



## *Planning for the 2008/2010 Ozone Air Quality Standards*

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## *Proposed O<sub>3</sub> Standards*

- In January 2010 EPA proposed different primary and secondary standards than those set in 2008 (75 FR 2938)
  - 8-Hour Primary Standard: within the range of 0.060 to 0.070 parts per million (ppm)
  - Cumulative Seasonal Secondary Standard: within the range of 7 to 15 ppm-hours



## *Planning for New O<sub>3</sub> Standards*

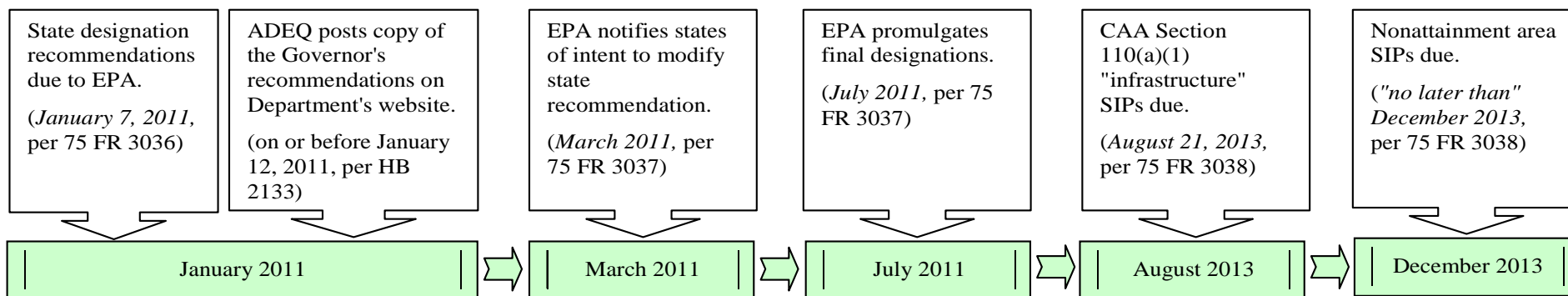
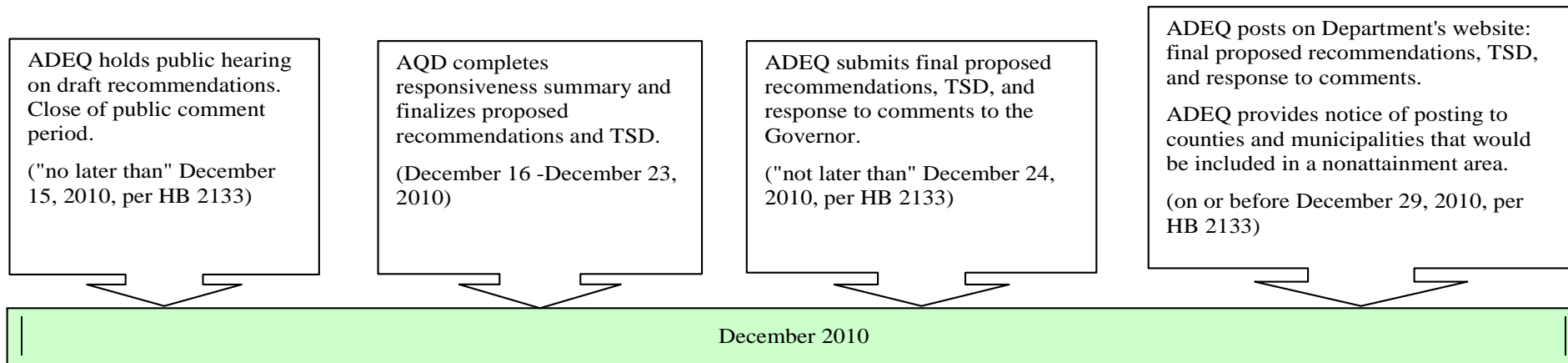
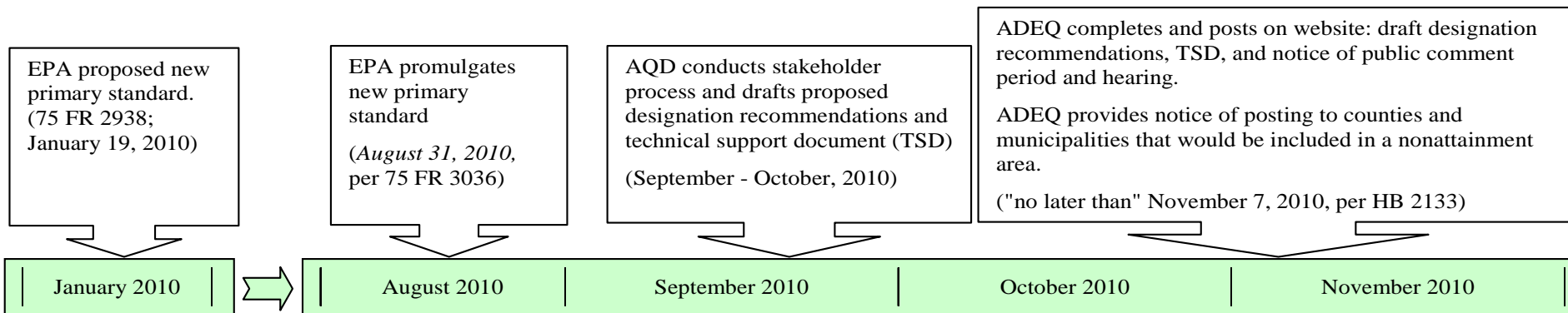
- Boundary  
Recommendations/Designations
- CAA Section 110(a)(2) "infrastructure"  
State Implementation Plans (SIP)
- Nonattainment area SIPs



