

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**

**14. Ford Motor Co.
Louisville, KY**

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)
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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:
Ford Motor Co. (KY Truck)
Louisville KY**

12/2/97

LOCATION	Address	3001 Chamberlain Lane, Louisville KY 40241	DESCRIPTION	Plant opened 1969; Produced Ford F series trucks and heavy trucks in 1994
	Lat/Long:	latitude (degrees N) 38 17' 30" longitude (degrees W) 85 31' 50"		
	County:	Jefferson MSA: Louisville KY-IN	ID NUMBERS	RCRA ID KYD 053351227 AIRS ID AFS2111100073 NPDES ID - TRI 40222FRDMT3001C
	Other counties within 3 miles of plant:	Oldham		
OPERATIONS	Production	Employment		
Calendar Year: 1991	33,298			
1992	45,542			
1993	64,848			
1994	128,000	3,237		

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)
<i>1991</i>								
D001 (ignit) F001, F003, F005 (solvents)	N	B209 org. liquids	A21 painting	Off	M061 fuel blending	144.2	144.2	0.0
D001 (ignitable) D008 (lead)	N	B403 org. solids	A49 other processes	Off	M043 incineration	10.4	10.4	0.0
D001, D008, D018	?	B119 inorg. liquids	A56 1x/intermittent	Off	M061 fuel blending	2.2	2.2	0.0
D007 (chromium)	?	B119 inorg. liquids	A21 painting	Off	M111 stabilization	336.0	336.0	0.0
D007 (chromium) D008 (lead)	N	B319 inorg. solids	A56 1x/intermittent	Off	M132 landfill	22.4	22.4	0.0
D008 (lead)	N	B319 inorg. solids	A22 electroplating	Off	M111 stabilization	235.2	235.2	0.0
D009 (mercury)	N	B117 inorg. liquids	A59 1x/intermittent	Off	M141 transfer facil.	0.3	0.3	0.0
TOTAL - 1991						750.7	750.7	0.0
<i>1993</i>								
D001 (ignitable)	N	B210 org. liquid	A49 other processes	Off	M061 fuel blending	1.8	1.8	0.0
D001 (ignitable)	N	B211 org. liquid	A04 flush rinsing	Off	M029 solvents recov.	550.2	550.2	0.0
D001, D008, D035, F003, F005	N	B209 org. liquid	A21 painting	Off	M061 fuel blending	579.8	579.8	0.0
D002 (corrosive)	?	B119 inorg liquid	A58 1x/intermittent	Off	M111 stabilization	2.3	2.3	0.0
D007 (chromium)	N	B604 org. sludges	A21 painting	Off	M111 stabilization	123.2	123.2	0.0
D008 (lead)	N	B319 inorg. solids	A29 other surface prep	Off	M111 stabilization	209.5	209.5	0.0
D008 (lead)	N	B319 inorg. solids	A29 other surface prep	Off	M111 stabilization	67.2	67.2	0.0
D008 (lead) D009 (mercury)	N	B319 inorg. solids	A99 other processes	Off	M132 landfill	9.6	9.6	0.0
D009 (mercury)	N	B117 inorg liquid	A56 1x/intermittent	Off	M019 metals recov.	0.2	0.2	0.0
D009 (mercury)	N	B117 inorg liquid	A56 1x/intermittent	Off	M019 metals recov.	0.1	0.1	0.0
F005 (nonhalog solvents)	N	B319 inorg. solids	A29 other surface prep	Off	M061 fuel blending	0.7	0.7	0.0
TOTAL - 1993						1,544.7	1544.7	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	52,372	175,521	227,893	52,145	92,790	0	411	1,880	147,226
1992	45,360	245,700	291,060	17,930	106,413	0	690	2,200	127,233
1993	33,400	646,793	680,193	34,800	282,142	520,000	4,980	3,300	845,222
1994	117,322	418,872	536,194	80,303	166,897	1,169,000	1,610	28,650	1,446,460
Lbs. per vehicle produced:									
1991	1.57	5.27	6.84	1.57	2.79	0.00	0.01	0.06	4.42
1992	1.00	5.40	6.39	0.39	2.34	0.00	0.02	0.05	2.79
1993	0.52	9.97	10.49	0.54	4.35	8.02	0.08	0.05	13.03
1994	0.92	3.27	4.19	0.63	1.30	9.13	0.01	0.22	11.30

