740	0.183	740.183
BENZO[K]FLUORANTHENE	0	0	429.63	0.027	429.657
BENZ[A]ANTHRACENE	0	0	671.98	0.07	672.05
BERYLLIUM	400	0	0	0	400
BERYLLIUM & COMPOUNDS	0	0	0	0.007	0.007
BUTADIENE,13	2000	48272.36	1812440.34	321.282	1863033.982
CADMIUM	9200	0	0	0.004	9200.004
CADMIUM & COMPOUNDS	0	0	0	0.007	0.007
CARBON TETRA	7200	0	0	0	7200
CHLOROFORM	65200	0	0	0	65200
CHROMIUM	13800	0	0	0	13800
CHROMIUM (VI)	0	0	413.96	0.004	413.964
CHROMIUM III	0	0	622.12	0.009	622.129
CHRYSENE	0	0	335.75	0.031	335.781
COBALT	7800	0	0	0	7800
DIBENZO[A,H]ANTHRACENE	0	0	0.02	0	0.02
DIBUTYL PHTH	3600	2075.4	0	0	5675.4
DICHLORETH12	600	0	0	0	600
DIEYLHEX PHT	8400	0	0	0	8400
ETHYLBENZENE	185600	1268777.46	5286715.09	1515.518	6742608.068
ETHYLENE OXI	6400	0	0	0	6400
FLUORANTHENE	0	0	2606.66	0.656	2607.316
FLUORENE	0	0	4354.34	1.141	4355.481
FORMALDEHYDE	376200	1002858.5	5896898.46	1458.945	7277415.905
GLYCOL ETHRS	510600	0	0	0	510600
HEXANE	0	0	4599317.68	966.093	4600283.773
INDENO[1,2,3-C,D]PYRENE	0	0	202.39	0.033	202.423
LEAD	58800	0	0	12.907	58812.907
LEAD & COMPOUNDS	0	0	0	0.043	0.043
MANGANESE	26400	0	0	0.031	26400.031
MANGANESE & COMPOUNDS	0	0	353.06	0	353.06
MERCURY	5008	0	0	0.022	5008.022
MERCURY & COMPOUNDS	0	0	1773.95	0.05	1774
METHYL TERT-BUTYL ETHER	0	0	4548375.29	1059.612	4549434.902
METHYLENE CL	1996200	2114602.74	0	0	4110802.74
NAPHTHALENE	140600	947157.78	288268.32	35.399	1376061.499
NICKEL	48400	0	0	0.933	48400.933
NICKEL & COMPOUNDS	0	0	787.02	0.002	787.022
PERC	44400	4988543.54	0	0	5032943.54
PHENANTHRENE	0	0	7125.9	2.422	7128.322
PHENOL	114200	0	0	0	114200
PROPIONALDEHYDE	0	0	316980.02	131.971	317111.991
PYRENE	0	0	3643.91	0.843	3644.753
SELENIUM	0	0	0	0.006	0.006
STYRENE	1231200	75632.26	1057151.79	86.227	2364070.277
TCE,111	19400	13073387.2	0	0	13092787.2
TOLUENE	3061200	47727470.34	35522758.84	7072.242	86318501.42
TRICHLORETHY	1211800	11880644.54	0	0	13092444.54
VINYL CHLOR	115600	0	0	0	115600
XYLENE, M	14000	0	0	0	14000

<b>POLLUTANT</b>	<b>Point Source</b>	<b>Area Source</b>	<b>Mobile Source</b>	<b>Non-road Source</b>	<b>TOTAL</b>
XYLENE,O	12400	4905289.42	0	0	4917689.42
XYLENE,P	10000	0	0	0	10000
XYLENES ISO	1322400	13305361.5	20086806.07	6236.902	34720804.47

## Pennsylvania – Pollutant Codes

Code	Pollutant	CAS Number
ACETALDEHYDE	Acetaldehyde	75-07-0
ACROLEIN	Acrolein	107-02-8
ACRYLONITRIL	Acrylonitrile	107-13-1
ANTIMONY	Antimony	7440-36-0
ARSENIC	Arsenic	7440-38-2
BENZENE	Benzene	71-43-2
BERYLLIUM	Beryllium (and compounds)	7440-41-7
BUTADIENE,13	1,3-Butadiene	106-99-0
CADMIUM	Cadmium	7440-43-9
CARBON TETRA	Carbon Tetrachloride	56-23-5
CHLOROFORM	Chloroform	67-66-3
CHROMIUM	Chromium	7440-47-3
COBALT	Cobalt	7440-48-4
DIBUTYL PHTH	Dibutyl Phthalate	84-74-2
DICHLORETH12	1,2-Dichloroethane	107-06-2
DIEYLHEX PHT	Diethylhexyl Phthalate	117-81-7
ETHYLBENZENE	Ethylbenzene	100-41-4
ETHYLENE OXI	Ethylene Oxide	75-21-8
FORMALDEHYDE	Formaldehyde	50-00-0
GLYCOL ETHRS	Glycol Ethers	52286-19-8
LEAD	Lead	7439-92-1
MANGANESE	Manganese	7439-96-5
MERCURY	Mercury	7439-97-6
METHYLENE CL	Methylene Chloride	75-09-2
NAPHTHALENE	Naphthalene	91-20-3
NICKEL	Nickel	7440-02-0
PERC	Perchloroethylene	127-18-4
PHENOL	Phenol	108-95-2
STYRENE	Styrene	100-42-5
TCE,111	1,1,1-Trichloroethane	71-55-6
TOLUENE	Toluene	108-88-3
TRICHLORETHY	Trichloroethylene	79-01-6
VINYL CHLOR	Vinyl Chloride	75-01-4
XYLENE, M	m-Xylene	108-38-3
XYLENE, O	o-Xylene	95-47-6
XYLENE, P	p-Xylene	106-42-3
XYLENE, ISO	Xylenes Isomers	1330-20-7