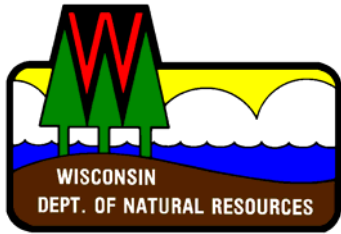


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# Regional Air Quality Update WI DNR – Air Management

John H. Melby, Jr. – Bureau Director

*LADCO Regional Air Quality Meeting  
October 26, 2010*

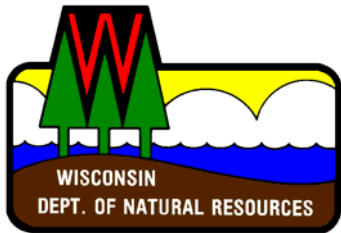


# Discussion Topics

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## Regional Pollutant Regulatory Updates

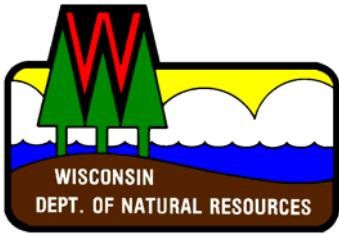
- ◆ Base Emission Levels (NO<sub>x</sub> and SO<sub>2</sub>)
- ◆ Ozone
- ◆ Fine-Particles
- ◆ Haze
- ◆ On-the-Radar : NO<sub>2</sub> and SO<sub>2</sub>
- ◆ MACT
- ◆ Inventories & Transportation Conformity



# Ozone

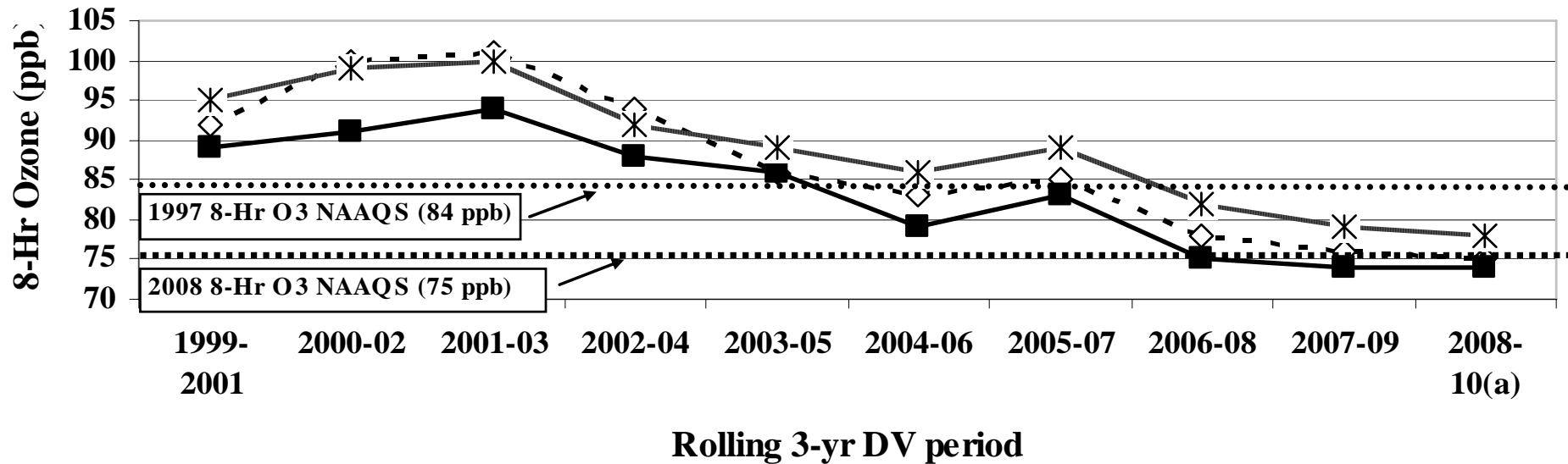
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- ◆ 1997 8-Hour Standard
  - Redesignation Submitted for remaining areas – update for delayed VOC RACT rules
  - Monitoring attainment, but exceeding at one site in 2010
  - Though highest values have dropped critical values level for 2011
  - Regional NOx Strategy seems key
  - Hold up is VOC RACT (updates to VOC CTGs)
  - Attainment and Maintenance not seen as problem

