



Southern Ute Indian Tribe's Air Quality Program

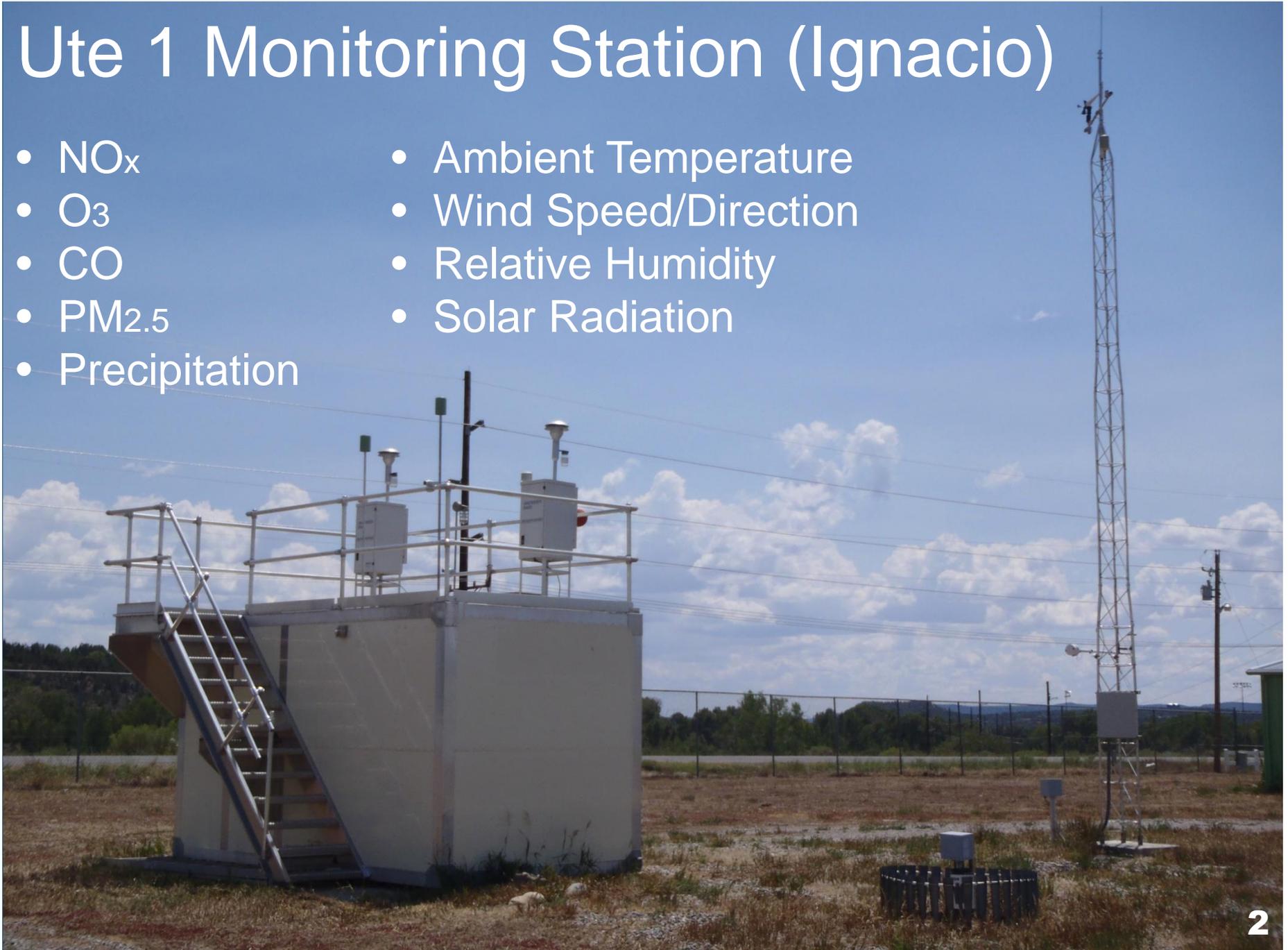


2012 AIR MONITORING DATA RESULTS
SUIT/STATE OF COLORADO ENVIRONMENTAL COMMISSION
JANUARY 09, 2013

PRESENTED BY YOLANDA WILLIAMS
