

***What are the primary Hazardous Air Pollutant  
(HAP) emissions in the Slavic Village  
neighborhood for the year 2002?***

***Prepared by the U.S. Environmental Protection Agency for***

***The Cleveland Clean Air Century Campaign  
<<http://www.ohiolung.org/ccacc.htm>>***

**What are the primary Hazardous Air Pollutant (HAP) emissions in the Slavic Village neighborhood?**

**Mobile Sources**

Mobile source emissions were estimated for Cuyahoga County as a whole and not down to the level of the Slavic Village neighborhood. It is very difficult to develop inventories for specific communities because very detailed data are required. Much of this information, such as the hours an individual lawn mower operates during a specific period of time, is very difficult to obtain. However, based on available data and observations, mobile emissions in Slavic Village can be characterized as follows.

- On-road vehicles should be considered significant sources, specifically in “stop and go” traffic areas such as Broadway and Union Avenues. Traffic along Interstate 77 may also be a significant source of pollutants.
- Emissions from commercial and industrial engines may be significant near facilities that extensively use portable generators, welding equipment, compressors, and fork lifts.
- Emissions from trains traveling through the northern part of the Slavic Village community tend to be less significant than most other sources, as they occur sporadically and are in the community for only brief periods of time. There is a large rail yard to the west of the community, however, there are no data to indicate that these emissions would have much effect on the community’s air quality.

**Nonpoint Sources**

Nonpoint sources were estimated for all of Cuyahoga County, not individual communities. However, based on available data and on site visits to this neighborhood, a number of nonpoint sources were identified that are important contributors to local air quality concerns. These source categories include residential heating, industrial boilers, dry cleaning, auto body shops, gas stations, and chromium plating.

**Point Sources**

61,537 people = 4.5% of Cuyahoga population  
 9 facilities in inventory = 5.5% of facilities inventoried  
 16 tons per year urban HAP = 5.5% of HAP inventoried

<b><u>Point Source HAP - Slavic Village</u></b>		
	<u>Tons</u>	<u>% of County Emissions</u>
Manganese	8.6	3
Nickel	4.5	1.6
Lead	0.8	0.3
Benzene	0.5	0.2
Trichloroethylene	0.5	0.2
Formaldehyde	0.1	0.04
Other HAP	<u>0.45</u>	<u>0.2</u>
	15.5 tpy	5.5 %

<b><u>Top 5 Point Sources - Slavic Village</u></b>		
	<u>Tons</u>	<u>% of County Emissions</u>
ISG Cleveland	13.5	5
Alcoa-Cleveland Works	0.5	0.1
Whitmore Mfg.	0.5	0.1
Victory White Metal	0.5	0.1
Sun Refining	<u>0.4</u>	<u>0.1</u>
	15.4 tpy	5.9%

***Which industries in the Slavic Village neighborhood are included in the inventory?***

Alcoa  
Charter Steel  
Chromium Corp.

ISG Cleveland  
Sun Refining & Manufacturing Co., Inc.

Victory White Metal  
Whitmore Manufacturing  
Wood Plating Work Co.

## Emissions of Industries in Slavic Village

<b>ALCOA</b>	
<b>1600 Harvard Avenue</b>	
<b>Cuyahoga Heights, Ohio</b>	
	<b>Total 1,016.89 lbs/yr</b>
Acetaldehyde	7.40
Acrolein	3.56
Arsenic	0.85
Benzene	0.32
Beryllium	0.63
Cadmium	0.63
Chromium	230.00
Dioxins/Furans	4.30E-08
Ethylene Dichloride	0.49
Formaldehyde	50.76
Lead	2.50
Manganese	5.00
Mercury	0.63
Methylene Chloride	3.56
Nickel	710.00
Perchloroethylene	0.53
Polycyclic Organic Matter	0.02
<b>Charter Steel</b>	
<b>7840 Wire Avenue</b>	
<b>Cleveland, Ohio</b>	
	<b>Total 0.96 lbs/yr</b>
Acetaldehyde	1.62E-04
Benzene	0.03
Formaldehyde	0.93
<b>Chromium Corporation</b>	
<b>8701 Union Avenue</b>	
<b>Cleveland, Ohio</b>	
	<b>Total 10.00 lbs/yr</b>
Chromium	10.00

<b>ISG Cleveland, Inc.</b>	
<b>3060 Eggers Avenue</b>	
<b>Cleveland, Ohio</b>	
	<b>Total 27,061.08 lbs/yr</b>
Acetaldehyde	16.96
Acrolein	5.59
Arsenic	12.29
Benzene	270.03
Beryllium	0.44
Cadmium	5.39
Chromium	1.50
Dioxins/Furans	21.44
Ethylene Dichloride	6.74E-08
Formaldehyde	8.32
Lead	164.05
Manganese	544.30
Mercury	16.18
Methylene Chloride	5.59
Nickel	8,366.91
Perchloroethylene	203.53
Polycyclic Organic Matter	0.02
Trichloroethylene	74.24
<b>Sun Refining and Marketing Company, Inc.</b>	
<b>3200 Independence Road</b>	
<b>Cleveland, Ohio</b>	
	<b>Total 811.85 lbs/yr</b>
Benzene	811.85
<b>Victory White Metal Company, Inc.</b>	
<b>7000 Hubbard Avenue</b>	
<b>Cleveland, Ohio</b>	
	<b>Total 1,000.00 lbs/yr</b>
Trichloroethylene	1,000.00
<b>Woodhill Plating Work Company</b>	
<b>9114 Reno Avenue</b>	
<b>Cleveland, Ohio</b>	
	<b>Total 1.00 lbs/yr</b>
Chromium	1.00