

**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**

**8. Diamond Star  
Normal, IL**

**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:  
Diamond Star  
Normal IL**

12/2/97

<b>LOCATION</b>	Address	100 N. Diamond Star Pkwy., Normal IL 61761		<b>DESCRIPTION</b>	Plant opened as a joint venture by Mitsubishi and Chrysler 1982; owned 100% by Mitsubishi since 1991. Produced Avenger, Galant, Eclipse, Eagle Talon and Plymouth Laser in 1994.	
	Lat/Long:	latitude (degrees N)	40 31' 18"			
		longitude (degrees W)	89 3' 33"			
	County:	McLean	MSA: Bloomington-Normal IL			
	Other counties within 3 miles of plant:	none		<b>ID NUMBERS</b>	RCRA ID	ILD 982072357
<b>OPERATIONS</b>		<b>Production</b>	<b>Employment</b>		AIRS ID	AFS17113Z0069
					NPDES ID	IL0065269
	Calendar Year: 1991	153,936			TRI	61761DMNDS100ND
	1992	139,783				
	1993	136,035				
	1994	168,726	3,200			

**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	A21 painting	Off	M021 solvents recov.	1,090.3	1,090.3	0.0
D001 (ignitable)	N	B203 org. liquids	A08 physical scraping	Off	M061 fuel blending	7.6	7.6	0.0
D001 (ignitable)	N	B203 org. liquids	A27 etching	Off	M061 fuel blending	1.1	1.1	0.0
D001 (ignitable)	N	B203 org. liquids	A41 plastics forming	Off	M061 fuel blending	1.6	1.6	0.0
D001 (ignitable)	N	B203 org. liquids	A08 physical scraping	Off	M141 transfer facil.	9.5	9.5	0.0
D001 (ignitable)	N	B209 org. liquids	A21 painting	Off	M061 fuel blending	5.7	5.7	0.0
D001 (ignitable) D018 (benzene)	N	B209 org. liquids	A19 other clean/degr.	Off	M061 fuel blending	0.8	0.8	0.0
D001, D018, D008	N	B211 org. liquids	A35 by-product process.	On	M051 energy recov.	2.9	0.0	2.9
D001, D018, D008	N	B211 org. liquids	A35 by-product process.	Off	M061 fuel blending	1.8	1.8	0.0
D018 (benzene)	Y	B102 inorg. liquids	A57 1x/intermittent	Off	M061 fuel blending	1.2	1.2	0.0
D018 (benzene)	N	B203 org. liquids	A31 product rinsing	Off	M061 fuel blending	0.6	0.6	0.0
D018 (benzene)	N	B207 org. liquids	A01 stripping	Off	M061 fuel blending	0.4	0.4	0.0
D018 (benzene)	N	B307 inorg. solids	A09 clean out equip	Off	M061 fuel blending	5.4	5.4	0.0
D018 (benzene)	N	B307 inorg. solids	A09 clean out equip	Off	M061 fuel blending	0.4	0.4	0.0
D018 (benzene)	N	B519 inorg. sludges	A53 1x/intermittent	Off	M061 fuel blending	9.9	9.9	0.0
D018, D028, D040	N	B205 org. liquids	A60 1x/intermittent	Off	M061 fuel blending	2.1	2.1	0.0
F003 (nonhalog. solvents)	Y	B101 inorg. liquids	A57 1x/intermittent	Off	M061 fuel blending	0.9	0.9	0.0
F003 (nonhalog. solvents)	N	B203 org. liquids	A21 painting	Off	M049 incineration	14.4	14.4	0.0
F003 (nonhalog. solvents)	N	B203 org. liquids	A21 painting	Off	M061 fuel blending	61.4	61.4	0.0
F003 (nonhalog. solvents)	N	B203 org. liquids	A31 product rinsing	Off	M061 fuel blending	0.8	0.8	0.0
<b>TOTAL - 1991</b>						<b>1,218.9</b>	<b>1,216.0</b>	<b>2.9</b>

**Plant-Community Profile:  
Diamond Star  
Normal IL**

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**PLANT ENVIRONMENTAL PROFILE (continued)**

