

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**

**28. General Motors
Pontiac, MI**

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
Pontiac MI**

12/2/97

LOCATION	Address	820 Opdyke Rd., Pontiac MI		DESCRIPTION	Produced Chev S Pickup and GMC C/K Pickup in 1994.		
	Lat/Long:	latitude (degrees N)	42 37' 17"		ID NUMBERS	RCRA ID	MID005356902
		longitude (degrees W)	83 16' 52"	AIRS ID		AFS2612500182	
	County:	Oakland	MSA:	Detroit MI		NPDES ID	-
	Other counties within 3 miles of plant:			TRI	48058GMCTR8200P		
OPERATIONS		Production	Employment				
Calendar Year: 1991		182,031					
1992		195,164					
1993		234,978					
1994		236,967	3,500				

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>
<i>1991</i>								
D001 (ignitable)	N	B203 org. liquids	A09 clean out equip	Off	M021 solvents recov.	561.1	561.1	0.0
D001 (ignitable)	N	B203 org. liquids	A09 clean out equip	Off	M061 fuel blending	47.9	47.9	0.0
D001 (ignitable) D018 (benzene)	N	B219 org. liquids	A57 1x/intermittent	Off	M061 fuel blending	13.7	13.7	0.0
D001(ignit) F003 (solvents)	N	B203 org. liquids	A19 other clean/degr.	Off	M051 energy recov.	21.2	21.2	0.0
D001(ignit) F003 (solvents)	N	B203 org. liquids	A59 1x/intermittent	Off	M061 fuel blending	23.9	23.9	0.0
D001, F003, D018	N	B403 org. solids	A29 other surface prep	Off	M061 fuel blending	58.5	58.5	0.0
D008 (lead)	N	B310 inorg. solids	A22 electroplating	Off	M111 stabilization	16.6	16.6	0.0
D008 (lead)	N	B319 inorg. solids	A59 1x/intermittent	Off	M111 stabilization	29.5	29.5	0.0
D018 (benzene)	N	B219 org. liquids	A59 1x/intermittent	Off	M042 incineration	104.9	104.9	0.0
D018, D001, F003	N	B219 org. liquids	A57 1x/intermittent	Off	M061 fuel blending	42.6	42.6	0.0
F003 (nonhalog. solvents) D001(ignit.)	N	B203 org. liquids	A59 1x/intermittent	Off	M061 fuel blending	115.6	115.6	0.0
TOTAL - 1991						1,035.4	1,035.4	0.0
<i>1993</i>								
D001, D005, D035, F003, D018	N	B209 org. liquid	A59 1x/intermittent	Off	M041 incineration	25.1	25.1	0.0
D001, F003, D018	N	B205 org. liquid	A57 1x/intermittent	Off	M041 incineration	116.1	116.1	0.0
D001, F003, D018	N	B205 org. liquid	A57 1x/intermittent	Off	M061 fuel blending	47.4	47.4	0.0
D001, F003, F005, D035	N	B203 org. liquid	A09 clean out equip	Off	M021 solvents recov.	950.9	950.9	0.0
D001, F003, F005, D035	N	B203 org. liquid	A09 clean out equip	Off	M061 fuel blending	97.6	97.6	0.0
D001, F005, D018	N	B403 org. solids	A59 1x/intermittent	Off	M042 incineration	5.0	5.0	0.0
D001, F005, D018	N	B403 org. solids	A59 1x/intermittent	Off	M061 fuel blending	23.5	23.5	0.0
D008 (lead)	N	B119 inorg liquid	A59 1x/intermittent	Off	M041 incineration	2.9	2.9	0.0
D008 (lead)	N	B119 inorg liquid	A59 1x/intermittent	Off	M119 stabilization	3.1	3.1	0.0
D008 (lead)	N	B319 inorg. solids	A59 1x/intermittent	Off	M043 incineration	33.8	33.8	0.0
D008 (lead)	N	B319 inorg. solids	A59 1x/intermittent	Off	M119 stabilization	18.3	18.3	0.0
F001 (halog. solvents)	N	B202 org. liquid	A59 1x/intermittent	Off	M041 incineration	1.3	1.3	0.0
TOTAL - 1993						1,325.1	1,325.1	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	15,203	1,296,401	1,311,604	441,771	2,820	524,455	170,275	47,470	1,186,791
1992	200,780	1,196,920	1,397,700	580,500	0	1,014,400	43,505	45,805	1,684,210
1993	74,010	1,449,615	1,523,625	630,500	0	1,212,900	100,305	19,810	1,963,515
1994	51,020	1,025,500	1,076,520	150,250	0	868,600	100,055	16,350	1,135,255
Lbs. per vehicle produced:									
1991	0.08	7.12	7.21	2.43	0.02	2.88	0.94	0.26	6.52
1992	1.03	6.13	7.16	2.97	0.00	5.20	0.22	0.23	8.63
1993	0.31	6.17	6.48	2.68	0.00	5.16	0.43	0.08	8.36
1994	0.22	4.33	4.54	0.63	0.00	3.67	0.42	0.07	4.79

