

# Clean Air Scientific Advisory Committee Meeting Highlights

## Review of the O<sub>3</sub> NAAQS: Second Draft Health Risk and Exposure Assessment (REA)

Clean Air Scientific Advisory Committee  
CASAC Ozone Panel  
March 25-27, 2012

## Review of the O<sub>3</sub> NAAQS: Second Draft Policy Assessment

Clean Air Scientific Advisory Committee Meeting  
CASAC Ozone Panel  
March 25-27, 2014



## Review of the O<sub>3</sub> NAAQS: Second Draft Welfare Risk and Exposure Assessment (REA)

Clean Air Scientific Advisory Committee Meeting  
CASAC Ozone Panel  
March 25-27, 2014



# CASAC Meeting Details

- The Clean Air Scientific Advisory Committee Ozone Panel met on March 25-27
- The meeting focused on the following documents:
  - Second Draft Health Risk and Exposure Assessment (REA)
  - Second Draft Welfare Risk and Exposure Assessment (REA)
  - Second Draft Policy Assessment (PA)
- The meeting included EPA presentations, public comment, and panel discussion
- A meeting summary and materials can be found at - <http://yosemite.epa.gov/sab/sabpeople.nsf/WebCommittees/CASAC>  
Under the calendar tab on the left

# EPA Conclusions and Recommendations

- Conclusions for the **Primary Standard**:
  - New evidence strengthens the conclusions of the previous review regarding health effects of ozone exposure
  - Evidence supports the finding of adverse health effects under conditions that meet the current standard
  - Calls into question the adequacy of protection provided by the current standard and revision should be considered
- EPA Recommendation:
  - Consider retaining the current 3-year average of 4<sup>th</sup> high form
  - Consider revising the level to within the range of 70 to 60 ppb

# EPA Conclusions and Recommendations<sub>(2)</sub>

- Conclusions for the **Secondary Standard**:
  - New evidence strengthens the conclusions of the previous review regarding the cumulative vegetative effects of ozone
  - Revision of the standard should be considered to increase protection against ozone attributable adverse effects on vegetation and ecosystems
- EPA Recommendation:
  - Consider adopting the W126 cumulative seasonal index averaged over 3-years as the form for this standard
  - Consider setting the level to a range of 17 to 7 parts per million-hours

