

NAAQS Update

CIBO Quarterly Meeting
March 6, 2013

Key NAAQS Schedules

- SO₂
 - Final designations (1 of 3) June/July 2013
 - Attainment demonstration February 2015
 - Attainment date August 2018
- Ozone (2014 standard)
 - Final designations 2016
 - Attainment demonstrations 2019
 - Attainment dates 2019 to 2036
- PM_{2.5}
 - Final designations end of 2014
 - Attainment demonstration end of 2016
 - Attainment dates 2021 to 2025

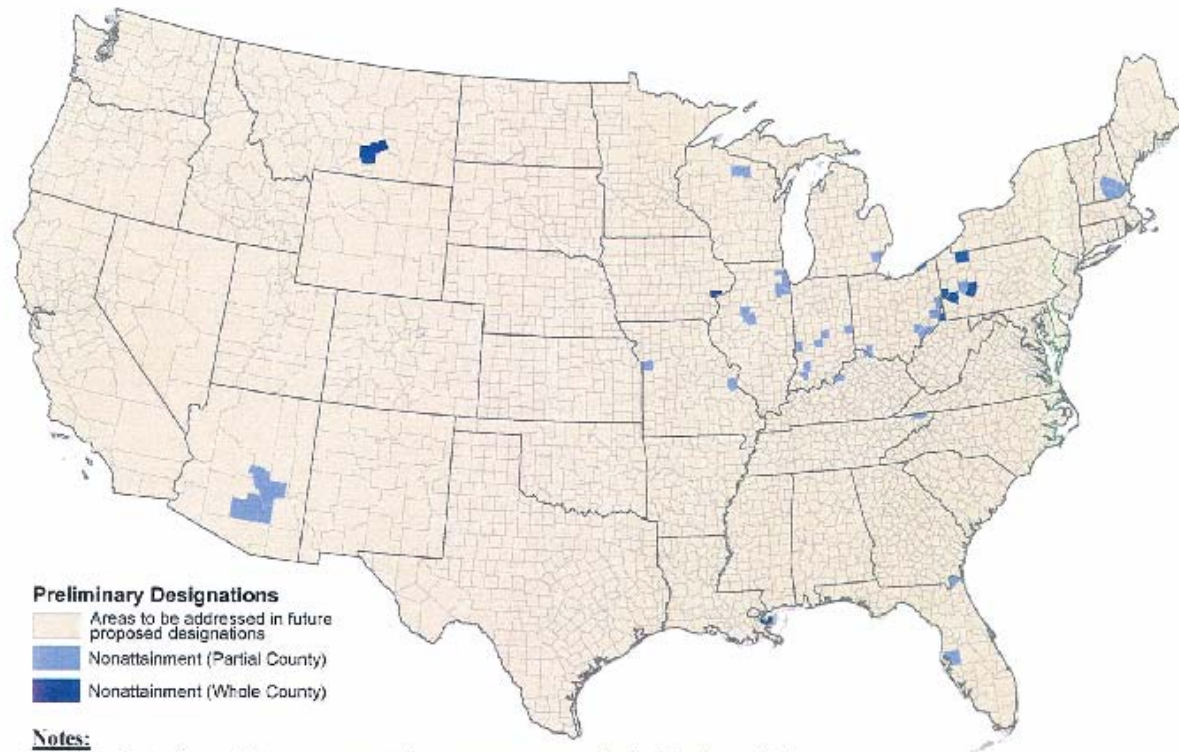
SO₂ NAAQS—Key Dates

- 2/13: 120-day letters to states with one or more n/a areas (based on existing monitoring)
- 4/13 & 7/13: draft & final TADs on monitoring and modeling
- Late 2013/2014: draft & final rules on data requirements
- 2015: State decisions on sources to be modeled or monitored
- 1/2016: final decision on source monitoring; submittal of modeling protocols
- 1/2017: monitors deployed & operational
- 12/2017: final designations based on modeling
- 8/2019: attainment demonstrations for modeled n/a areas
- 12/2020: final designations based on new monitoring
- 8/2022: Attainment demonstrations due for new monitored n/a areas