**Plant-Community Profile:
Ford Motor Co. (KY Truck)
Louisville KY**

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	640	12,000	12,640	0	1,400	0	0	0	1,400
N-BUTYL ALCOHOL	160	32,000	32,160	0	2,500	27,000	0	0	29,500
BENZENE	6	15	21	0	0	0	0	0	0
METHYL ETHYL KETONE	7,500	16,000	23,500	0	7,400	31,000	0	0	38,400
1,2,4-TRIMETHYLBENZENE	42,000	630	42,630	0	58,000	0	0	0	58,000
CUMENE	9,900	3	9,903	0	14,000	0	0	0	14,000
ETHYLBENZENE	8,300	19,000	27,300	0	11,000	110,000	0	0	121,000
ETHYLENE GLYCOL	0	0	0	4,200	690	0	0	0	4,890
METHYL ISOBUTYL KETONE	200	41,000	41,200	0	57	450,000	0	0	450,057
TOLUENE	9,100	1,800	10,900	0	11,000	21,000	300	0	32,300
2-ETHOXYETHANOL	5,900	6,200	12,100	0	8,600	0	0	0	8,600
CYCLOHEXANE	1	0	1	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	32,000	140,000	172,000	0	52,000	530,000	0	0	582,000
METHYL TERT-BUTYL ETHER	55	150	205	0	0	0	0	0	0
HYDROCHLORIC ACID	5	0	5	0	0	0	0	0	0
NITRIC ACID	5	0	5	0	0	0	0	0	0
BARIUM COMPOUNDS	0	5	5	23	0	0	224	850	1,097
GLYCOL ETHERS	1,300	150,000	151,300	74,000	250	0	0	0	74,250
MANGANESE COMPOUNDS	0	0	0	270	0	0	0	3,100	3,370
NICKEL COMPOUNDS	0	3	3	810	0	0	76	9,700	10,586
ZINC COMPOUNDS	250	66	316	1,000	0	0	1,010	15,000	17,010
TOTAL	117,322	418,872	536,194	80,303	166,897	1,169,000	1,610	28,650	1,446,460

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

	<i>VOCs</i>	<i>NOx</i>
1990	1,122,000	44,000
1991	NA	NA
1992	NA	NA
1993	1,140,000	68,000
1994	1,132,000	106,000

**Plant-Community Profile:
Ford Motor Co. (KY Truck)
Louisville KY**

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 ROCKWELL INTL. CORP. PLASTICS D	0	0	0	0	0	0
3 LIQUI DRI FOODS INC.	0	0	0	0	0	0
Total	0	0	0	0	0	0

