

Common Sense Initiative, Automobile Manufacturing Sector

*U.S. Automobile Assembly Plants and Their Communities:
Environmental Economic, and Demographic Profile*

**Part III: Automobile/Light Duty Truck Assembly
Plant-Community Profiles**

**45. General Motors
Lordstown, OH**

December 1997

Contents and Guidelines for Use

Users of this profile should carefully review the description of methods, data limitations, and guidelines for use and interpretation of the data presented in Part I of the report.

Contents:

Plant Locations (National and Michigan maps)
Plant Location, Database Identification Numbers, 1994 Production and Employment
1991 and 1993 RCRA Biennial Report Summary
1991-1994 TRI Releases and Transfers Summary
1994 TRI Releases and Transfers by Chemical
1991-1994 Volatile Organic Compound and Nitrogen Oxide Emissions
1994 Summary of TRI Chemical Releases and Transfers from Sources within 3 Miles of Assembly Plant
Air Quality Attainment Status for Criteria Pollutants (as of 1994)
Community Demographic and Economic Characteristics
Facility Location (map)
Area Wide 1994 TRI Emission Profile (map)
1994 TRI Releases and Transfers from Sources within 3 Miles of Assembly Plant, by Chemical
Demographic Characteristics (maps)

General Guidelines for Use

Efforts have been made to ensure that the data presented here are accurate. The Project Team could not independently verify data accuracy in all cases, however, and some errors may remain. The following is a partial list of factors that should be considered in using these profiles:

1. Current releases presented in this report represent only some of the contamination sources in a given area. Data on historical releases (prior to 1991) were not included, and releases from non-assembly plant emission sources were identified only through the Toxics Release Inventory (TRI). TRI data do not cover all sources of releases. Considering only TRI data for a given community may mis-state the relative contribution of plants and their neighboring TRI facilities to an area's total releases.
2. Care must be taken to distinguish true changes over time in environmental releases from apparent changes, due, for example, to changes in the scope of reporting requirements.
3. TRI data are often based on engineering estimates and are reported on an annual basis. Data on releases over shorter time frames are not available.
4. TRI, the Biennial Report and other databases do not include all substances and environmental releases of concern.

Notes on Comparisons Across Facilities

1. The following factors can affect an assembly plant's environmental profile, among other things: the number of vehicles produced, plant age, process equipment age, and vehicle size and configuration.
2. Some plants are highly-integrated, performing some parts and all assembly steps in-house. Others obtain parts from other manufacturing facilities, or share assembly operations with another plant.
3. States differ in how they define hazardous waste and how they treat recycled wastes and small quantity generators. Therefore, data on quantities of BRS wastes generated may not be comparable for plants located in different states.
4. Area-wide averages for economic and demographic characteristics may be better or worse measures of the plant's immediate community, depending on the specific location of a plant within the reporting area.

**Plant-Community Profile:
General Motors
Lordstown OH**

12/2/97

LOCATION	Address	2300 Hallock Young Rd., Lordstown OH 44481	DESCRIPTION	Produced Chevrolet Cavalier and Pontiac Sunbird in 1994.		
	Lat/Long:	latitude (degrees N) 41 8' 15" longitude (degrees W) 80 52' 40"				
	County:	Trumbull MSA: Youngstown-Warren OH	ID NUMBERS	RCRA ID	OHD020632998	
	Other counties within 3 miles of plant:	Mahoning		AIRS ID	AFS3915500176	
			NPDES ID	-		
			TRI	44482BCLRD2300H		

OPERATIONS	Production	Employment
Calendar Year: 1991	436,045	
1992	315,719	
1993	399,512	
1994	232,362	8,817

