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Region's History With 1-Hour Ozone Standard

- 1990 - Area classified as a "marginal" nonattainment area pursuant to CAA amendments.
  - Nonattainment area includes St. Joseph and Elkhart Counties
- 1994 - Area Redesignated to Attainment (Classified as a Maintenance Area)
  - Maintenance plan in place to ensure no backsliding.
- 1994 -2002 Area continues to attain the standard.

Overview of the Eight-Hour Ozone Standard

- July 17, 1997 - U.S. EPA announced new stricter national ambient air quality standards (NAAQS) for ground-level ozone.
- May 1999 new standards challenged in court.
- Spring 2000 - U.S. EPA released guidance concerning the designation process. States were encouraged to provide recommendations to U.S. EPA by June 30, 2000.
- June 30, 2000 - Indiana's original 8-hour nonattainment assessment was submitted to U.S. EPA.
- February 27, 2001 – U.S. Supreme Court upholds 8-hour ozone standard after designations delayed due to legal challenges.
- November 14, 2002 - U.S. EPA issues memorandum stating that designations will be final by April 2004. States are asked to submit recommendations by April 15, 2003.
- February 27, 2003 - U.S. EPA issues memorandum granting states until July 15, 2003 to submit recommendations.

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Overview of the Eight-Hour Ozone Standard

Layout of U.S. EPA's Proposed Process for Designations

November 14, 2002 U.S. EPA memorandum outlines the schedule for designating areas under the 8-hour ozone (O_3) standard.

- Consistent with Section 107 of the Clean Air Act, U.S. EPA is requesting States to provide designation recommendations to the Regional Administrator by July 15, 2003.
- 2000-2002 monitoring data should be used for devising recommendations. However, U.S. EPA will use the 2001-2003 data for promulgating final designations if the data are available and quality assured.
- Also Per Section 107 of the Clean Air Act, if U.S. EPA intends to modify recommendations made by the Governor, the Administrator must notify the State and provide an opportunity to demonstrate why any proposed modification is inappropriate. Such notification must be given no later than 120 days prior to promulgation of designations.
- Designations will be final by April 15, 2004.

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Overview of the Eight-Hour Ozone Standard

State Implementation Plan and Attainment Deadlines

- States will have until 2007 (three years from the date of designation) to submit State Implementation Plans (SIPs) to U.S. EPA. A SIP outlines the control strategies and technical information to demonstrate how and when the area will achieve attainment of the standard.

- Attainment dates will likely be established based on nonattainment classifications (marginal, moderate, serious, severe, extreme). In Indiana, the attainment dates will likely range from 2007 to 2013.

- U.S. EPA expects to propose rules in Spring 2003 concerning ozone nonattainment classifications, attainment dates, and any mandatory ozone control measures.

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U.S. EPA 8-Hour Schedule

Early 2003	Publish proposed implementation rule
July 2003	States provide designation recommendations
Late 2003	Publish final implementation rule
April 2004	EPA signs final nonattainment designations (effective shortly after*)
April-May 2007	Nonattainment area SIPs submitted to EPA (3 years from effective date)
2007-2021	Range of attainment dates

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Harmonization of 8-hr Ozone and PM2.5

- End of 2003—Finalize O3 NAAQS implementation rule
- 2003-2004--propose and finalize PM2.5 implementation rule
- 2004 --Designate nonattainment and attainment areas under 8-hr ozone standard (after receiving recommendations from states). *Note: The statutory deadline for 8-hour ozone designations has passed, and EPA has negotiated settlement agreement on designations.*
- 2004--Designate nonattainment and attainment areas under PM2.5 standard (after receiving recommendations from states)
- 2007--States submit plans for implementing ozone and PM2.5 NAAQS (including state rules for emission reductions)