**Plant-Community Profile:
General Motors
Pontiac MI**

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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	4,200	91,000	95,200	0	0	23,900	250	0	24,150
N-BUTYL ALCOHOL	6,700	180,000	186,700	0	0	48,900	250	0	49,150
BENZENE	5	250	255	0	0	250	250	0	500
METHYL ETHYL KETONE	8,600	24,000	32,600	0	0	6,350	250	0	6,600
1,2,4-TRIMETHYLBENZENE	5	250	255	0	0	250	250	0	500
ETHYLBENZENE	5	250	255	0	0	250	250	0	500
ETHYLENE GLYCOL	2,300	250	2,550	0	0	0	92,000	0	92,000
TOLUENE	7,500	88,000	95,500	0	0	22,950	250	0	23,200
CYCLOHEXANE	5	250	255	0	0	250	5	0	255
XYLENE (MIXED ISOMERS)	20,000	590,000	610,000	0	0	760,250	750	0	761,000
ALUMINUM (FUME OR DUST)	0	0	0	0	0	0	0	6,900	6,900
HYDROCHLORIC ACID	0	12,000	12,000	0	0	0	0	0	0
PHOSPHORIC ACID	0	250	250	0	0	0	0	0	0
GLYCOL ETHERS	1,700	39,000	40,700	150,000	0	5,250	5,550	0	160,800
ZINC COMPOUNDS	0	0	0	250	0	0	0	9,450	9,700
TOTAL	51,020	1,025,500	1,076,520	150,250	0	868,600	100,055	16,350	1,135,255

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

	VOCs	NO2
1990	2,373,736	869,140
1991	2,033,534	829,440
1992	1,995,310	746,720
1993	3,029,012	716,880
1994	3,303,210	541,540

**Plant-Community Profile:
General Motors
Pontiac MI**

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>
1 G P PLASTICS INC.	0	0	0	0	0	0
2 AQUATEC CHEMICAL INTL. INC. INC	0	0	0	0	0	0
3 BURMAH TECHNICAL SERVICES INC.	0	0	0	0	0	0
4 GMC PONTIAC PLANT CENTRAL FND'	0	0	0	0	0	0
5 AKZO NOBEL COATINGS INC. DECOR	46,194	2,755	48,949	0	663,216	663,216
6 AKZO COATINGS INC.	25,153	31,131	56,289	265	69,882	70,147
7 SP SERVICES INC.	0	0	0	0	0	0
8 NORTH AMERICAN TRUCK PLATFORM	75,205	519,860	595,065	0	363,275	363,275
9 GMC TRUCK & BUS GROUP PONTIAC	0	0	0	0	0	0
Total	146,552	553,746	700,303	265	1,096,373	1,096,638

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

ozone - nonattainment (moderate)*
carbon monoxide - attainment or unclassifiable
particulates - unclassifiable
lead - unclassifiable
NO2 - cannot be classified or better than national standards
SO2 - attainment

* redesignated attainment effective 4/6/96 (60 FR 12459)