AIR QUALITY TECHNICIAN

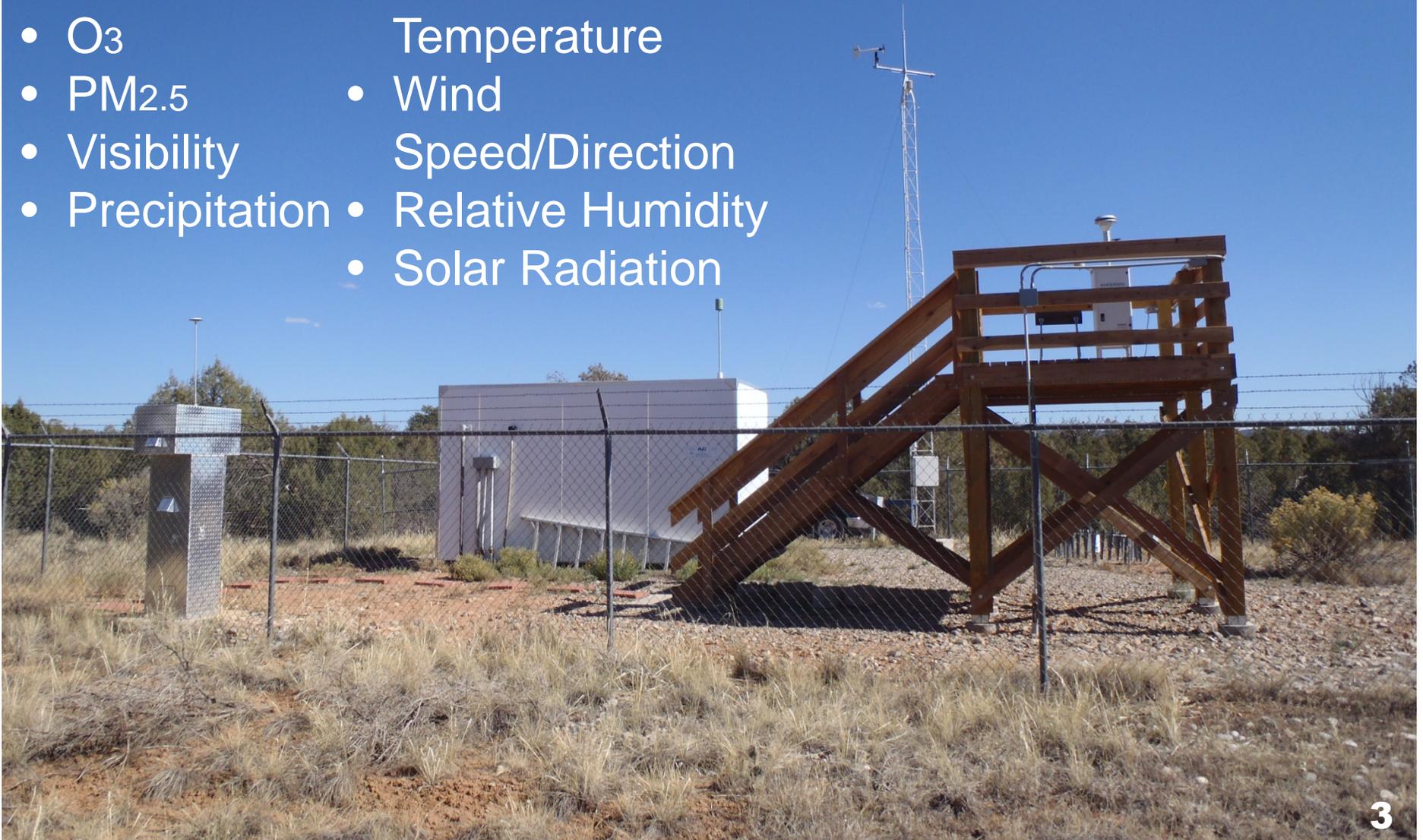
Ute 1 Monitoring Station (Ignacio)

- NO_x
- O₃
- CO
- PM_{2.5}
- Precipitation
- Ambient Temperature
- Wind Speed/Direction
- Relative Humidity
- Solar Radiation