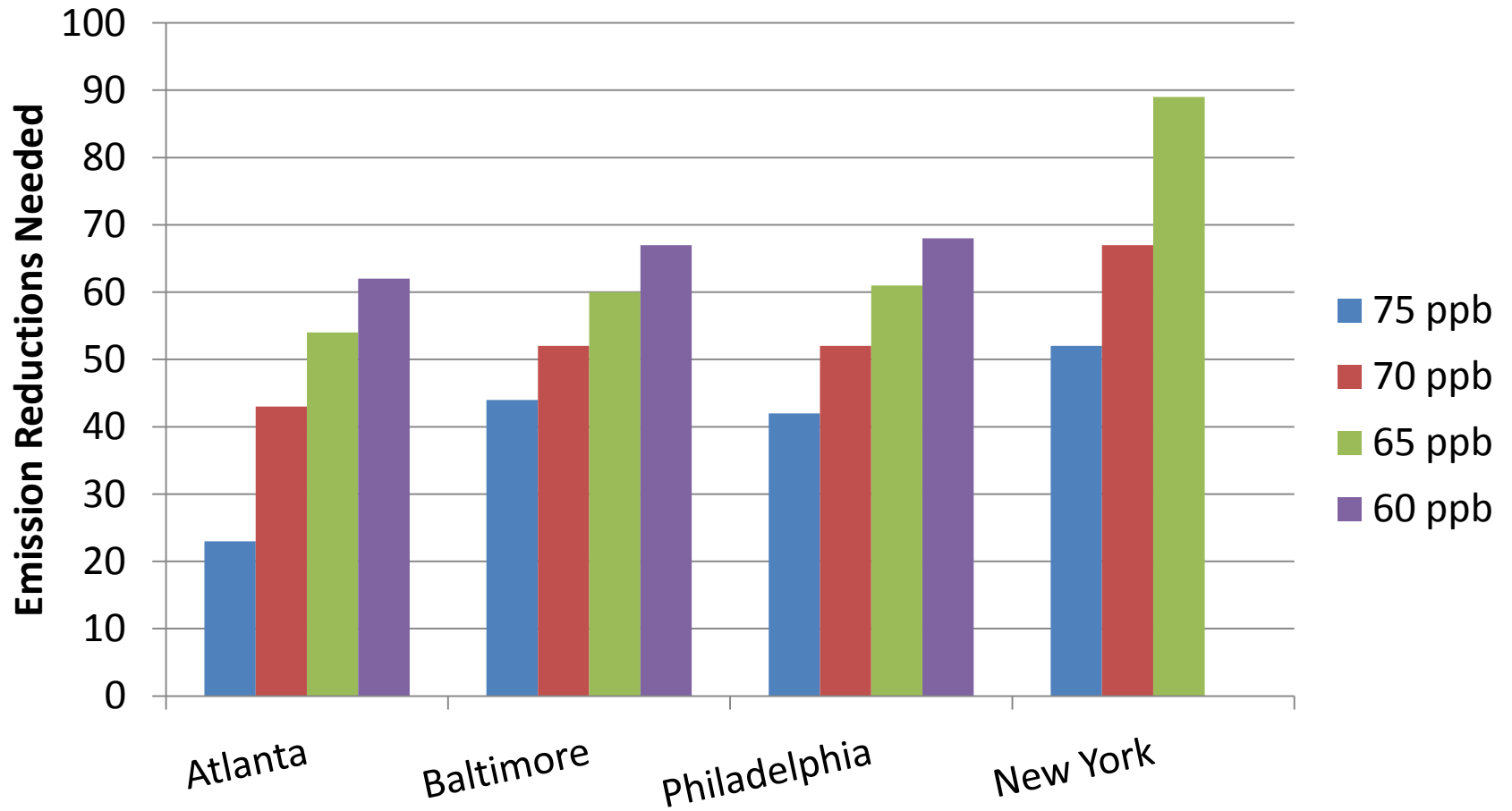
# Summary of Public Comments & Concerns

- Environmental groups generally advocated for adequate protection for at-risk populations and to consider setting the standard as something else than 60 ppb
- Industry groups had a number of comments:
  - Consider retaining the current 75 ppb standard
  - Additional benefits well within the bounds of uncertainty
  - The impact and importance of background
  - Use of a zero risk-based model vs. a threshold model
  - Errors in the EPA long-term effects analysis
  - Cost and feasibility of meeting a lower standard