## *Boundary Recommendations*

- EPA requires States submit designation recommendations for nonattainment, attainment, and unclassifiable areas by the following proposed deadlines:
  - For the Primary Standard by January 7, 2011
  - For the Secondary Standard by January 7, 2011, or August 31, 2011
- EPA will announce the final NAAQS and regulatory timeline on August 31, 2010

**2010 PRIMARY OZONE (O<sub>3</sub>) NAAQS  
Draft ADEQ Timeline (May 4, 2010)**





## *Boundary Recommendations*

- Under CAA 107 States must recommend areas as:
  - Nonattainment – areas that are violating the new NAAQS and nearby contributing areas
  - Attainment – areas that meet the NAAQS
  - Unclassifiable – areas with insufficient information
- For areas with a violating monitor the Core-Based Statistical Area (CBSA) or county boundary is the “Starting Point” for the nonattainment area boundary



# Arizona CBSA's

- LEGEND**
- Metropolitan Statistical Area
  - Micropolitan Statistical Area
  - International
  - State
  - County

CBSA boundaries and names are as of November 2004. All other boundaries and names are as of January 1, 2002.



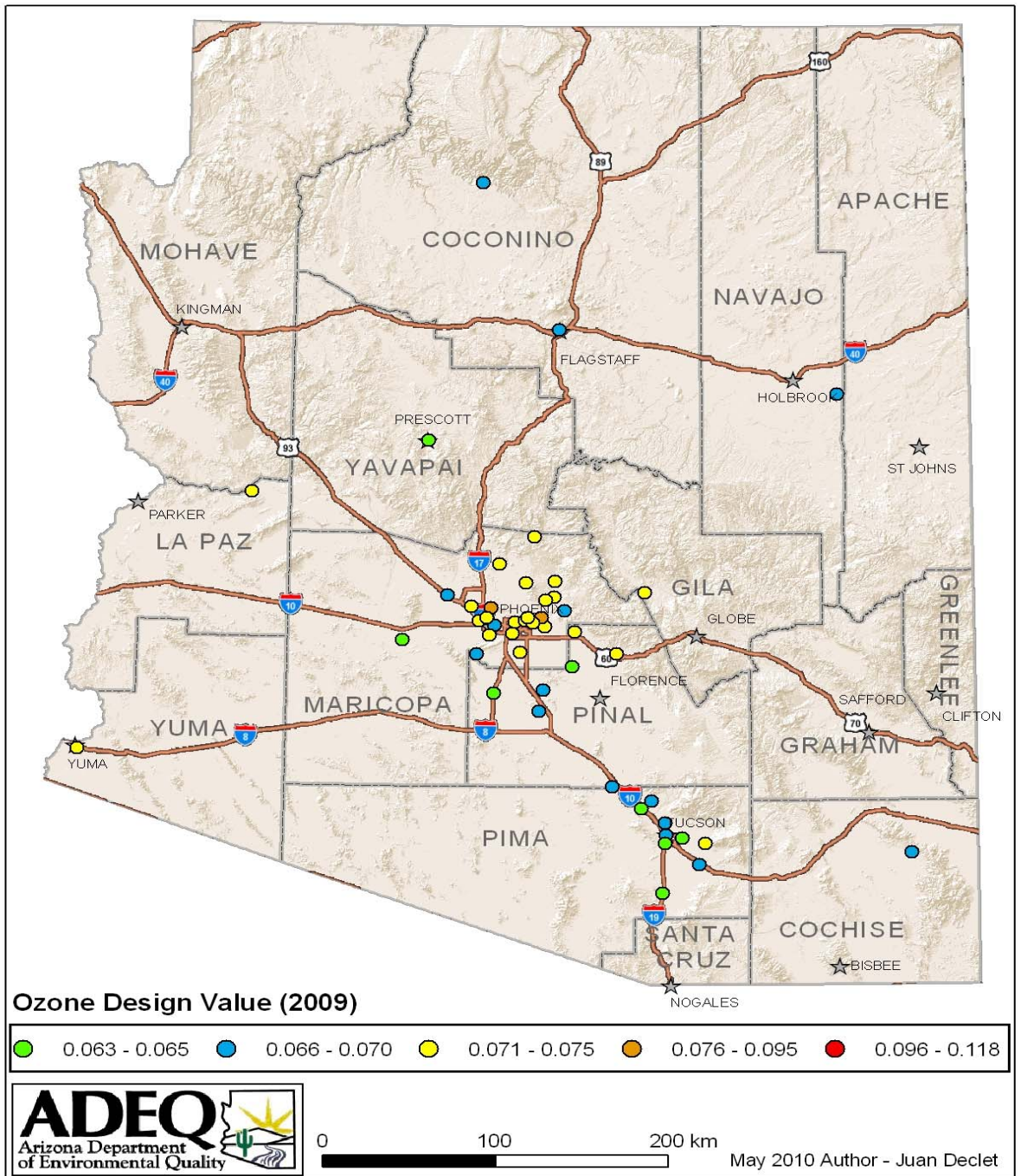
Source: U.S. Department of Commerce Economics and Statistics Administration, U.S. Census Bureau



