

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

24. General Motors (Buick City) Flint, 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.

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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
Flint MI

LOCATION	Address Lat/Long: County: Other counties within 3 miles of plant:	902 E. Hamilton Ave., Flint MI 48550 latitude (degrees N) longitude (degrees W) Genesee MSA: none	43 2' 6" 83 41' 19" Flint MI	DESCRIPTION	Produced Buick LeSabre, Park Avenue and Olds 88 in 1994.		
OPERATIONS				ID NUMBERS	RCRA ID AIRS ID NPDES ID	MID005356712 AFS2604900025 MI0001597	
		Production	Employment		TRI	48550BCFLN902EH	
	Calendar Year: 1991	178,762					
	1992	198,523					
	1993	221,743					
	1994	268,784	12,699				

PLANT ENVIRONMENTAL PROFILE

RCRA BIENNIAL REPORT

Waste Code(s)	Wastewater?	Physical Form	Source	Mgd. On/Off-Site	Management Method	Quantity Generated (tons)	Quantity Shipped (tons)	Quantity Mgd. On-Site (tons)
1991								
D001 (ignitable)	N	B203 org. liquids	A04 flush rinsing	Off	M141 transfer facil.	132.1	132.1	0.0
D001 (ignitable)	N	B209 org. liquids	A21 painting	Off	M061 fuel blending	0.2	0.2	0.0
D001 (ignitable)	N	B209 org. liquids	A58 1x/intermittent	Off	M061 fuel blending	0.3	0.3	0.0
D001 (ignitable)	N	B210 org. liquids	A58 1x/intermittent	Off	M061 fuel blending	0.2	0.2	0.0
D001 (ignitable)	N	B211 org. liquids	A09 clean out equip	Off	M022 solvents recov.	23.4	23.4	0.0
D001 (ignitable)	N	B211 org. liquids	A09 clean out equip	Off	M029 solvents recov.	100.2	100.2	0.0
D001 (ignitable)	N	B403 org. solids	A58 1x/intermittent	Off	M061 fuel blending	2.7	2.7	0.0
D001 (ignitable)	N	B409 org. solids	A29 other surface prep	Off	M029 solvents recov.	1.0	1.0	0.0
D001 (ignitable)	N	B409 org. solids	A29 other surface prep	Off	M061 fuel blending	2.5	2.5	0.0
D001 (ignitable) D018 (benzene)	N	B211 org. liquids	A57 1x/intermittent	Off	M061 fuel blending	39.6	39.6	0.0
D001(ignitable) D035 (MEK)	N	B409 org. solids	A21 painting	Off	M029 solvents recov.	4.0	4.0	0.0
D001(ignitable) D035 (MEK)	N	B409 org. solids	A21 painting	Off	M061 fuel blending	2.3	2.3	0.0
D006 (cadmium) D008 (lead)	N	B207 org. liquids	A05 dip rinsing	Off	M141 transfer facil.	0.5	0.5	0.0
D007 (chromium)	N	B319 inorg. solids	A56 1x/intermittent	Off	M071 aqueous treat.	5.7	5.7	0.0
D008 (lead)	Y	B102 inorg. liquids	A38 tank sludge remov.	Off	M111 stabilization	68.3	68.3	0.0
D008 (lead)	N	B302 inorg. solids	A53 1x/intermittent	Off	M111 stabilization	97.2	97.2	0.0
D008 (lead)	N	B310 inorg. solids	A55 1x/intermittent	Off	M111 stabilization	64.4	64.4	0.0
D008 (lead)	N	B604 org. sludges	A38 tank sludge remov.	Off	M111 stabilization	116.5	116.5	0.0
F001 (halog. solvents)	N	B301 inorg. solids	A53 1x/intermittent	Off	M043 incineration	0.7	0.7	0.0
F001, F002 (halog. solvents)	N	B202 org. liquids	A19 other clean/degr.	Off	M029 solvents recov.	2.7	2.7	0.0
F001, F002 (halog. solvents)	N	B204 org. liquids	A01 stripping	Off	M029 solvents recov.	7.9	7.9	0.0
F001, F002 (halog. solvents)	N	B407 org. solids	A38 tank sludge remov.	Off	M043 incineration	0.3	0.3	0.0
F003, F005 (nonhalog. solvents)	N	B203 org. liquids	A04 flush rinsing	Off	M029 solvents recov.	0.1	0.1	0.0
F003, F005 (nonhalog. solvents)	N	B203 org. liquids	A04 flush rinsing	Off	M029 solvents recov.	0.1	0.1	0.0
F003, F005 (nonhalog. solvents)	N	B203 org. liquids	A04 flush rinsing	Off	M141 transfer facil.	0.0	0.0	0.0
F003, F005 (nonhalog. solvents)	N	B409 org. solids	A38 tank sludge remov.	Off	M061 fuel blending	2.2	2.2	0.0
F003, F005, D001	N	B209 org. liquids	A58 1x/intermittent	Off	M061 fuel blending	63.6	63.6	0.0
U121	N	B219 org. liquids	A99	Off	M061 fuel blending	0.4	0.4	0.0
TOTAL - 1991						738.9	738.9	0.0

Plant-Community Profile:
General Motors
Flint MI

12/2/97

RCRA BIENNIAL REPORT (continued)