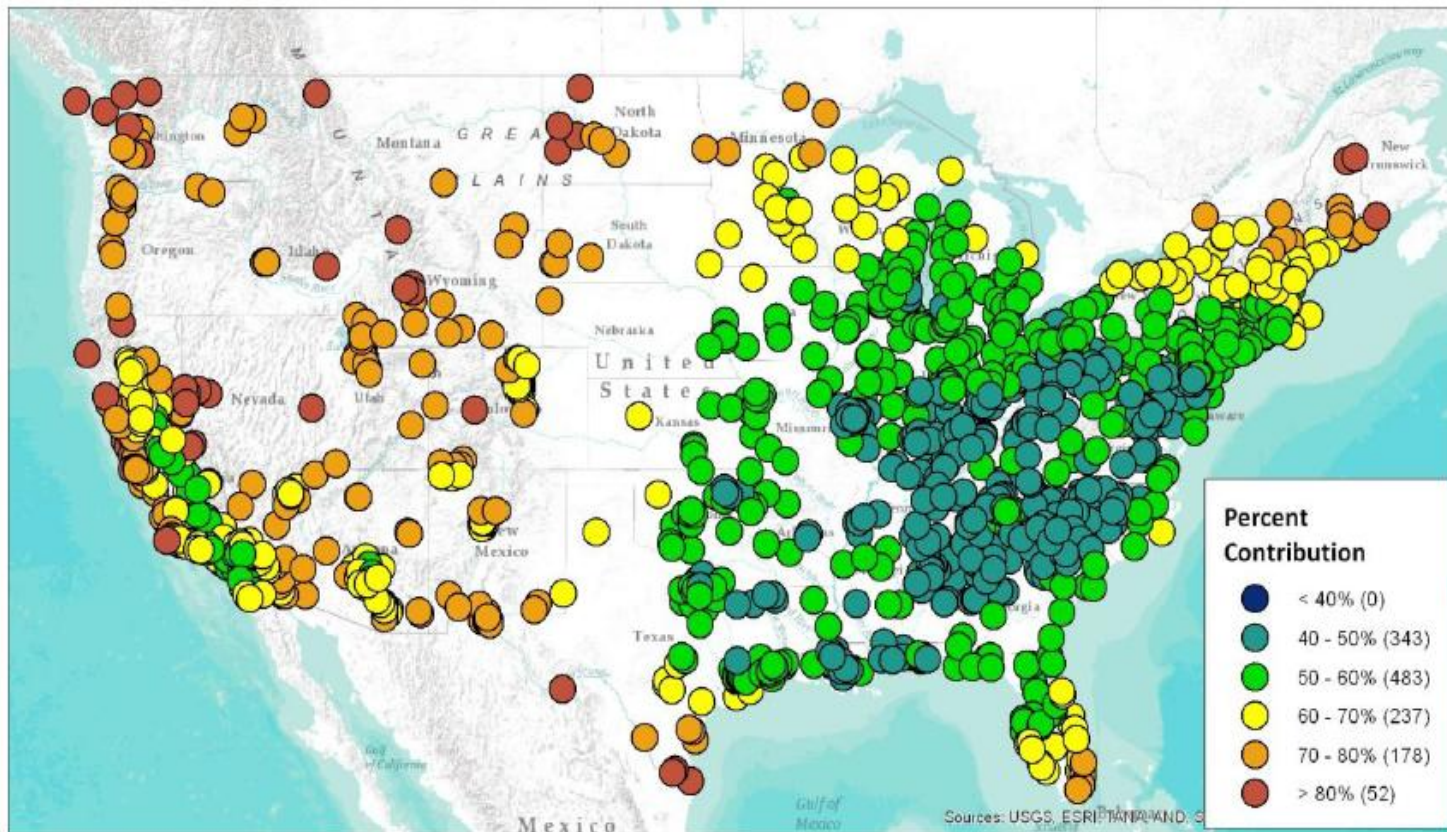
# CASAC Ozone Panel Discussion

- General group consensus that current standards are not adequately protective of health and welfare
- General consensus on clear adverse health impacts at 70 ppb, no consensus below this level as uncertainties increase
- Likely recommendation to set health standard at “something less than” 70 ppb (60 to 69 ppb) to provide margin of safety
- General consensus on secondary standard based on the W126 (seasonal) approach in a range of 15-7 ppb
- Support for revised form – annual vs. 3-year average

# Potential Standard Attainment Analysis



# Natural Background Estimates



**Figure 2-12. Map of apportionment-based U.S. background percent contribution to seasonal mean O<sub>3</sub> based on 2007 CAMx source apportionment modeling.**