PLANT ENVIRONMENTAL PROFILE

RCRA BIENNIAL REPORT

<i>Waste Code(s)</i>	<i>Wastewater?</i>	<i>Physical Form</i>	<i>Source</i>	<i>Mgd. On/Off-Site</i>	<i>Management Method</i>	<i>Quantity Generated (tons)</i>	<i>Quantity Shipped (tons)</i>	<i>Quantity Mgd. On-Site (tons)</i>
1991								
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	2.4	2.4	0.0
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	4.6	4.6	0.0
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	1.4	1.4	0.0
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	2.3	2.3	0.0
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	3.5	3.5	0.0
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	2.3	2.3	0.0
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	1.3	1.3	0.0
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	0.7	0.7	0.0
D001 (ignitable) D039 (tetrachlorethylene)	?	Not rep't	Not rep't	Off	Not rep't	11.8	11.8	0.0
D001 (ignit) F003 (solvents)	?	Not rep't	Not rep't	Off	Not rep't	179.8	179.8	0.0
D001 (ignit) F003 (solvents)	?	Not rep't	Not rep't	Off	Not rep't	29.7	29.7	0.0
D001 (ignit) F003 (solvents)	?	Not rep't	Not rep't	Off	Not rep't	0.7	0.7	0.0
D001 (ignit) F003 (solvents)	?	Not rep't	Not rep't	Off	Not rep't	15.0	15.0	0.0
D001 (ignit) F003, F005 (solvents)	?	Not rep't	Not rep't	Off	Not rep't	46.8	46.8	0.0
D001 (ignit) F003, F005 (solvents)	?	Not rep't	Not rep't	Off	Not rep't	819.5	819.5	0.0
D001 (ignit) F005 (solvents)	?	Not rep't	Not rep't	Off	Not rep't	0.7	0.7	0.0
D001 (ignitable) D035 (MEK)	?	Not rep't	Not rep't	Off	Not rep't	0.2	0.2	0.0
D001 (ignitable) D035 (MEK)	?	Not rep't	Not rep't	Off	Not rep't	1.6	1.6	0.0
D001 (ignitable) D035 (MEK)	?	Not rep't	Not rep't	Off	Not rep't	0.2	0.2	0.0
D001, D027, F002, F003	?	Not rep't	Not rep't	Off	Not rep't	3.4	3.4	0.0
D002 (corrosive)	?	Not rep't	Not rep't	Off	Not rep't	10.1	10.1	0.0
D002 (corrosive)	?	Not rep't	Not rep't	Off	Not rep't	1.9	1.9	0.0
D002 (corrosive)	?	Not rep't	Not rep't	Off	Not rep't	0.9	0.9	0.0
D002 (corrosive)	?	Not rep't	Not rep't	Off	Not rep't	1.0	1.0	0.0
D002 (corrosive)	?	Not rep't	Not rep't	Off	Not rep't	1.0	1.0	0.0
D002, D007, D009	?	Not rep't	Not rep't	Off	Not rep't	0.2	0.2	0.0
D006 (cadmium) D008 (lead)	?	Not rep't	Not rep't	Off	Not rep't	223.0	223.0	0.0
D008 (lead)	?	Not rep't	Not rep't	Off	Not rep't	30.2	30.2	0.0
D008 (lead)	?	Not rep't	Not rep't	Off	Not rep't	26.7	26.7	0.0

(continued)

**Plant-Community Profile:
General Motors
Lordstown OH**

12/23/97

RCRA BIENNIAL REPORT (continued)

<i>Waste Code(s)</i>	<i>Wastewater?</i>	<i>Physical Form</i>	<i>Source</i>	<i>Mgd. On/Off-Site</i>	<i>Management Method</i>	<i>Quantity Generated (tons)</i>	<i>Quantity Shipped (tons)</i>	<i>Quantity Mgd. On-Site (tons)</i>
<i>1991 (continued)</i>								
D008, D036, F002	?	Not rep't	Not rep't	Off	Not rep't	1.8	1.8	0.0
D009 (mercury)	?	Not rep't	Not rep't	Off	Not rep't	4.2	4.2	0.0
D027, F002	?	Not rep't	Not rep't	Off	Not rep't	0.5	0.5	0.0
F003 (nonhalog. solvents)	?	Not rep't	Not rep't	Off	Not rep't	848.4	848.4	0.0
F003, F005 (nonhalog. solvents)	?	Not rep't	Not rep't	Off	Not rep't	62.0	62.0	0.0
F003, F005 (nonhalog. solvents)	?	Not rep't	Not rep't	Off	Not rep't	0.6	0.6	0.0
TOTAL - 1991						2,340.1	2,340.1	0.0
<i>1993</i>								
D001 (ignit.) F003, F005 (solvents)	?	Not rep't	Not rep't	Off	Not rep't	29.4	29.4	0.0
D001 (ignit.) F003, F005 (solvents)	?	Not rep't	Not rep't	Off	Not rep't	23.0	23.0	0.0
D001 (ignit.) F003, F005 (solvents)	?	Not rep't	Not rep't	Off	Not rep't	10.7	10.7	0.0
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	6.2	6.2	0.0
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	2.5	2.5	0.0
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	2.4	2.4	0.0
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	2.4	2.4	0.0
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	5.2	5.2	0.0
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	0.6	0.6	0.0
D001 (ignitable)	?	Not rep't	Not rep't	Off	Not rep't	1.7	1.7	0.0
D001(ignitable) D039 (tetrochlethylene)	?	Not rep't	Not rep't	Off	Not rep't	10.0	10.0	0.0
D001(ignitable) F003 (solvents)	?	Not rep't	Not rep't	Off	Not rep't	177.1	177.1	0.0
D002 (corrosive)	?	Not rep't	Not rep't	Off	Not rep't	2.1	2.1	0.0
D002 (corrosive)	?	Not rep't	Not rep't	Off	Not rep't	6.4	6.4	0.0
D002, D007, D009	?	Not rep't	Not rep't	Off	Not rep't	0.2	0.2	0.0
D006 (cadmium) D008 (lead)	?	Not rep't	Not rep't	Off	Not rep't	122.0	122.0	0.0
D006 (cadmium) D008 (lead)	?	Not rep't	Not rep't	Off	Not rep't	10.8	10.8	0.0
D008 (lead)	?	Not rep't	Not rep't	Off	Not rep't	3.3	3.3	0.0
D008 (lead)	?	Not rep't	Not rep't	Off	Not rep't	15.6	15.6	0.0
D008 (lead)	?	Not rep't	Not rep't	Off	Not rep't	5.2	5.2	0.0
D008, F002	?	Not rep't	Not rep't	Off	Not rep't	0.2	0.2	0.0
D009 (mercury)	?	Not rep't	Not rep't	Off	Not rep't	0.0	0.0	0.0
F002, F003	?	Not rep't	Not rep't	Off	Not rep't	0.7	0.7	0.0
TOTAL - 1993						437.5	437.5	0.0