**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>1993</i>								
D001 (ignitable)	N	B002 lab packs	A21 painting	Off	M041 incineration	0.0	0.0	0.0
D001 (ignitable)	N	B203 org. liquid	A21 painting	Off	M021 solvents recov.	905.6	905.6	0.0
D001 (ignitable)	N	B203 org. liquid	A21 painting	Off	M021 solvents recov.	20.6	20.6	0.0
D001 (ignitable)	N	B203 org. liquid	A21 painting	Off	M061 fuel blending	4.7	4.7	0.0
D001 (ignitable)	N	B203 org. liquid	A21 painting	Off	M041 incineration	0.2	0.2	0.0
D001 (ignitable)	N	B203 org. liquid	A08 physical scraping	Off	M061 fuel blending	2.3	2.3	0.0
D001 (ignitable)	N	B203 org. liquid	A08 physical scraping	Off	M141 transfer facil.	13.5	13.5	0.0
D001 (ignitable)	N	B203 org. liquid	A27 etching	Off	M061 fuel blending	16.2	16.2	0.0
D001 (ignitable)	N	B209 org. liquid	A21 painting	Off	M061 fuel blending	21.7	21.7	0.0
D001(ignitable) D018 (benzene)	N	B209 org. liquid	A19 other clean/degr.	Off	M061 fuel blending	0.9	0.9	0.0
D001, D018, D008	N	B211 org. liquid	A35 by-product proc.	Off	M061 fuel blending	3.4	3.4	0.0
D002 (corrosive)	N	B001 lab packs	A03 caustic cleaning	Off	M041 incineration	0.1	0.1	0.0
D002 (corrosive)	N	B002 lab packs	A55 1x/intermittent	Off	M132 landfill	0.2	0.2	0.0
D002 (corrosive)	N	B104 inorg liquid	A53 1x/intermittent	Off	M061 fuel blending	5.1	5.1	0.0
D002 (corrosive)	Y	B110 inorg liquid	A19 other clean/degr.	Off	M141 transfer facil.	0.4	0.4	0.0
D006 (cadmium)	N	B001 lab packs	A55 1x/intermittent	Off	M132 landfill	0.0	0.0	0.0
D009 (mercury)	N	B001 lab packs	A94 lab wastes	Off	M132 landfill	0.1	0.1	0.0
D018 (benzene)	N	B203 org. liquid	A31 product rinsing	Off	M061 fuel blending	46.1	46.1	0.0
D018 (benzene)	N	B209 org. liquid	A09 clean out equip	Off	M061 fuel blending	0.7	0.7	0.0
F003 (non-halog solvents)	Y	B101 inorg liquid	A57 1x/intermittent	Off	M061 fuel blending	0.2	0.2	0.0
F003 (non-halog solvents)	N	B203 org. liquid	A21 painting	Off	M061 fuel blending	8.0	8.0	0.0
F003 (non-halog solvents)	N	B203 org. liquid	A31 product rinsing	Off	M061 fuel blending	2.5	2.5	0.0
U007	N	B001 lab packs	A19 other clean/degr.	Off	M041 incineration	0.1	0.1	0.0
<b>TOTAL - 1993</b>						<b>1,052.6</b>	<b>1,052.6</b>	<b>0.0</b>

**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	2,942	281,829	284,771	0	0	25,521	0	0	25,521
1992	117,134	64,423	181,557	0	0	2,039,580	0	0	2,039,580
1993	360,642	130,217	490,859	0	0	1,892,400	0	0	1,892,400
1994	368,529	4,365	372,894	0	0	1,828,258	81,867	0	1,910,125
<b>Lbs. per vehicle produced:</b>									
1991	0.02	1.83	1.85	0.00	0.00	0.17	0.00	0.00	0.17
1992	0.84	0.46	1.30	0.00	0.00	14.59	0.00	0.00	14.59
1993	2.65	0.96	3.61	0.00	0.00	13.91	0.00	0.00	13.91
1994	2.18	0.03	2.21	0.00	0.00	10.84	0.49	0.00	11.32