**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:
Ford Motor Co. (KY Truck)
Louisville KY**

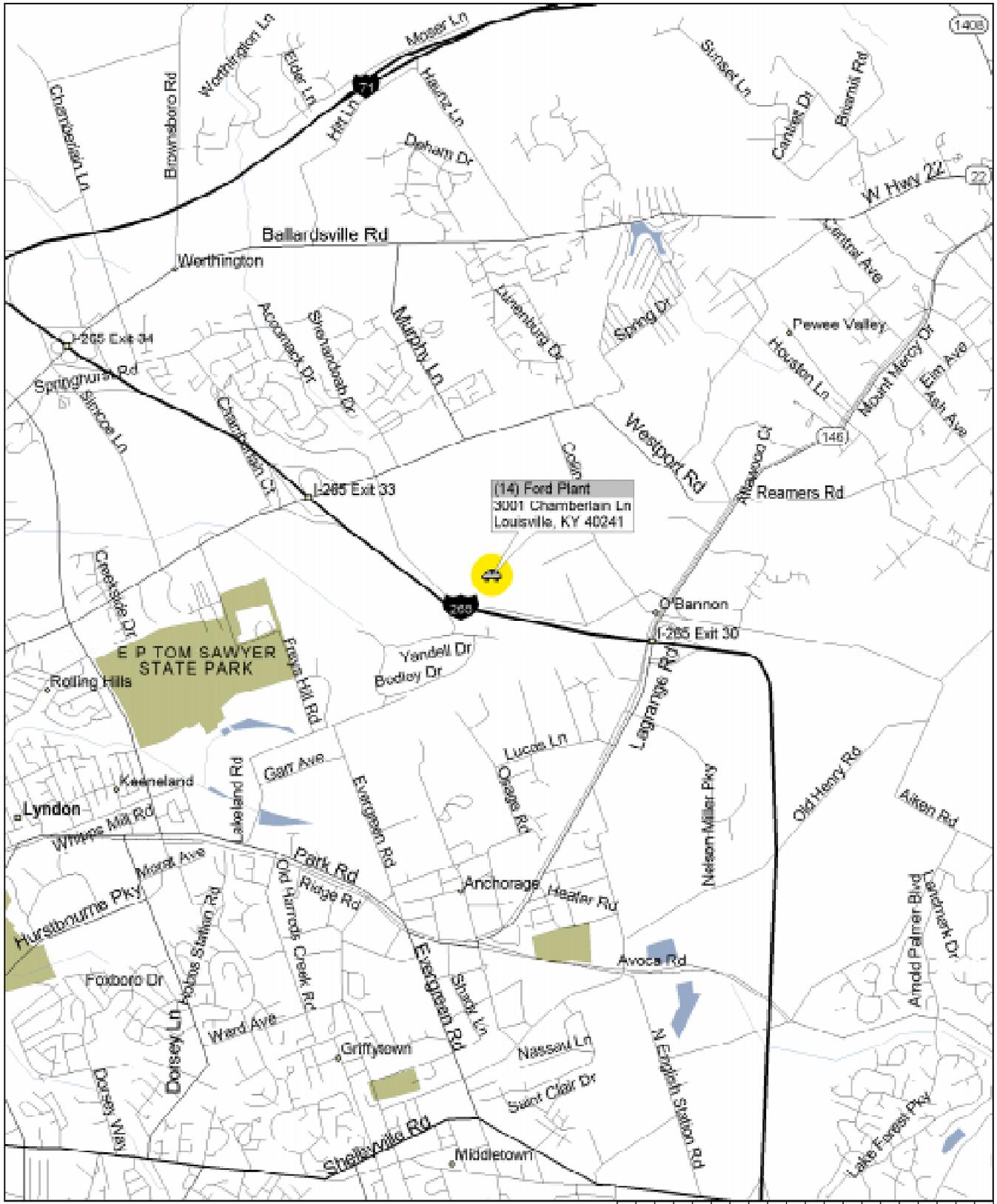
12/2/97

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	672,310	3,826,839	260,340,990
Total Population (1990)	0	683	24,486	23,803	54,029	664,937	3,685,296	248,709,873
% Change 1990-1994	NA	NA	NA	NA	NA	1	4	5
Total Area (sq. mi.) (1990)	2.4	3.1	28.2	25.1	50.2	385.1	39,732.3	3,536,278.1
Population/sq. mi. (land area) (1990)	0	218	871	953	1,084	1,727	93	70
Median Household Income (1994)						NA	26,595	32,264
Median Household Income (1989)						27,092	21,949	30,056
% Change 1979-1989 (constant \$)						-3	-14	7
% Change 1989-1994 (constant \$)						NA	<0.5	7
Per Capita Personal Income (1993)						22,372	16,889	20,800
Per Capita Personal Income (1989)						17,985	13,756	17,690
% Change 1989-1993 (current \$)						24	23	18
Minority Percentage (1990)	0	20	10	10	4	18	7	20
Pct. of Households Below Poverty Level (1989)	0	15	9	9	6	18	21	20
Pct. Not Completing High School (1990)	0	9	11	11	10	25	33	25
Total Employment (1994) (civilian nonfarm)						363,151	1,825,000	131,056,000
Unemployment Rate (1994)						5	5	6
Manufacturing Employment (1993)						62,608	284,185	18,183,381
Mfgr. as % Total Employment (1993)						18	23	19
Manufacturing Employment (1992)						NA	277,000	18,253,000
Production Workers (1992)						NA	203,000	11,654,000
% Change in Mfgr. Employment 1987-1992						NA	10	-4
Assembly Plant as % Total Mfgr. Workers						5		

