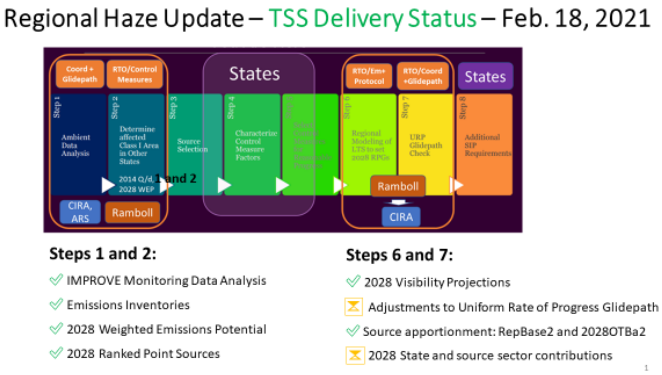
**Detailed list of items reviewed on Results meeting of February 18, 2021**

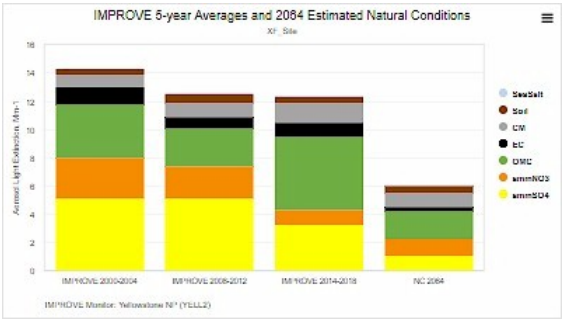
TSS Orientation (https://views.cira.colostate.edu/tssv2/)

a. Regional Haze Planning Guidance flow chart

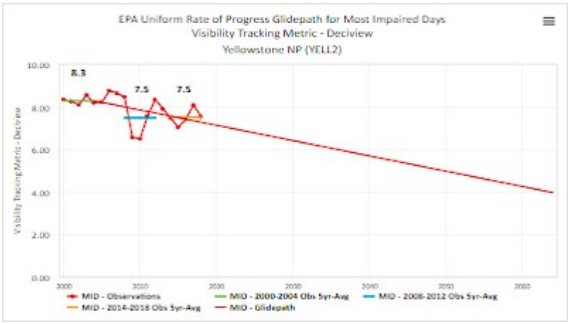



b. Ambient Data Express Tools

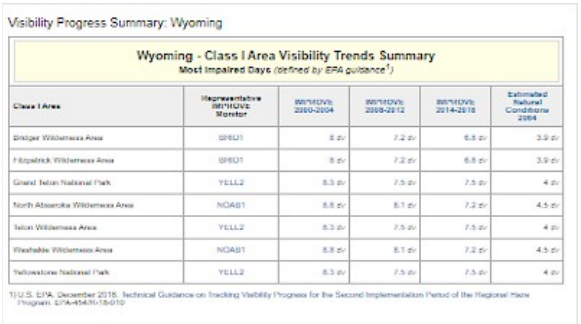
- Chart 1




- Chart 4




- Table 1 - deciview



- Table 1 – extinction

Visibility Progress Summary: Kings Canyon NP, Sequoia NP

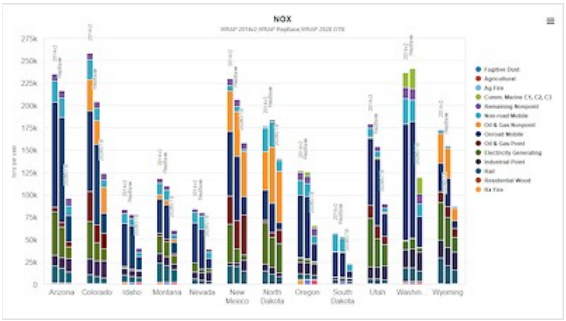
**Kings Canyon NP, Sequoia NP**
**Visibility Trends Summary**
Most Impaired Days *(defined by EPA guidance[1])*

| Parameter | IMPROVE 2000-2004 | IMPROVE 2009-2012 | IMPROVE 2014-2018 | Estimated Natural Conditions 2064 |
|---|---|---|---|---|
| Deciview, dv | 25.2 | 20 | 18.4 | 6.3 |
| Total Aerosol Light Extinction ($Mm^{-1}$) | 115.5 | 82.2 | 67.5 | 19.3 |
| Ammonium Sulfate ($Mm^{-1}$) | 12.3 | 13.5 | 12.7 | 0.8 |
| Ammonium Nitrate ($Mm^{-1}$) | 69.2 | 37.1 | 20.9 | 2.3 |
| Organic Mass from Carbon ($Mm^{-1}$) | 13.8 | 11.7 | 13.8 | 2.7 |
| Elemental Carbon ($Mm^{-1}$) | 4.9 | 3.3 | 2.8 | 0.4 |
| Coarse Mass ($Mm^{-1}$) | 3.5 | 4.4 | 5.4 | 1.5 |
| Fine Soil ($Mm^{-1}$) | 0.4 | 0.7 | 0.7 | 0.4 |
| Sea Salt ($Mm^{-1}$) | 0.2 | 0.4 | 0.4 | 0.3 |
| Rayleigh ($Mm^{-1}$) | 11 | 11 | 11 | 11 |