**Plant-Community Profile:  
Diamond Star  
Normal IL**

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**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	54,140	0	54,140	0	0	0	7,128	0	7,128
METHYL ETHYL KETONE	84,613	250	84,863	0	0	880,203	3,997	0	884,200
ETHYLENE GLYCOL	0	0	0	0	0	1,535	25,825	0	27,360
TOLUENE	73,855	582	74,437	0	0	568,350	8,013	0	576,363
XYLENE (MIXED ISOMERS)	155,921	3,533	159,454	0	0	378,170	36,904	0	415,074
<b>TOTAL</b>	<b>368,529</b>	<b>4,365</b>	<b>372,894</b>	<b>0</b>	<b>0</b>	<b>1,828,258</b>	<b>81,867</b>	<b>0</b>	<b>1,910,125</b>

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

	<i>VOM*</i>	<i>NOx</i>
1990	NA	NA
1991	NA	NA
1992	1,838,980	35,820
1993	2,035,600	151,400
1994	2,125,640	151,400

\* volative organic material

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**Plant-Community Profile:  
Diamond Star  
Normal IL**

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**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>
2 PPG IND. INC.	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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:  
Diamond Star Motors  
Normal IL**

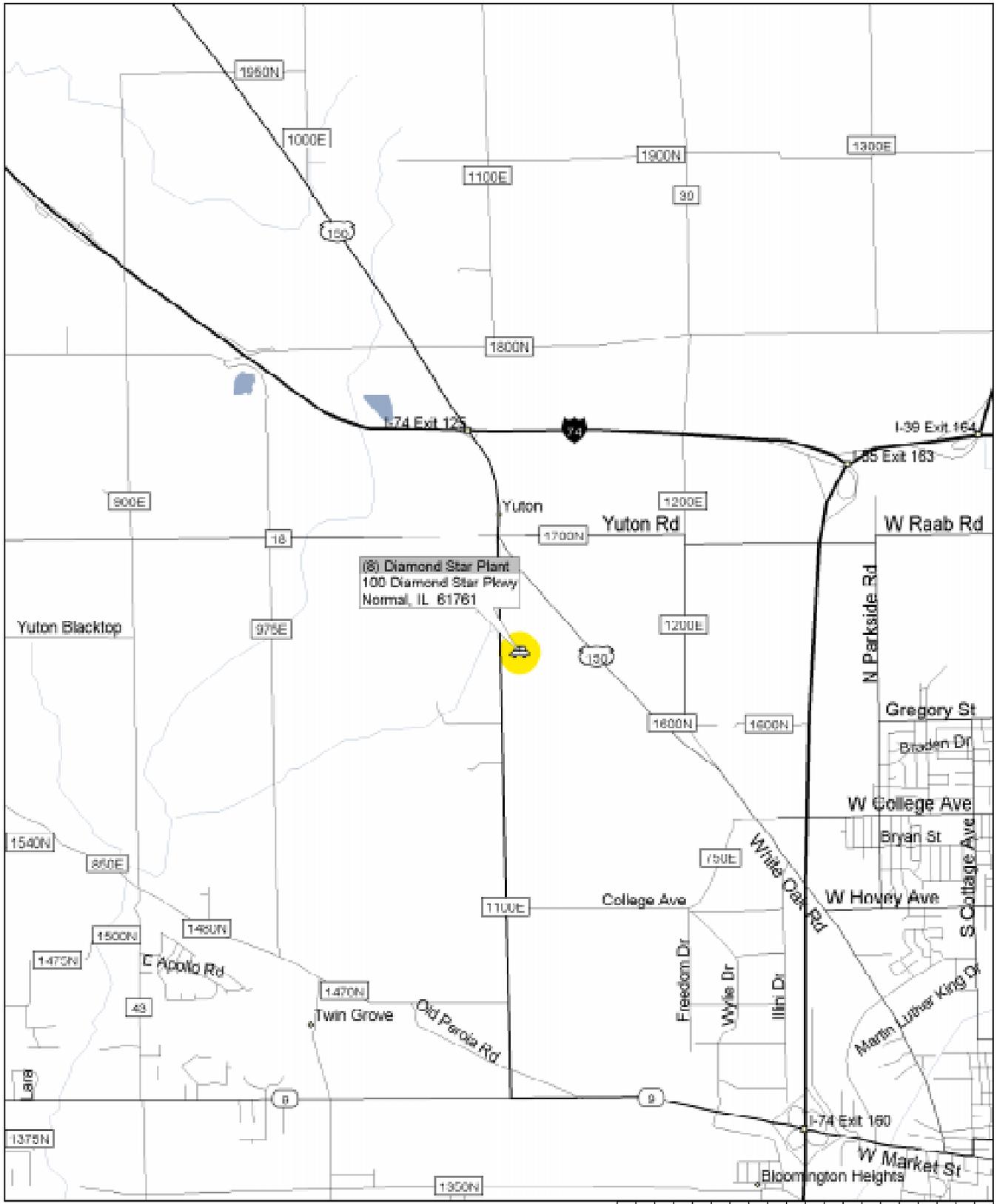
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**COMMUNITY DEMOGRAPHIC AND ECONOMIC CHARACTERISTICS**