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

Louisville, KY, Ford Plant - Chamberlain Lane



Microsoft MapData
Streets98

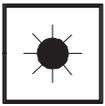
FORD MOTOR CO
3001 CHAMBERLAIN LN
LOUISVILLE KY
Tri Number: 40222FRDMT3001C

Map #	SIC	Name	Address	City	State
0	3711	FORD MOTOR CO. KENTUCKY TRUCK PLANT	3001 CHAMBERLAIN LN.	LOUISVILLE	KY
1	3714	ROCKWELL INTL. CORP. PLASTICS DIV.	4004 COLLINS LN.	LOUISVILLE	KY
3	2051	LIQUI DRI FOODS INC.	12650 WESTPORT RD.	LOUISVILLE	KY

AREA WIDE 1994 TRI EMISSION PROFILE

FORD MOTOR CO
JEFFERSON COUNTY, Kentucky

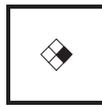
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Longitude: 85 31 50



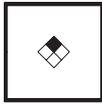
Map Key:
Auto
Plant
Truck



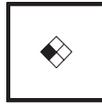
Air
Release



Land
Release

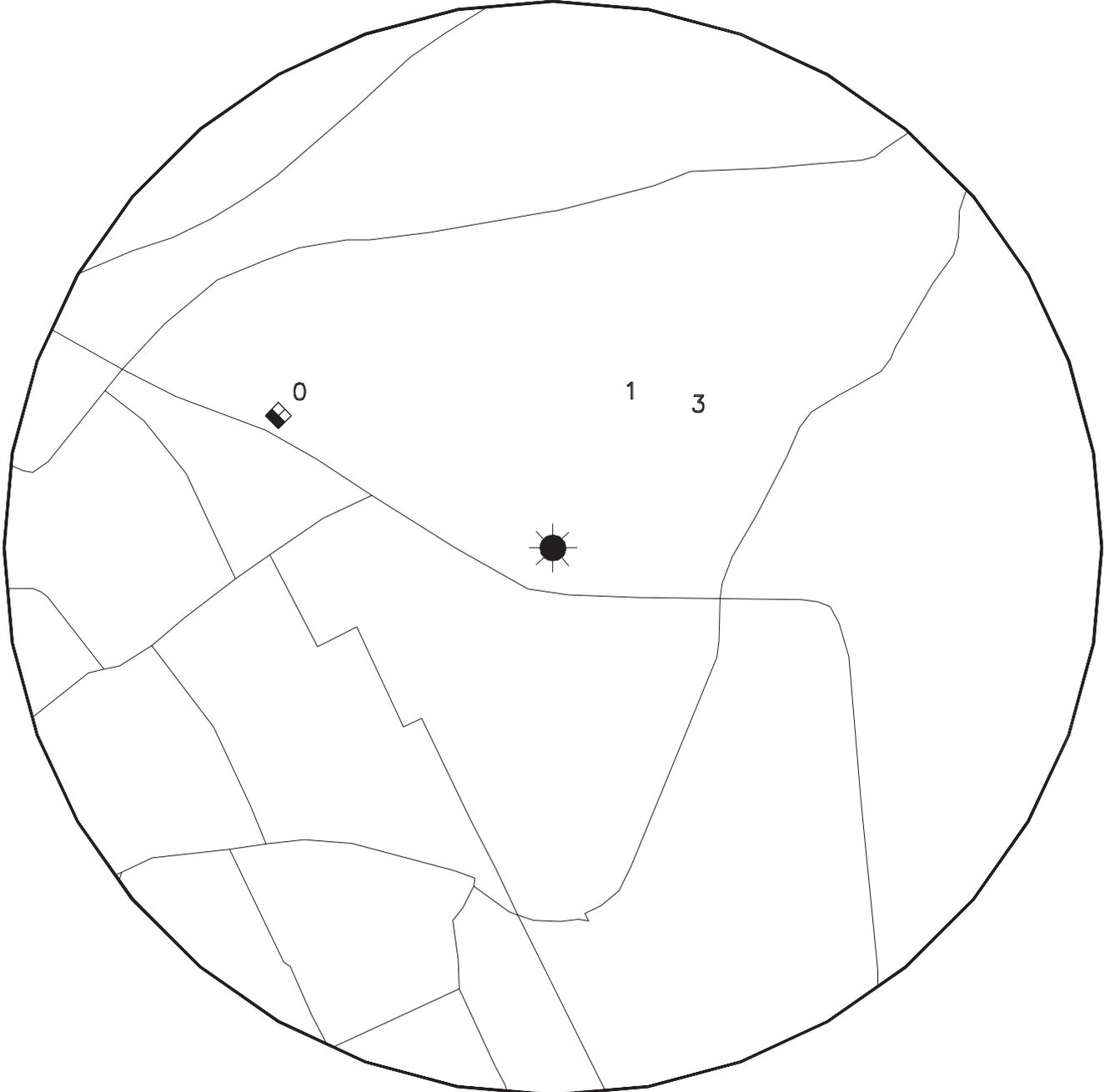


Water
Release



Transfer
location
To offsite

3 Mile Buffer



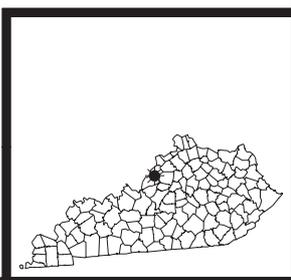
Number without a Symbol denotes no reported emissions over 0.5 pounds per year

Ford Motor Company Louisville Jefferson County, Kentucky

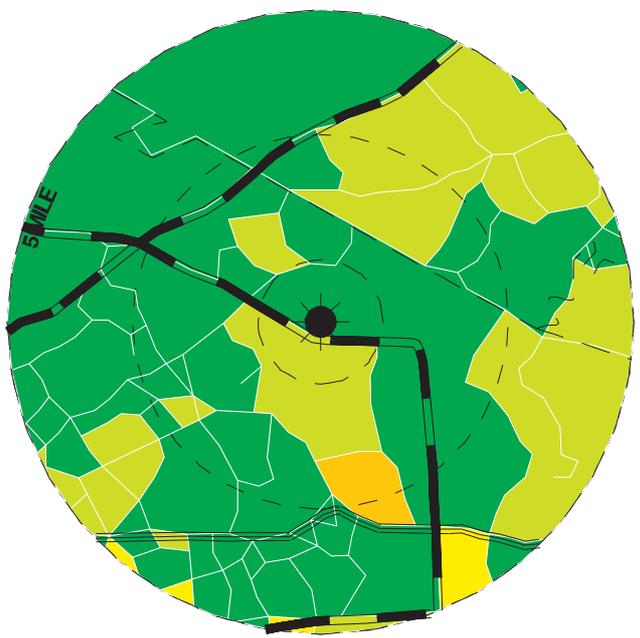
Latitude: 38 17 30 N
Longitude: 85 31 50 W