Waste Code(s) 1993	Wastewater?	Physical Form	Source	Mgd. On/Off-Site	Management Method	Quantity Generated (tons)	Quantity Shipped (tons)	Quantity Mgd. On-Site (tons)
D001 (ignit.) F003, F005 (solvents)	N	B209 org. liquid	A21 painting	Off	M041 incineration	46.8	46.8	0.0
D001 (ignit.) F003, F005 (solvents)	N	B209 org. liquid	A21 painting	Off	M061 fuel blending	5.8	5.8	0.0
D001 (ignit.) F003, F005 (solvents)	N	B209 org. liquid	A21 painting	Off	M061 fuel blending	7.5	7.5	0.0
D001 (ignit.) F003, F005 (solvents)	N	B604 org. sludges	A56 1x/intermittent	Off	M061 fuel blending	1.2	1.2	0.0
D001 (ignitable)	N	B409 org. solids	A19 other clean/degr.	Off	M023 solvents recov.	15.3	15.3	0.0
D001(ignitable) D018 (benzene)	N	B211org. liquid	A38 tank sludge remov.	Off	M061 fuel blending	0.8	0.8	0.0
D001, D018, D039	N	B203 org. liquid	A04 flush rinsing	Off	M141 transfer facil.	130.1	130.1	0.0
D001, F003, F005, D006, D007, D008	N	B203 org. liquid	A04 flush rinsing	Off	M029 solvents recov.	0.4	0.4	0.0
D005 (barium)	N	B304 inorg. solids	A78 air poll cntl device	Off	M132 landfill	0.1	0.2	0.0
D006, D008, D018, D021, D027, D039, D040	N	B203 org. liquid	A05 dip rinsing	Off	M141 transfer facil.	0.3	0.3	0.0
D008 (lead)	N	B310 inorg. solids	A32 product filtering	Off	M132 landfill	157.0	157.0	0.0
D009 (mercury)	N	B319 inorg. solids	A99 other processes	Off	M132 landfill	2.6	2.6	0.0
D035 (MEK)	N	B409 org. solids	A19 other clean/degr.	Off	M023 solvents recov.	2.2	2.2	0.0
LABP	N	B001 lab packs	A94 lab wastes	Off	M141 transfer facil.	0.2	0.2	0.0
P005, U225, U052, U051	N	B004 lab packs	A94 lab wastes	Off	M141 transfer facil.	0.0	0.0	0.0
P028	N	B004 lab packs	A94 lab wastes	Off	M141 transfer facil.	0.0	0.0	0.0
TOTAL - 1993						370.4	370.5	0.0

TOXICS RELEASE INVENTORY

Total lbs of TRI chemicals:	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
1991	258,850	360,105	619,455	22,050	23,800	16,400	42,250	48,300	153,550
1992	313,673	567,266	880,939	8,981	0	335,700	26,854	40,808	412,343
1993	441,102	381,800	822,902	6,100	13,500	325,400	3,710	109,334	458,044
1994	282,914	416,915	699,829	496	0	379,000	0	31,850	411,346
Lbs. per vehicle produced:									
1991	1.45	2.01	3.47	0.12	0.13	0.09	0.24	0.27	0.86
1992	1.58	2.86	4.44	0.05	0.00	1.69	0.14	0.21	2.08
1993	1.99	1.72	3.71	0.03	0.06	1.47	0.02	0.49	2.07
1994	1.05	1.55	2.60	0.00	0.00	1.41	0.00	0.12	1.53

Plant-Community Profile:
General Motors
Flint MI

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	8,663	118	8,781	0	0	0	0	0	0
N-BUTYL ALCOHOL	10,052	31,988	42,040	0	0	0	0	0	0
BENZENE	210	0	210	0	0	0	0	0	0
1,1,1-TRICHLOROETHANE	12,899	0	12,899	0	0	0	0	0	0
METHYL ETHYL KETONE	29,159	34,508	63,667	0	0	0	0	0	0
1,2,4-TRIMETHYLBENZENE	290	0	290	0	0	0	0	0	0
ETHYLBENZENE	216	0	216	0	0	0	0	0	0
ETHYLENE GLYCOL	6	0	6	190	0	0	0	0	190
METHYL ISOBUTYL KETONE	58,954	183,409	242,363	0	0	0	0	0	0
TOLUENE	46,056	1,349	47,405	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	38,705	52,808	91,513	0	0	0	0	0	0
MANGANESE	0	0	0	0	0	19,000	0	2,180	21,180
NICKEL	0	0	0	0	0	138,000	0	3,025	141,025
CHROMIUM	0	0	0	0	0	112,000	0	8,500	120,500
COPPER	0	0	0	0	0	110,000	0	6,200	116,200
HYDROCHLORIC ACID	19,006	0	19,006	0	0	0	0	0	0
PHOSPHORIC ACID	0	0	0	0	0	0	0	7,900	7,900
AMMONIA	28	0	28	0	0	0	0	0	0
GLYCOL ETHERS	58,670	112,735	171,405	6	0	0	0	0	6
LEAD COMPOUNDS	0	0	0	0	0	0	0	215	215
ZINC COMPOUNDS	0	0	0	300	0	0	0	3,830	4,130
TOTAL	282,914	416,915	699,829	496	0	379,000	0	31,850	411,346

VOC/NOx Emissions:
(lbs/year)

	VOCs	NO2
1990	4,288,198	130,180
1991	2,959,382	153,240
1992	2,574,474	213,056
1993	2,817,166	110,240
1994	3,479,218	136,952

Plant-Community Profile:
General Motors
Flint MI

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COMMUNITY ENVIRONMENTAL PROFILE

