

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**

**50. General Motors
Oklahoma, OK**

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
Oklahoma OK**

12/2/97

LOCATION	Address	7447 SE 74th St., Oklahoma City OK 73125		DESCRIPTION	Produced Buick Century and Olds Cutlass Ciera in 1994.		
	Lat/Long:	latitude (degrees N)	35 23' 40"		ID NUMBERS	RCRA ID	OKD082565714
		longitude (degrees W)	97 23' 50"	AIRS ID		AFS4010900044	
	County:	Oklahoma	MSA: Oklahoma City, OK	NPDES ID		OK0035203	
	Other counties within 3 miles of plant:		Cleveland	TRI	73134GNRLM7447S		
OPERATIONS		Production	Employment				
	Calendar Year: 1991	237,049					
	1992	221,960					
	1993	245,829					
	1994	268,900	4,707				

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	B202 org. liquids	A19 other clean/degr.	Off	M021 solvents recov.	9.8	9.8	0.0
D001(ignit) F003, F005 (solvents)	N	B219 org. liquids	A59 1x/intermittent	Off	M051 energy recov.	252.6	257.6	0.0
F002 (halog. solvents)	N	B202 org. liquids	A19 other clean/degr.	Off	M021 solvents recov.	0.5	0.5	0.0
F003, F005 (nonhalog. solvents)	N	B203 org. liquids	A21 painting	Off	M022 solvents recov.	627.8	627.8	0.0
TOTAL - 1991						890.7	895.7	0.0
<i>1993</i>								
D001 (ignit.) F003, F005 (solvents)	N	B219 org. liquid	A59 1x/intermittent	Off	M051 energy recov.	279.3	279.3	0.0
D001 (ignit.) F003, F005 (solvents)	N	B319 inorg. solids	A19 other clean/degr.	Off	M043 incineration	8.1	8.1	0.0
D001, D018, D039	N	B202 org. liquids	A19 other clean/degr.	Off	M021 solvents recov.	8.7	8.7	0.0
D006, D018, D039, D040, F002	N	B202 org. liquids	A19 other clean/degr.	Off	M021 solvents recov.	0.4	0.4	0.0
D008 (lead)	N	B310 inorg. solids	A22 electroplating	Off	M132 landfill	9.0	9.0	0.0
F003, F005 (solv) D001(ignit)	N	B203 org. liquid	A21 painting	Off	M022 solvents recov.	704.6	704.6	0.0
TOTAL - 1993						1,010.1	1,010.1	0.0

TOXICS RELEASE INVENTORY

	<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>
Total lbs of TRI chemicals:									
1991	160,592	1,112,312	1,272,904	1,996	328,493	1,114,463	0	73	1,445,025
1992	71,558	981,185	1,052,743	2,431	359,459	1,198,381	0	11	1,560,282
1993	113,780	1,023,346	1,137,126	3,221	535,961	1,317,435	0	5,081	1,861,698
1994	51,843	1,119,137	1,170,980	1,472	336,812	821,453	0	5,269	1,165,006
Lbs. per vehicle produced:									
1991	0.68	4.69	5.37	0.01	1.39	4.70	0.00	0.00	6.10
1992	0.32	4.42	4.74	0.01	1.62	5.40	0.00	0.00	7.03
1993	0.46	4.16	4.63	0.01	2.18	5.36	0.00	0.02	7.57
1994	0.19	4.16	4.35	0.01	1.25	3.05	0.00	0.02	4.33

**Plant-Community Profile:
General Motors
Oklahoma City OK**

12/2/97

PLANT ENVIRONMENTAL PROFILE (continued)