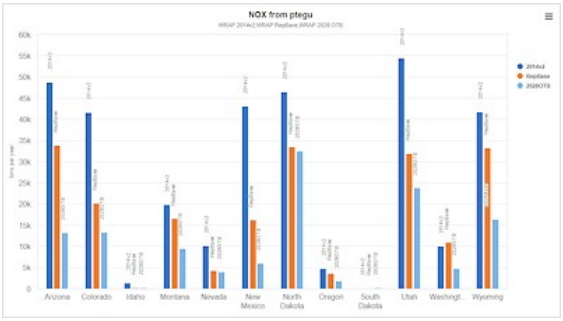
1) U.S. EPA, December 2018, Technical Guidance on Tracking Visibility Progress for the Second Implementation Period of the Regional Haze Program. EPA-454/R-18-010

c. [Emissions Express Tools]

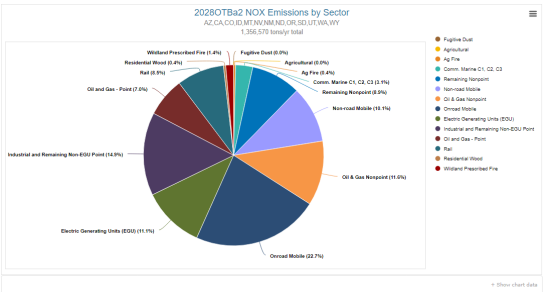
- Chart 1




- Chart 2




- Chart 3



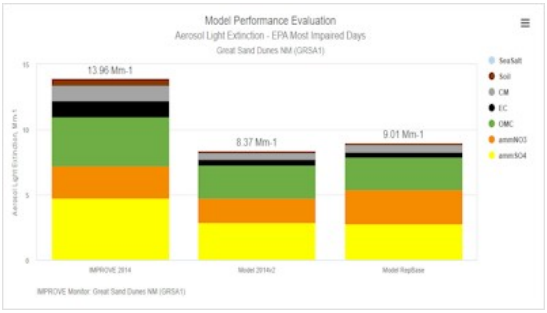

- Table 1

State: **Wyoming**
Pollutant: **Nitrogen Oxides (NOx)**

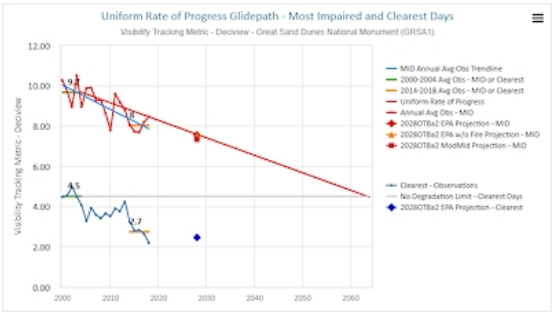
| State Emissions | Source Category | 2014v2 Actual | Representative Baseline | 2028 OTB b[1] | 2028 OTB a[1] |
|---|---|---|---|---|---|
| Anthropogenic | EGU Point | 41,686 | 33,324 | 16,355 | 16,355 |
| Anthropogenic | Oil&Gas Point | 12,073 | 11,857 | 9,691 | 9,691 |
| Anthropogenic | Remaining Non-EGU Point | 20,433 | 20,438 | 20,405 | 20,405 |
| Anthropogenic | Oil&Gas Non-point | 33,102 | 33,166 | 13,677 | 13,677 |
| Anthropogenic | Agriculture | 0 | 0 | 0 | 0 |
| Anthropogenic | Remaining Non-point | 1,023 | 1,024 | 1,025 | 1,025 |
| Anthropogenic | Residential Wood Combustion | 82 | 85 | 90 | 90 |
| Anthropogenic | Fugitive dust | 0 | 0 | 0 | 0 |
| Anthropogenic | On-Road Mobile | 32,017 | 32,017 | 8,923 | 8,923 |
| Anthropogenic | Marine Shipping[1] | 0 | 0 | 0 | 0 |