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

Facility (w. map #)	Air-Fugitive Emissions	Air-Stack Emissions	Total Releases	Discharge to POTW	Off-Site Transfers	Total Transfers
1 LOCKHART CHEMICAL CO.	250	2,108	2,358	2,680	0	2,680
2 PPG IND. INC. FLORIDA	20	64	84	0	36,610	36,610
3 MCDONALD DAIRY CO.	15,150	0	15,150	42,075	0	42,075
4 SPECTRUM CASTING DIV.	0	0	0	0	0	0
5 B. B. PAINT CORP.	1,000	0	1,000	0	7,836	7,836
7 DU PONT FLINT PLANT FLINT SITE	2,840	29,007	31,847	0	2,385,545	2,385,545
8 GMC AC ROCHESTER DIV. FLINT E.	9,080	108,490	117,570	4,820	1,003,551	1,008,371
9 MID-STATE PLATING CO.	255	250	505	0	0	0
10 PEPSI-COLA BOTTLING CO.	0	0	0	0	0	0
11 STATE PLATING & FINISHING INC.	0	0	0	0	0	0
12 COCA-COLA BOTTLING CO. OF MICH	0	0	0	1,307	0	1,307
13 GMC AC ROCHESTER FLINT WEST D	27,900	270,000	297,900	73	339,269	339,342
14 GMC AC ROCHESTER FLINT WEST D	0	0	0	0	0	0
Total	56,495	409,919	466,414	50,955	3,772,811	3,823,766

**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

* no changes in designations occurred between 1994 and 1996

Plant-Community Profile:
General Motors
Flint MI

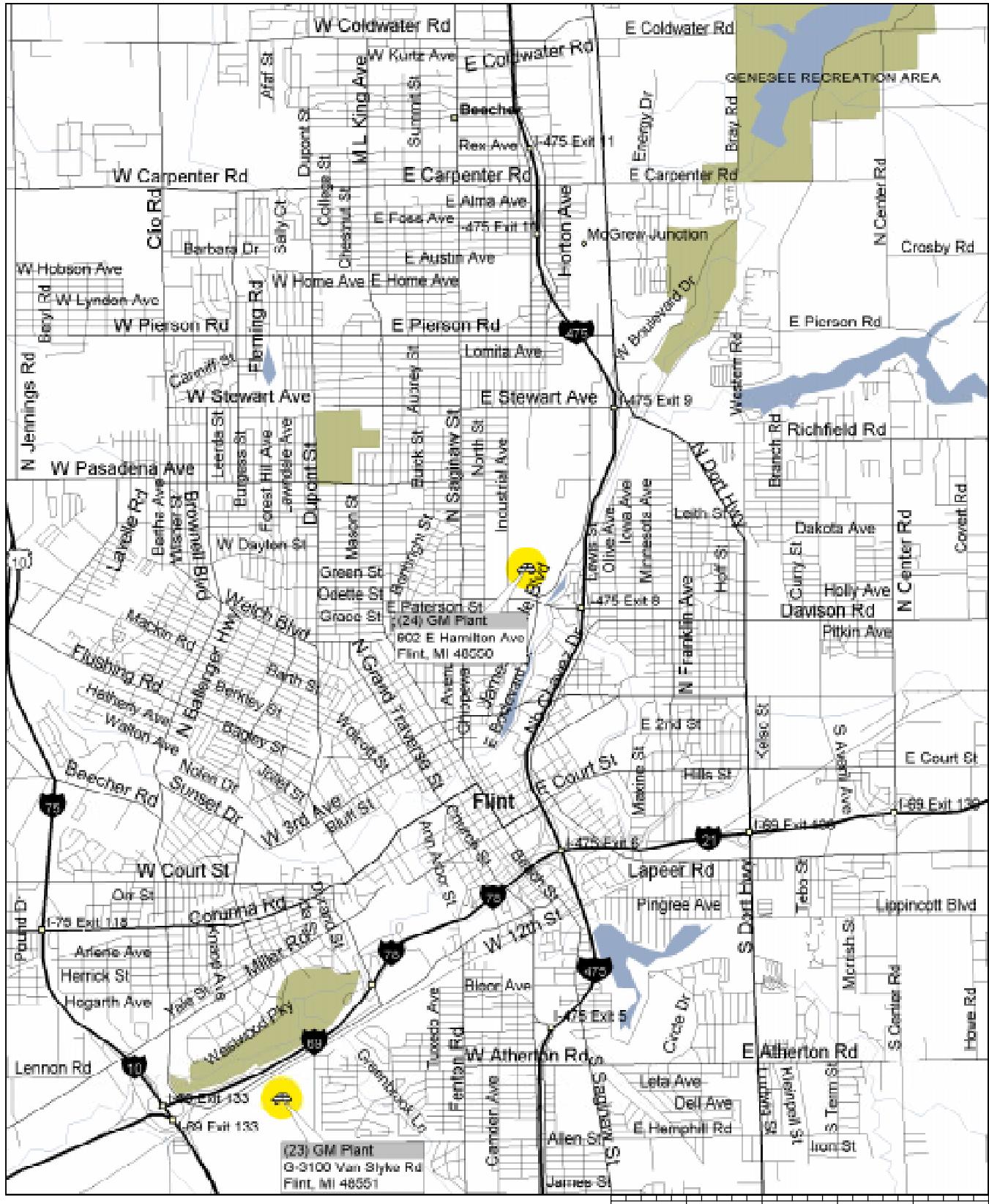
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COMMUNITY DEMOGRAPHIC AND ECONOMIC CHARACTERISTICS