TOXICS RELEASE INVENTORY

<i>Total lbs of TRI chemicals:</i>	<i>Air-Fugitive Emissions</i>	<i>Air-Stack Emissions</i>	<i>Total Releases</i>	<i>Discharge to POTW</i>	<i>Off-Site Energy Recovery</i>	<i>Off-Site Recycling</i>	<i>Off-Site Treatment</i>	<i>Off-Site Disposal</i>	<i>Total Transfers</i>
1991	334,990	822,089	1,159,159	243,290	634,000	859,000	67,680	29,849	1,833,819
1992	219,957	541,792	761,749	46,616	224,565	564,299	106,620	24,535	966,635
1993	72,444	416,097	488,541	236,174	4,341	125,380	133,597	3,158	502,650
1994	49,663	163,377	213,040	116,350	15,974	103,745	1,593	65,916	303,578
Lbs. per vehicle produced:									
1991	0.77	1.89	2.66	0.56	1.45	1.97	0.16	0.07	4.21
1992	0.70	1.72	2.41	0.15	0.71	1.79	0.34	0.08	3.06
1993	0.18	1.04	1.22	0.59	0.01	0.31	0.33	0.01	1.26
1994	0.21	0.70	0.92	0.50	0.07	0.45	0.01	0.28	1.31

**Plant-Community Profile:
General Motors
Lordstown OH**

12/2/97

PLANT ENVIRONMENTAL PROFILE (continued)

1994 TRI Emissions/Releases by Chemical (lbs.)

Chemical Name	Air-Fugitive Emissions	Air-Stack Emissions	Total Releases	Discharge to POTW	Off-Site Energy Recovery	Off-Site Recycling	Off-Site Treatment	Off-Site Disposal	Total Transfers
METHANOL	999	9,640	10,639	983	0	0	0	0	983
N-BUTYL ALCOHOL	98	14,096	14,194	203	0	3,542	0	0	3,745
BENZENE	35	0	35	0	0	0	0	0	0
DICHLORODIFLUOROMETHANE	248	0	248	0	0	0	0	0	0
METHYL ETHYL KETONE	10,762	608	11,370	89	0	1,192	0	0	1,281
ETHYLENE GLYCOL	79	0	79	21,947	15,571	0	0	0	37,518
METHYL ISOBUTYL KETONE	4,194	14,441	18,635	424	0	1,424	0	0	1,848
TOLUENE	13,418	17,165	30,583	359	394	38,810	0	0	39,563
XYLENE (MIXED ISOMERS)	16,407	107,410	123,817	1,856	0	29,351	0	0	31,207
BARIUM COMPOUNDS	0	0	0	0	0	0	0	61,177	61,177
GLYCOL ETHERS	3,423	17	3,440	82,767	9	29,426	1,593	0	113,795
LEAD COMPOUNDS	0	0	0	1,165	0	0	0	1,576	2,741
MANGANESE COMPOUNDS	0	0	0	854	0	0	0	854	1,708
NICKEL COMPOUNDS	0	0	0	871	0	0	0	871	1,742
ZINC COMPOUNDS	0	0	0	4,832	0	0	0	1,438	6,270
TOTAL	49,663	163,377	213,040	116,350	15,974	103,745	1,593	65,916	303,578