## Modeling and Projections Express Tools

- Chart 1

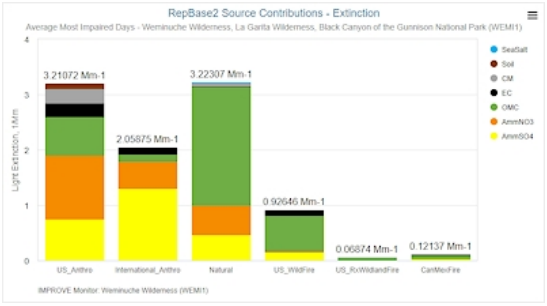



- Chart 4

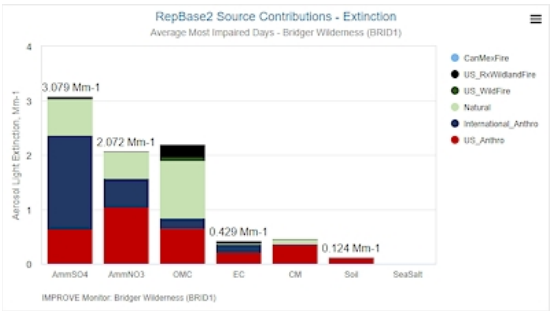



## Source Apportionment to inform 2028 projection results

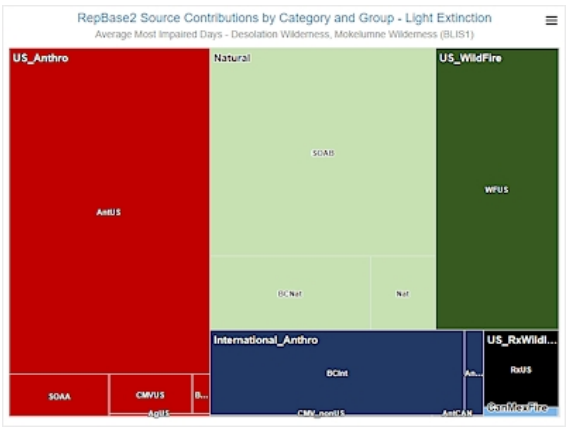
- Chart 8



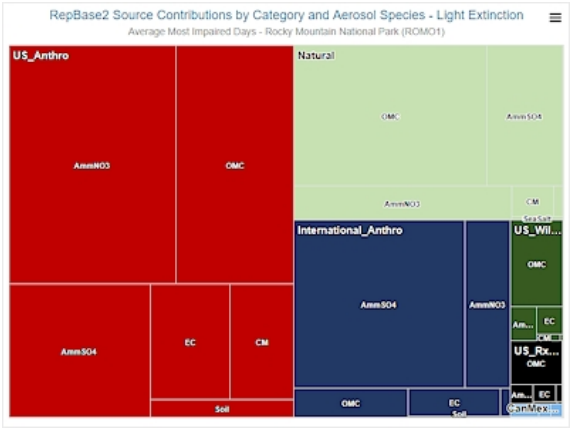

- Chart 9



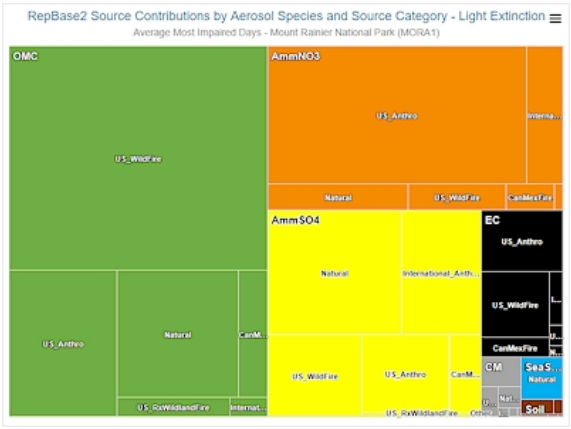
- Chart 12




- Chart 13




- Chart 14



Overview of Modeling Status and Schedule

- Left to complete with TSS delivery/display:

    1. 2002-RepBase2-2028OTBa2 Dynamic Evaluation and Modeling Glidepath of U.S. Anthropogenic reductions

    2. Future Fire Scenarios 1 (wildfire change from climate change) and 2 (implementation of FLM scenario of wildland Rx fire activity)

- Left to complete both modeling and TSS delivery/display:

    1. Low-Level 2028OTBa2 Source Apportionment (state by source sector for WESTAR-WRAP region)

- Left to complete for TSS tools and results – cleanup efforts through April

RTOWG call on March 2nd at 130 pm MST to cover methodology for: a) 3 projections options for selecting a 2028 RPG, b) End-of-Glidepath Adjustment options, and c) Dynamic Modeling Evaluation

Mid-March - Results meeting to review 2028 projections and end-of-glidepath adjustment options on TSS

End of March – Results meeting for TSS displays of Future Fire Scenarios, Dynamic Modeling Evaluation, and Low-Level Source Apportionment