**Plant-Community Profile:
General Motors
Pontiac MI**

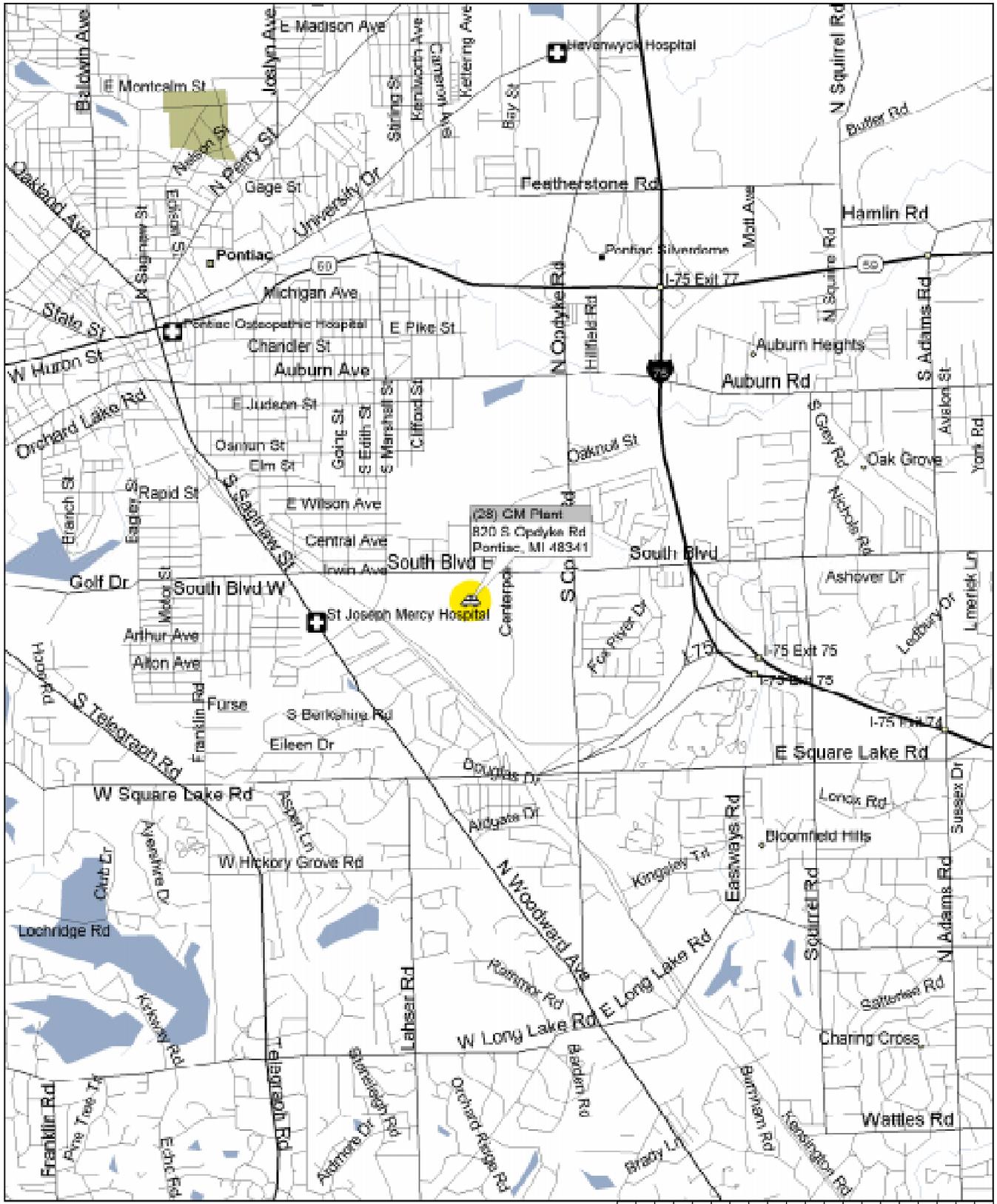
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COMMUNITY DEMOGRAPHIC AND ECONOMIC CHARACTERISTICS