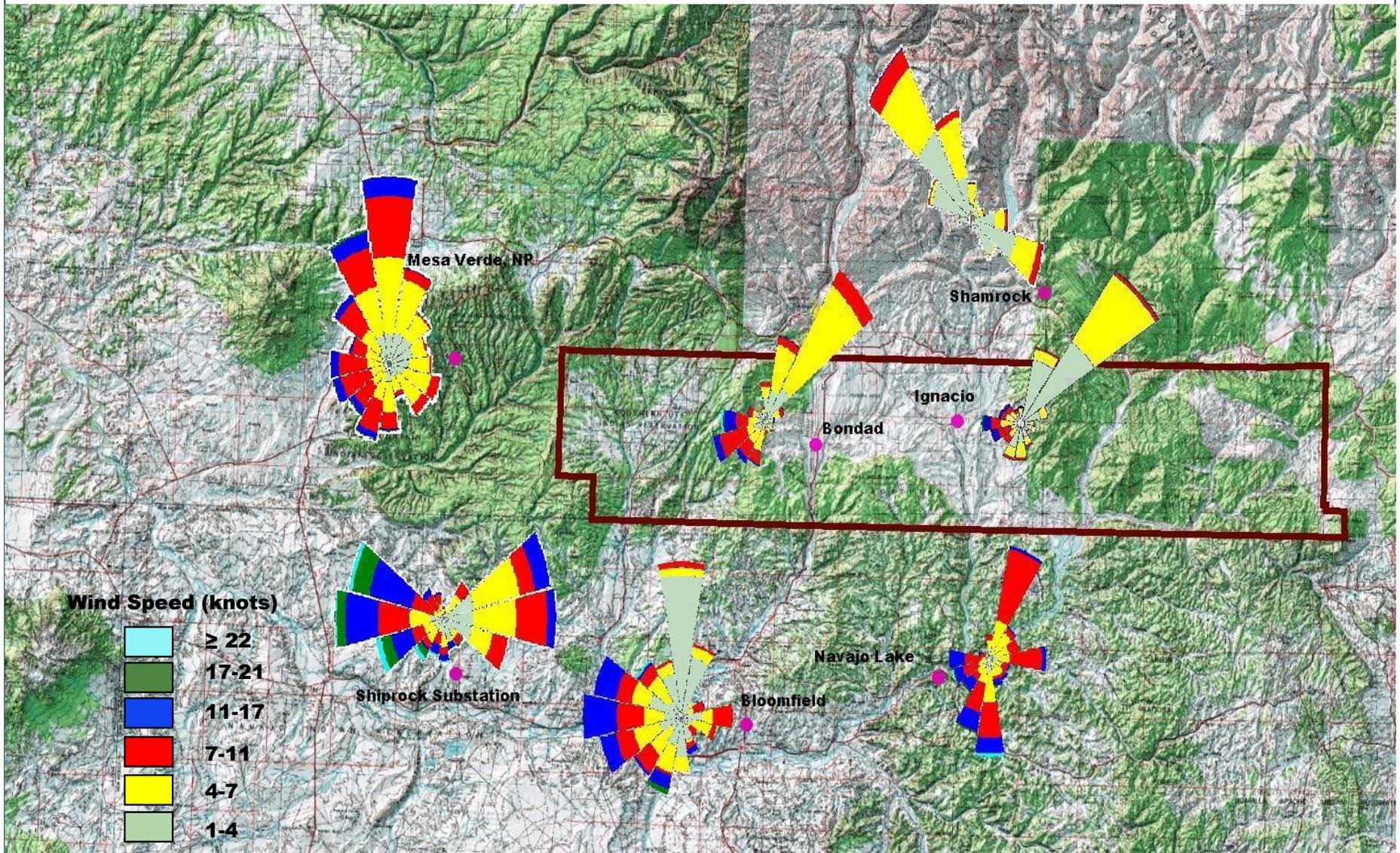


Ute 3 Monitoring Station (Bondad)

- NO_x
- O₃
- PM_{2.5}
- Visibility
- Precipitation
- Ambient Temperature
- Wind Speed/Direction
- Relative Humidity
- Solar Radiation



Four Corners Air Monitoring Stations



Ozone NAAQS Timeline



March 09, 2009

- SUIT submitted an O₃ area designation letter & Technical Support Document to EPA for the 2008 revised O₃ NAAQS

January 06, 2010

- EPA proposed to strengthen the O₃ NAAQS (within range of 60 to 70 ppb)

July 26, 2011

- EPA took back the January 2010 proposed O₃ NAAQS
- EPA will continue a 5-year review of updated science & schedule to be completed in 2013