# Secondary Standard – W126

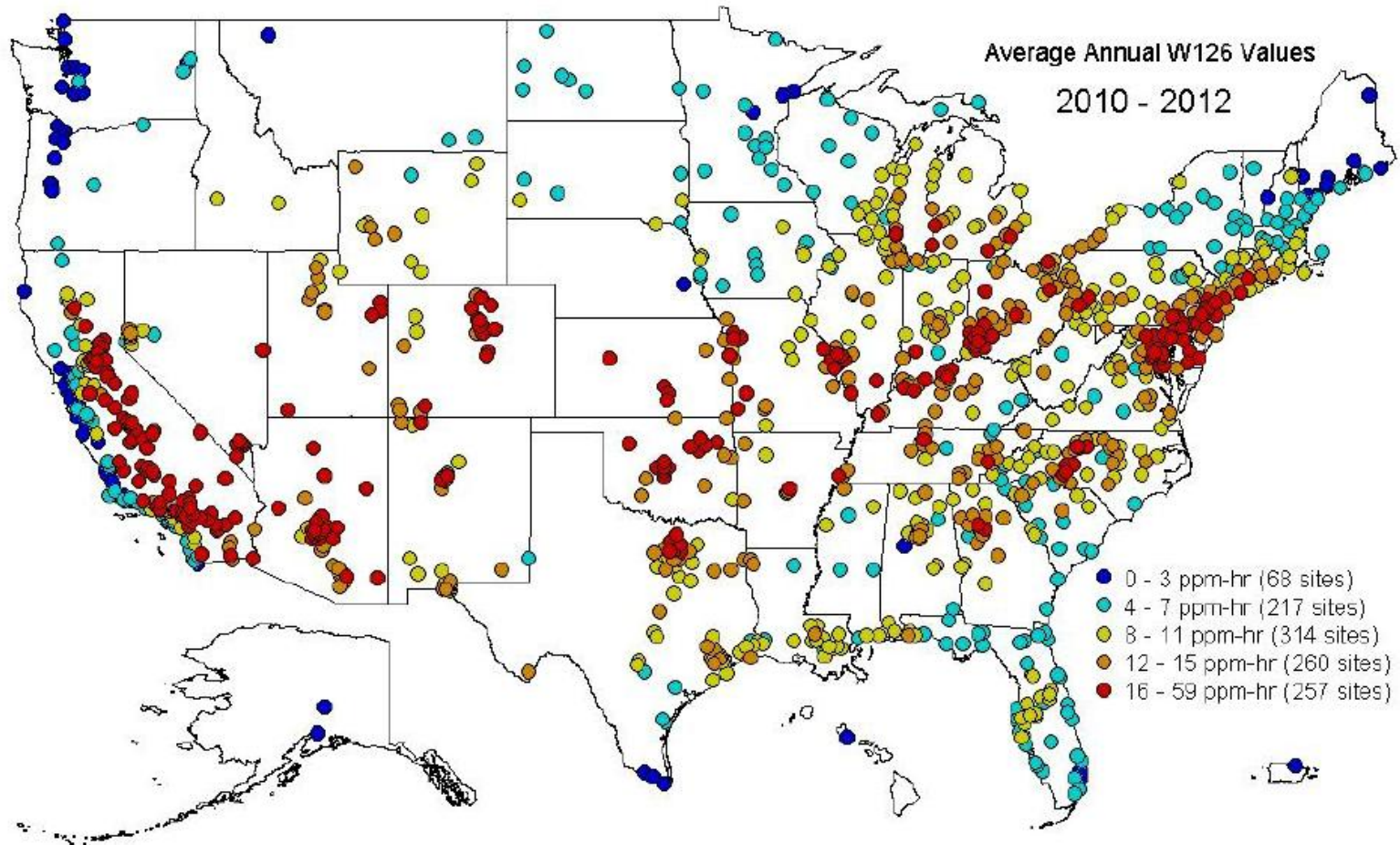


Figure 2-7. Map of 2010-2012 average annual W126 values in ppm-hrs.

# Ozone NAAQS Review Schedule



## Schedule of NAAQS Review

Stage of Review	Completion Dates
Integrated Review Plan – Final	April 2011
Integrated Science Assessment – 2 <sup>nd</sup> Draft	September 2011
Risk/Exposure Assessments – 1 <sup>st</sup> Draft	July 2012
Policy Assessment – 1 <sup>st</sup> Draft	July 2012
Integrated Science Assessment - Final	February 2013
Risk/Exposure Assessments – 2 <sup>nd</sup> Draft	February 2014
Policy Assessment – 2 <sup>nd</sup> Draft	February 2014
Final Risk/Exposure and Policy Assessments	Summer 2014
Proposed Rulemaking	January 15, 2015*
Final Rulemaking	November 15, 2015*

\* Final dates are subject to a deadline suit. A court hearing is currently scheduled for April 1, 2014.