<i>Census</i>	<i>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	433,297	9,496,539	260,340,990
Total Population (1990)	138	12,815	121,252	108,437	85,027	430,459	9,295,297	248,709,873
% Change 1990-1994	NA	NA	NA	NA	NA	1	2	5
Total Area (sq. mi.) (1990)	1.3	3.1	28.2	25.1	50.2	639.7	56,809.2	3,536,278.1
Population/sq. mi. (land area) (1990)	108	4,101	4,516	4,571	1,728	673	164	70
Median Household Income (1994)						NA	35,284	32,264
Median Household Income (1989)						31,030	31,020	30,056
% Change 1979-1989 (constant \$)						-12	-4	7
% Change 1989-1994 (constant \$)						NA	14	7
Per Capita Personal Income (1993)						19,139	20,584	20,800
Per Capita Personal Income (1989)						16,165	17,546	17,690
% Change 1989-1993 (current \$)						18	17	18
Minority Percentage (1990)	75	63	50	49	21	21	16	20
Pct. of Households Below Poverty Level (1989)	50	49	37	35	23	24	23	20
Pct. Not Completing High School (1990)	32	43	31	30	24	23	23	25
Total Employment (1994) (civilian nonfarm)						202,337	4,753,000	131,056,000
Unemployment Rate (1994)						8	6	6
Manufacturing Employment (1993)						49,494	906,672	18,183,381
Mfgr. as % Total Employment (1993)						33	26	19
Manufacturing Employment (1992)						49,200	917,000	18,253,000
Production Workers (1992)						39,100	574,000	11,654,000
% Change in Mfgr. Employment 1987-1992						NA	-7	-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.

Flint, MI, GM Plant - East Hamilton Ave.



GENERAL MOTORS CORP
 902 E HAMILTON AVE
 FLINT MI
 Tri Number: 48550BCFLN902EH

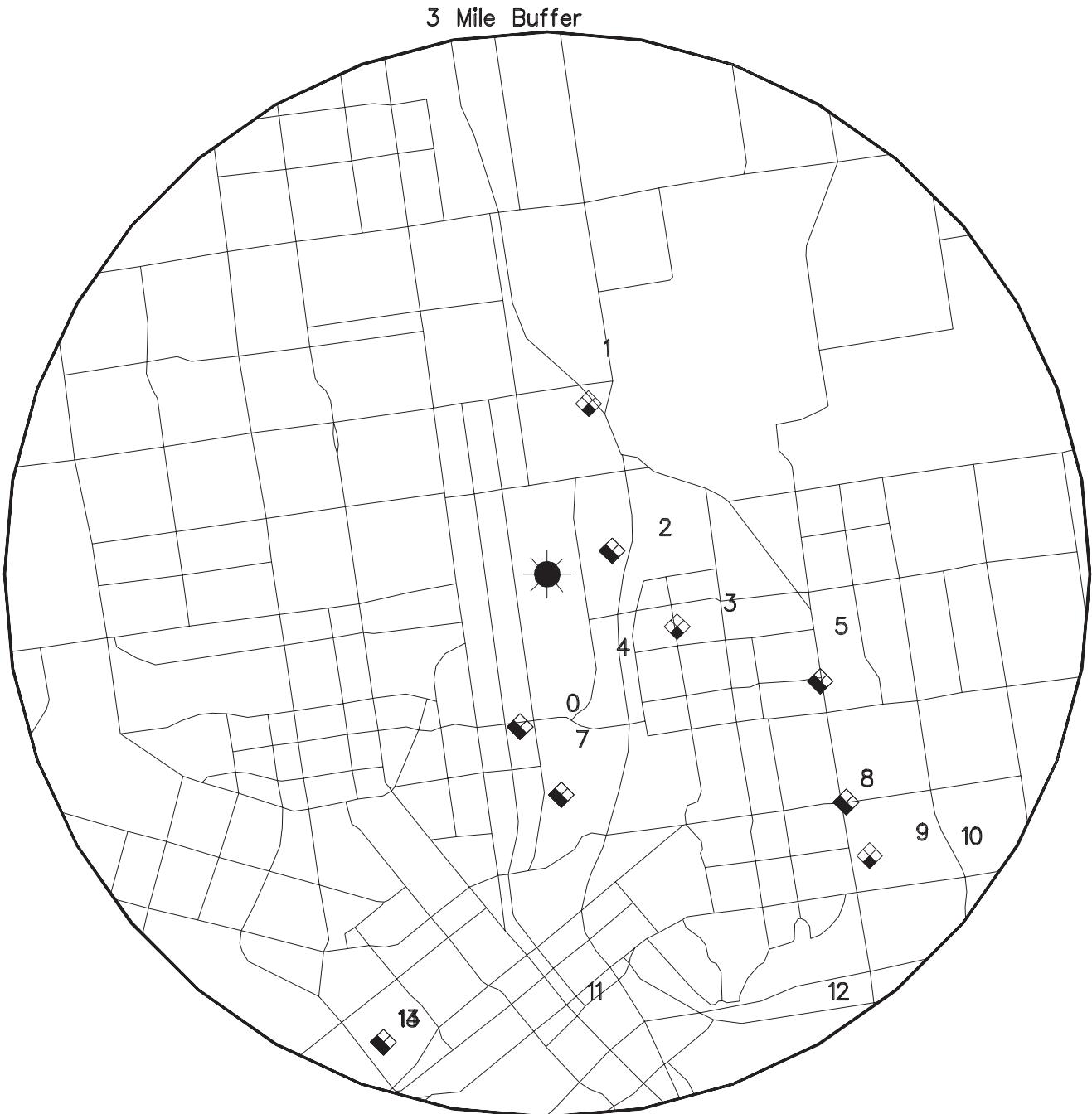
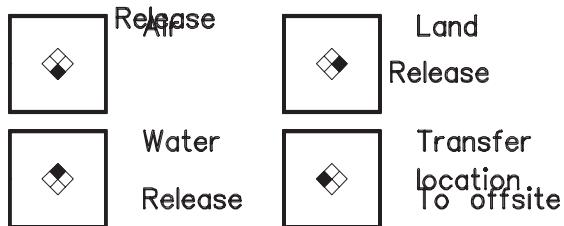
Map #	SIC	Name	Address	City	State
0	3710	GMC NAO FLINT OPS. BOC FLINT AUTOMOTIVE DIV.	902 E. HAMILTON AVE.	FLINT	MI
1	2800	LOCKHART CHEMICAL CO.	4701 THETFORD AVE.	FLINT	MI
2	2851	PPG IND. INC. FLORIDA	3601 JAMES P. COLE BLVD.	FLINT	MI
3	2026	MCDONALD DAIRY CO.	609 CHAVEZ DR.	FLINT	MI
4		SPECTRUM CASTING DIV.	1227 GARFIELD AVE.	FLINT	MI
5	2851	B. B. PAINT CORP.	2201 N. DORT HWY.	FLINT	MI
7	2851	DU PONT FLINT PLANT FLINT SITE	1555 JAMES P. COLE BLVD.	FLINT	MI
8	3714	GMC AC ROCHESTER DIV. FLINT E.	1300 N. DORT HWY.	FLINT	MI
9	3471	MID-STATE PLATING CO.	602 KELSO ST.	FLINT	MI
10	2086	PEPSI-COLA BOTTLING CO.	500 S. AVERILL AVE.	FLINT	MI
11	3471	STATE PLATING & FINISHING INC.	840 COTTAGE GROVE S.E. P.O. BOX 7449	GRAND RAPIDS	MI
12	2086	COCA-COLA BOTTLING CO. OF MICHIGAN	2515 LAPEER RD.	FLINT	MI
13	3714	GMC AC ROCHESTER FLINT WEST DIV.	300 N. CHEVROLET AVE.	FLINT	MI
14	3714	GMC AC ROCHESTER FLINT WEST DIV.	300 N. CHEVROLET AVE.	FLINT	MI