**VOC/NOx Emissions:
(lbs/year)**

	VOCs	NOx
1990	2,059,700	NA
1991	NA	NA
1992	NA	NA
1993	NA	NA
1994	NA	NA

**Plant-Community Profile:
General Motors
Lordstown OH**

12/2/97

COMMUNITY ENVIRONMENTAL PROFILE

TRI Chemical Releases & Transfers from Sources Within 3 Miles of Auto/LDT Plant (lbs.)

<i>Facility (w. map #)</i>	<i>Air-Fugitive Emissions</i>	<i>Air-Stack Emissions</i>	<i>Total Releases</i>	<i>Discharge to POTW</i>	<i>Off-Site Transfers</i>	<i>Total Transfers</i>
----------------------------	-----------------------------------	--------------------------------	---------------------------	------------------------------	-------------------------------	----------------------------

[None}

**Air Quality Attainment Status
(as of 1994)**

ozone - marginal*
carbon monoxide - attainment or unclassifiable
particulates - unclassifiable
lead - unclassifiable
NO2 - cannot be classified or better than national standards
SO2 - attainment

* redesignated attainment effective 4/1/96 (61 FR 3319)

**Plant-Community Profile:
General Motors
Lordstown OH**

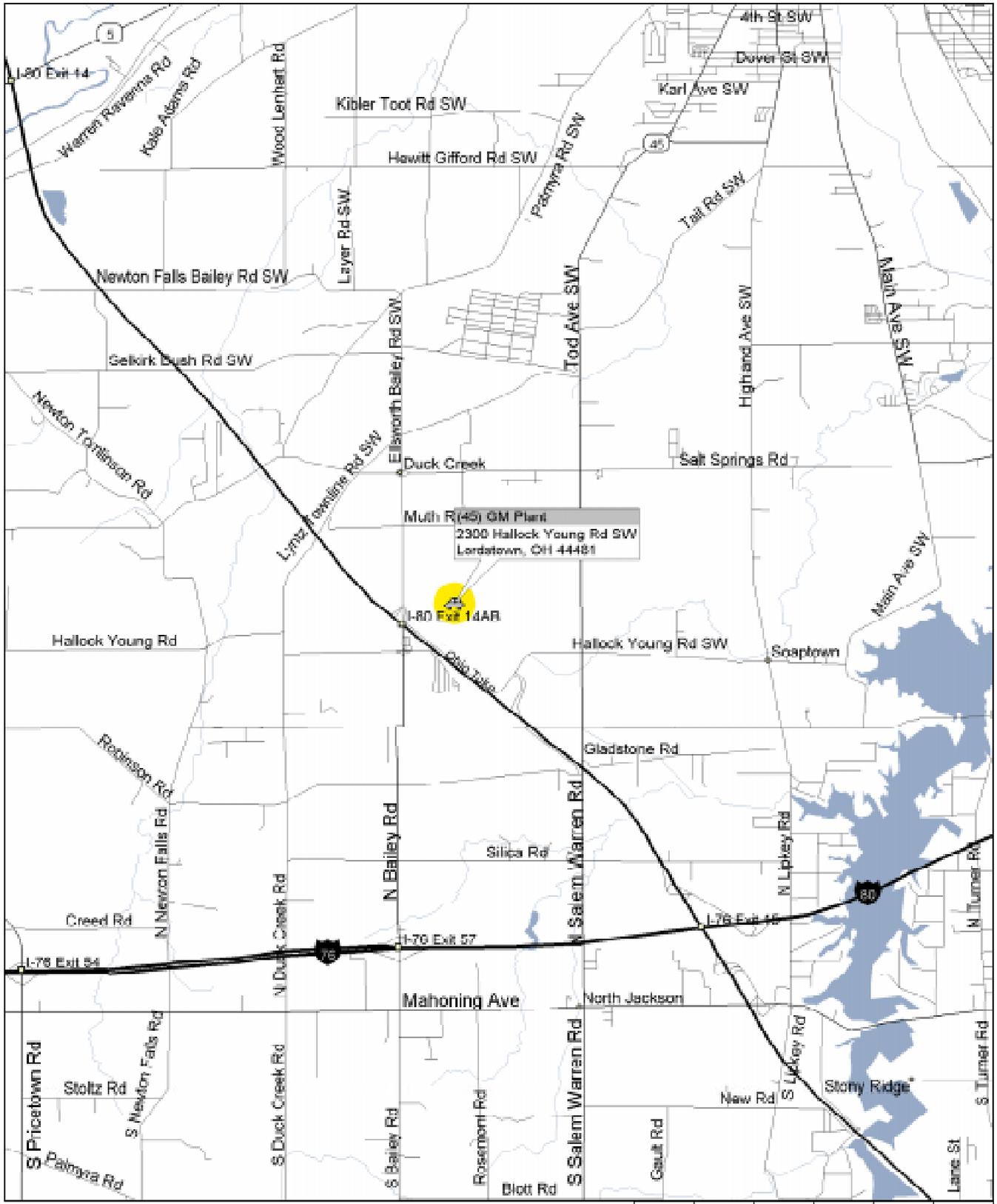
12/2/97

COMMUNITY DEMOGRAPHIC AND ECONOMIC CHARACTERISTICS

	<i>Census Block</i>	<i>0-1 Mile</i>	<i>0-3 Miles</i>	<i>1-3 Miles</i>	<i>3-5 Miles</i>	<i>County</i>	<i>State</i>	<i>U.S.</i>
Total Population (1994)	NA	NA	NA	NA	NA	228,832	11,102,268	260,340,990
Total Population (1990)	3,404	377	3,349	2,972	13,832	227,813	10,847,115	248,709,873
% Change 1990-1994	NA	NA	NA	NA	NA	<0.5	2	5