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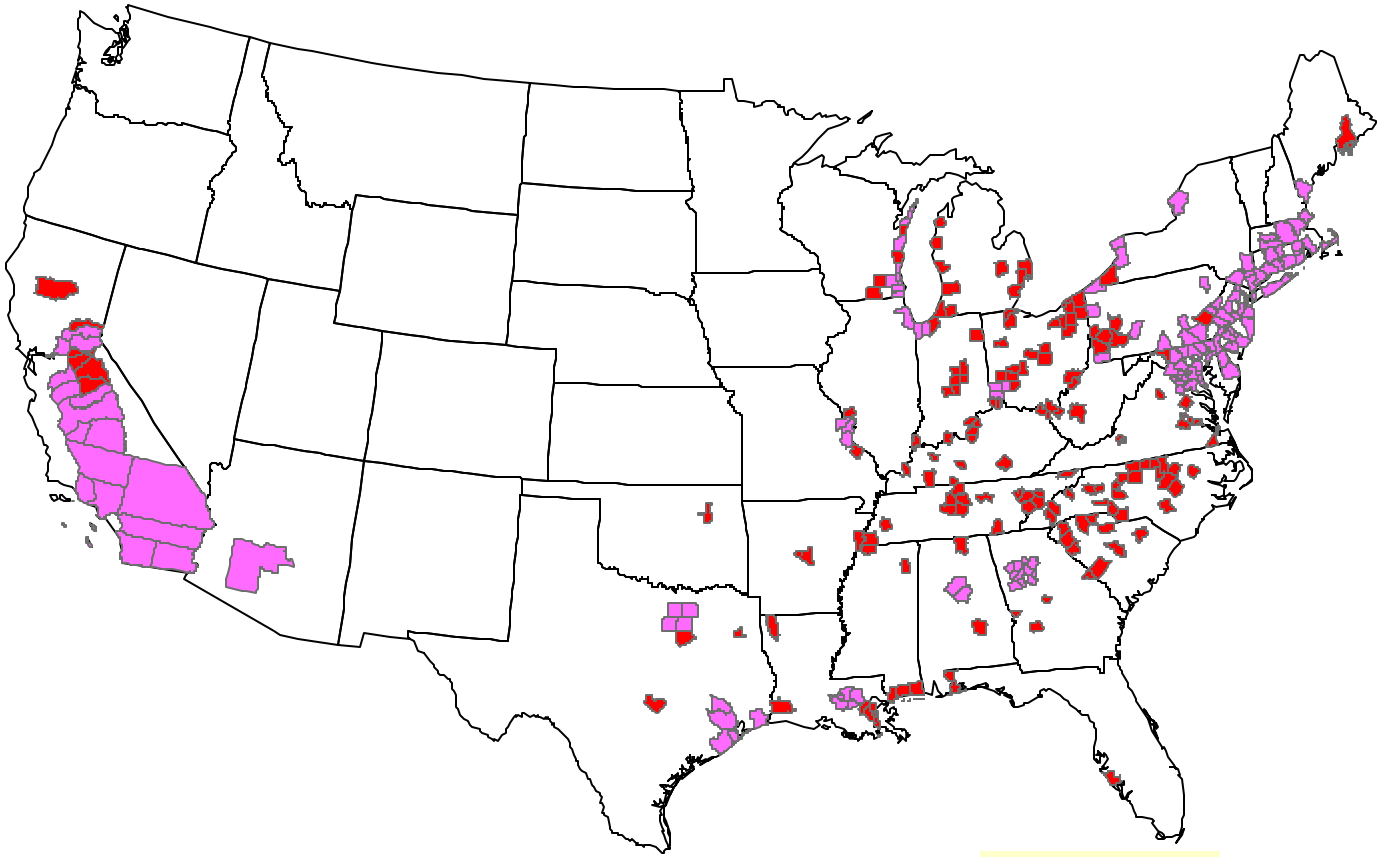
Counties violating the 8-hr ozone NAAQS
1999-2001



There Are a Total of 291 Counties Violating the 8-hour Ozone Standard Using 1999-2001 Data