AREA WIDE 1994 TRI EMISSION PROFILE

GENERAL MOTORS CORP
GENESEE COUNTY, Michigan

Latitude: 43 2 6
Longitude: 83 41 19

Map Key:
Auto
Plant
Truck



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: 48550BCFLN902EH

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
GMC NAO FLINT OPS. BOC FLINT AUTOMOTIVE DIV.								
902 E. HAMILTON AVE.					SIC DESCRIPTION: SIC CODE: 3710			
FLINT	MI 48550 8502							
METHANOL	8,663	118	0	0	8,781	0	0	0
N-BUTYL ALCOHOL	10,052	31,988	0	0	42,040	0	0	0
BENZENE	210	0	0	0	210	0	0	0
1,1,1-TRICHLOROETHANE	12,899	0	0	0	12,899	0	0	0
METHYL ETHYL KETONE	29,159	34,508	0	0	63,667	0	0	0
1,2,4-TRIMETHYLBENZENE	290	0	0	0	290	0	0	0
ETHYLBENZENE	216	0	0	0	216	0	0	0
ETHYLENE GLYCOL	6	0	0	0	6	190	0	190
METHYL ISOBUTYL KETONE	58,954	183,409	0	0	242,363	0	0	0
TOLUENE	46,056	1,349	0	0	47,405	0	0	0
XYLENE (MIXED ISOMERS)	38,705	52,808	0	0	91,513	0	0	0
MANGANESE	0	0	0	0	0	0	21,180	21,180
NICKEL	0	0	0	0	0	0	141,025	141,025
CHROMIUM	0	0	0	0	0	0	120,500	120,500
COPPER	0	0	0	0	0	0	116,200	116,200
HYDROCHLORIC ACID	19,006	0	0	0	19,006	0	0	0
PHOSPHORIC ACID	0	0	0	0	0	0	7,900	7,900
AMMONIA	28	0	0	0	28	0	0	0
GLYCOL ETHERS	58,670	112,735	0	0	171,405	6	0	6
LEAD COMPOUNDS	0	0	0	0	0	0	215	215
ZINC COMPOUNDS	0	0	0	0	0	300	3,830	4,130
SUBTOTALS	282,914	416,915	0	0	699,829	496	410,850	411,346

LOCKHART CHEMICAL CO.				SIC DESCRIPTION: SIC CODE: 2800			MAP LOCATION NO:	1
4701 THETFORD AVE.								
FLINT	MI 48505							
METHANOL	0	750	0	0	750	0	0	0
N-BUTYL ALCOHOL	0	1,108	0	0	1,108	2,430	0	2,430
BARIUM COMPOUNDS	250	250	0	0	500	250	0	250
SUBTOTALS	250	2,108	0	0	2,358	2,680	0	2,680

1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF
GENERAL MOTORS CORP TRI NO: 48550BCFLN902EH

	Air Fugitive (Non-Point Source)	Air Stack (Point Source)	Discharge to Surface Water	On-Site Land Disposal	TOTAL RELEASES	Discharge to POTW	Transfer	TOTAL TRANSFERS
Chemical Name	Emissions	Emissions						