1994 TRI Emissions/Releases by Chemical (lbs.)

<i>Chemical Name</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>
METHANOL	49,314	21,134	70,448	0	12,628	34,823	0	0	47,451
N-BUTYL ALCOHOL	0	56,822	56,822	839	20,868	3,831	0	0	25,538
BENZENE	315	0	315	0	750	0	0	0	750
METHYL ETHYL KETONE	0	19,132	19,132	0	6,661	3,831	0	0	10,492
1,2,4-TRIMETHYLBENZENE	255	84,726	84,981	0	21,950	9,959	0	0	31,909
ETHYLBENZENE	0	138,746	138,746	75	18,837	103,308	0	0	122,220
ETHYLENE GLYCOL	0	7,556	7,556	425	7,893	0	0	0	8,318
METHYL ISOBUTYL KETONE	0	84,876	84,876	0	56,196	154,963	0	0	211,159
TOLUENE	450	14,075	14,525	18	21,047	58,038	0	2	79,105
CYCLOHEXANE	79	0	79	0	26	0	0	0	26
XYLENE (MIXED ISOMERS)	1,416	614,157	615,573	115	138,385	452,700	0	12	591,212
LEAD	0	0	0	0	0	0	0	5,255	5,255
HYDROCHLORIC ACID	14	0	14	0	0	0	0	0	0
GLYCOL ETHERS	0	77,913	77,913	0	31,571	0	0	0	31,571
TOTAL	51,843	1,119,137	1,170,980	1,472	336,812	821,453	0	5,269	1,165,006

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

	VOCs	NOx
1990	2,510,240	206,940
1991	2,386,000	248,880
1992	2,368,400	260,640
1993	3,126,020	288,460
1994	3,469,600	305,140

**Plant-Community Profile:
General Motors
Oklahoma OK**

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 TINKER AIR FORCE BASE	265,781	1,348,921	1,615,119	0	57,070	57,070
2 UNIT PARTS CO.	0	6,100	6,100	0	0	0
3 LAMSON & SESSIONS CARLON DIV.	0	0	0	0	0	0
4 ESP PRODS. INC.	1,616	0	1,621	0	12,000	12,000
5 VISTA CHEMICAL CO. OKC PVC PLAN	760	25,007	25,767	0	3	3
6 SEQUA CORP. CHROMALLOY DIV.	0	0	0	0	0	0
7 BAKER HUGHES INTEQ	0	0	0	0	5,000	5,000
8 SOUTHWEST ELECTRIC CO.	0	0	0	0	451,300	451,300
Total	268,157	1,380,028	1,648,607	0	525,373	525,373

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

ozone - attainment or unclassifiable
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
Oklahoma, OK**

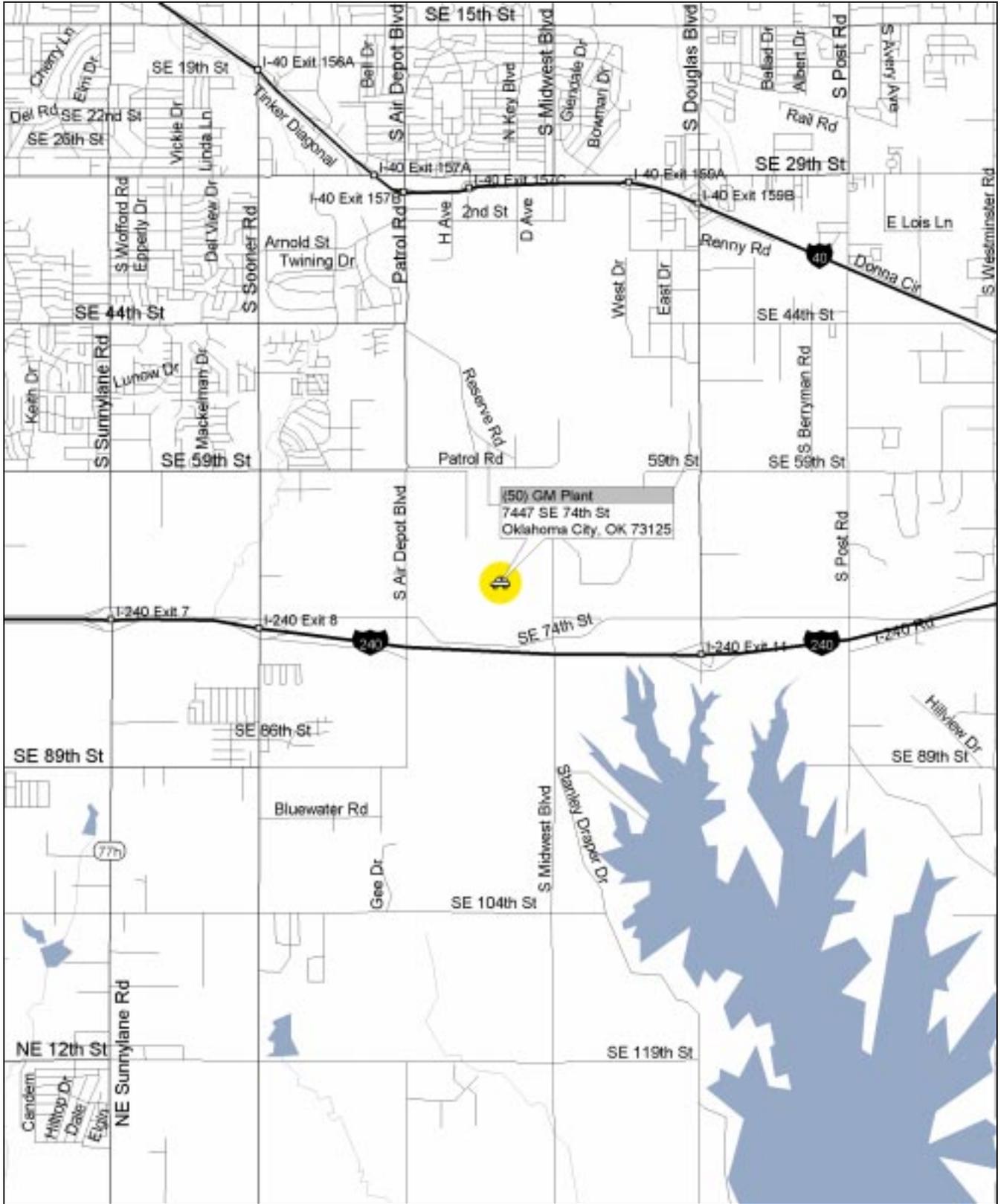
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COMMUNITY DEMOGRAPHIC AND ECONOMIC CHARACTERISTICS