Key SO₂ Issues

- EPA is taking informal comments on size thresholds for sources recommended for monitoring (larger for sources in rural areas, smaller for sources in populated areas)
- States can avoid n/a designations for modeled n/a areas by submitting enforceable control measures & a new modeling demonstration of attainment by 1/2017
- Sources can use actual emissions for modeling demonstrations
- EPA will not be making formal attainment demonstrations until 2017 due to the need for new guidance on monitor siting

Preliminary SO₂ Designations

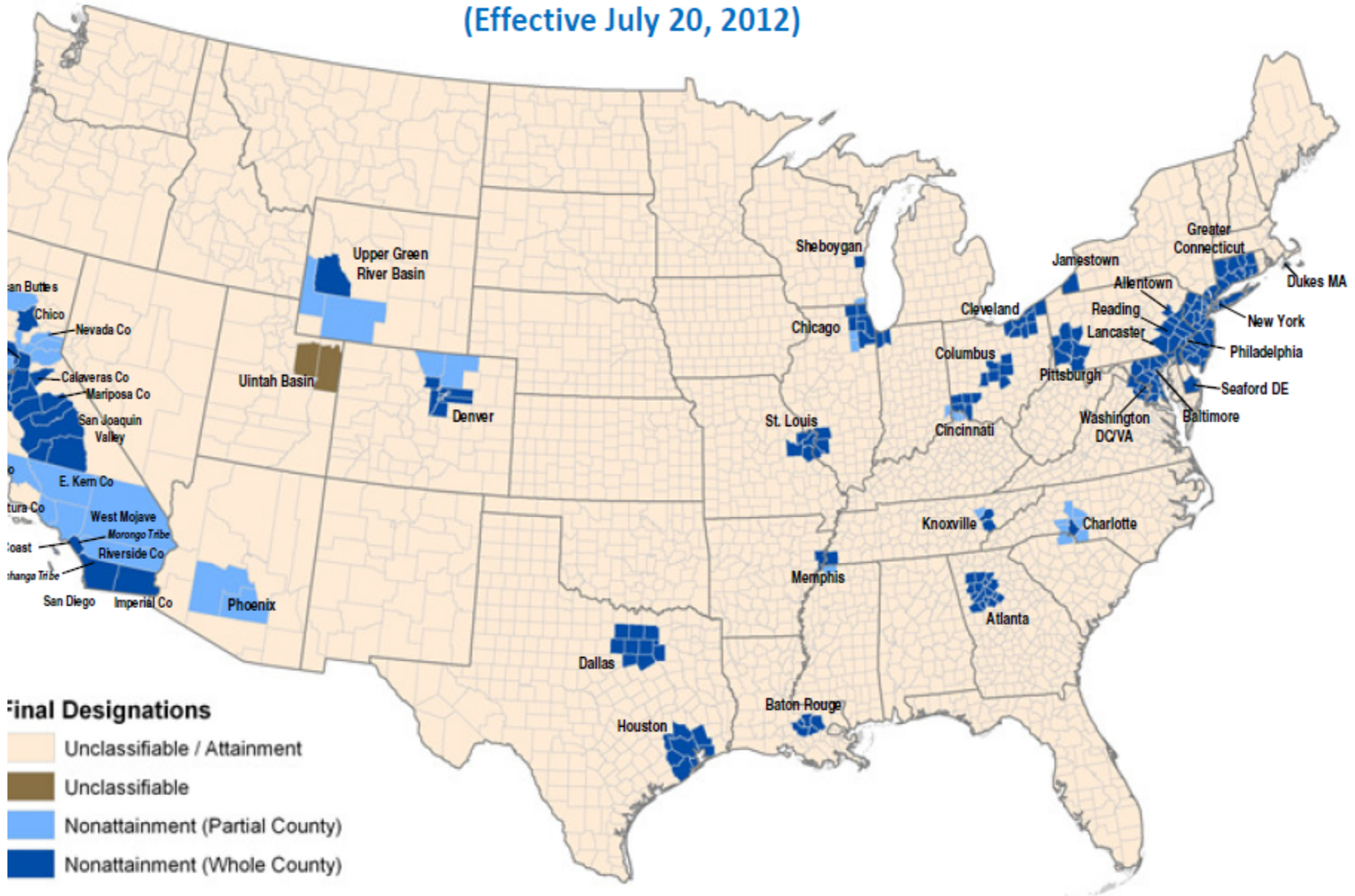


Notes:

EPA is not intending to designate as nonattainment any areas outside the Continental US.

Nonattainment Areas for 2008 Ozone NAAQS

(Effective July 20, 2012)



Final Designations

- Unclassifiable / Attainment
- Unclassifiable
- Nonattainment (Partial County)
- Nonattainment (Whole County)

Ozone Issues—2008 Rule

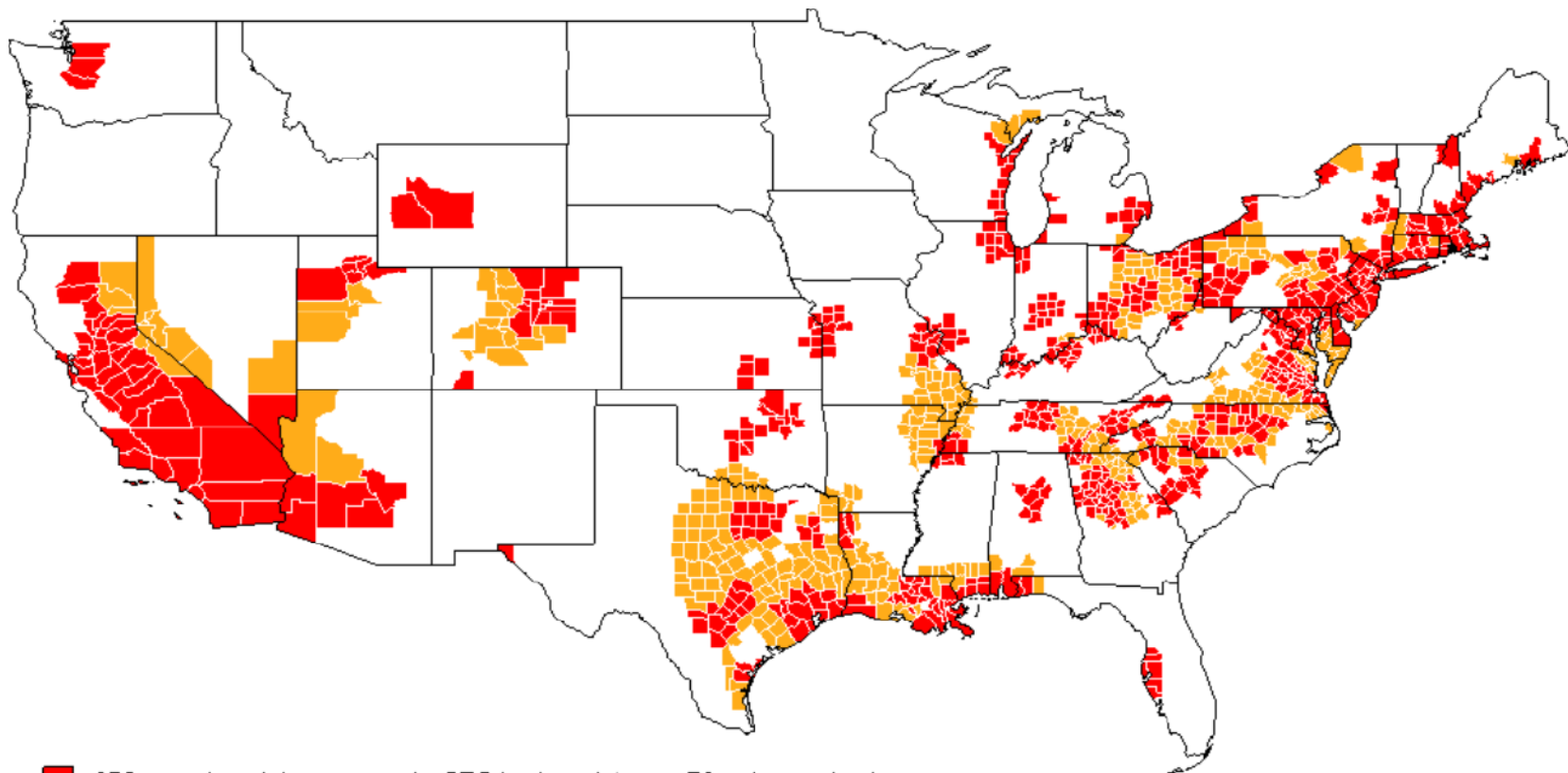
- An implementation rule & guidance in preparation; working through the OMB process
- Rules & guidance, for the most part, will offer a preview of requirements for the new ozone NAAQS
- Widespread state support for delaying SIP preparation, submittal, and implementation