	<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	1,142,013	9,496,539	260,340,990
Total Population (1990)	277	10,715	87,477	76,762	270,524	1,083,592	9,295,297	248,709,873
% Change 1990-1994	NA	NA	NA	NA	NA	5	2	5
Total Area (sq. mi.) (1990)	<1	3.1	28.2	25.1	50.2	872.7	56,809.2	3,536,278.1
Population/sq. mi. (land area) (1990)	1,466	3,556	3,320	3,289	5,934	1,242	164	70
Median Household Income (1994)						NA	35,284	32,264
Median Household Income (1989)						43,407	31,020	30,056
% Change 1979-1989 (constant \$)						2	-4	7
% Change 1989-1994 (constant \$)						NA	14	7
Per Capita Personal Income (1993)						29,781	20,584	20,800
Per Capita Personal Income (1989)						26,193	17,546	17,690
% Change 1989-1993 (current \$)						14	17	18
Minority Percentage (1990)	83	86	37	31	5	10	16	20
Pct. of Households Below Poverty Level (1989)	44	29	22	21	6	12	23	20
Pct. Not Completing High School (1990)	60	39	26	24	13	15	23	25
Total Employment (1994) (civilian nonfarm)						624,067	4,753,000	131,056,000
Unemployment Rate (1994)						4	6	6
Manufacturing Employment (1993)						104,973	906,672	18,183,381
Mfgr. as % Total Employment (1993)						17	26	19
Manufacturing Employment (1992)						105,500	917,000	18,253,000
Production Workers (1992)						59,600	574,000	11,654,000
% Change in Mfgr. Employment 1987-1992						-5	-7	-4
Assembly Plant as % Total Mfgr. Workers						3		

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

Pontiac, MI, GM Plant



Microsoft MapInfo
Streets98

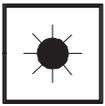
GENERAL MOTORS CORP
820 S UPDYKE RD
PONTIAC MI
Tri Number: 48058GMCTR8200P

Map #	SIC	Name	Address	City	State
0	3711	NORTH AMERICAN TRUCK PLATFORM PONTIAC E. ASSEMBLY	820 S. OPDYKE RD.	PONTIAC	MI
1	3089	G P PLASTICS INC.	3910 INDUSTRIAL DR.	ROCHESTER HILLS	MI
2	2899	AQUATEC CHEMICAL INTL. INC. INC.	408 AUBURN AVE.	PONTIAC	MI
3		BURMAH TECHNICAL SERVICES INC. INC.	408 AUBURN AVE.	PONTIAC	MI
4	3321	GMC PONTIAC PLANT CENTRAL FNDY. DIV.	701 N. GLENWOOD	PONTIAC	MI
5	2851	AKZO NOBEL COATINGS INC. DECORATIVE & REFINISH FAC	25 & 27 BRUSH ST.	PONTIAC	MI
6	2851	AKZO COATINGS INC.	30 BRUSH ST.	PONTIAC	MI
7	2851	SP SERVICES INC.	491 E. WILSON	PONTIAC	MI
8	3711	NORTH AMERICAN TRUCK PLATFORM PONTIAC W. ASSEMBLY	600 SOUTH SAGINAW	PONTIAC	MI
9	3711	GMC TRUCK & BUS GROUP PONTIAC CENTRAL PLANT	660 S. BLVD. E.	PONTIAC	MI

AREA WIDE 1994 TRI EMISSION PROFILE

GENERAL MOTORS CORP
OAKLAND COUNTY, Michigan

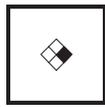
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Longitude: 83 16 52