	<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	137,579	11,751,679	260,340,990
Total Population (1990)	125	73	9,149	9,076	51,789	129,180	11,430,602	248,709,873
% Change 1990-1994	NA	NA	NA	NA	NA	7	3	5
Total Area (sq. mi.) (1990)	7.8	3.1	28.2	25.1	50.2	1,183.6	55,593.3	3,536,278.1
Population/sq. mi. (land area) (1990)	16	23	325	363	1,037	109	206	70
Median Household Income (1994)						NA	35,081	32,264
Median Household Income (1989)						31,366	32,252	30,056
% Change 1979-1989 (constant \$)						1	<0	7
% Change 1989-1994 (constant \$)						NA	<0.5	7
Per Capita Personal Income (1993)						20,238	22,560	20,800
Per Capita Personal Income (1989)						17,110	19,071	17,690
% Change 1989-1993 (current \$)						18	18	18
Minority Percentage (1990)	0	2	7	7	7	6	21	20
Pct. of Households Below Poverty Level (1989)	0	8	13	13	25	15	20	20
Pct. Not Completing High School (1990)	31	17	9	9	11	12	23	25
Total Employment (1994) (civilian nonfarm)						78,167	5,999,000	131,056,000
Unemployment Rate (1994)						4	6	6
Manufacturing Employment (1993)						9,293	978,517	18,183,381
Mfgr. as % Total Employment (1993)						14	21	19
Manufacturing Employment (1992)						NA	18,000	18,253,000
Production Workers (1992)						NA	11,000	11,654,000
% Change in Mfgr. Employment 1987-1992						NA	-2	-4
Assembly Plant as % Total Mfgr. Workers						34		

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

# Normal, IL, Diamond Star Plant



Microsoft Expedia  
**Streets98**

DIAMOND-STAR MOTORS  
100 N DIAMOND-STAR PKY  
NORMAL IL  
Tri Number: 61761DMNDS100ND

Map #	SIC	Name	Address	City	State
0	3711	DIAMOND-STAR MOTORS	100 N. DIAMOND-STAR PKY.	NORMAL	IL
2	2851	PPG IND. INC.	2221 W. COLLEGE AVE.	NORMAL	IL