New Ozone Rule

- Current schedule
 - Integrated Science Assessment—recently released
 - Risk, Exposure, & Policy Assessment—May/June 2013
 - Proposal—December 2013
 - Final rule—September 2014
- Staff & CASAC recommendation: standard between 60 & 70 ppb; CASAC has also asked EPA to evaluate standard at 55 ppb
- New NOAA study: up to 40 ppb in international transport of ozone measured by satellite

Ozone

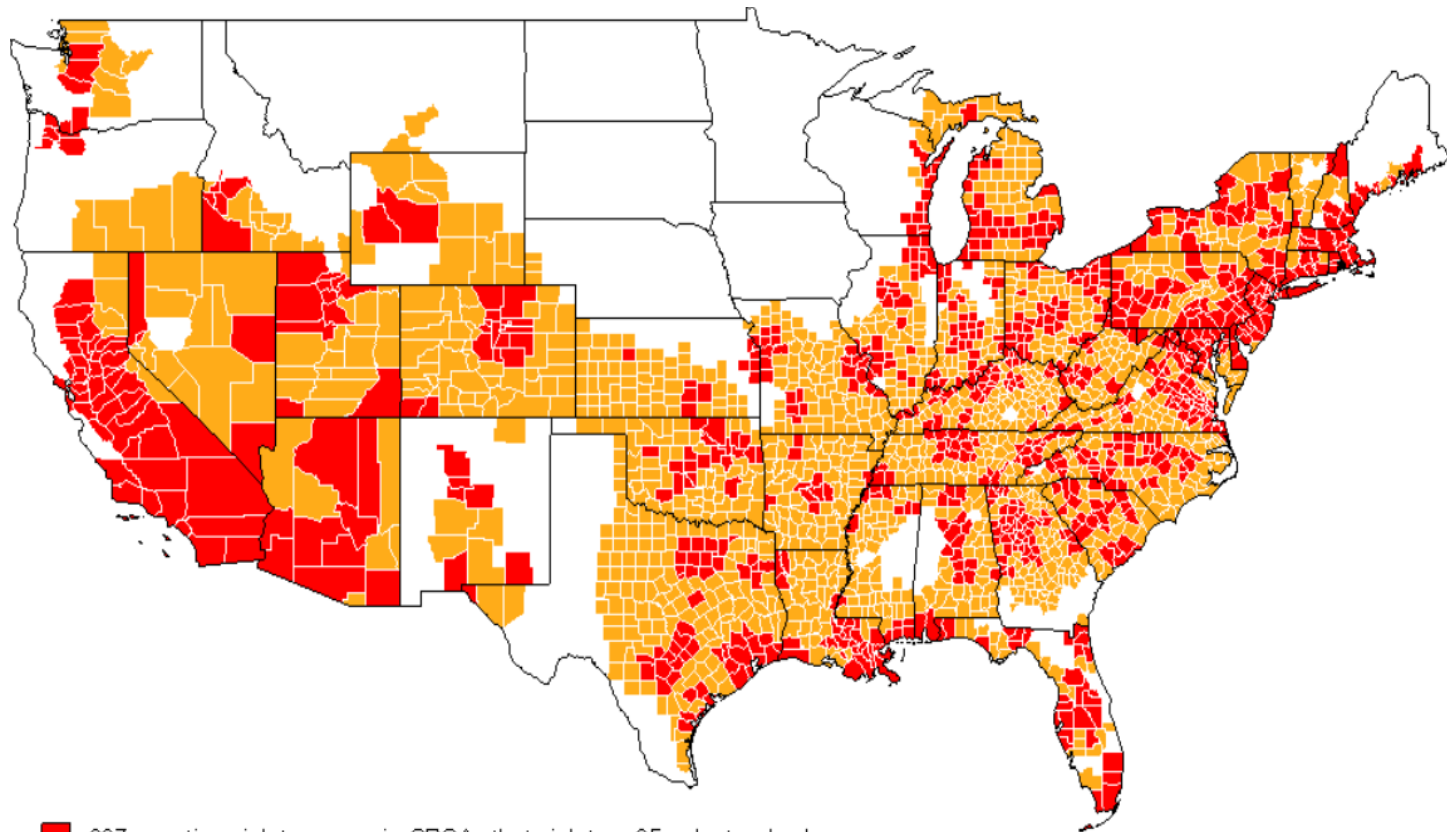
- EPA & CASAC have recommended a new ozone standard be set between 55 and 70 ppb. The map below shows extrapolated nonattainment areas at 70 ppb