155 of Those Counties Are Designated Attainment for the 1-hour Standard

136 of Those Counties Are Designated Nonattainment for the 1-hour Standard

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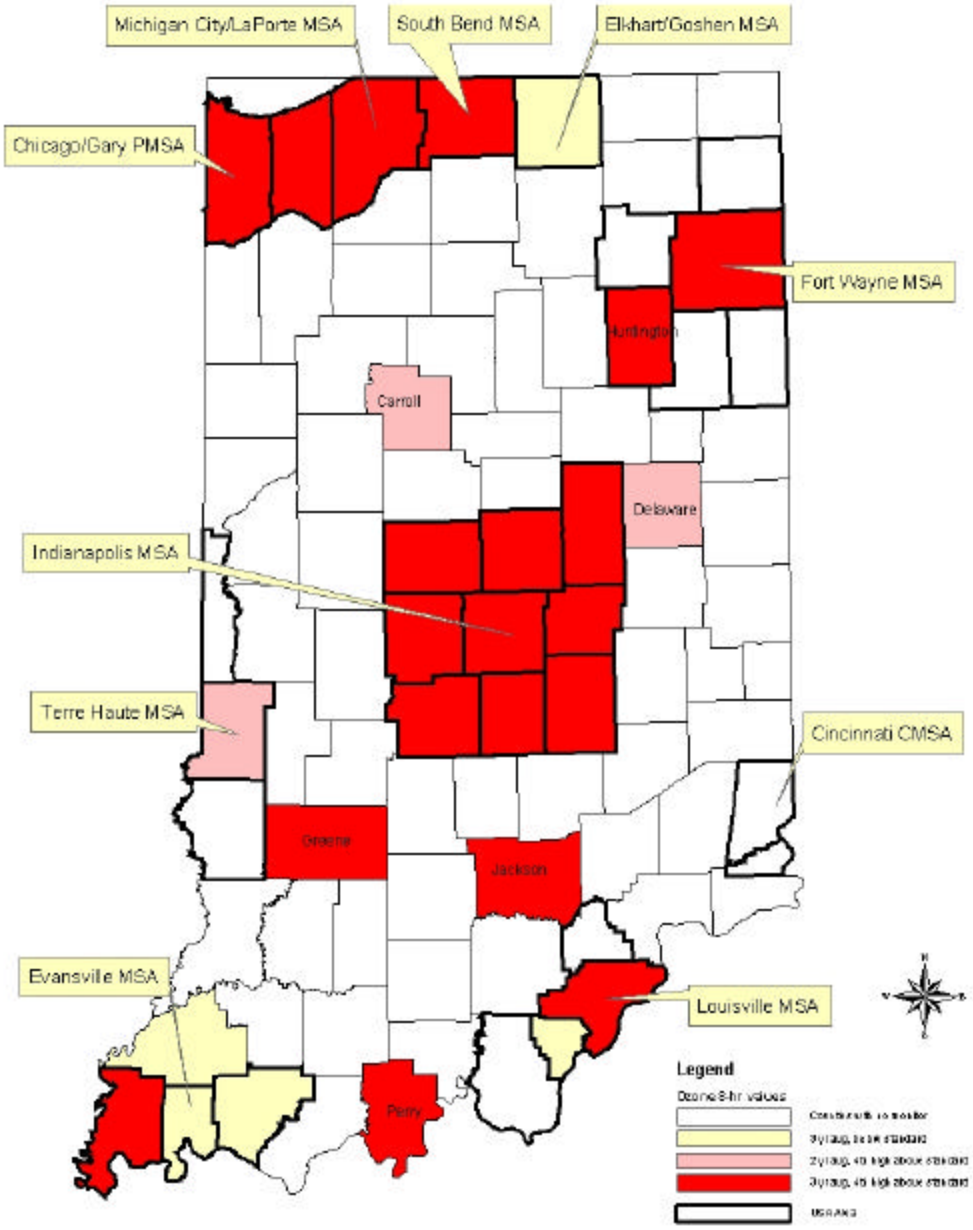
Indiana MSA Boundaries and Counties with O3 Monitors



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Indiana Designation Recommendations

Outreach

- Information available through our website, and questions and comments can be shared via an on-line forum. (http://www.in.gov/idem/air/8hourstandard/index.html)
- Mailing to interested and affected parties in each of the affected areas.
- Presentations/solicitation of comment through public meetings.