	<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	623,752	3,258,074	260,340,990
Total Population (1990)	178	595	25,492	24,897	64,832	599,611	3,145,585	248,709,873
% Change 1990-1994	NA	NA	NA	NA	NA	4	4	5
Total Area (sq. mi.) (1990)	3.0	3.1	28.2	25.1	50.2	709.2	68,678.5	3,536,278.1
Population/sq. mi. (land area) (1990)	59	195	997	1,106	1,420	846	46	70
Median Household Income (1994)						NA	31,855	32,264
Median Household Income (1989)						26,129	28,706	30,056
% Change 1979-1989 (constant \$)						-5	-4	7
% Change 1989-1994 (constant \$)						NA	11	7
Per Capita Personal Income (1993)						19,587	17,026	20,800
Per Capita Personal Income (1989)						16,661	14,187	17,690
% Change 1989-1993 (current \$)						18	20	18
Minority Percentage (1990)	36	28	26	26	19	22	17	20
Pct. of Households Below Poverty Level (1989)	0	2	9	9	16	29	29	20
Pct. Not Completing High School (1990)	19	11	12	12	18	21	24	25
Total Employment (1994) (civilian nonfarm)						310,445	1,540,000	131,056,000
Unemployment Rate (1994)						5	6	6
Manufacturing Employment (1993)						40,935	161,668	18,183,381
Mfgr. as % Total Employment (1993)						14	16	19
Manufacturing Employment (1992)						NA	157,000	18,253,000
Production Workers (1992)						NA	109,000	11,654,000
% Change in Mfgr. Employment 1987-1992						NA	4	-4
Assembly Plant as % Total Mfgr. Workers						11		

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

Oklahoma City, OK, GM Plant



Microsoft Expedia
Streets98

GENERAL MOTORS CORP
7447 SE 74TH ST
OKLAHOMA CITY OK
Tri Number: 73134GNRLM7447S

Map #	SIC	Name	Address	City	State
0	3711	GMC ASSEMBLY PLANT NAO MIDSIZE DIV.	7447 S.E. 74TH ST.	OKLAHOMA CITY	OK
1	3724	TINKER AIR FORCE BASE	8745 ENTRANCE RD. A BLDG. 3333	OKLAHOMA CITY	OK
2	3714	UNIT PARTS CO.	4600 S.E. 59TH ST.	OKLAHOMA CITY	OK
3	3644	LAMSON & SESSIONS CARLON DIV.	6500 S. INTERPACE	OKLAHOMA CITY	OK
4	3561	ESP PRODS. INC.	5500 S.E. 59TH ST.	OKLAHOMA CITY	OK
5	2821	VISTA CHEMICAL CO. OKC PVC PLANT	5200 S.E. 59TH ST.	OKLAHOMA CITY	OK
6	3724	SEQUA CORP. CHROMALLOY DIV.	6501 INTERPACE	OKLAHOMA CITY	OK
7	3533	BAKER HUGHES INTEQ	6205 S. SOONER RD.	OKLAHOMA CITY	OK
8	3612	SOUTHWEST ELECTRIC CO.	6501 S.E. 74TH	OKLAHOMA CITY	OK