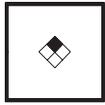
Map Key:
Auto
Plant
Truck



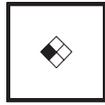
Air Release



Land Release

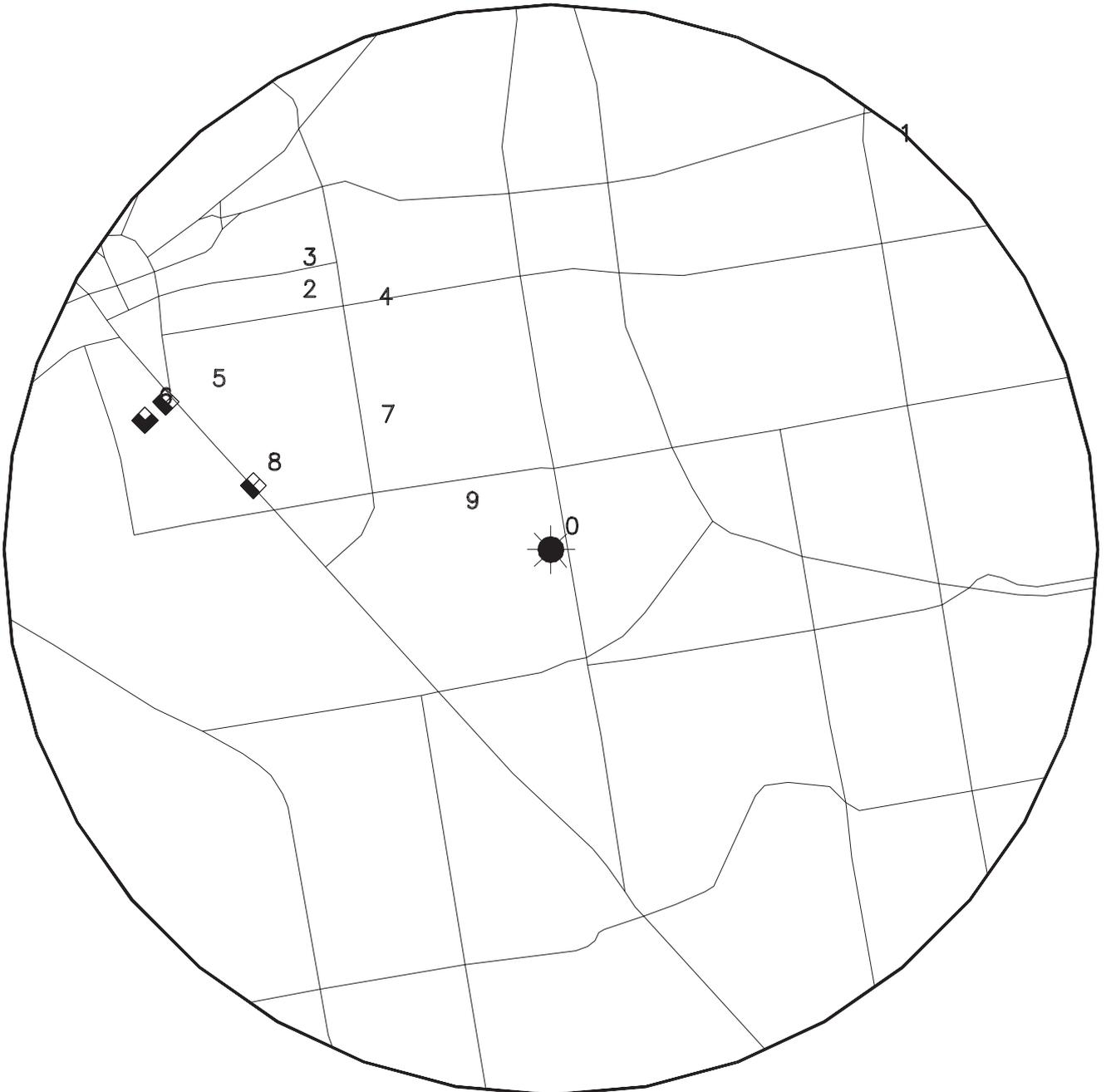


Water Release



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: 48058GMCTR8200P

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	
NORTH AMERICAN TRUCK PLATFORM PONTIAC W. ASSEMBLY			SIC DESCRIPTION: MOTOR VEHICLES & CAR BODIES		MAP LOCATION NO: 8				
600 SOUTH SAGINAW PONTIAC			SIC CODE: 3711						
	MI 48341 2857								
METHANOL	3,600	5,700	0	0	9,300	0	750	750	
N-BUTYL ALCOHOL	13,000	120,000	0	0	133,000	0	12,650	12,650	
BENZENE	250	250	0	0	500	0	0	0	
DICHLORODIFLUOROMETHANE	5	0	0	0	5	0	0	0	
METHYL ETHYL KETONE	22,000	0	0	0	22,000	0	5,200	5,200	
1,2,4-TRIMETHYLBENZENE	250	750	0	0	1,000	0	510	510	
ETHYLBENZENE	250	250	0	0	500	0	505	505	
ETHYLENE GLYCOL	250	5	0	0	255	0	250	250	
METHYL ISOBUTYL KETONE	750	43,000	0	0	43,750	0	55,250	55,250	
TOLUENE	8,200	4,900	0	0	13,100	0	9,900	9,900	
CYCLOHEXANE	250	5	0	0	255	0	0	0	
XYLENE (MIXED ISOMERS)	23,000	270,000	0	0	293,000	0	148,000	148,000	
HYDROCHLORIC ACID	0	38,000	0	0	38,000	0	0	0	
CHROMIUM COMPOUNDS	0	0	0	0	0	0	255	255	
GLYCOL ETHERS	3,400	37,000	0	0	40,400	0	122,750	122,750	
MANGANESE COMPOUNDS	0	0	0	0	0	0	2,000	2,000	
ZINC COMPOUNDS	0	0	0	0	0	0	5,255	5,255	
	SUBTOTALS	75,205	519,860	0	0	595,065	0	363,275	363,275

