



Midwest Air Quality Workshop

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Indiana Department of Environmental Management
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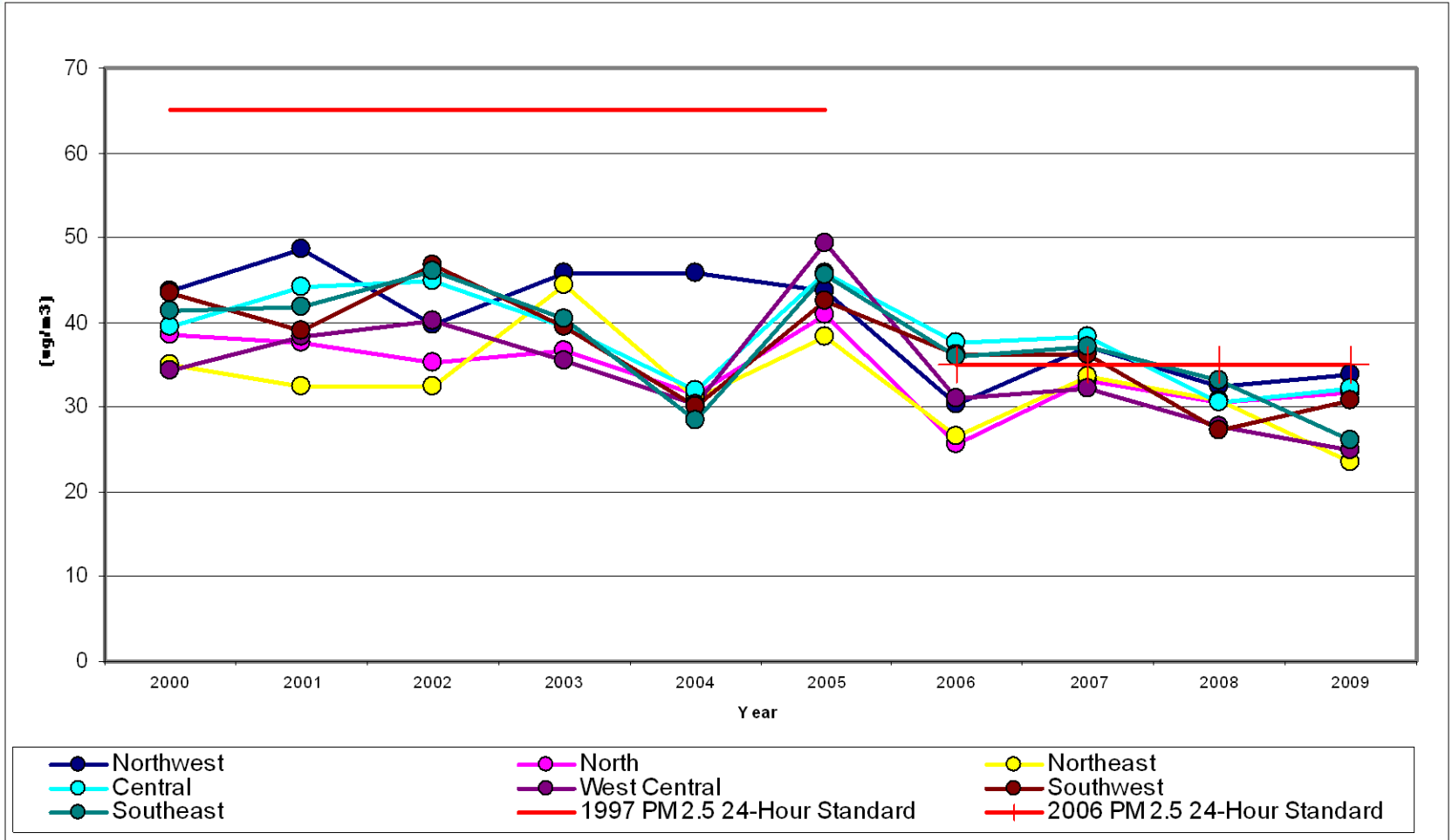


National Ambient Air Quality Standards (NAAQS)

Where Does Indiana Stand?