AREA WIDE 1994 TRI EMISSION PROFILE

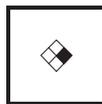
GENERAL MOTORS CORP
OKLAHOMA COUNTY, Oklahoma

Latitude: 35 23 40
Longitude: 97 23 50

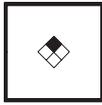
Map Key:
Auto
Plant
Truck



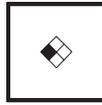
Air
Release



Land
Release

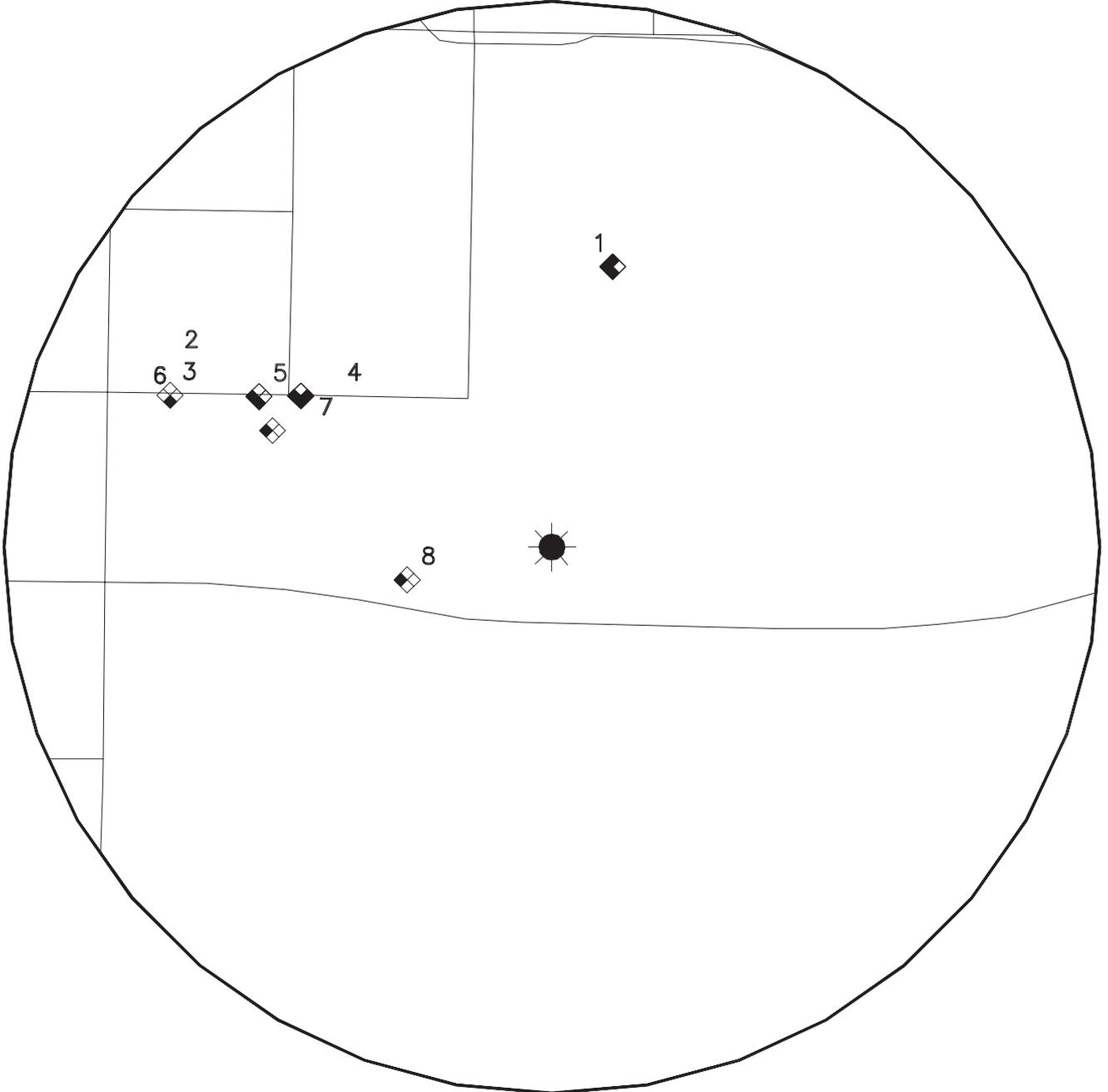


Water
Release



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: 73134GNRLM7447S

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 ASSEMBLY PLANT NAO MIDSIZE DIV. SIC DESCRIPTION: MOTOR VEHICLES & CAR BODIES MAP LOCATION NO: 0								
7447 S.E. 74TH ST. SIC CODE: 3711								
OKLAHOMA CITY OK 73134								
METHANOL	49,314	21,134	0	0	70,448	0	47,451	47,451
N-BUTYL ALCOHOL	0	56,822	0	0	56,822	839	24,699	25,538
BENZENE	315	0	0	0	315	0	750	750
METHYL ETHYL KETONE	0	19,132	0	0	19,132	0	10,492	10,492
1,2,4-TRIMETHYLBENZENE	255	84,726	0	0	84,981	0	31,909	31,909
ETHYLBENZENE	0	138,746	0	0	138,746	75	122,145	122,220
ETHYLENE GLYCOL	0	7,556	0	0	7,556	425	7,893	8,318
METHYL ISOBUTYL KETONE	0	84,876	0	0	84,876	0	211,159	211,159
TOLUENE	450	14,075	0	0	14,525	18	79,087	79,105
CYCLOHEXANE	79	0	0	0	79	0	26	26
XYLENE (MIXED ISOMERS)	1,416	614,157	0	0	615,573	115	591,097	591,212
LEAD	0	0	0	0	0	0	5,255	5,255
HYDROCHLORIC ACID	14	0	0	0	14	0	0	0
GLYCOL ETHERS	0	77,913	0	0	77,913	0	31,571	31,571
SUBTOTALS	51,843	1,119,137	0	0	1,170,980	1,472	1,163,534	1,165,006

1994 TRI EMISSIONS (LB/YEAR) AT FACILITIES WITHIN THREE MILES OF