GMC TRUCK & BUS GROUP PONTIAC CENTRAL PLANT			SIC DESCRIPTION: MOTOR VEHICLES & CAR BODIES		MAP LOCATION NO: 9			
660 S. BLVD. E. PONTIAC			SIC CODE: 3711					
	MI 48341 3128							
	SUBTOTALS	0	0	0	0	0	0	0

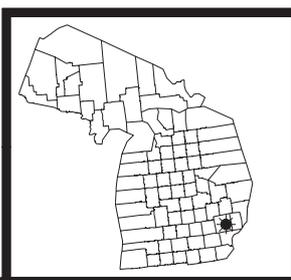
General Motors Pontiac Oakland County, Michigan

Latitude: 42 37 17 N
Longitude: 83 16 52 W

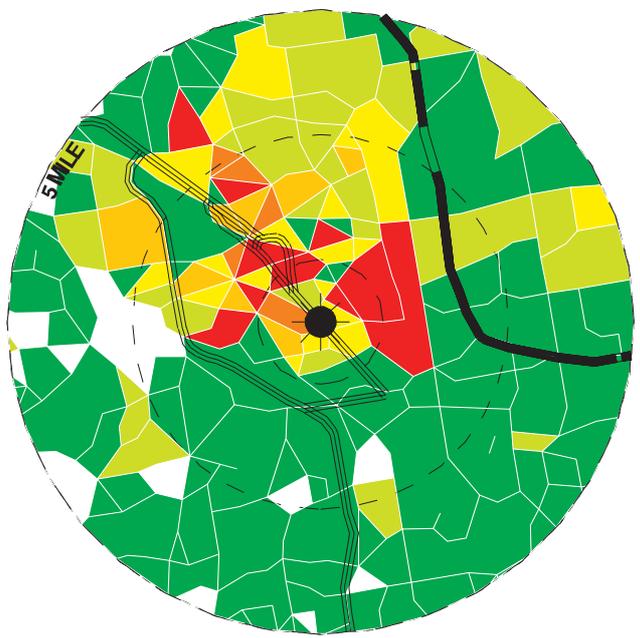
- MAP KEY:**
- County Boundaries
 - Inter State Highway
 - US Highway
 - Rail Road
 - One Mile
 - Three Miles
 - Five Miles

- POPULATION DENSITY / SQ. MILE**
- Greater than 10000
 - 1000 - 10000
 - 100 - 1000
 - 10-100
 - 1-10

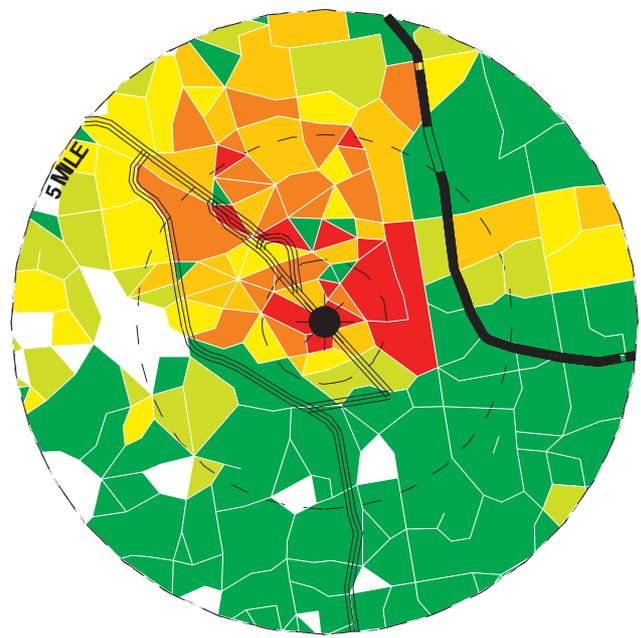
- Minority, poverty, and High School Incomplete percentages**
- Greater than 50
 - 40 - 50
 - 30 - 40
 - 20 - 30
 - 10 - 20
 - 0 - 10