PPG IND. INC. FLORIDA SIC DESCRIPTION: PAINTS/VARNISH/LACQUERS/ENAMEL MAP LOCATION NO:
 3601 JAMES P. COLE BLVD. SIC CODE: 2851
 FLINT MI 48505

	5	17	0	0	22	0	2,943	2,943
N-BUTYL ALCOHOL	5	17	0	0	22	0	2,943	2,943
METHYL ISOBUTYL KETONE	5	5	0	0	10	0	9,817	9,817
XYLENE (MIXED ISOMERS)	5	10	0	0	15	0	14,032	14,032
GLYCOL ETHERS	5	32	0	0	37	0	9,818	9,818
SUBTOTALS	20	64	0	0	84	0	36,610	36,610

MCDONALD DAIRY CO. SIC DESCRIPTION: FLUID MILK MAP LOCATION NO: 3
 609 CHAVEZ DR. SIC CODE: 2026
 FLINT MI 48503

PHOSPHORIC ACID	0	0	0	0	0	42,075	0	42,075
AMMONIA	15,150	0	0	0	15,150	0	0	0
SUBTOTALS	15,150	0	0	0	15,150	42,075	0	42,075

SPECTRUM CASTING DIV. SIC DESCRIPTION: MAP LOCATION NO:
1227 GARFIELD AVE. SIC CODE:
FLINT MI 48505 3962

1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF
 GENERAL MOTORS CORP TRI NO: 48550BCFLN902EH

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
B. B. PAINT CORP.								
2201 N. DORT HWY. FLINT	MI 48506							
TOLUENE	250	0	0	0	250	0	3,918	3,918
XYLENE (MIXED ISOMERS)	750	0	0	0	750	0	3,918	3,918
SUBTOTALS	1,000	0	0	0	1,000	0	7,836	7,836
DU PONT FLINT PLANT FLINT SITE								
1555 JAMES P. COLE BLVD. FLINT	MI 48503 1700							
METHANOL	0	181	0	0	181	0	11,023	11,023
N-BUTYL ALCOHOL	959	978	0	0	1,937	0	34,239	34,239
METHYL ETHYL KETONE	0	476	0	0	476	0	52,956	52,956
TOLUENE	19	892	0	0	911	0	51,000	51,000
XYLENE (MIXED ISOMERS)	978	20,170	0	0	21,148	0	670,698	670,698
GLYCOL ETHERS	884	6,310	0	0	7,194	0	1,565,629	1,565,629
SUBTOTALS	2,840	29,007	0	0	31,847	0	2,385,545	2,385,545
GMC AC ROCHESTER DIV. FLINT E.								
1300 N. DORT HWY. FLINT	MI 48556							
TRICHLOROETHYLENE	2,100	0	0	0	2,100	0	4,000	4,000
ETHYLENE GLYCOL	0	0	0	0	0	0	28,000	28,000
TOLUENE	1,900	4,700	0	0	6,600	5	291	296
DI(2-ETHYLHEXYL) PHTHALATE	0	6,600	0	0	6,600	500	17	517
XYLENE (MIXED ISOMERS)	4,700	39,000	0	0	43,700	0	1,210	1,210
LEAD	0	0	0	0	0	5	29,425	29,430
MANGANESE	0	0	0	0	0	0	609	609
CHROMIUM	0	190	0	0	190	150	59,724	59,874
COPPER	0	0	0	0	0	160	845,790	845,950
HYDROCHLORIC ACID	0	33,000	0	0	33,000	0	0	0
GLYCOL ETHERS	380	25,000	0	0	25,380	0	450	450
NICKEL COMPOUNDS	0	0	0	0	0	2,400	28,453	30,853
ZINC COMPOUNDS	0	0	0	0	0	1,600	5,582	7,182
SUBTOTALS	9,080	108,490	0	0	117,570	4,820	1,003,551	1,008,371

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 GENERAL MOTORS CORP TRI NO: 48550BCFLN902EH

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
MID-STATE PLATING CO. 602 KELSO ST. FLINT				SIC DESCRIPTION: PLATING AND POLISHING SIC CODE: 3471			MAP LOCATION NO:	9
		MI 48506						
HYDROCHLORIC ACID NITRIC ACID	5 250	250 0	0 0	0 0	255 250	0 0	0 0	0 0
	SUBTOTALS	255	250	0	0	505	0	0
PEPSI-COLA BOTTLING CO. 500 S. AVERILL AVE. FLINT				SIC DESCRIPTION: BOT & CAN SOFT DRNK & CARB WA SIC CODE: 2086			MAP LOCATION NO:	10
		MI 48506						
	SUBTOTALS	0	0	0	0	0	0	0
STATE PLATING & FINISHING INC. 840 COTTAGE GROVE S.E. P.O. BOX 7449 GRAND RAPIDS				SIC DESCRIPTION: PLATING AND POLISHING SIC CODE: 3471			MAP LOCATION NO:	11
		MI 48503						
	SUBTOTALS	0	0	0	0	0	0	0
COCA-COLA BOTTLING CO. OF MICHIGAN 2515 LAPEER RD. FLINT				SIC DESCRIPTION: BOT & CAN SOFT DRNK & CARB WA SIC CODE: 2086			MAP LOCATION NO:	12
		MI 48503						
PHOSPHORIC ACID	0	0	0	0	0	1,307	0	1,307
	SUBTOTALS	0	0	0	0	1,307	0	1,307

1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF
GENERAL MOTORS CORP TRI NO: 48550BCFLN902EH

