

Clean Air Scientific Advisory Committee Meeting Highlights

Review of the O₃ NAAQS: Second Draft Health Risk and Exposure Assessment (REA)

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

Review of the O₃ NAAQS: Second Draft Policy Assessment

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

Review of the O₃ 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 4th high form
 - Consider revising the level to within the range of 70 to 60 ppb

EPA Conclusions and Recommendations₍₂₎

- 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 below 17 ppm-hr
- Support for revised form – annual vs. 3-year average

Recent Ozone Panel Developments

- Draft CASAC recommendation letter to EPA:
 - No decision yet on upper bound of primary standard
 - Secondary standard – W126 value within a range of 7 to 13 ppm-hr on an annual basis
- Two issues of concern raised:
 - High background levels of ozone (especially in the Western US)
 - International transport of ozone
- Public panel conference call on 5/28/14

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Potential Standard Attainment Analysis



Natural Background Estimates

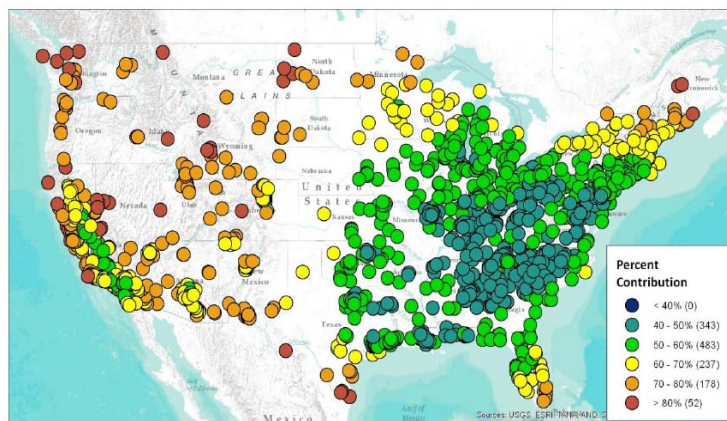


Figure 2-12. Map of apportionment-based U.S. background percent contribution to seasonal mean O_3 based on 2007 CAMx source apportionment modeling.

Secondary Standard –W126

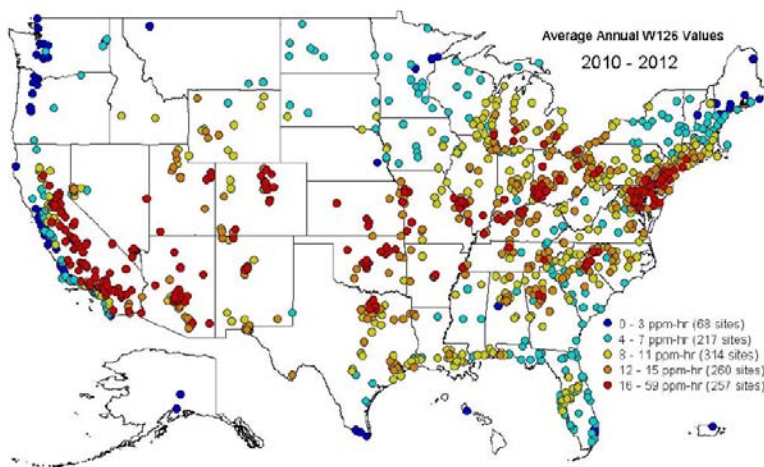


Figure 2-7. Map of 2010-2012 average annual W126 values in ppm-hrs.

Ozone NAAQS Review Schedule



Schedule of NAAQS Review

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

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