## *Boundary Recommendations*

- States may recommend different nonattainment area boundaries based on the evaluation of 9 Factors found in EPA guidance:
  - Air quality data
  - Emission sources, locations & contribution to O<sub>3</sub>
  - Population density and degree of urbanization
  - Traffic and commuting patterns
  - Growth rates and patterns
  - Meteorology (weather/transport patterns)
  - Geography/topography
  - Jurisdictional boundaries
  - Level of control of emission sources

*Primary  
Standard  
Design  
Values  
(ppm)  
2007–2009*





## *Proposed Primary O<sub>3</sub> Standard*

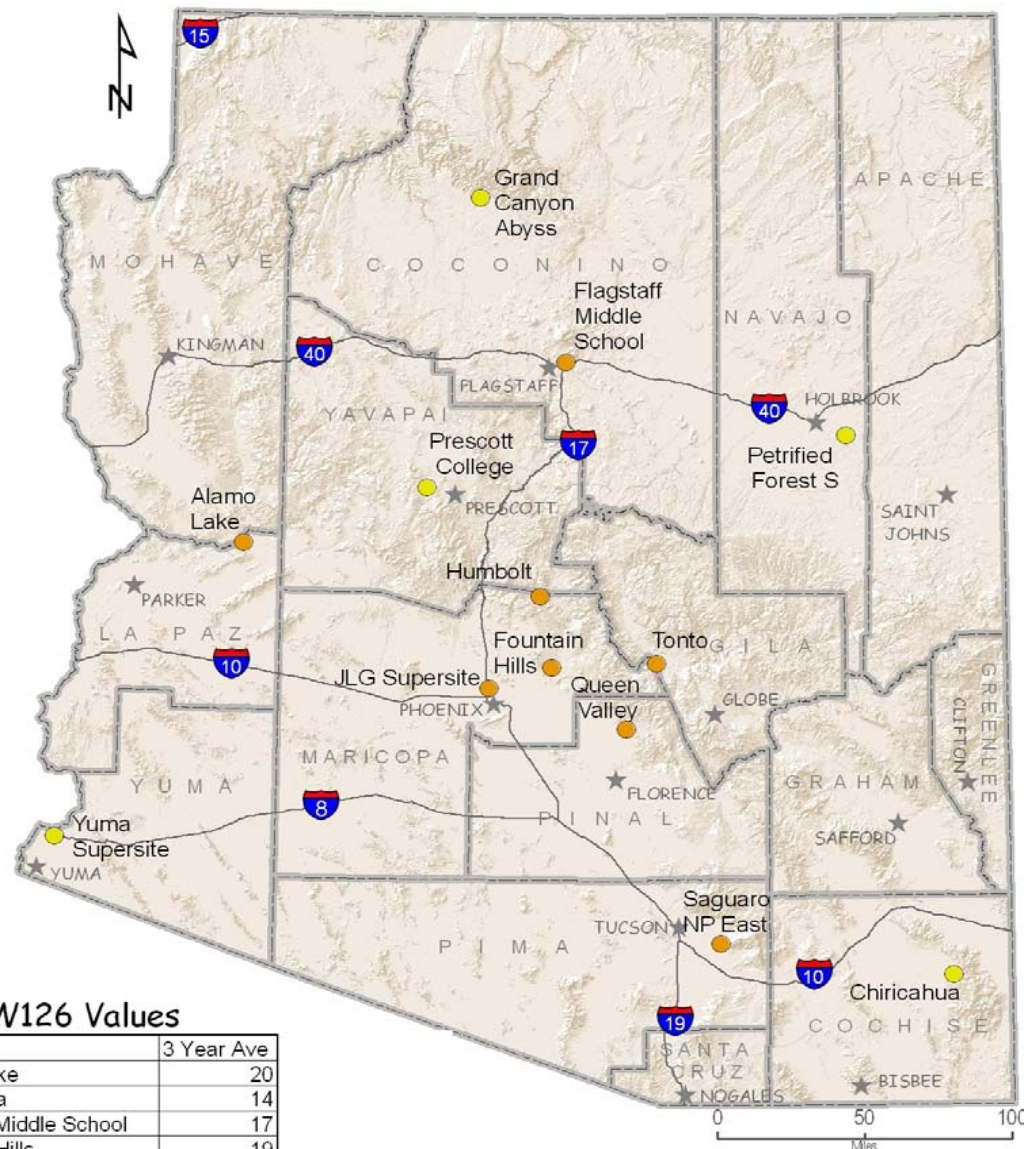
- Selection of the Primary Standard has Significant Impacts
- 2007-2009 Monitored Violations of 0.07 ppm
  - Gila County (0.075 ppm)
  - La Paz County (0.072 ppm)
  - Maricopa County (0.076 ppm)
  - Pima County (0.071 ppm)
  - Pinal County (0.075 ppm)
  - Yuma County (0.072 ppm)