- 652 counties violate, or are in CBSAs that violate a 70 ppb standard
- 401 additional counties are anticipated to violate a 70 ppb standard based on spatial interpolation

Ozone

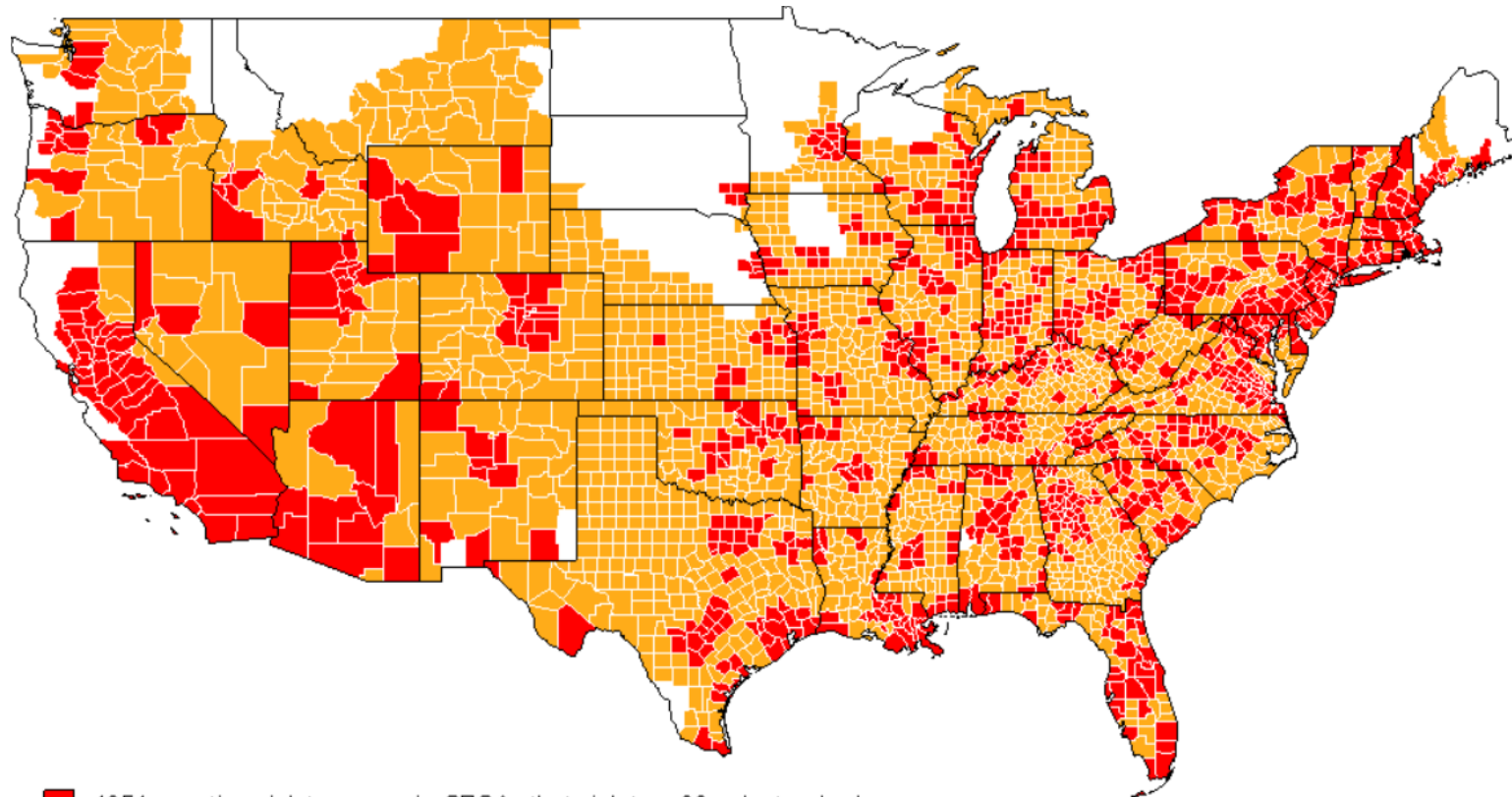
- Projected, extrapolated n/a areas at 65 ppb



- 897 counties violate, or are in CBSAs that violate a 65 ppb standard
- 1320 additional counties are anticipated to violate a 65 ppb standard based on spatial interpolation

Ozone

- Projected, extrapolated n/a areas at 60 ppb



■ 1051 counties violate, or are in CBSAs that violate a 60 ppb standard
■ 1744 additional counties are anticipated to violate a 60 ppb standard based on spatial interpolation