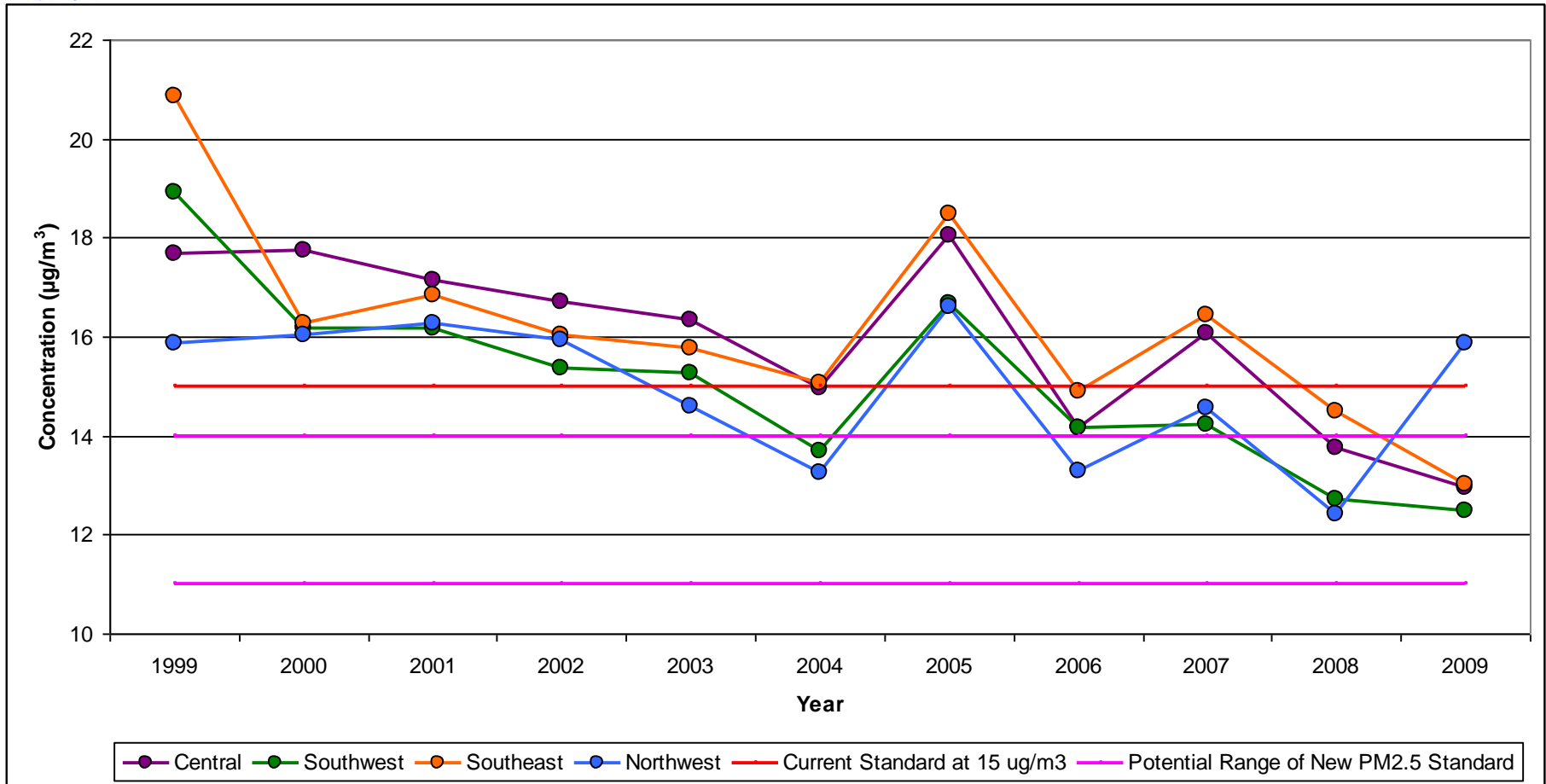


PM_{2.5} 24-Hour Trends 1999-2009





PM_{2.5} Annual Trends 1999-2009



Annual monitoring for PM_{2.5} did not begin until 1999

Note: The Hammond-Purdue monitor had an exceedance of the standard in 2009 but the three-year design value is still well below the standard.