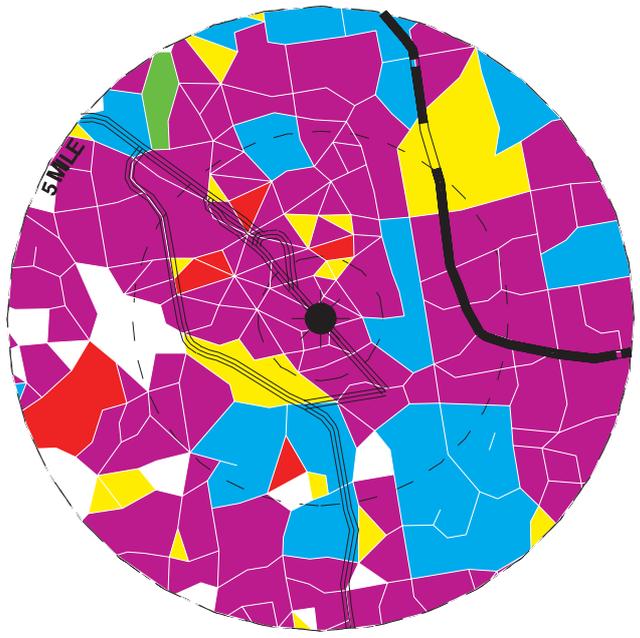
Percentage of Total Population Below Poverty Level



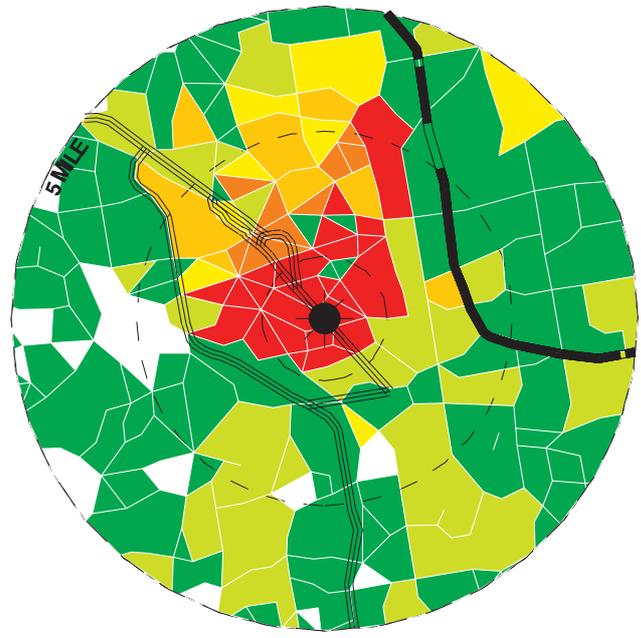
Percentage of Population not Completing High School