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
GMC AC ROCHESTER FLINT WEST DIV.				SIC DESCRIPTION:	MOTOR VEHICLE PARTS & ACCESSOR	MAP	LOCATION NO:	1
300 N. CHEVROLET AVE.				SIC CODE: 3714				
FLINT	MI 48555							
METHYL ETHYL KETONE	15,000	120,000	0	0	135,000	0	7,500	7,500
TOLUENE	4,600	38,000	0	0	42,600	0	2,300	2,300
XYLENE (MIXED ISOMERS)	8,300	69,000	0	0	77,300	0	4,100	4,100
LEAD	0	0	0	0	0	55	4,114	4,169
MANGANESE	0	0	0	0	0	4	60,711	60,715
NICKEL	0	0	0	0	0	8	6,336	6,344
CHROMIUM	0	0	0	0	0	0	207,331	207,331
COPPER	0	0	0	0	0	6	46,877	46,883
HYDROCHLORIC ACID	0	43,000	0	0	43,000	0	0	0
SUBTOTALS	27,900	270,000	0	0	297,900	73	339,269	339,342

GMC AC ROCHESTER FLINT WEST DIV.	SIC DESCRIPTION:	MOTOR VEHICLE PARTS & ACCESSOR	MAP LOCATION NO:	14
300 N. CHEVROLET AVE.	SIC CODE:	3714		
FLINT	MI	48555		
SUBTOTALS	0	0	0	0
	0	0	0	0

General Motors (Buick City) Flint Genesee County, Michigan

Latitude: 43° 26' N
Longitude: 83° 41' 19" W

MAP KEY:

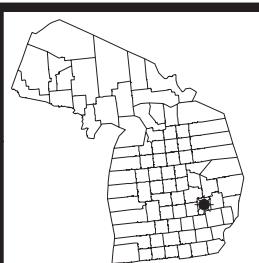
- County Boundaries
- Inter State Highway
- US Highway
- Rail Road
- One Mile
- Three Miles
- Five Miles

POPULATION DENSITY / SQ. MILE

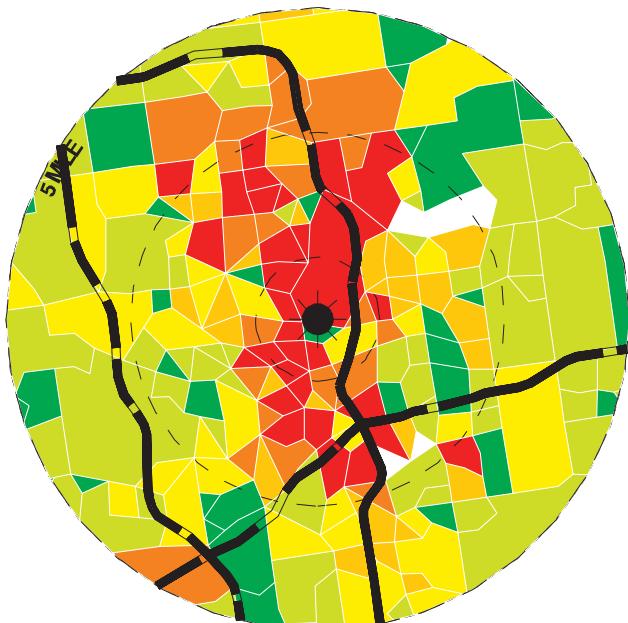
- Greater than 10000
- 1000 - 10000
- 100 - 1000
- 10-100
- 1-10

Minority, poverty, and High School Incomplete percentages

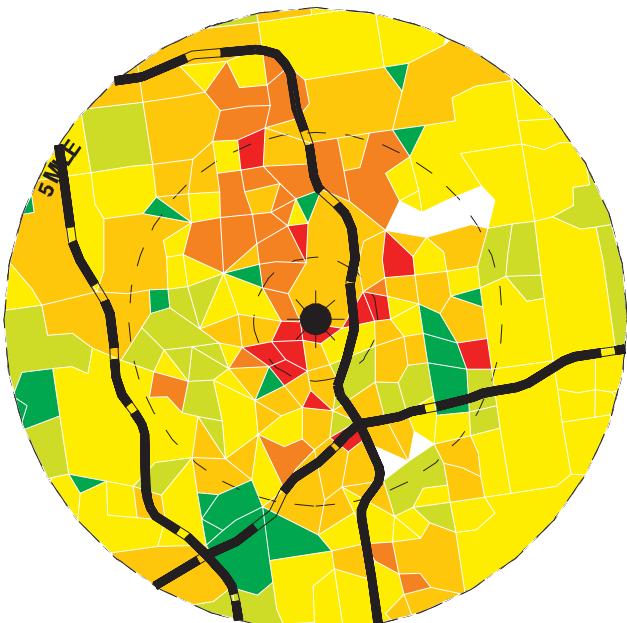
- Greater than 50
- 40 - 50
- 30 - 40
- 20 - 30
- 10 - 20
- 0 - 10