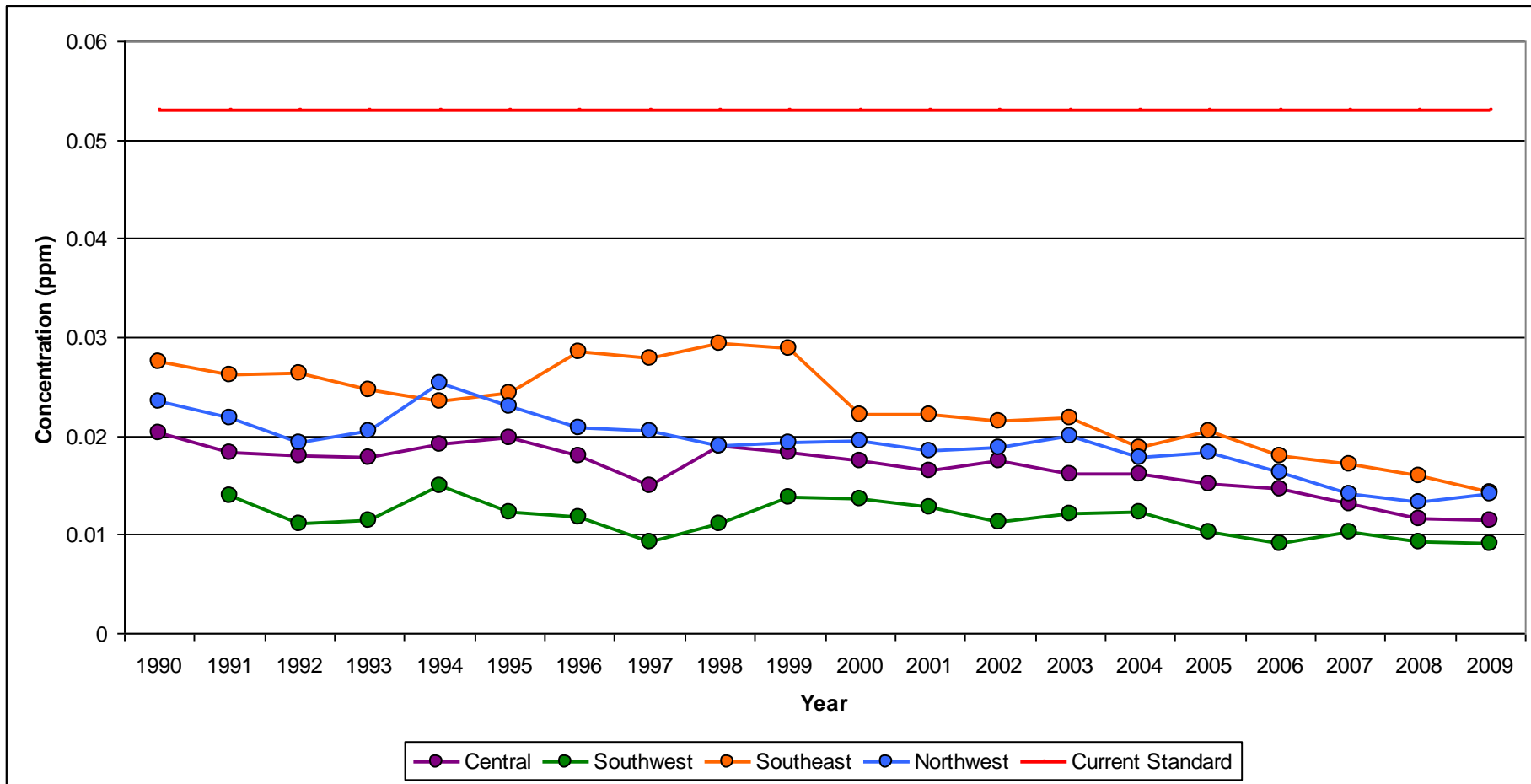


PM_{2.5} Redesignations

- Uncertainty associated with the implementation of CAIR has prevented approval of Indiana's redesignation requests.
 - Lack of support for demonstration for continuation of maintenance.
 - Areas pending include Central Indiana, Northwest Indiana, and Southwest Indiana.
 - Southeast Indiana and Lawrenceburg Township will be submitted in Fall 2010.
- U.S. EPA intends to propose approval of the pending PM_{2.5} redesignations based on the proposed transport rule.
- Final approval would be issued following finalization of the transport rule in mid-2011.