Population Density
People Per Sq. Mile



Minority Population
Percent of Total Population



General Motors Pontiac Oakland County, Michigan

Latitude: 42 37 17 N
Longitude: 83 16 52 W

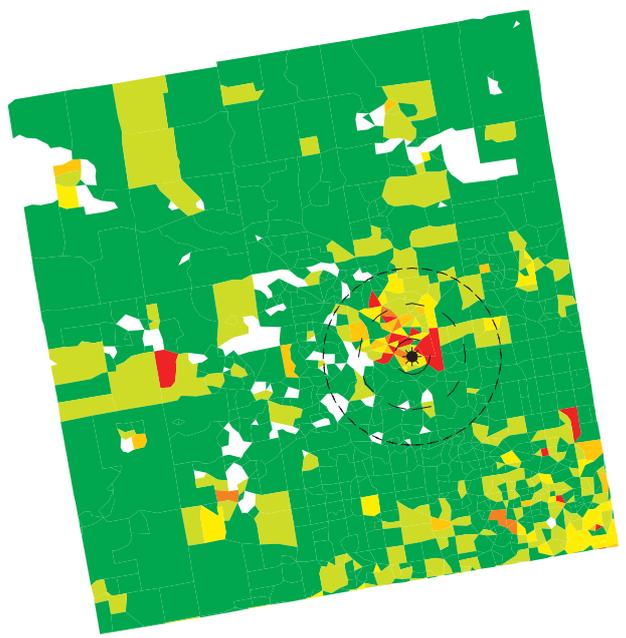
- MAP KEY:**
-  County Boundaries
 -  Inter State Highway
 -  US Highway
 -  Rail Road
 -  One Mile
 -  Three Miles
 -  Five Miles

- POPULATION DENSITY / SQ. MILE**
-  Greater than 10000
 -  1000 - 10000
 -  100 - 1000
 -  10-100
 -  1-10

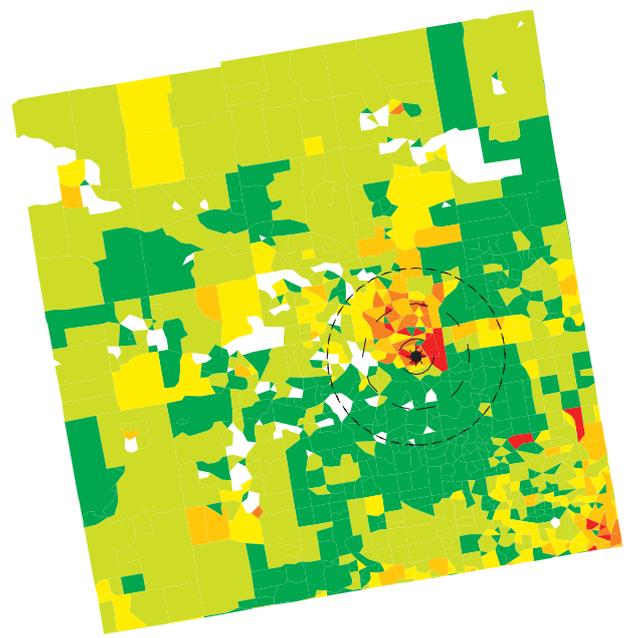
- Minority, poverty, and High School Incomplete percentages**
-  Greater than 50
 -  40 - 50
 -  30 - 40
 -  20 - 30
 -  10 - 20
 -  0 - 10



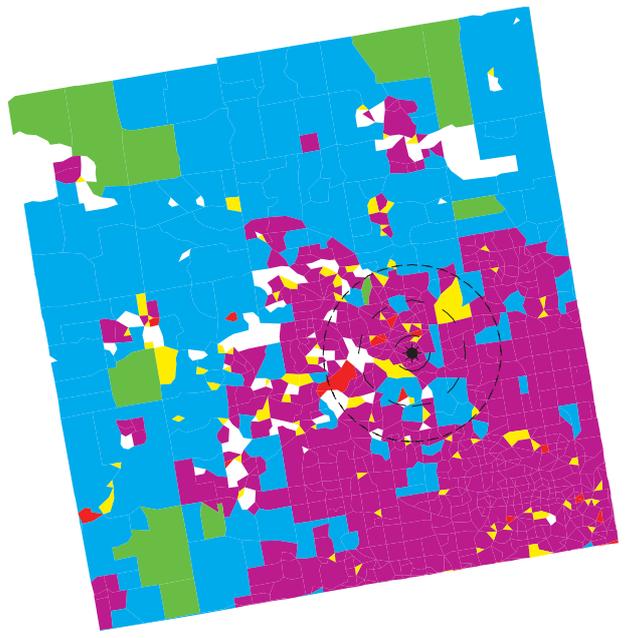
Percentage of Total Population Below Poverty Level



Percentage of Population not Completing High School



Population Density
People Per Sq. Mile



Minority Population
Percent of Total Population