September 22, 2011

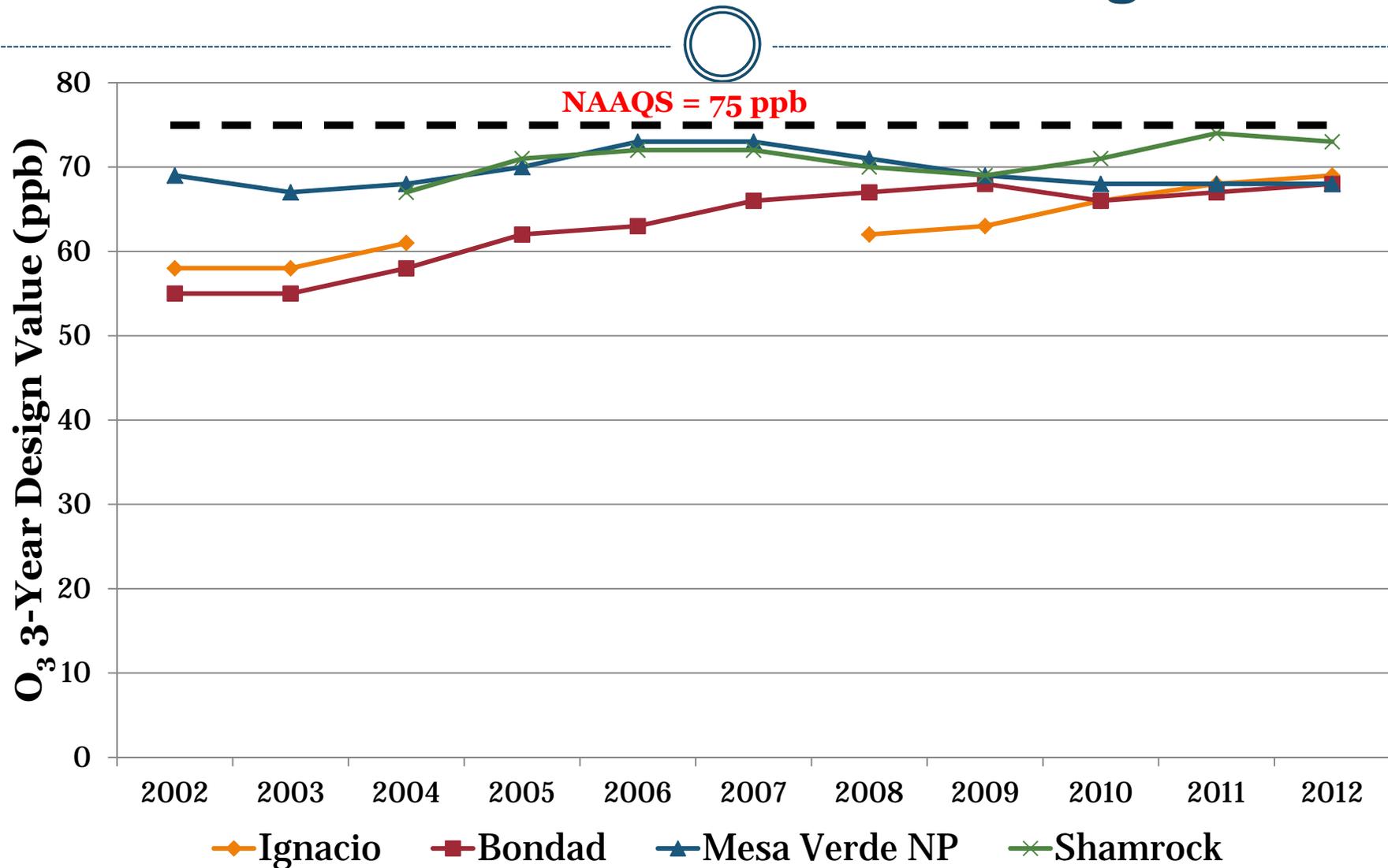
- EPA is proceeding with the 2008 O₃ NAAQS (75 ppb)

April 30, 2012

- EPA designated SUIT Reservation “**unclassifiable/attainment**” separate from the surrounding state area for the 2008 O₃ NAAQS (75 ppb)

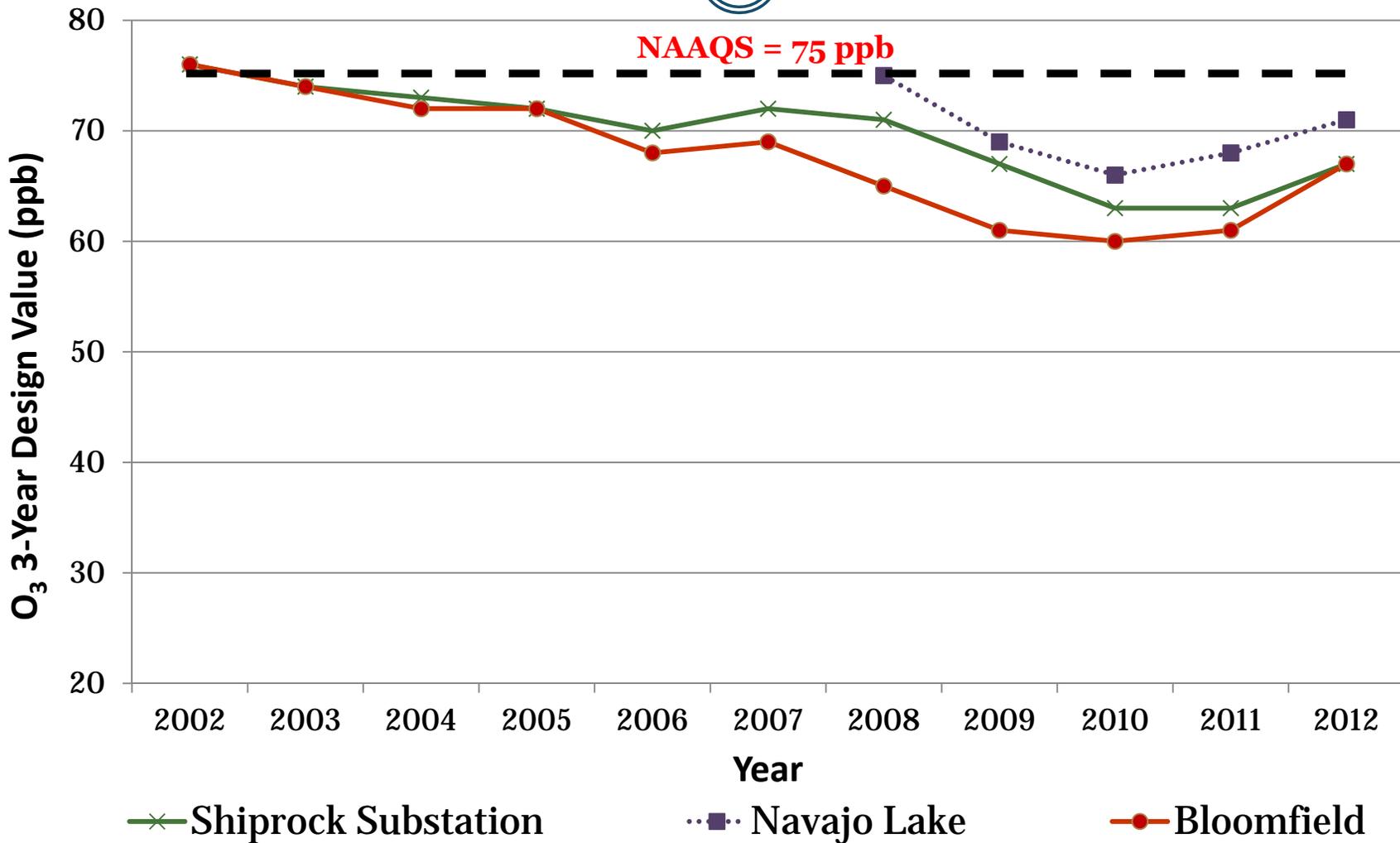
❖ <http://www.epa.gov/ozonedesignations/2008standards/rec/tribalR.htm>