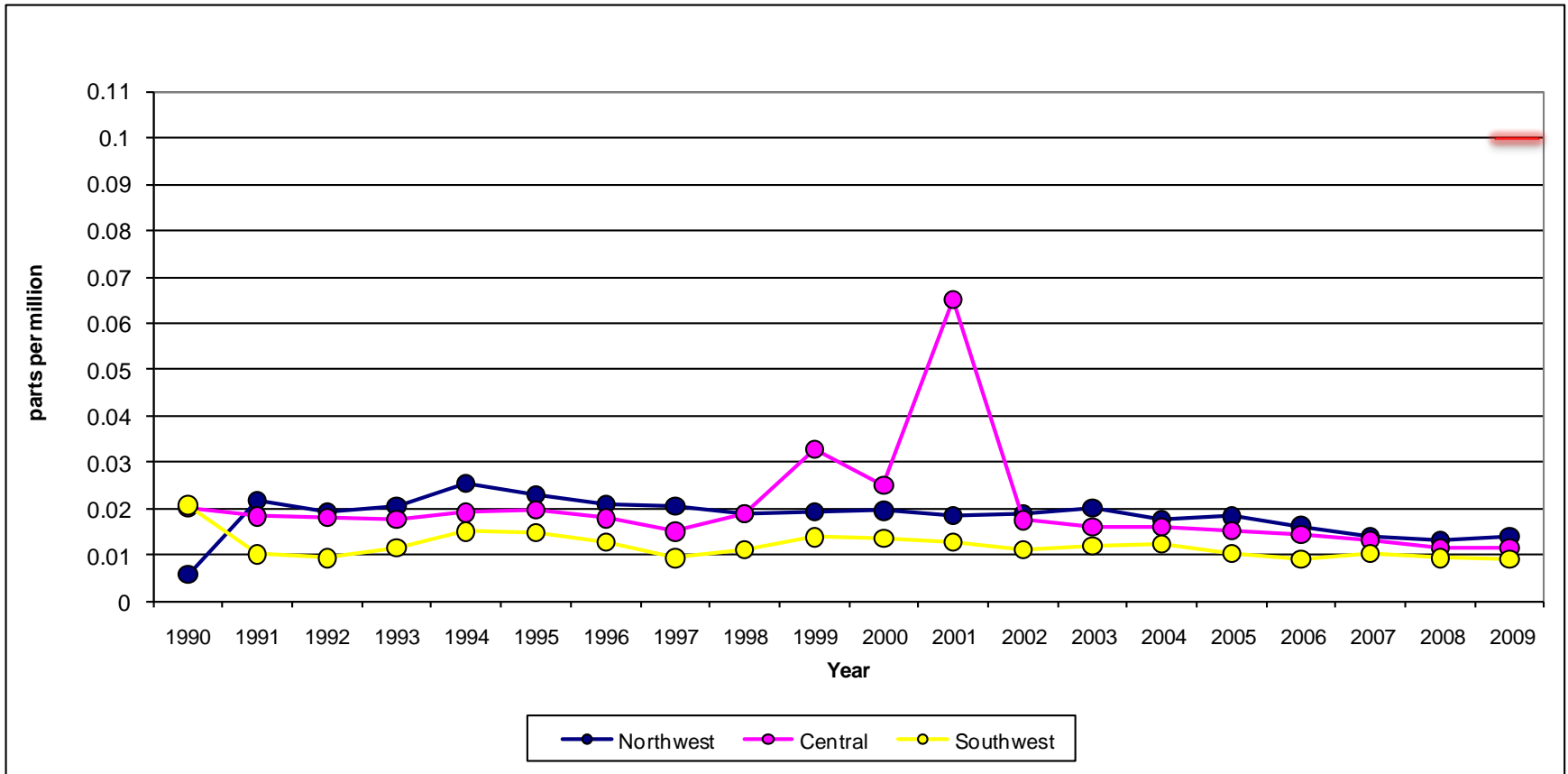


Annual NO₂ Trends 1990-2009





1-Hour NO₂ Trends 1990-2009

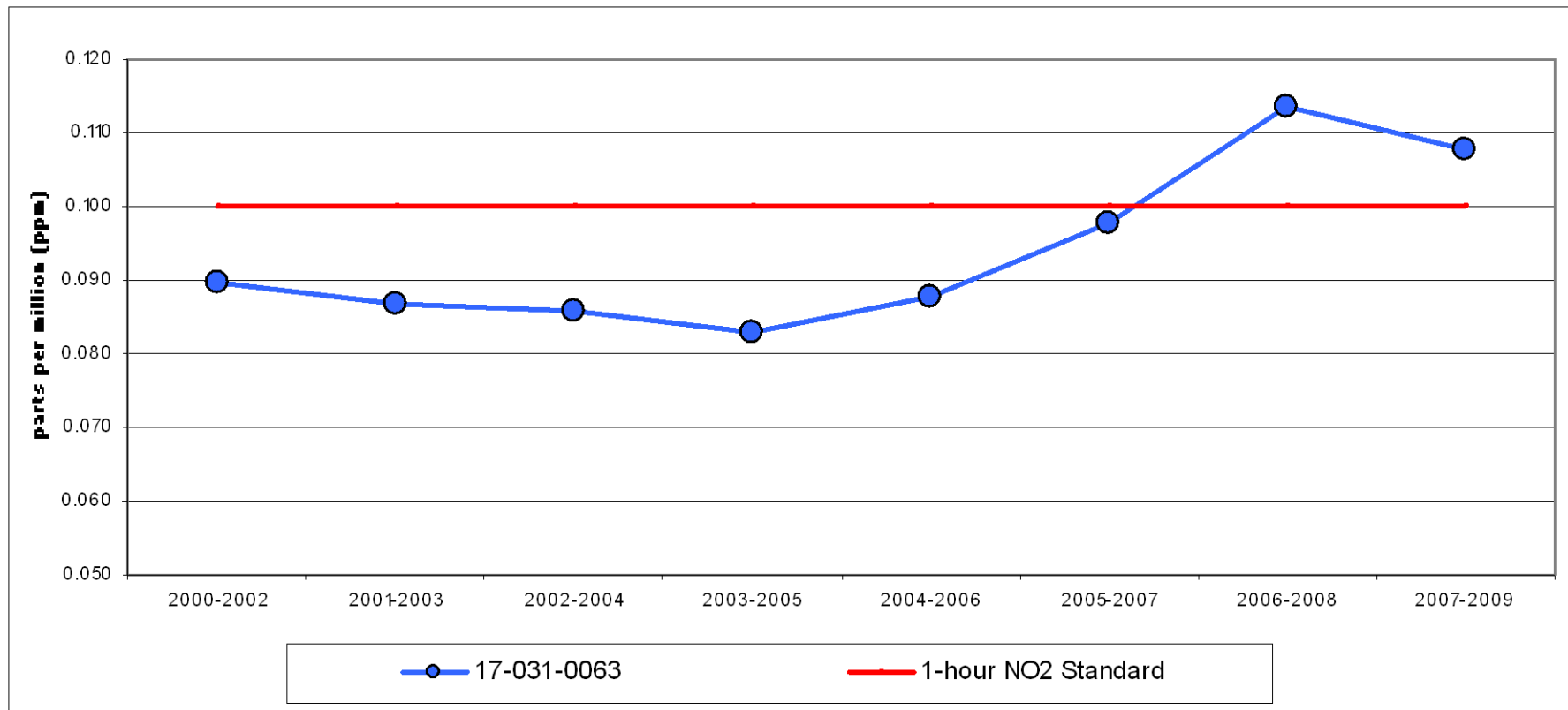


New
1-Hour
Standard



Franklin Rd, Chicago NO₂ Monitor Data

Only monitor in the country that is over the 1-hour NO₂ standard.