Information to be Used in Assessment Process
(Per U.S. EPA Guidance)

Primary

- Monitoring data
- MSA Boundaries

Secondary

- Emissions trends
- Traffic and employment patterns
- Population growth
- Commercial, residential, and industrial growth
- Meteorology

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Regional Monitoring Data

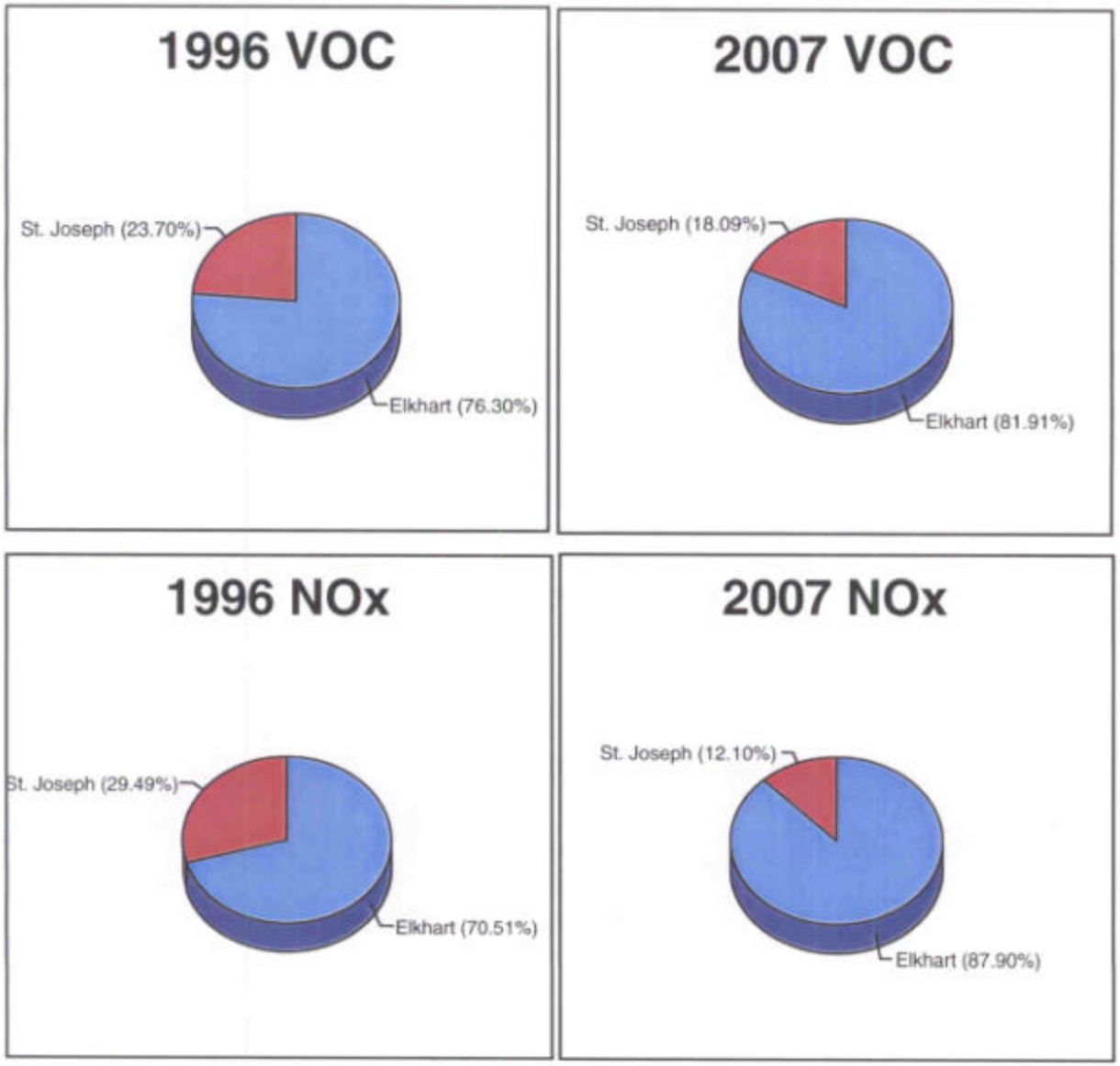
County	Location	3yr Avg. 4th High
Cass (MI)	Cassopolis	0.09
Elkhart (Bristol)	(New location 2002)	0.073*
St. Joseph	Granger	0.09
St. Joseph	South Bend	0.087
St. Joseph	Potato Creek	0.083