 GENERAL MOTORS CORP TRI NO: 73134GNRLM7447S

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
TINKER AIR FORCE BASE SIC DESCRIPTION: AIRCRAFT ENGINES & ENGINE PART MAP LOCATION NO: 1								
8745 ENTRANCE RD. A BLDG. 3333 SIC CODE: 3724								
OKLAHOMA CITY OK 73145 3303								
1,1,1-TRICHLOROETHANE	42,269	94	0	0	42,363	0	4,690	4,690
DICHLOROMETHANE	1,180	855,370	0	0	856,550	0	2,005	2,005
	7,469	0	0	0	7,469	0	0	0
DICHLORODIFLUOROMETHANE	245	0	0	0	245	0	0	0
FREON 113	15,021	0	0	0	15,021	0	7,481	7,481
METHYL ETHYL KETONE	21,424	164,333	11	0	185,768	0	0	0
1,2-DICHLOROBENZENE	343	6,326	0	0	6,669	0	6,406	6,406
ETHYLENE GLYCOL	18,208	0	0	0	18,208	0	1,255	1,255
METHYL ISOBUTYL KETONE	341	4,020	0	0	4,361	0	4,848	4,848
TOLUENE	7,186	10,632	0	0	17,818	0	9,687	9,687
PHENOL	170	223,380	1	0	223,551	0	1,250	1,250
TETRACHLOROETHYLENE	30,864	69,608	0	0	100,472	0	11,748	11,748
XYLENE (MIXED ISOMERS)	12,668	4,222	0	0	16,890	0	4,850	4,850
MANGANESE	15	1	63	0	79	0	20	20
NICKEL	1,297	77	121	0	1,495	0	755	755
COBALT	728	83	0	0	811	0	20	20
COPPER	5	0	48	0	53	0	20	20
AMMONIA	23,724	4	0	0	23,728	0	5	5
CHROMIUM COMPOUNDS	654	4,611	173	0	5,438	0	1,030	1,030
GLYCOL ETHERS	81,970	6,160	0	0	88,130	0	1,000	1,000
SUBTOTALS	265,781	1,348,921	417	0	1,615,119	0	57,070	57,070
UNIT PARTS CO. SIC DESCRIPTION: MOTOR VEHICLE PARTS & ACCESSOR MAP LOCATION NO: 2								
4600 S.E. 59TH ST. SIC CODE: 3714								
OKLAHOMA CITY OK 73135								
STYRENE	0	6,100	0	0	6,100	0	0	0
SUBTOTALS	0	6,100	0	0	6,100	0	0	0