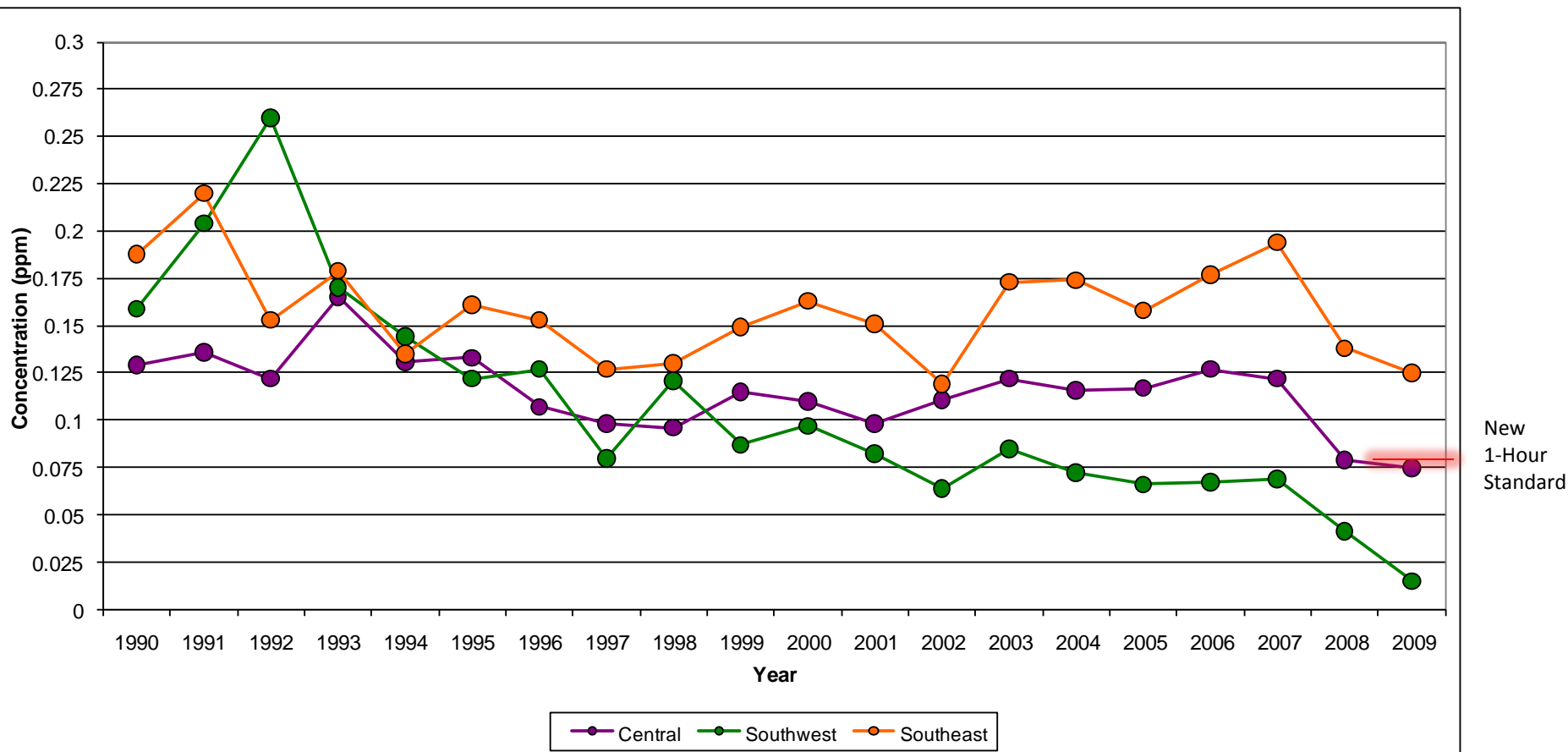


New NO₂ Monitoring Requirements

- Near-Road Monitors
 - Within 50 meters from edge of selected major roads (based on annual average daily traffic).
 - Potential issues: road grades, noise barriers, air flow, access to monitor.
 - Start operating January 1, 2013.
- Indiana counties requiring near-road monitors: Lake, Marion.
- Unclear whether NO₂ NAAQS will pose a challenge until near-road monitoring network is in place.



SO₂ Annual Trends 1990-2009



Note: The new 1-hour SO₂ standard set at 0.075 ppm was not established until 2010 and is not shown on this graph.



SO₂ Designations

U.S. EPA anticipates initially designating areas based on 2008-2010 monitoring data.