Total Area (sq. mi.) (1990)	23.2	3.1	28.2	25.1	50.2	615.8	40,952.6	3,536,278.1
Population/sq. mi. (land area) (1990)	147	120	119	118	292	370	265	70
Median Household Income (1994)						NA	31,855	32,264
Median Household Income (1989)						28,186	28,706	30,056
% Change 1979-1989 (constant \$)						-14	-4	7
% Change 1989-1994 (constant \$)						NA	11	7
Per Capita Personal Income (1993)						19,262	19,696	20,800
Per Capita Personal Income (1989)						16,421	16,644	17,690
% Change 1989-1993 (current \$)						17	18	18
Minority Percentage (1990)	5	3	2	2	2	7	12	20
Pct. of Households Below Poverty Level (1989)	12	14	14	13	13	23	24	20
Pct. Not Completing High School (1990)	24	23	23	23	23	24	23	25
Total Employment (1994) (civilian nonfarm)						111,244	5,537,000	131,056,000
Unemployment Rate (1994)						7	6	6
Manufacturing Employment (1993)						34,135	1,046,039	18,183,381
Mfgr. as % Total Employment (1993)						42	25	19
Manufacturing Employment (1992)						NA	1,046,000	18,253,000
Production Workers (1992)						NA	681,000	11,654,000
% Change in Mfgr. Employment 1987-1992						NA	-5	-4
Assembly Plant as % Total Mfgr. Workers						26		

Data sources used were not always complete or current.
Attempts have been made to verify data, but errors may still exist.

Lordstown, OH, GM Plant



Microsoft MapData
Streets98

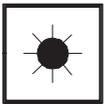
GENERAL MOTORS CORP
2300 HALLOCK-YOUNG RD
LORDSTOWN OH
Tri Number: 44482BCLRD2300H

Map #	SIC	Name	Address	City	State
0	3711	LANSING AUTOMOTIVE DIV. LORDSTOWN ASSEMBLY	2300 HALLOCK-YOUNG RD.	LORDSTOWN	OH