# AREA WIDE 1994 TRI EMISSION PROFILE

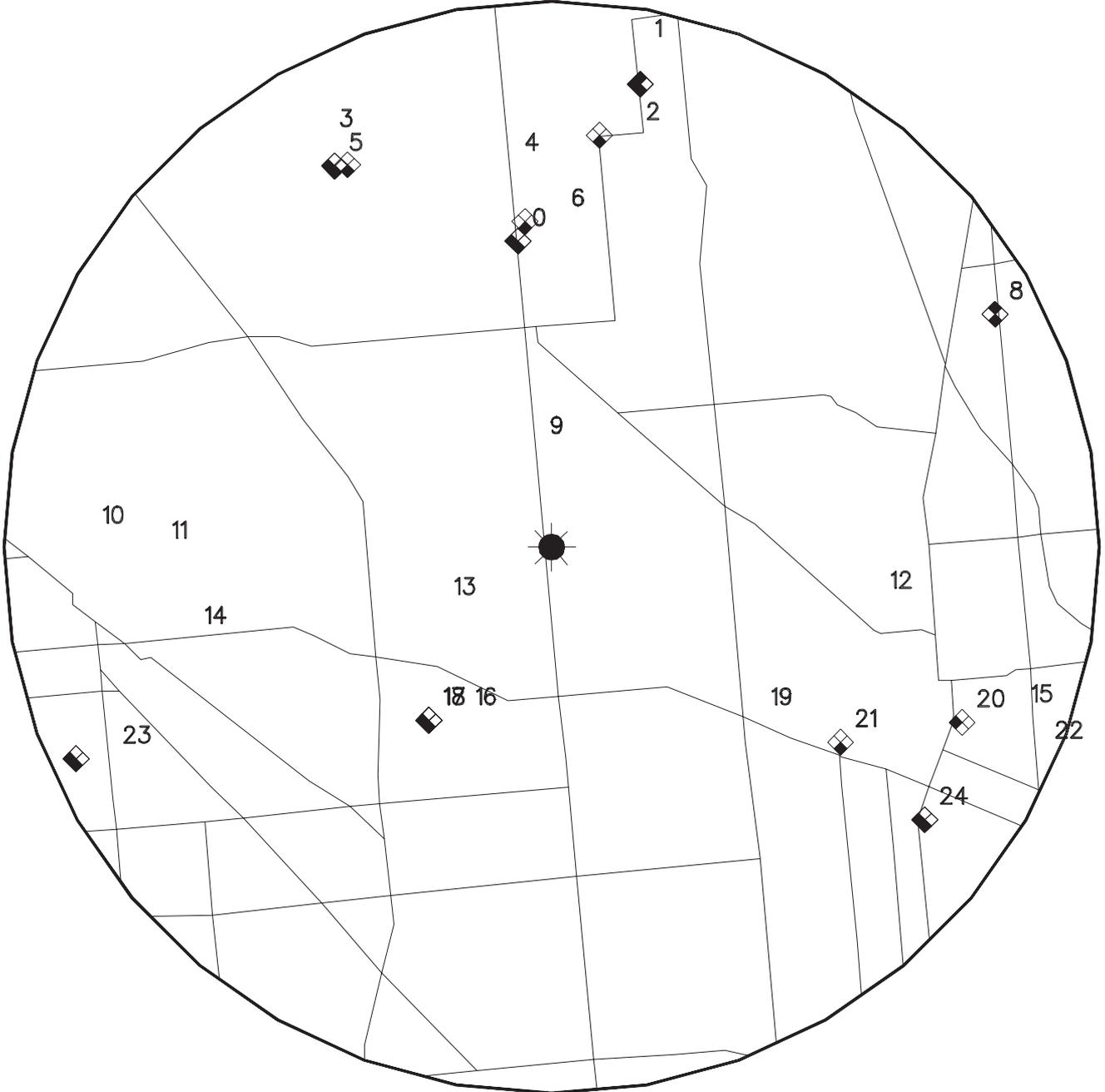
FORD MOTOR CO  
COOK COUNTY, Illinois

Latitude: 41 39 58  
Longitude: 87 33 32



- Map Key:
- Auto Release
  - Plant Truck Release
  - Water Release
  - Land Release
  - Transfer location To offsite

3 Mile Buffer



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



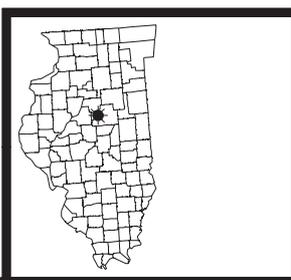
# Diamond Star Normal McLean County, Illinois

Latitude: 40 31 18 N  
Longitude: 89 3 33 W

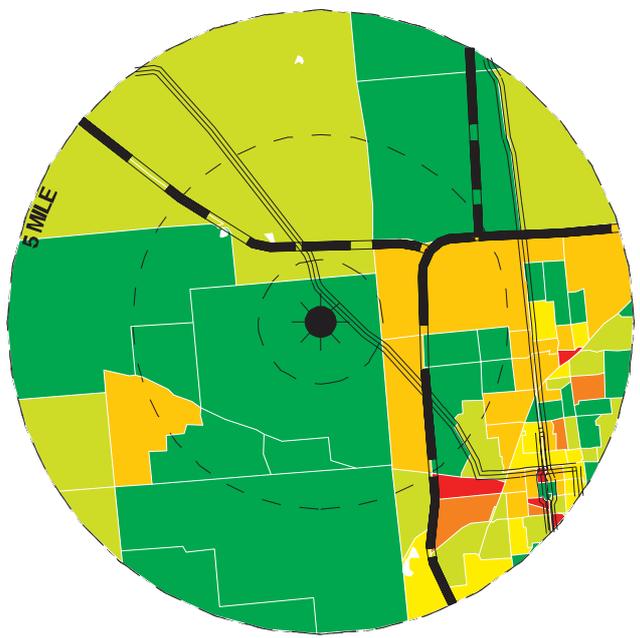
- MAP KEY:**
- County Boundaries
  - Inter State Highway
  - US Highway
  - Rail Road
  - One Mile
  - Three Miles
  - Five Miles