Designation	Criteria
Nonattainment	Monitoring data or modeling results shows a violation of the standard
Attainment	Both monitoring data and modeling results showing no violation of the standard
Unclassifiable	All other areas

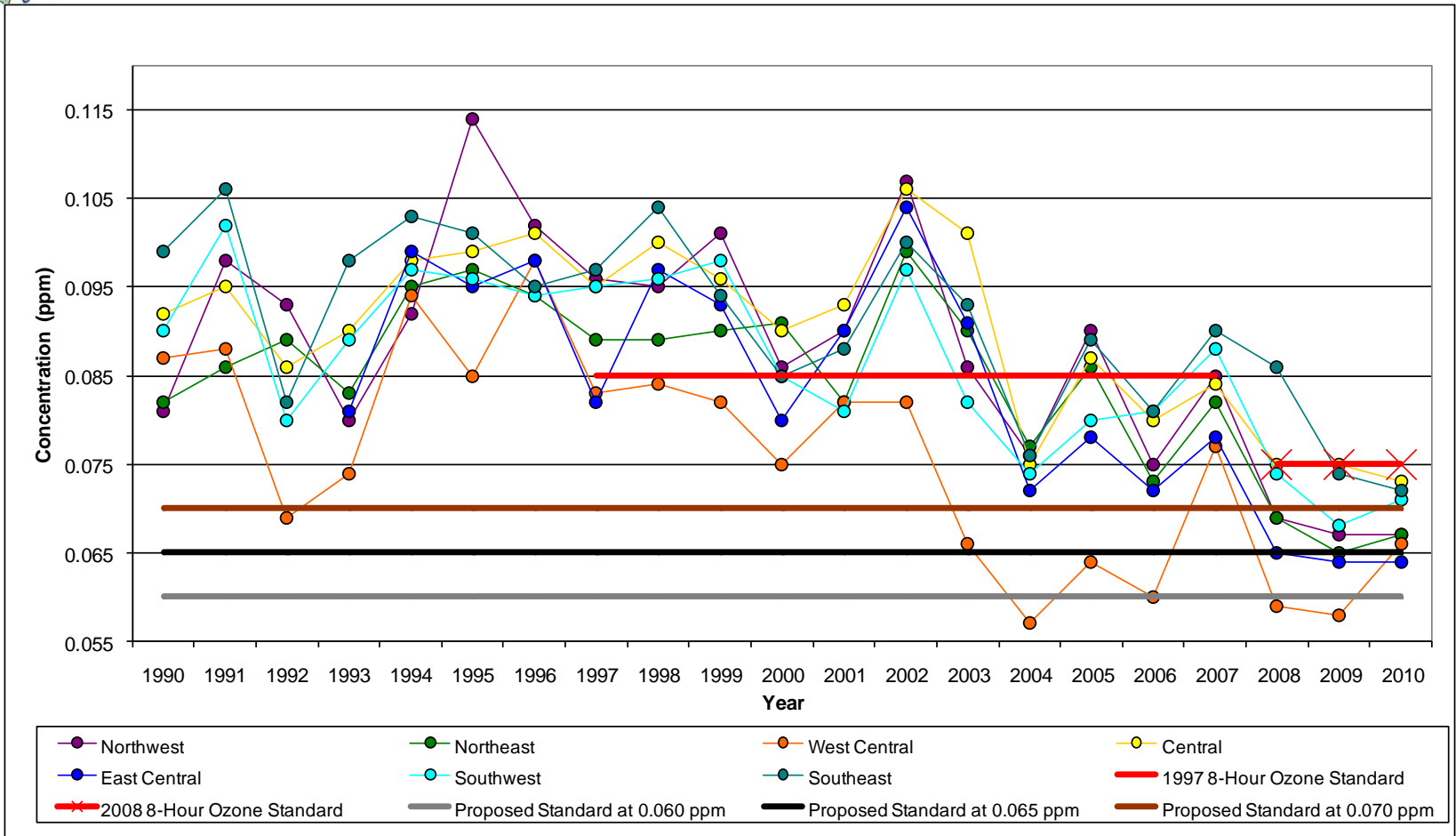


SO₂ SIP Development Process

- IDEM prefers a single SIP development process to meet all obligations since both maintenance SIP and attainment SIP require modeling and rulemaking.
 - Addresses all obligations.
 - Conserve resources.
 - Ensure timely SIP submittals.
 - Eliminate confusion associated with rulemaking for emission limitations or controls.
 - Reduce the burden of additional monitoring.