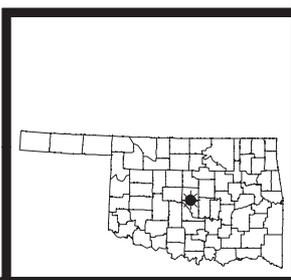
General Motors Oklahoma City Oklahoma County, Oklahoma

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Longitude: 97 23 50 W

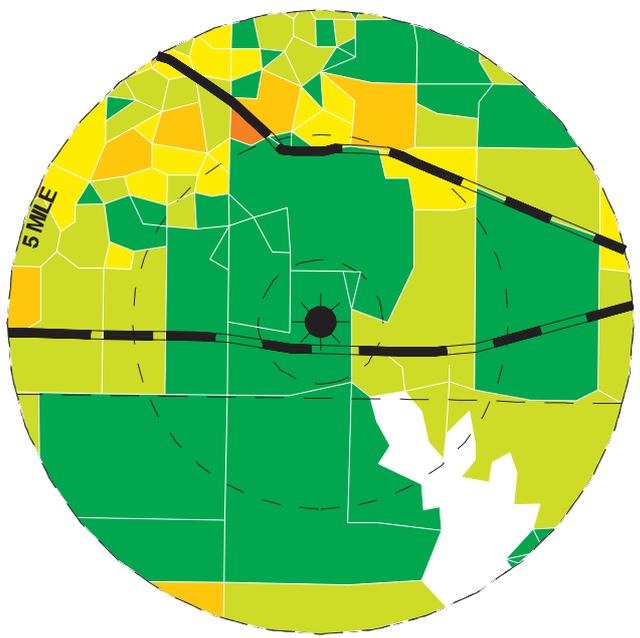
- MAP KEY:**
- County Boundaries
 - Inter State Highway
 - US Highway
 - Rail Road
 - One Mile
 - Three Miles
 - Five Miles

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

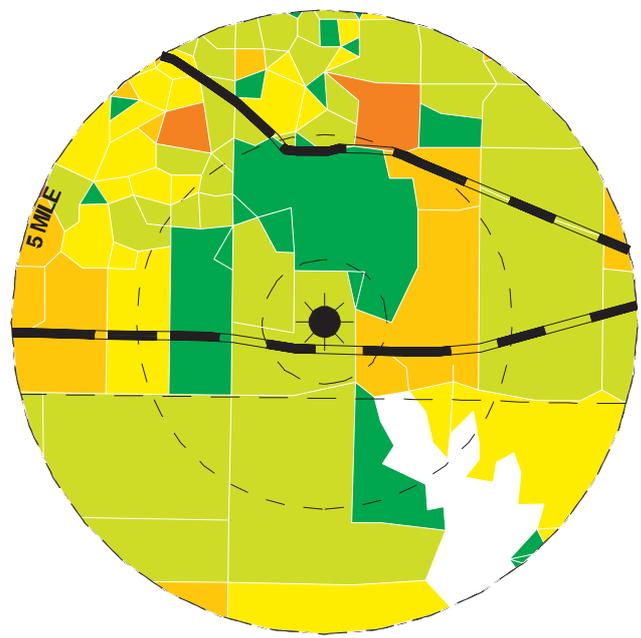
- Minority, poverty, and High School Incomplete percentages**
- Greater than 50
 - 40 - 50
 - 30 - 40
 - 20 - 30
 - 10 - 20
 - 0 - 10