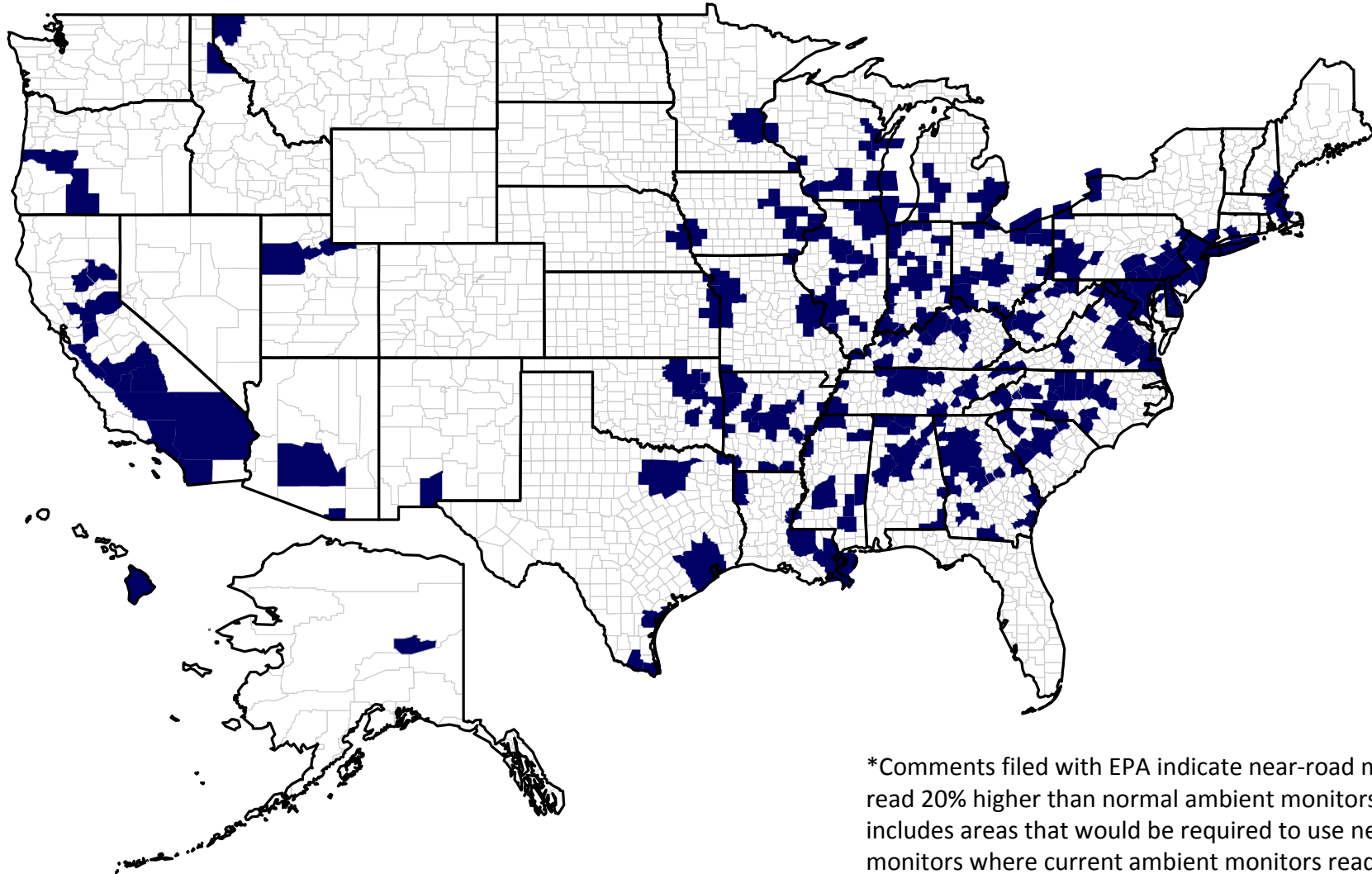
New PM_{2.5} NAAQS

- Final rule published 1/15/2013; legal challenges must be filed by 3/16/13
- Rule lowered annual standard from 15 to 12 $\mu\text{g}/\text{m}^3$, but kept 35 $\mu\text{g}/\text{m}^3$ 24-hour standard, secondary standard, and PM₁₀ standards
- EPA will require states to monitor road-side emissions of PM_{2.5} (de facto tightening)
- Limited grandfathering of permit applications, otherwise immediate impact on PSD permitting, state mNSR permitting, some Title V renewals

New PM_{2.5} NAAQS Implementation Issues

- Initial n/a area designations by end of 2014, effective early 2015, but no final implementation rule until ~ 12/14
- Measurement issues: blanks biases, problems with wet sources, faulty AP-42 EFs
- Subpart 4 Court decision: treatment of PM_{2.5} precursors, 2007 implementation and PSD/NSR rules remanded to EPA
- SILs/SMCs Court decision (Jay or Lisa?)
- Modeling (Jay?): EPA guidance due out any day (?)

Non-Attainment Areas at 12 $\mu\text{g}/\text{m}^3$ With Near-Road Monitors*



*Comments filed with EPA indicate near-road monitors read 20% higher than normal ambient monitors. Map includes areas that would be required to use near-road monitors where current ambient monitors read 10 $\mu\text{g}/\text{m}^3$ or higher.

Based on 2008-2010 data accessed from <http://www.epa.gov/airtrends/values.html>