Southwest Colorado Air Monitoring Stations



*Data set included in this graph are complete 3-yr avg. of annual 4th highest 8-hr ozone conc. \geq 75%

Northwest New Mexico Air Monitoring Stations



*2010 Navajo Lake Data Completeness = 74%

Nitrogen Dioxide (NO₂) NAAQS



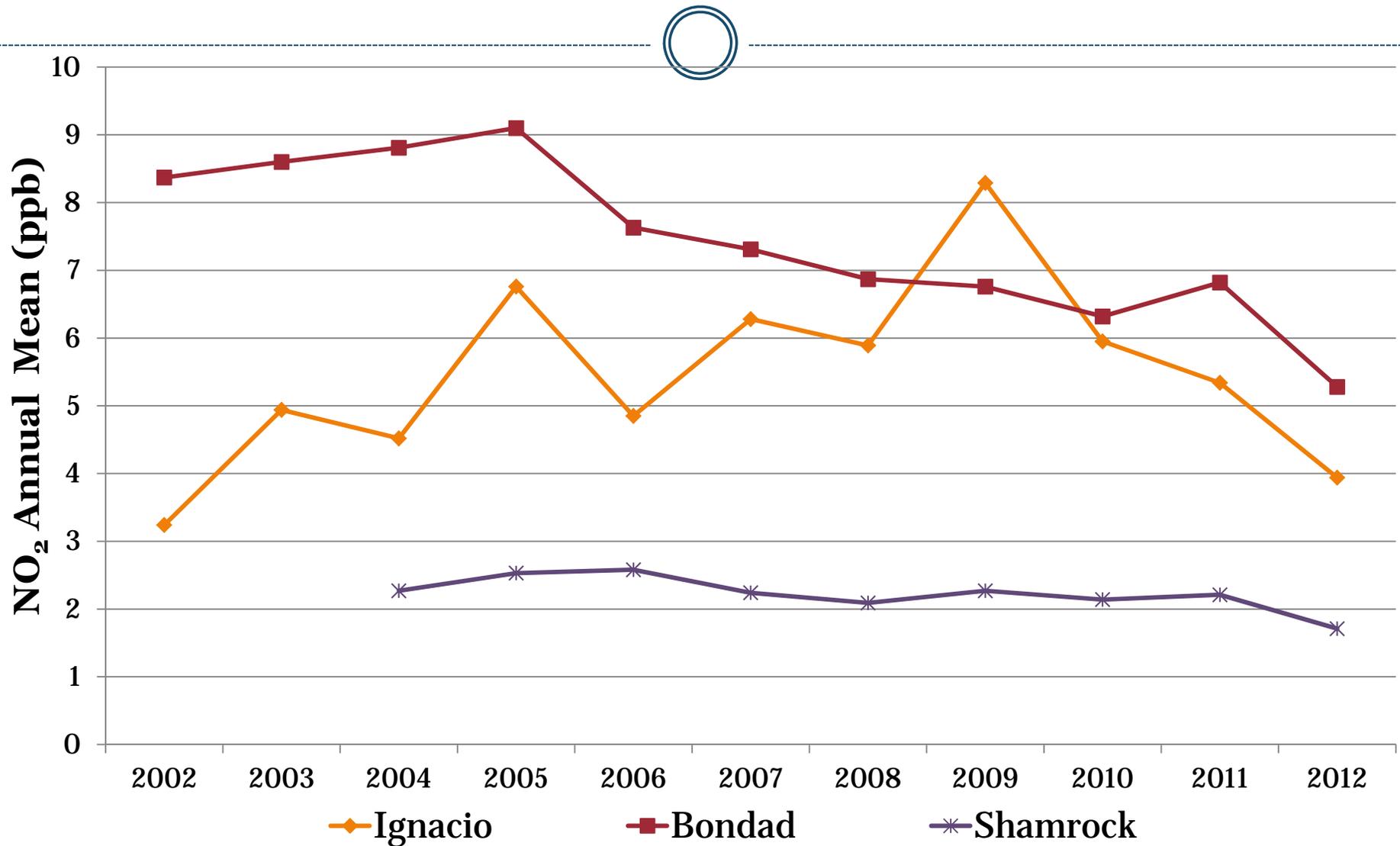
Primary Standard

- 1-hour standard = 100 ppb (98th percentile, averaged over 3 years)

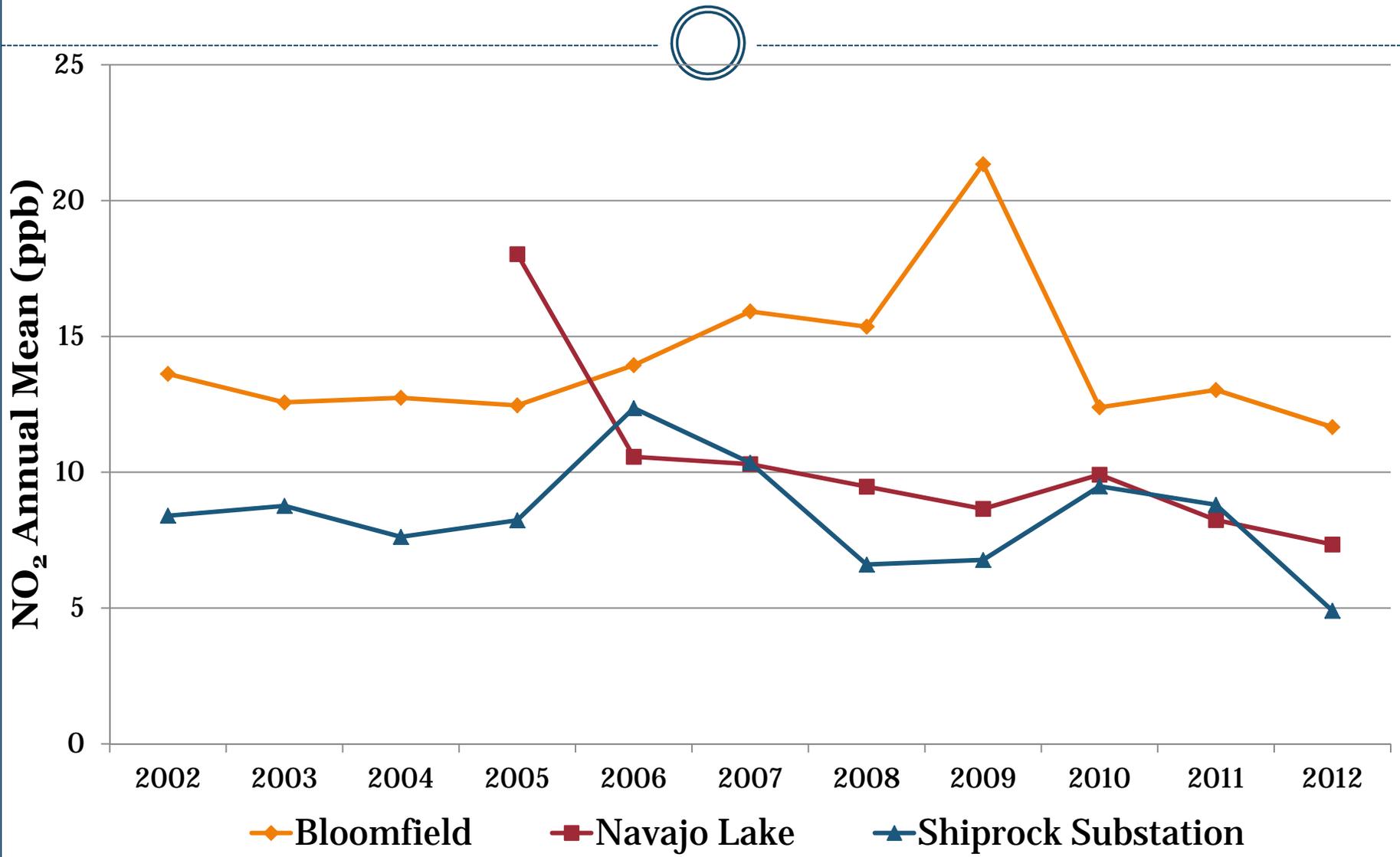
Primary/Secondary Standard

- Annual standard = 53 ppb (annual mean)