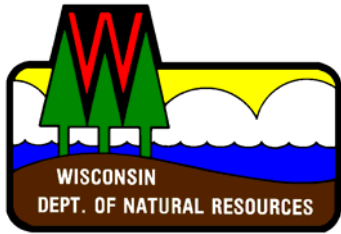


# Chiwaukee, Milwaukee Bayside, Sheboygan - Ozone Trends

**8-Hr Ozone Design Values  
Chiwaukee, Milwaukee-Bayside, Sheboygan  
1999-2010<sup>(a)</sup>**



-◇- Chiwaukee 8-hr O3 Design Value (ppb)    -■- Milwaukee-Bayside 8-hr O3 Design Value (ppb)  
 -\*-\* Sheboygan 8-hr O3 Design Value (ppb)

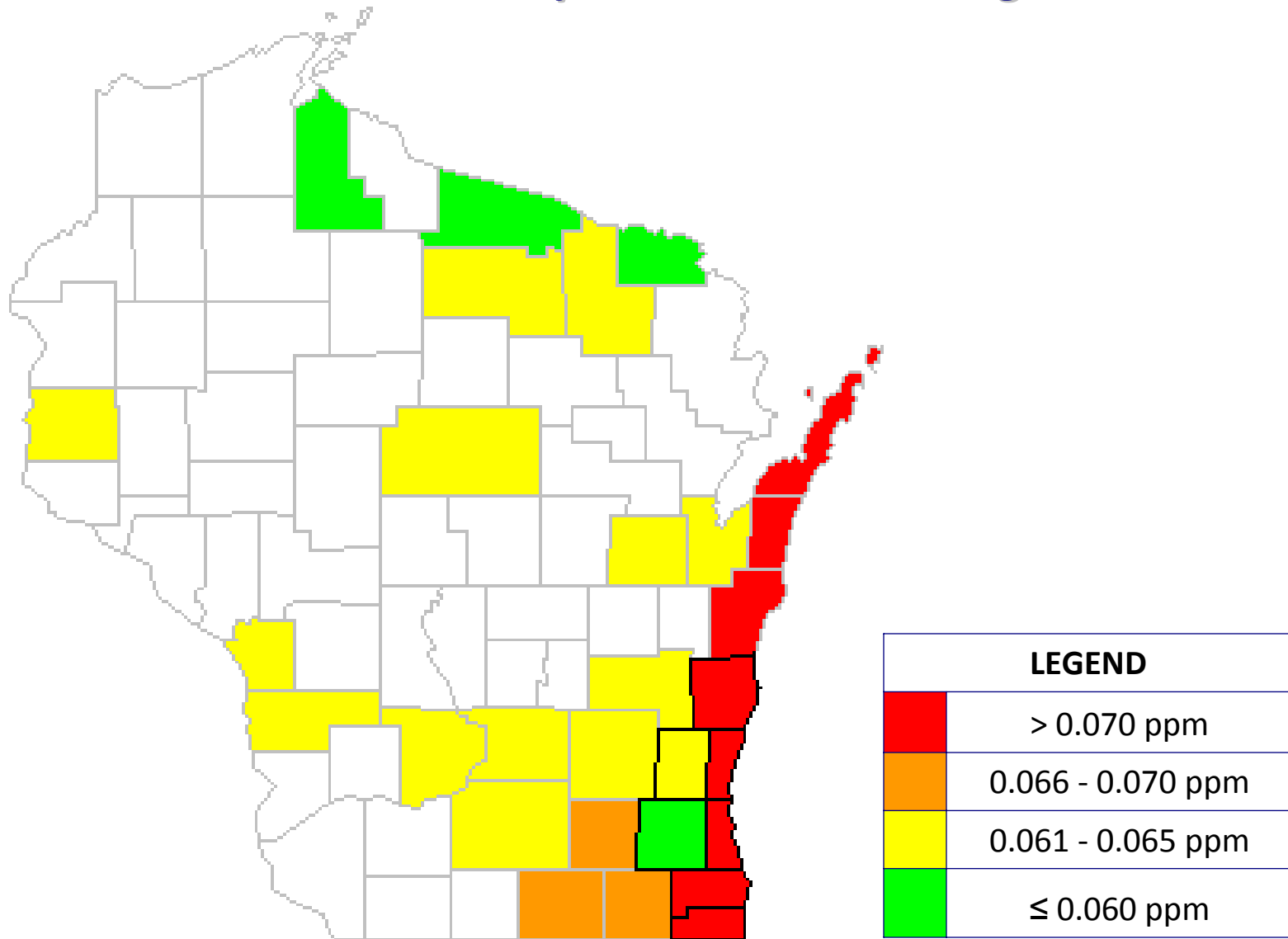


# Ozone

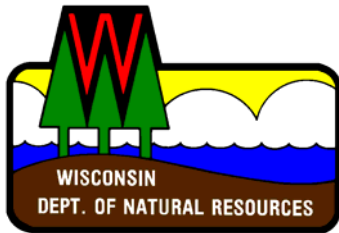
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- ◆ New (2010?) 8-Hour Standard
  - Expecting widespread Nonattainment (see following map)
  - 2008 exceptionally low ozone year, 2009-2011 DV likely to increase
  - Continuing regional NO<sub>x</sub> Reduction Strategy will be Key
  - Expecting strong Fed measures to support
  - Designation approach may depend on level of standard
  - Planning will involve a stronger regional component regardless of area definitions