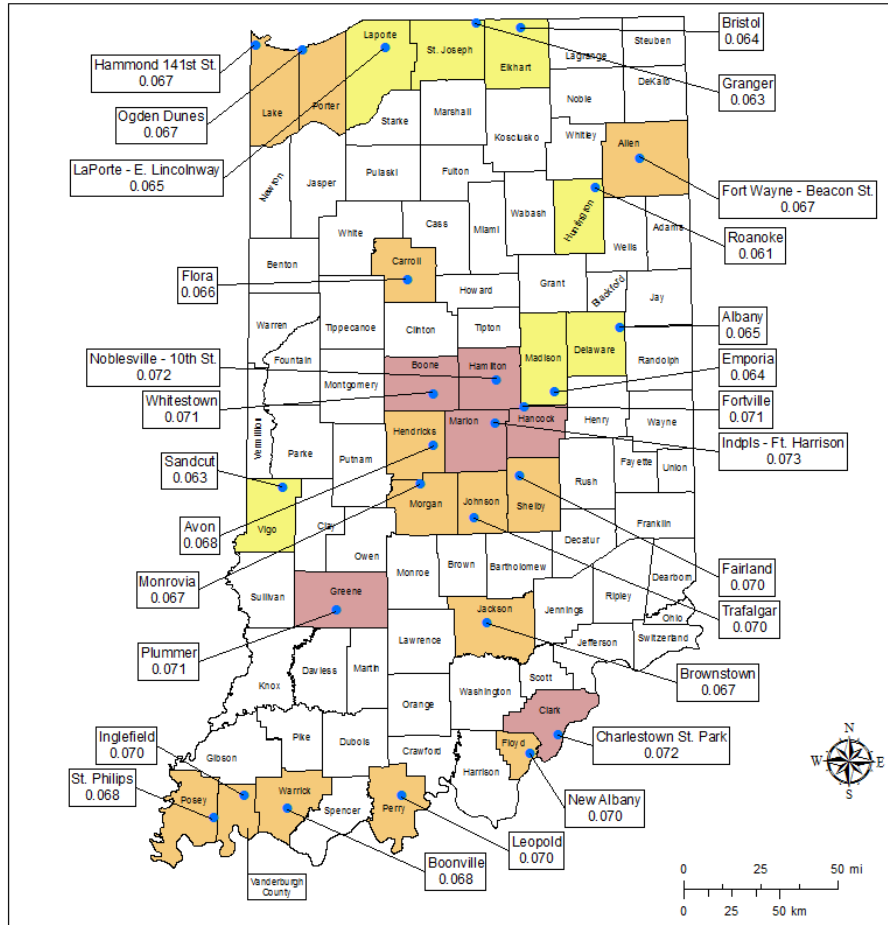


8-Hour Ozone Trends 1990-2009





8-hour Ozone Design Values (Controlling Sites Only) 2008 - 2010 Data as of October 4, 2010



Legend

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Mapped By: S. Raymond, OAQ Date: 10/4/2010

Sources: Non-Orthophotography Data Obtained from the State of Indiana Geographical Information Office and Office of Air Quality.

Map Projection: UTM Zone 16 N Map Datum: NAD83

Values posted are in units of Parts Per Million (ppm)

- Ozone Monitor
- County With No Ozone Monitor
- County With Ozone Monitor Less Than Or Equal To 0.065 ppm
- County With Ozone Monitor Greater Than Or Equal To 0.066 ppm and Less Than Or Equal To 0.070 ppm
- County With Ozone Monitor Greater Than Or Equal To 0.071 ppm



Rule Development To Support Future Air Quality Improvement

- Stage 1 vapor recovery (statewide) (LSA#07-353)-Effective
- Consumer and commercial products (LSA#07-351)-Final Adopted 9/10
- Architectural and Industrial Maintenance (AIM) Coatings (LSA#06-604)-Final Adopted 9/10
- Outdoor hydronic heaters (LSA#05-332)-Proposed 9/10
- Automobile refinishing operations (LSA#06-603)-Effective
- Clean Air Transport Rules I & II
- MACT standards for various stationary sources
- Fuel, engine, and fuel economy standards



Contact Information

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