AREA WIDE 1994 TRI EMISSION PROFILE

GENERAL MOTORS CORP
TRUMBULL COUNTY, Ohio

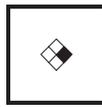
Latitude: 41 8 15
Longitude: 80 52 40



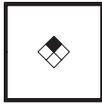
Map Key:
Auto
Plant
Truck



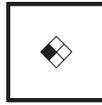
Release
Air



Land
Release

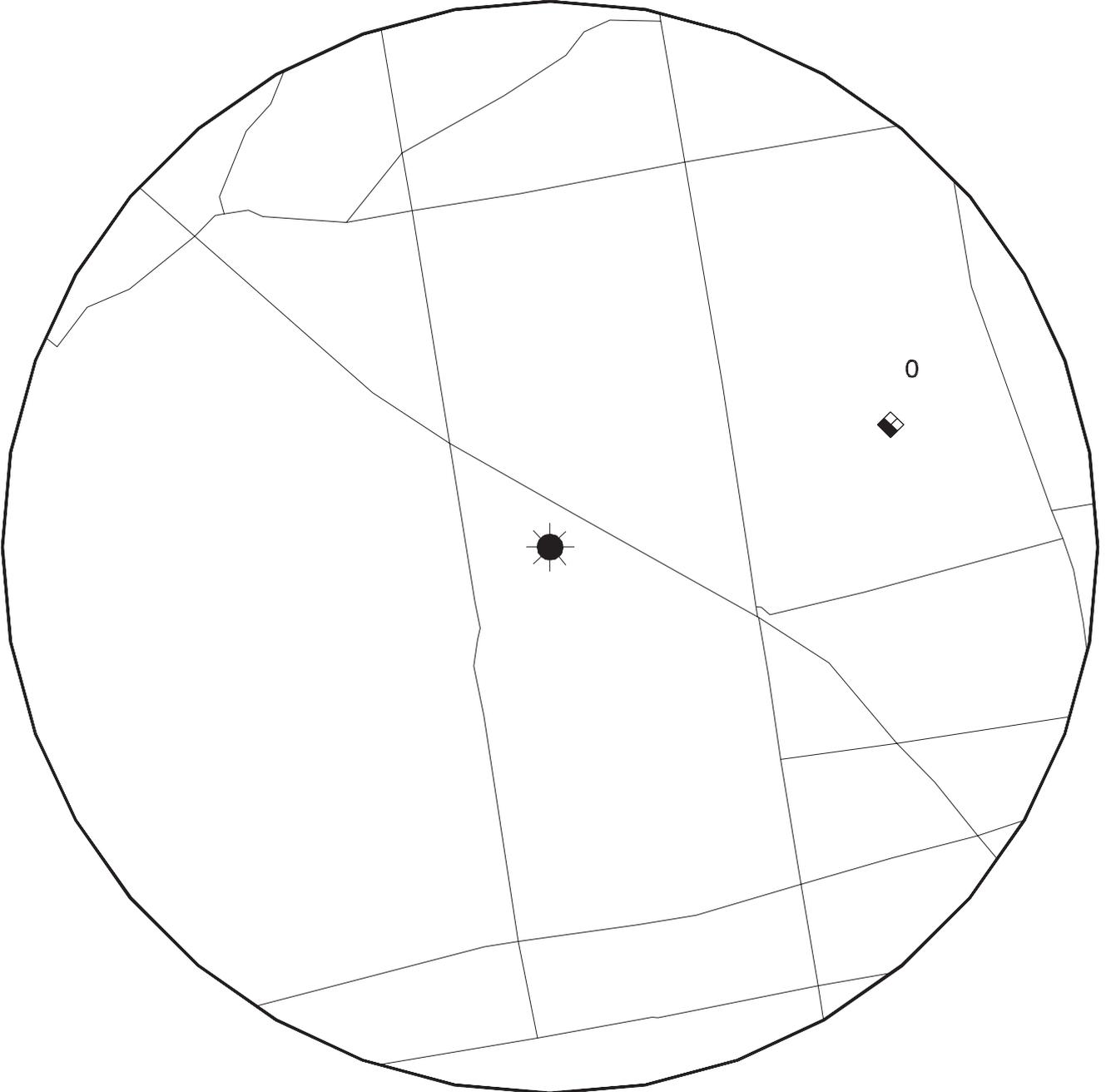


Water
Release



Transfer
location
To offsite

3 Mile Buffer



Number without a Symbol denotes no reported emissions over 0.5 pounds per year

1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF
 GENERAL MOTORS CORP TRI NO: 44482BCLRD2300H