- 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

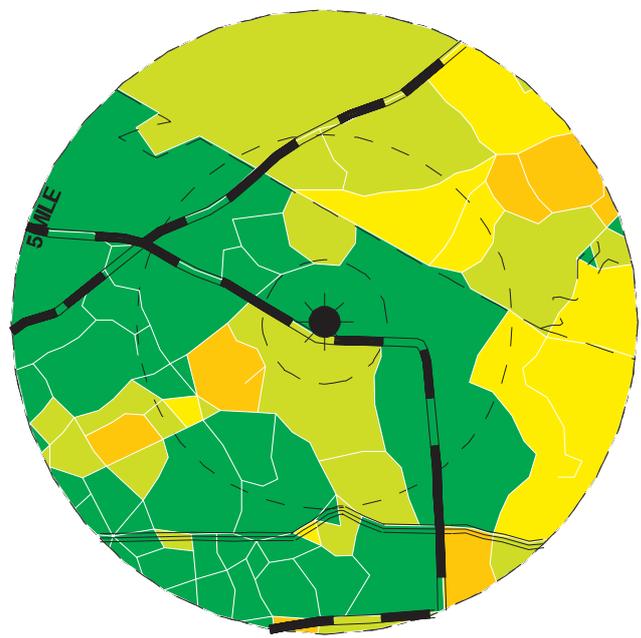
- Minority, poverty, and High School Incomplete percentages**
- Greater than 50
 - 40 - 50
 - 30 - 40
 - 20 - 30
 - 10 - 20
 - 0 - 10



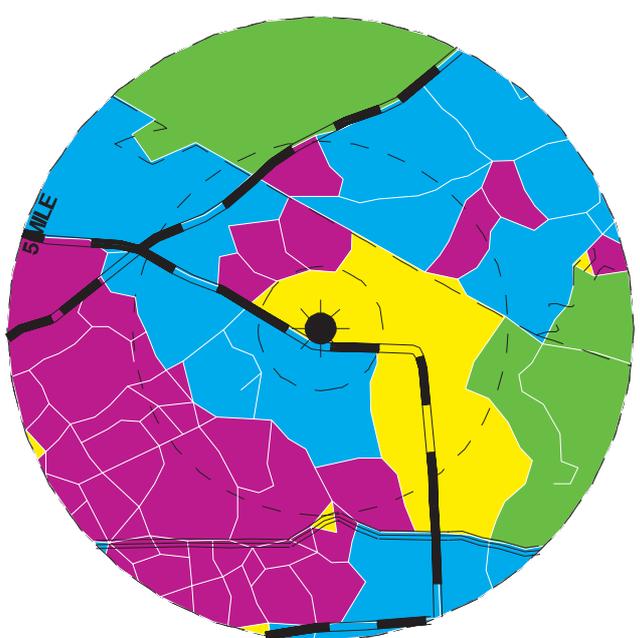
Percentage of Total Population Below Poverty Level



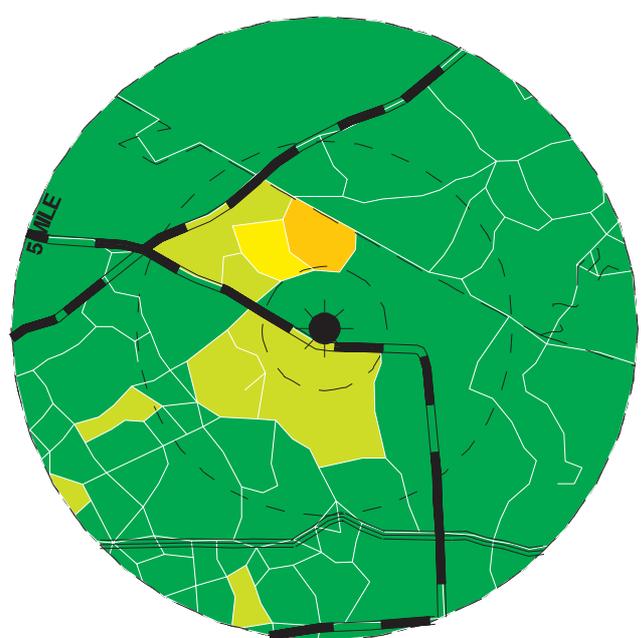
Percentage of Population not Completing High School



Population Density People Per Sq. Mile



Minority Population Percent of Total Population



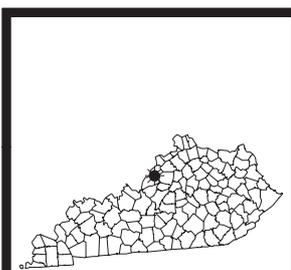
Ford Motor Company Louisville Jefferson County, Kentucky