## 2008 – 2010 Preliminary 8-Hour Ozone Design Values



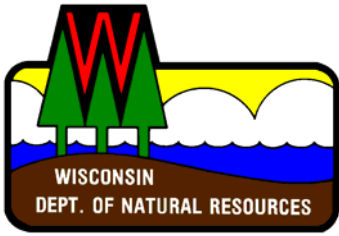
*Outlined areas reflect counties still designated nonattainment for 1997 standard.  
2009 plus 2010 4<sup>th</sup> high averages are higher than 2008-2010 design values.*



# PM-2.5

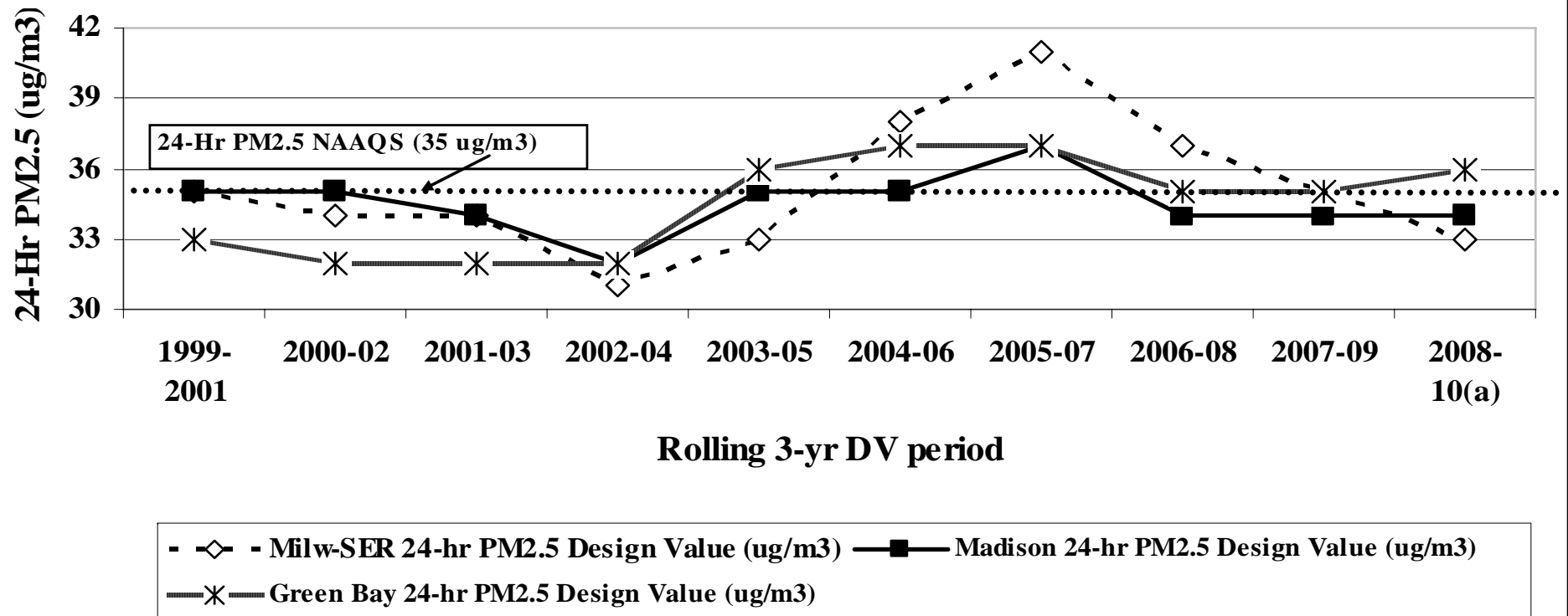
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- ◆ 1997 Annual Standard
  - All areas designated and monitoring attainment
  - Regional SO<sub>2</sub> and NO<sub>x</sub> Strategies seem key
  - Trend is more level than expected but does drop in most recent timeframe
  - Maintenance no longer seen as problem
- ◆ 2006 24-Hour Standard
  - 3 Counties Designated Nonattainment – Milwaukee, Racine, Waukesha
  - Regional Planning Process to address – Transport Critical
  - Possible additional county if current trend continues
- ◆ 2011? Review
  - More counties possible but not necessarily likely under either standard