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

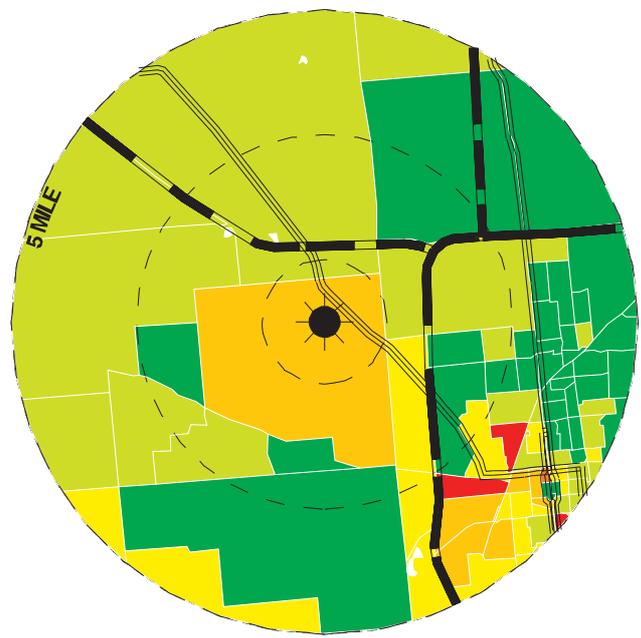
- Minority, poverty, and High School Incomplete percentages**
- Greater than 50
  - 40 - 50
  - 30 - 40
  - 20 - 30
  - 10 - 20
  - 0 - 10



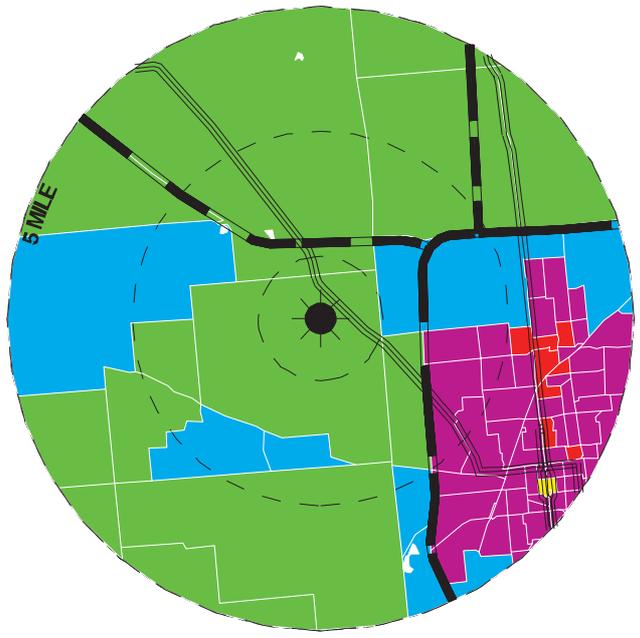
Percentage of Total Population Below Poverty Level