Elkhart Monitor Site

Year	3yr Avg. 4th High
1999	.077
2000	.065
2001	.056
2002	.099

Total Emissions by County

(1996 Actual Vs. 2007 Projected)



Population Growth

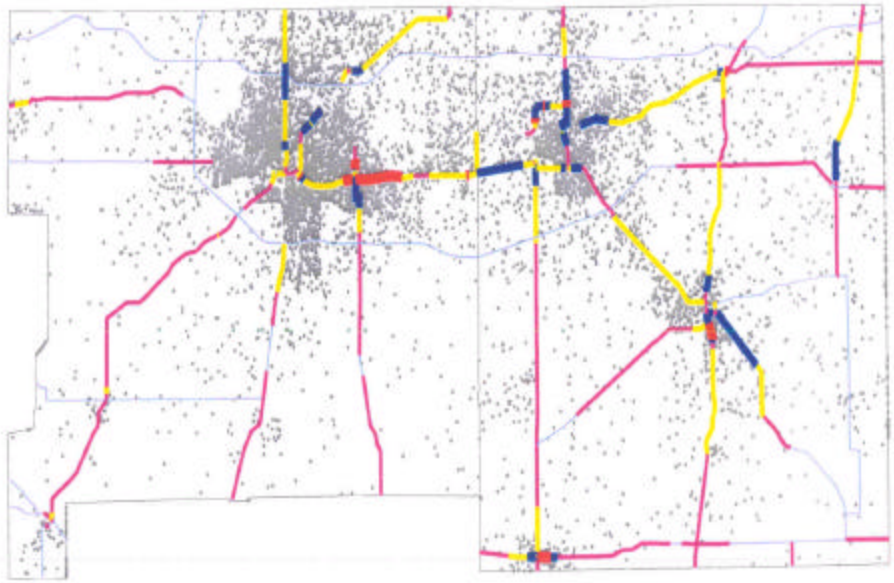
	1990	1997	# Change	% Change	2000	# Change	% Change	2020	# Change	% Change
Elkhart	156,198	170,725	14,527	9.30%	178,299	7,574	4.44%	196,644	25,919	15.18%
St. Joseph	247,052	258,056	11,004	4.45%	263,911	5,855	2.27%	278,093	20,037	7.76%

Elkhart and St. Joseph Counties Road Data

Elkhart and St. Joseph Counties Road Data

Volume to Capacity
- 0 - 0.225
- 0.225 - 0.421
- 0.421 - 0.661
- 0.661 - 1.023
- 1.023 - 1.824