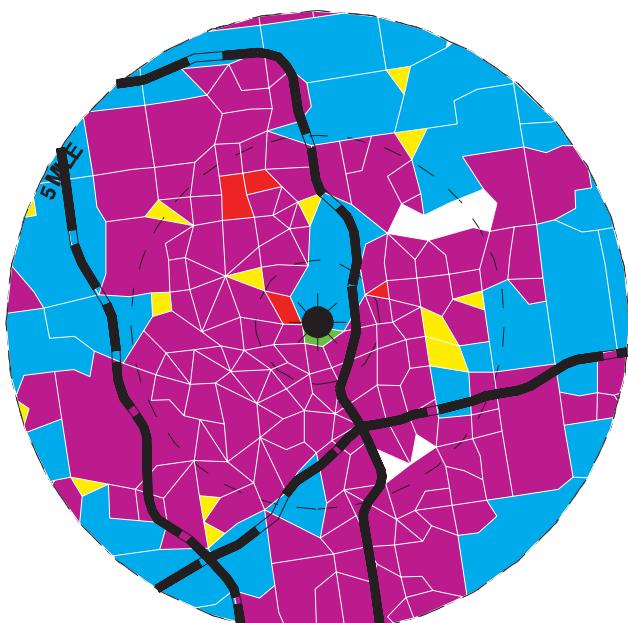
Percentage of Total Population Below Poverty Level



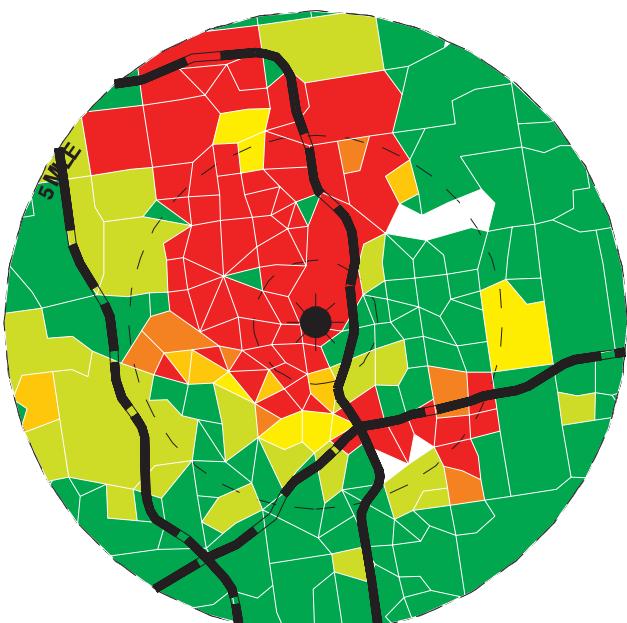
Percentage of Population not Completing High School



Population Density
People Per Sq. Mile



Minority Population
Percent of Total Population



General Motors (Buick City) Flint Genesee County, Michigan

MAP KEY:

- County Boundaries
- Inter State Highway
- US Highway
- Rail Road
- One Mile
- Three Miles
- Five Miles

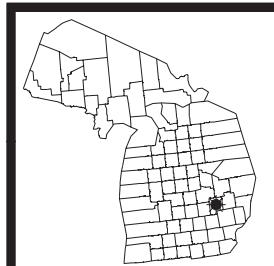
POPULATION DENSITY / SQ. MILE

- Greater than 10000
- 1000 - 10000
- 100 - 1000
- 10-100
- 1-10

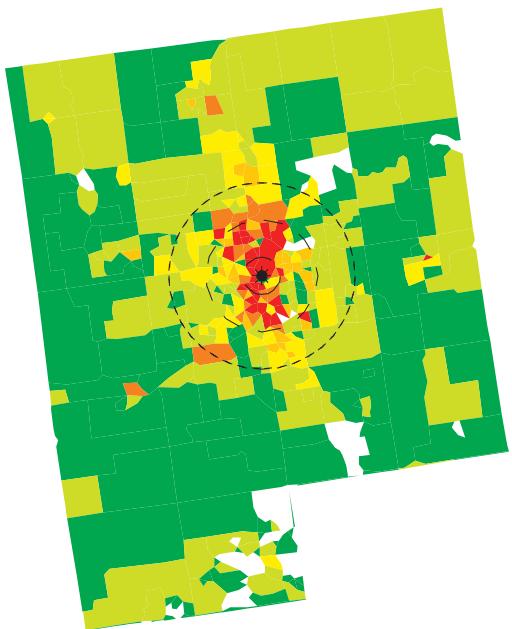
Latitude: 43 26 N
Longitude: 83 41 19 W

Minority, poverty, and High School Incomplete percentages

- Greater than 50
- 40 - 50
- 30 - 40
- 20 - 30
- 10 - 20
- 0 - 10



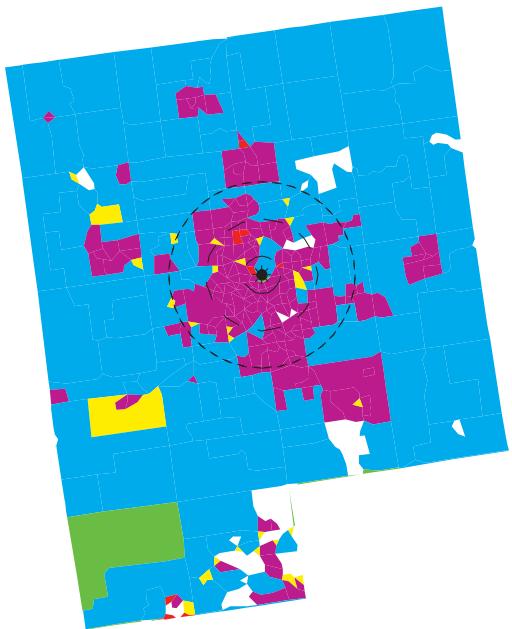
Percentage of Total Population Below Poverty Level



Percentage of Population not Completing High School



Population Density
People Per Sq. Mile



Minority Population
Percent of Total Population