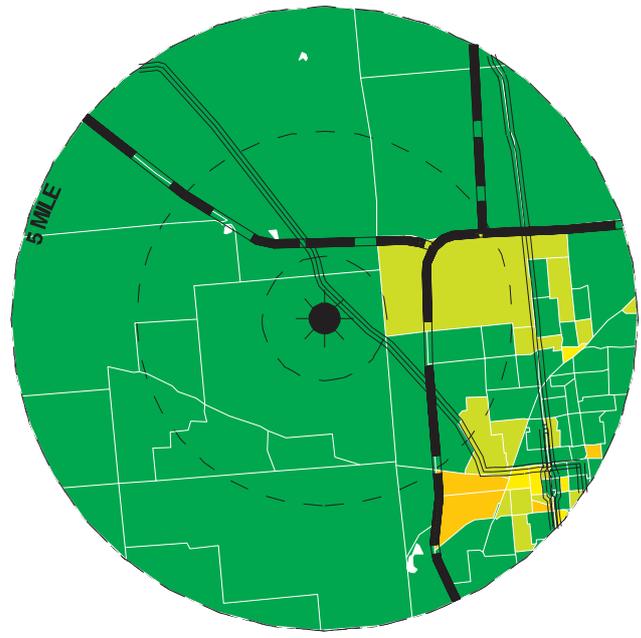
Percentage of Population not Completing High School



Population Density People Per Sq. Mile



Minority Population Percent of Total Population



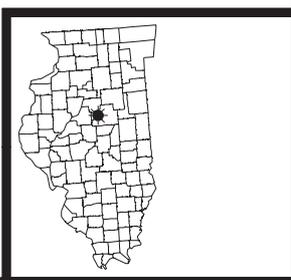
# Diamond Star Normal McLean County, Illinois

Latitude: 40 31 18 N  
Longitude: 89 3 33 W

- MAP KEY:**
- County Boundries
  - 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

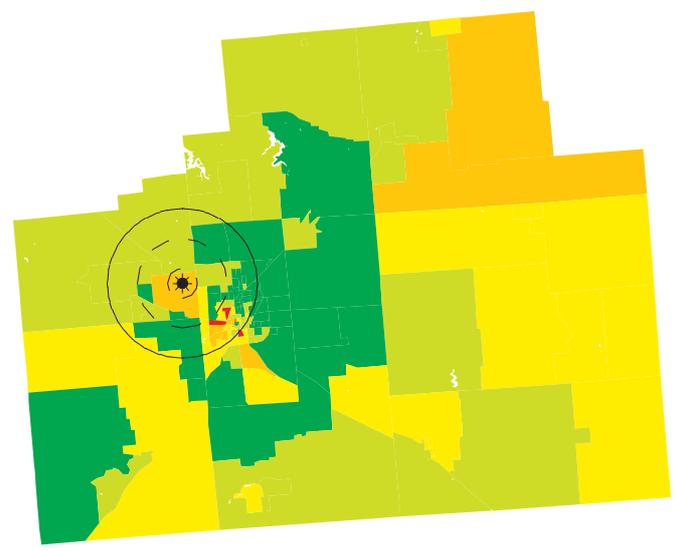
- Minority, poverty, and High School Incomplete percentages**
- Greater than 50
  - 40 - 50
  - 30 - 40
  - 20 - 30
  - 10 - 20
  - 0 - 10



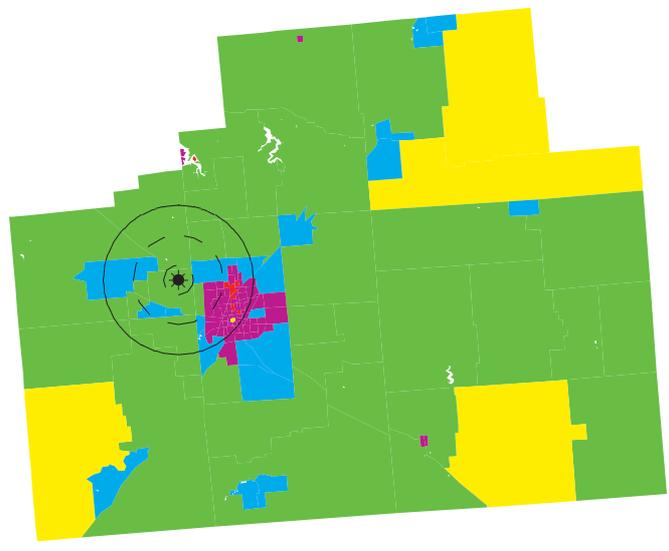
Percentage of Total Population Below Poverty Level



Percentage of Population not Completing High School



Population Density  
People Per Sq. Mile



Minority Population  
Percent of Total Population