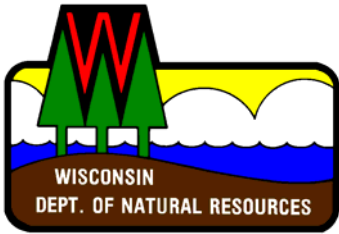


# Madison, Milwaukee, Green Bay PM 2.5 Trends

**24-Hr PM<sub>2.5</sub> Design Values  
Milwaukee-SER, Madison, Green Bay  
1999-2010<sup>(a)</sup>**





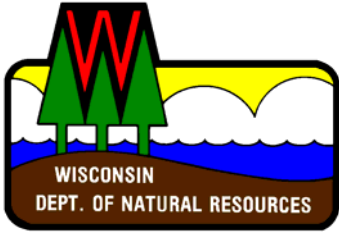


# Regional Haze

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## ◆ Progress SIP past-due

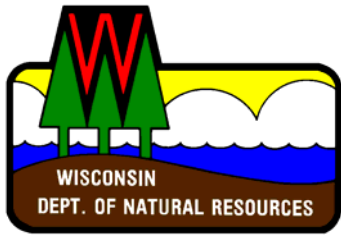
- BART rule final and updated to more extended compliance period – part of Progress SIP
- BART Determination for one major source nearing closure
- 0-to-3 Sources may yet need Determinations
- Progress SIP Outline via LADCO/MWRPO
- EPA must still address Transport Rule 1 = BART



## MACT & other Regional

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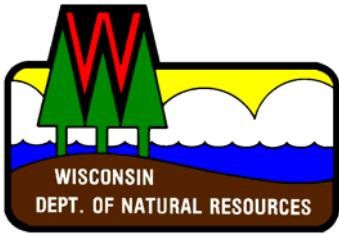
- ◆ Awaiting final Boiler MACT
- ◆ Awaiting final EGU MACT inclusive of Mercury
- ◆ NO<sub>2</sub> Standard
- ◆ SO<sub>2</sub> Standard



# Inventories & Transportation Conformity

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- ◆ Crunching to finalize 2008 for SIPs
- ◆ Major transition from MOBILE 6 to MOVES
- ◆ Conformity True-up will be tough on process but achievable
- ◆ New PM 2.5 “Hot Spot” Analysis Requirement for certain projects of Air Quality Concern
- ◆ Transportation Conformity MOA submitted to stakeholders for final review



## Technical Contact Information

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- ◆ Mike Friedlander – Acting RPM Chief
  - ◆ [Michael.Friedlander@Wisconsin.gov](mailto:Michael.Friedlander@Wisconsin.gov)
  - ◆ 608-267-0806
  
- ◆ Bob Lopez – SIPs Development Lead
  - ◆ [Robert.Lopez@Wisconsin.gov](mailto:Robert.Lopez@Wisconsin.gov)
  - ◆ 608-267-5284