Latitude: 38 17 30 N
Longitude: 85 31 50 W

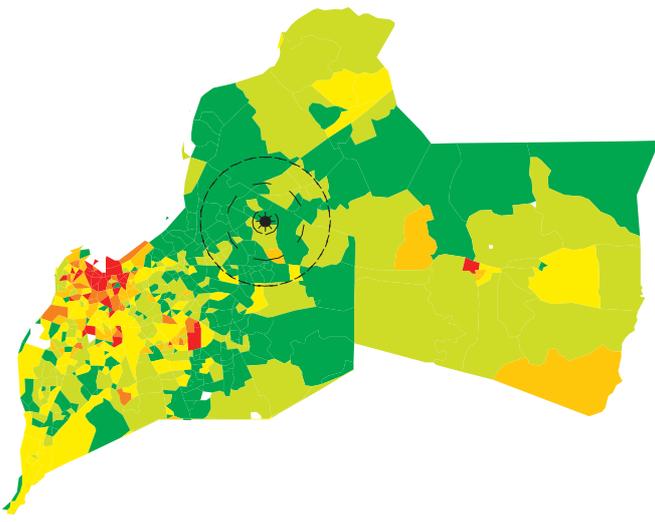
- MAP KEY:**
-  County Boundaries
 -  Inter State Highway
 -  US Highway
 -  Rail Road
 -  One Mile
 -  Three Miles
 -  Five Miles

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

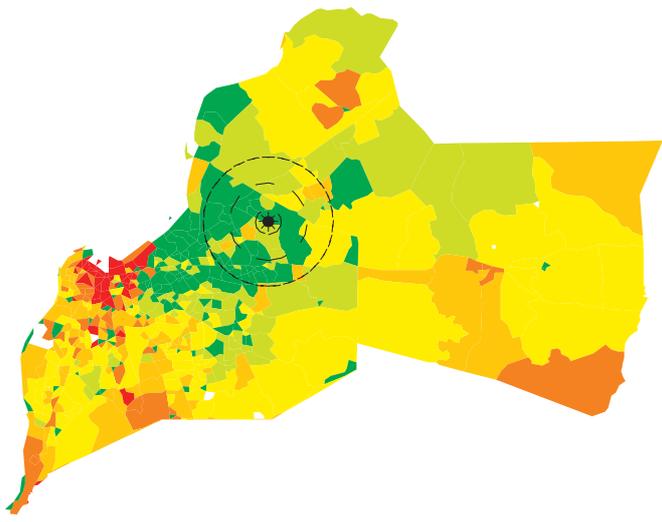
- Minority, poverty, and High School Incomplete percentages**
-  Greater than 50
 -  40 - 50
 -  30 - 40
 -  20 - 30
 -  10 - 20
 -  0 - 10



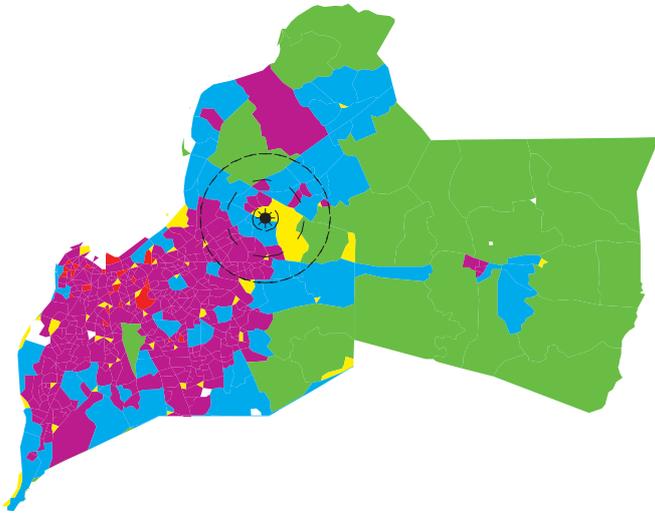
Percentage of Total Population Below Poverty Level



Percentage of Population not Completing High School



Population Density
People Per Sq. Mile



Minority Population
Percent of Total Population