Percentage of Total Population Below Poverty Level



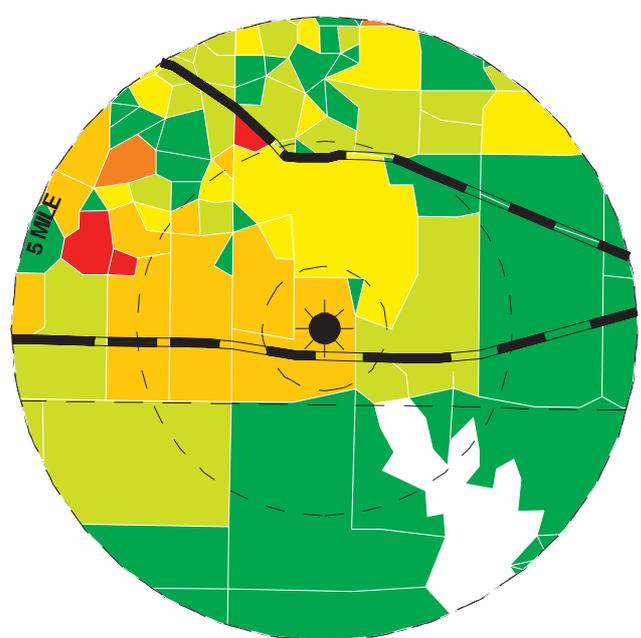
Percentage of Population not Completing High School



Population Density People Per Sq. Mile



Minority Population Percent of Total Population



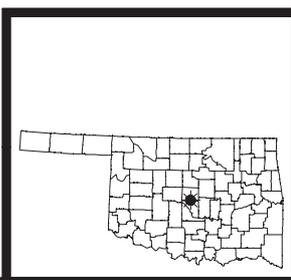
General Motors Oklahoma City Oklahoma County, Oklahoma

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Longitude: 97 23 50 W

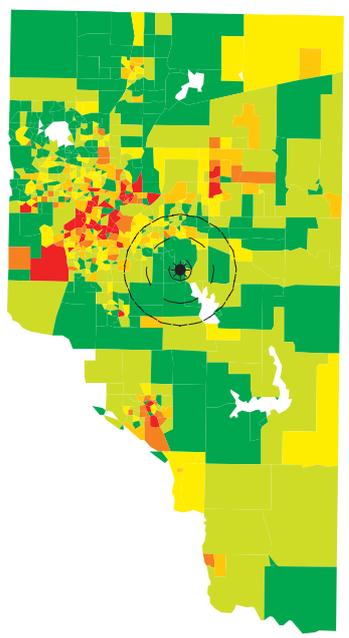
- MAP KEY:**
-  County Boundaries
 -  Inter State Highway
 -  US Highway
 -  Rail Road
 -  One Mile
 -  Three Miles
 -  Five Miles

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

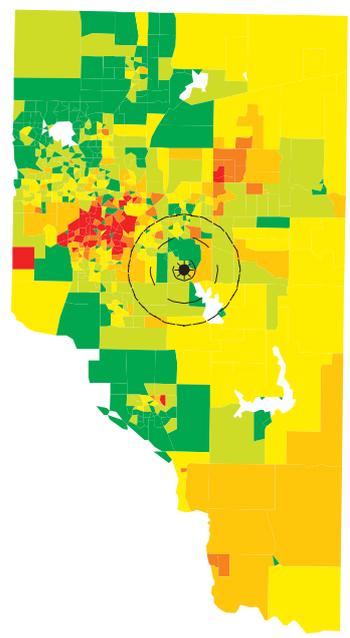
- Minority, poverty, and High School Incomplete percentages**
-  Greater than 50
 -  40 - 50
 -  30 - 40
 -  20 - 30
 -  10 - 20
 -  0 - 10



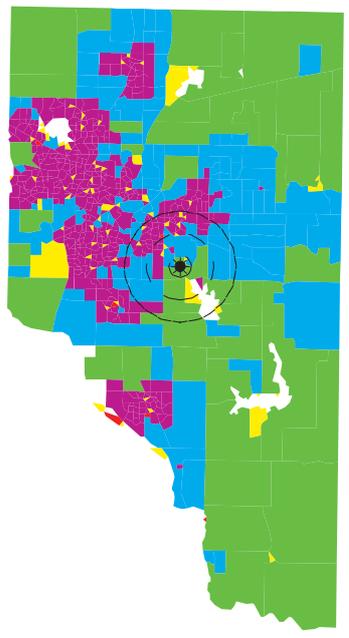
Percentage of Total Population Below Poverty Level



Percentage of Population not Completing High School



Population Density People Per Sq. Mile



Minority Population Percent of Total Population