Chemical Name	Air Fugitive (Non-Point Source) Emissions	Air Stack (Point Source) Emissions	Discharge to Surface Water	On-Site Land Disposal	TOTAL RELEASES	Discharge to POTW	Transfer	TOTAL TRANSFERS
LANSING AUTOMOTIVE DIV. LORDSTOWN ASSEMBLY			SIC DESCRIPTION: MOTOR VEHICLES & CAR BODIES		MAP LOCATION NO: 0			
2300 HALLOCK-YOUNG RD. LORDSTOWN OH 44481			SIC CODE: 3711					
METHANOL	999	9,640	0	0	10,639	983	0	983
N-BUTYL ALCOHOL	98	14,096	0	0	14,194	203	3,542	3,745
BENZENE	35	0	0	0	35	0	0	0
DICHLORODIFLUOROMETHANE	248	0	0	0	248	0	0	0
METHYL ETHYL KETONE	10,762	608	0	0	11,370	89	1,192	1,281
ETHYLENE GLYCOL	79	0	0	0	79	21,947	15,571	37,518
METHYL ISOBUTYL KETONE	4,194	14,441	0	0	18,635	424	1,424	1,848
TOLUENE	13,418	17,165	0	0	30,583	359	39,204	39,563
XYLENE (MIXED ISOMERS)	16,407	107,410	0	0	123,817	1,856	29,351	31,207
BARIUM COMPOUNDS	0	0	0	0	0	0	61,177	61,177
GLYCOL ETHERS	3,423	17	0	0	3,440	82,767	31,028	113,795
LEAD COMPOUNDS	0	0	0	0	0	1,165	1,576	2,741
MANGANESE COMPOUNDS	0	0	0	0	0	854	854	1,708
NICKEL COMPOUNDS	0	0	0	0	0	871	871	1,742
ZINC COMPOUNDS	0	0	0	0	0	4,832	1,438	6,270
SUBTOTALS	49,663	163,377	0	0	213,040	116,350	187,228	303,578

General Motors Lordstown Trumbull County, Ohio

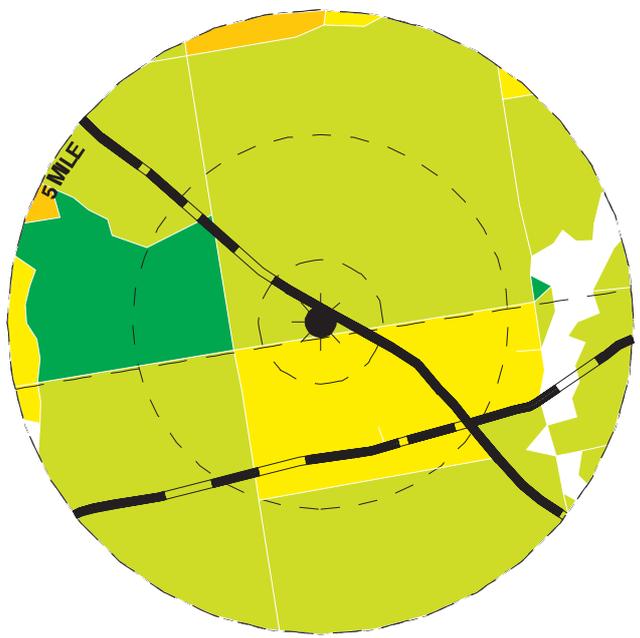
Latitude: 41 8 15 N
Longitude: 80 52 40 W

- MAP KEY:**
- County Boundaries
 - Inter State Highway
 - US Highway
 - Rail Road
 - One Mile
 - Three Miles
 - Five Miles
- POPULATION DENSITY / SQ. MILE**
- Greater than 10000
 - 1000 - 10000
 - 100 - 1000
 - 10-100
 - 1-10

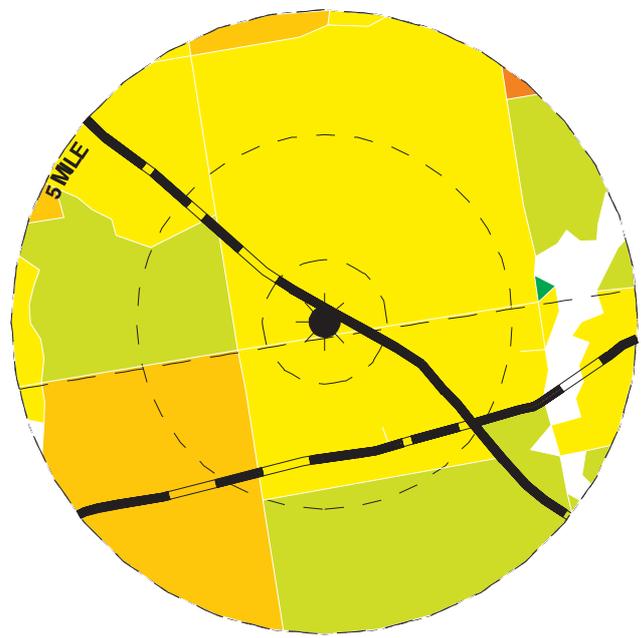
- Minority, poverty, and High School Incomplete percentages**
- Greater than 50
 - 40 - 50
 - 30 - 40
 - 20 - 30
 - 10 - 20
 - 0 - 10