Population Distribution (1990)
- 1 Dot = 50



N

8 0 8 16 24 32 40 Kilometers

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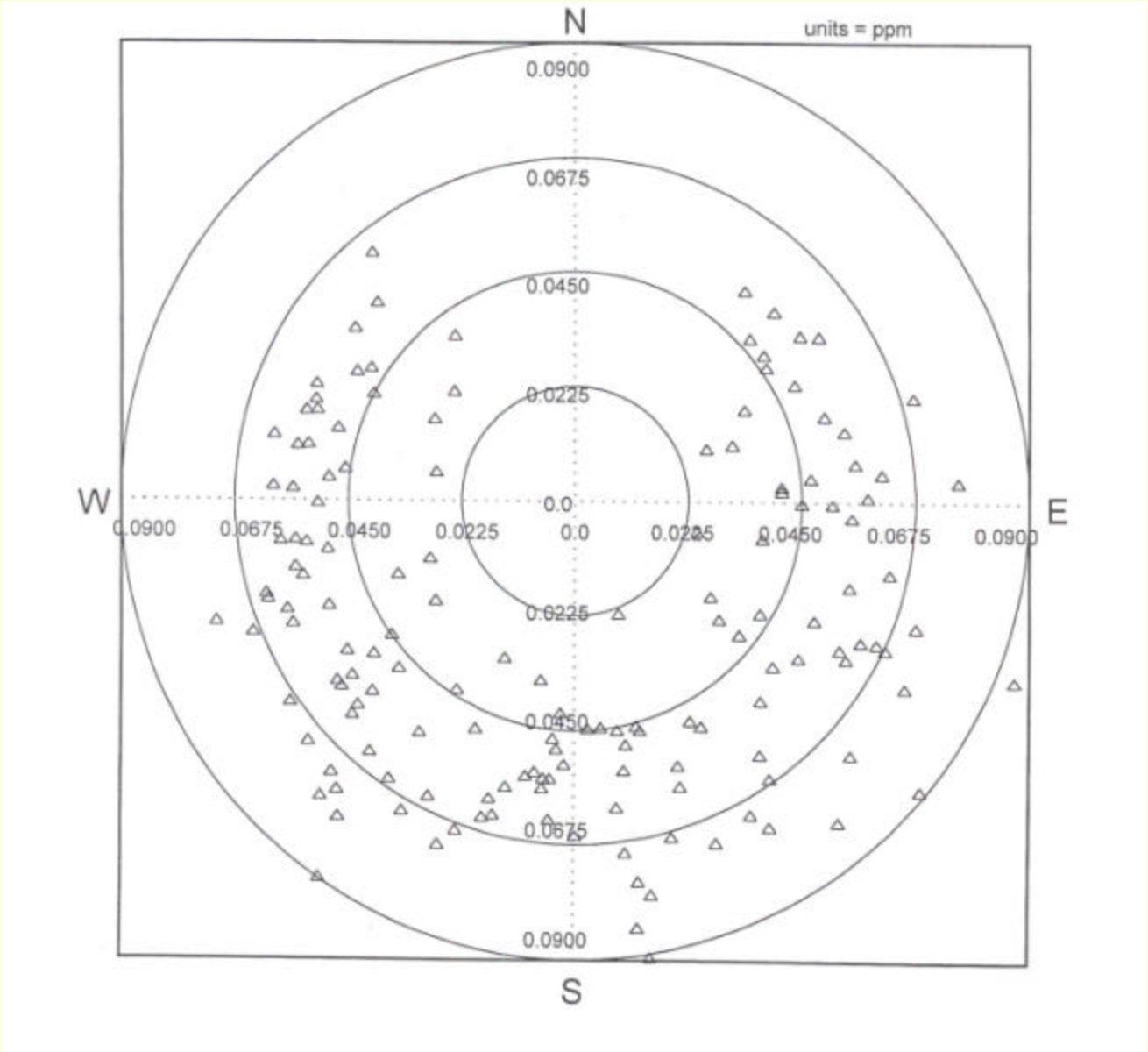
Meteorology



Observations, Key Questions, and Next Steps

Observations

•Three years of monitoring data unavailable for new permanent site in Elkhart County.

•One year average fourth high value of .099 is notably high.

•Downwind receptor site (Cassopolis) maintains a value (.095) above the standard.

Key Questions

•How will the implementation rule affect the region?

•Should the nonattainment boundaries be smaller than the historical boundaries or remain the same?

Next Steps

•IDEM accepting comment through May 2003

•Recommendations to be sent to Regional Administrator by July 15, 2003

•Designations final by April 2004

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Contact Information

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