Southwest Colorado Air Monitoring Stations



Northwest New Mexico Air Monitoring Stations



Carbon Monoxide (CO) NAAQS



Primary Standard

- 8-hour standard = 9 ppm (Not to be exceeded more than once per year)
- 1-hour standard = 35 ppm (Not to be exceeded more than once per year)

Ute 1 Carbon Monoxide 8-hour NAAQS (9 ppm)



PM2.5 NAAQS



Primary

- Annual standard = $12 \mu\text{g}/\text{m}^3$ (annual mean averaged over 3 years)
- EPA finalized new annual standard on December 14, 2012
 - ❖ <http://www.epa.gov/airquality/particlepollution/actions.html#dec12>

Secondary

- Annual standard = $15 \mu\text{g}/\text{m}^3$ (annual mean averaged over 3 years)

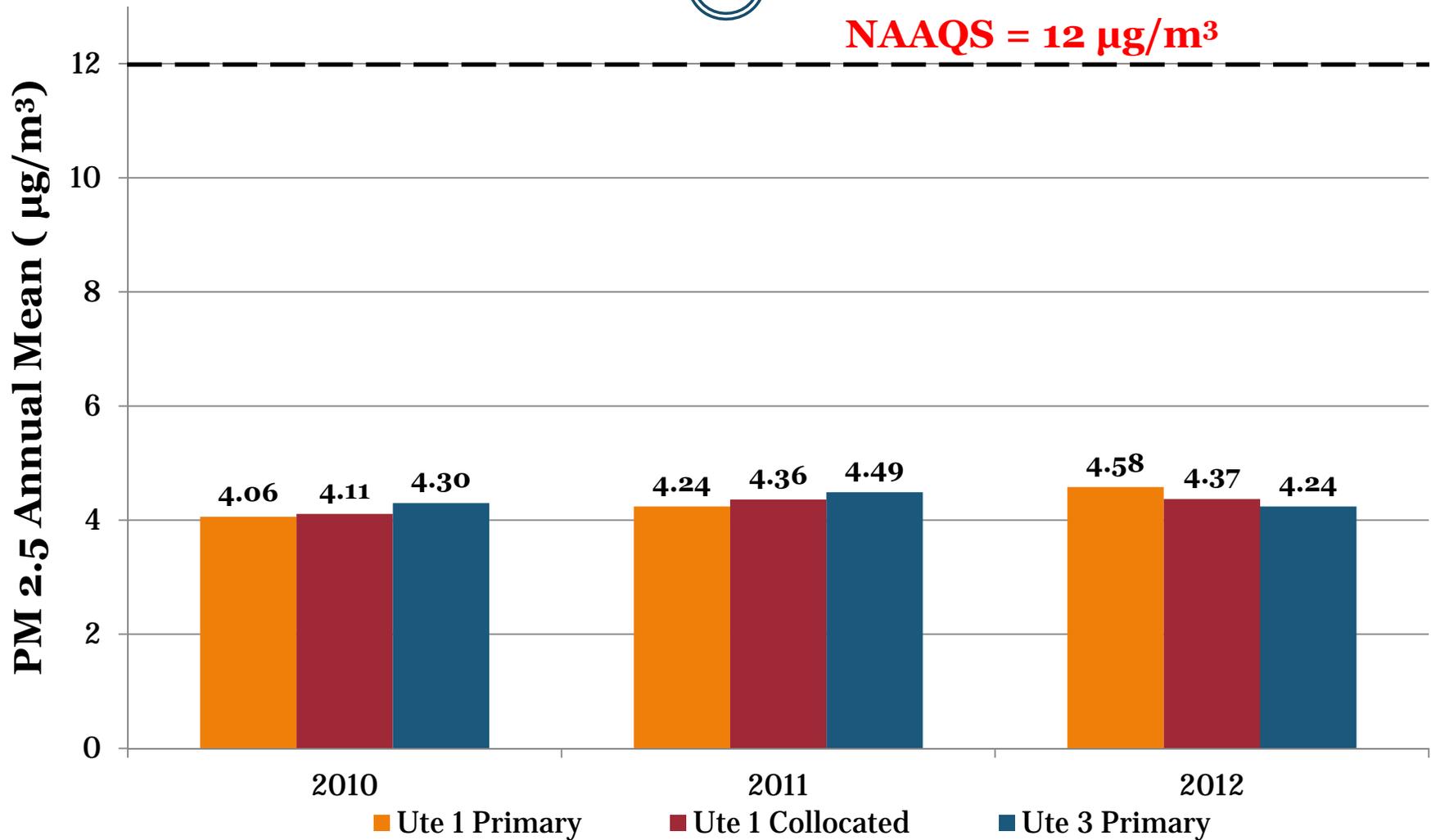
Primary & Secondary

- 24-hour standard = $35 \mu\text{g}/\text{m}^3$ (averaged over 3 years)

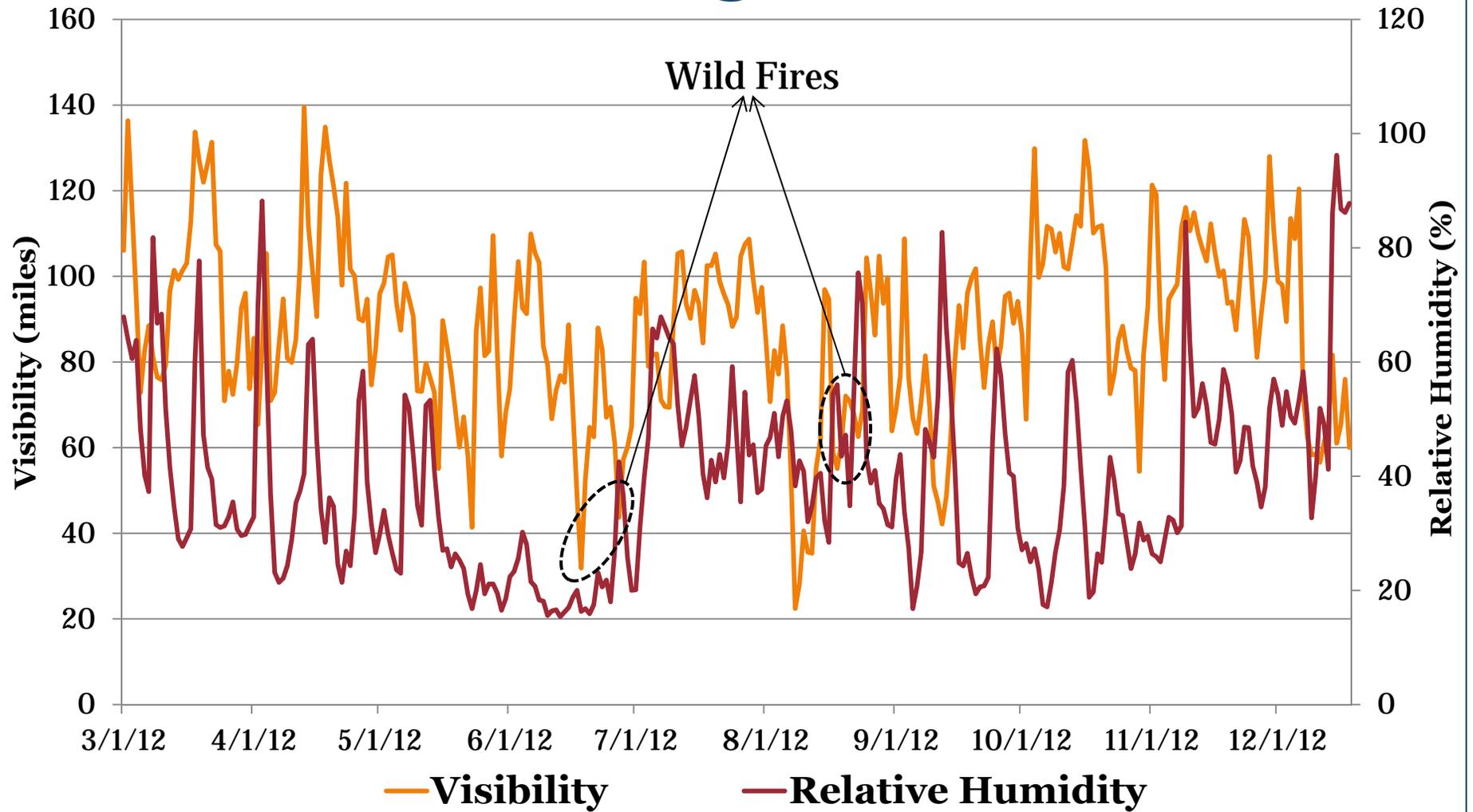
PM 2.5 Annual Mean



NAAQS = 12 $\mu\text{g}/\text{m}^3$



Ute 3 Visibility



Thank You



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