## *Proposed Primary O<sub>3</sub> Standard*

- 2007-2009 Monitored violations of 0.065 ppm
  - Cochise County (0.066 ppm)
  - Coconino County (0.070 ppm)
  - Navajo County (0.067 ppm)
  - Yavapai County? (0.065 ppm)
- 9 or 10 of 15 Counties with monitored violations of potential ozone standards
- Counties that don't violate don't have monitors
  - Apache (East/Northeast AZ)
  - Graham (Southeast AZ)
  - Greenlee (Southeast AZ)
  - Mohave (Northwest AZ)
  - Santa Cruz (South-central AZ)

# Proposed Secondary Standard Design Values (ppm-hrs) 2007 - 2009



W126 Values

SITE	3 Year Ave
Alamo Lake	20
Chiricahua	14
Flagstaff Middle School	17
Fountain Hills	19
Grand Canyon Abyss	15
Humbolt	17
JLG Supersite	16
Petrified Forest	14
Prescott College	11
Queen Valley	21
Saguaro NP East	16
Tonto	20
Yuma Supersite	13

- 0.00 - 7.00 ppm-hours
- 7.01 - 15.00 ppm-hours
- 15.01 - 21.00 ppm-hours



## *Proposed Secondary O<sub>3</sub> Standard*

- 6 of 15 Counties violate proposed 15 ppm-hrs
- 2007-2009 Monitored Violations (ppm-hrs)
  - Coconino County (17)
  - Gila County (20)
  - La Paz County (20)
  - Maricopa County (19)
  - Pima County (16)
  - Pinal County (21)



## *Comments on Proposed Standards*

- On March 26, 2010, the Western States Air Resources Council (WESTAR) submitted comments on EPA's reconsideration of the ozone NAAQS including:
  - Accelerated time frame for designation recommendations (129 days vs. 1 year) is problematic because of –
    - The lack of time to evaluate new nonattainment areas
    - The lack of monitoring data that makes it difficult to determine the status of large rural areas or appropriate boundaries for these areas
    - Complex jurisdictional issues (e.g. there are three different EPA regions, four states, and multiple tribes in the Four Corners area)
  - Accelerated time frame for SIPs causes concern because of –
    - The resource and coordination needs for addressing the regional nature of ozone under the more stringent standards
    - Regional transport and regional background levels that must be more fully understood before much of the West can plan for attainment of an ozone standard in the range of 60 to 70 ppb
  - For most States this will not be a simple expansion of the 2008 work



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