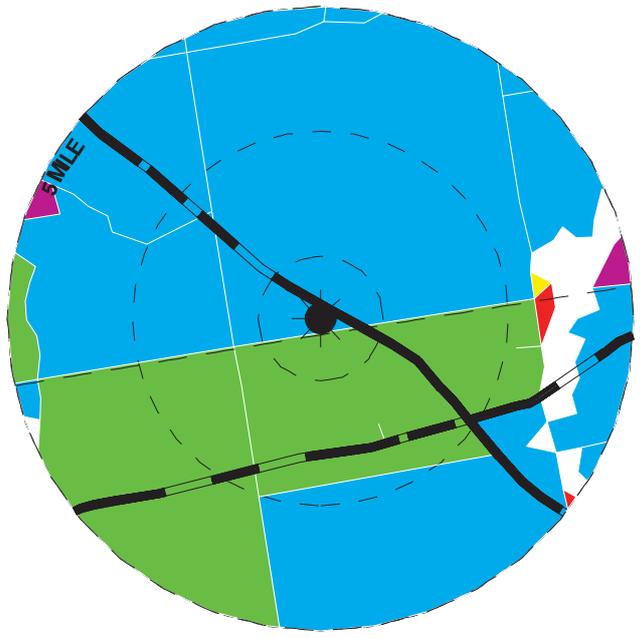
Percentage of Total Population Below Poverty Level



Percentage of Population not Completing High School



Population Density
People Per Sq. Mile



Minority Population
Percent of Total Population



General Motors Lordstown Trumbull County, Ohio

Latitude: 41 8 15 N
Longitude: 80 52 40 W

- MAP KEY:**
- County Boundaries
 - Inter State Highway
 - US Highway
 - Rail Road
 - One Mile
 - Three Miles
 - Five Miles
- POPULATION DENSITY / SQ. MILE**
- Greater than 10000
 - 1000 - 10000
 - 100 - 1000
 - 10-100
 - 1-10

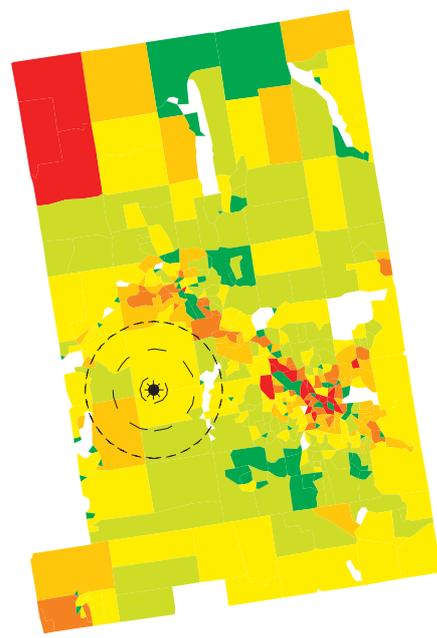
- Minority, poverty, and High School Incomplete percentages**
- Greater than 50
 - 40 - 50
 - 30 - 40
 - 20 - 30
 - 10 - 20
 - 0 - 10



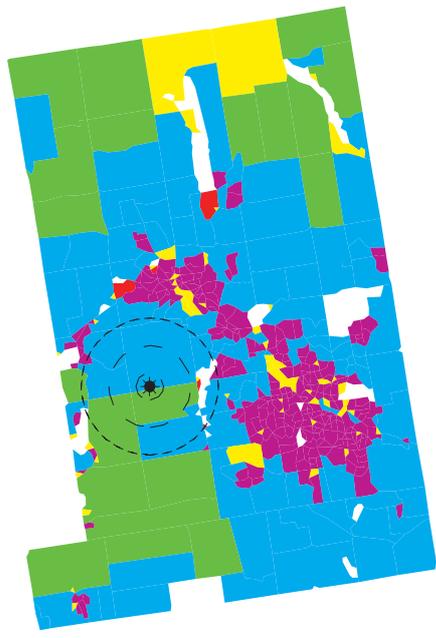
Percentage of Total Population Below Poverty Level



Percentage of Population not Completing High School



Population Density
People Per Sq. Mile



Minority Population
Percent of Total Population

