

Wildfire Emission Inventories

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Wildfire Occurrence and Emission Inventories

- 1988 Prescribed Fire Survey – Sandberg, Peterson and Ward
- 1996 Grand Canyon Visibility Transport Commissions and Regional Haze
- 2002 National and Regional Planning Organizations
- National Emission Inventories (02, 05, 08)
- National Wildland Fire Cohesive Strategy
- 2011 Prescribed Fire Survey – Coalition of Prescribed Fire Coalitions and NASF



Representing Wildland and Agricultural Burning

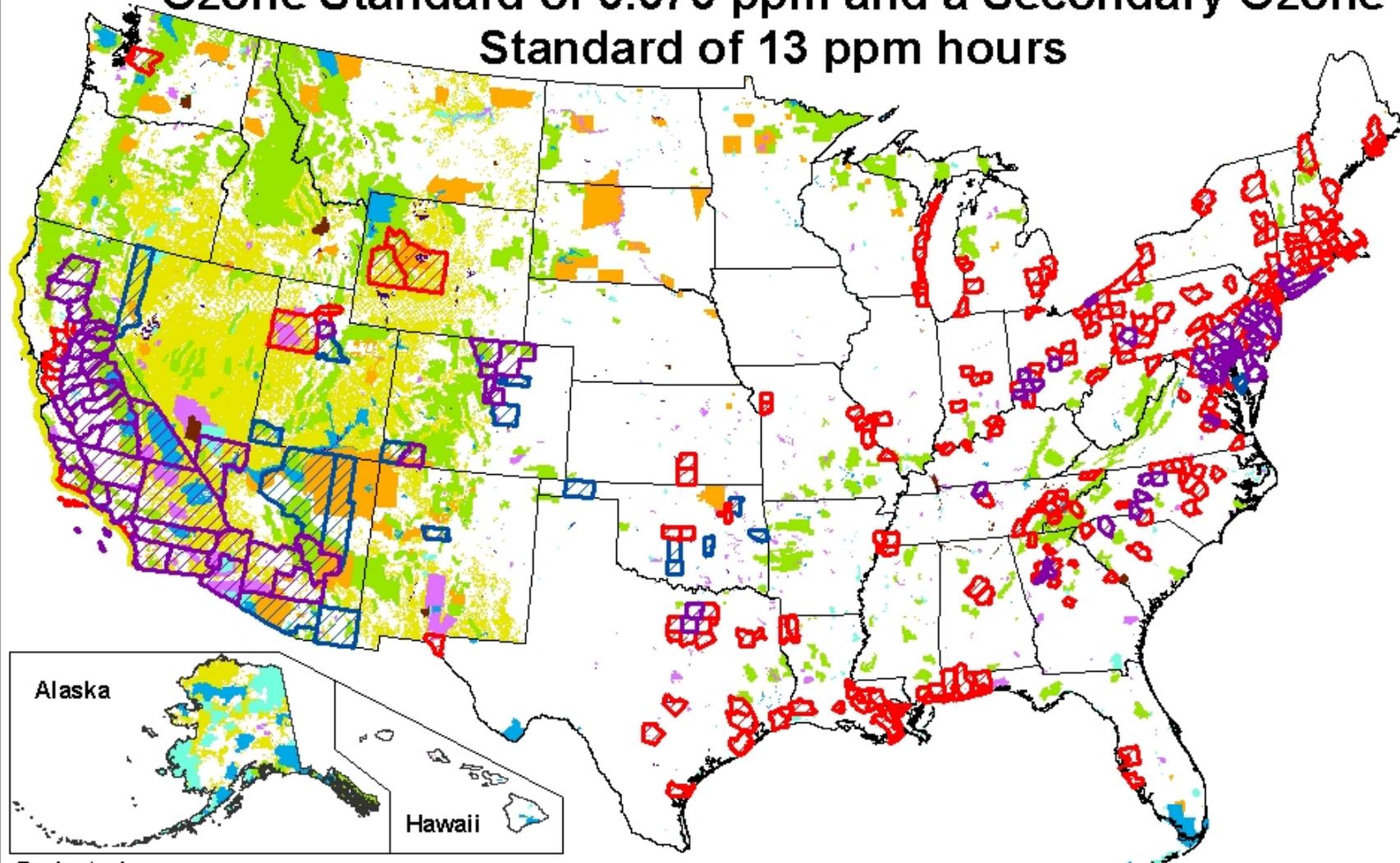
- **Wildland Fire Activity and Emission Inventories:**
 - **EPA National Standards Modeling Inventories**
 - **EPA National Air Toxics Assessment (02, 05)**
 - **EPA Greenhouse Gas Emission Inventory (2000-11)**
 - **EPA Black Carbon Report to Congress (12)**
 - **Executive Order GHG Reporting by Federal Govt.**
 - **USGS Energy Exec. Order EI**
 - **RPO Efforts for SIP support**
 - **Daily Activity Efforts for Bluesky and other AQ forecast tools**



National Ambient Air Quality Standards (NAAQS)

- Ozone Standard Revised 3/2008
 - New 8-hr Standard = 0.075 ppm
- PM_{2.5} Standard Proposed – out for comment
 - 24-hr Standard = **35 $\mu\text{g}/\text{m}^3$**
 - Annual Standard = **12-13 $\mu\text{g}/\text{m}^3$** (now 15 $\mu\text{g}/\text{m}^3$)
 - Secondary Standard = **28-30 Deciview**

Projected Nonattainment (NA) Counties based on a Primary Ozone Standard of 0.070 ppm and a Secondary Ozone Standard of 13 ppm hours



Projected NAA Counties

- Primary
- Secondary
- Both

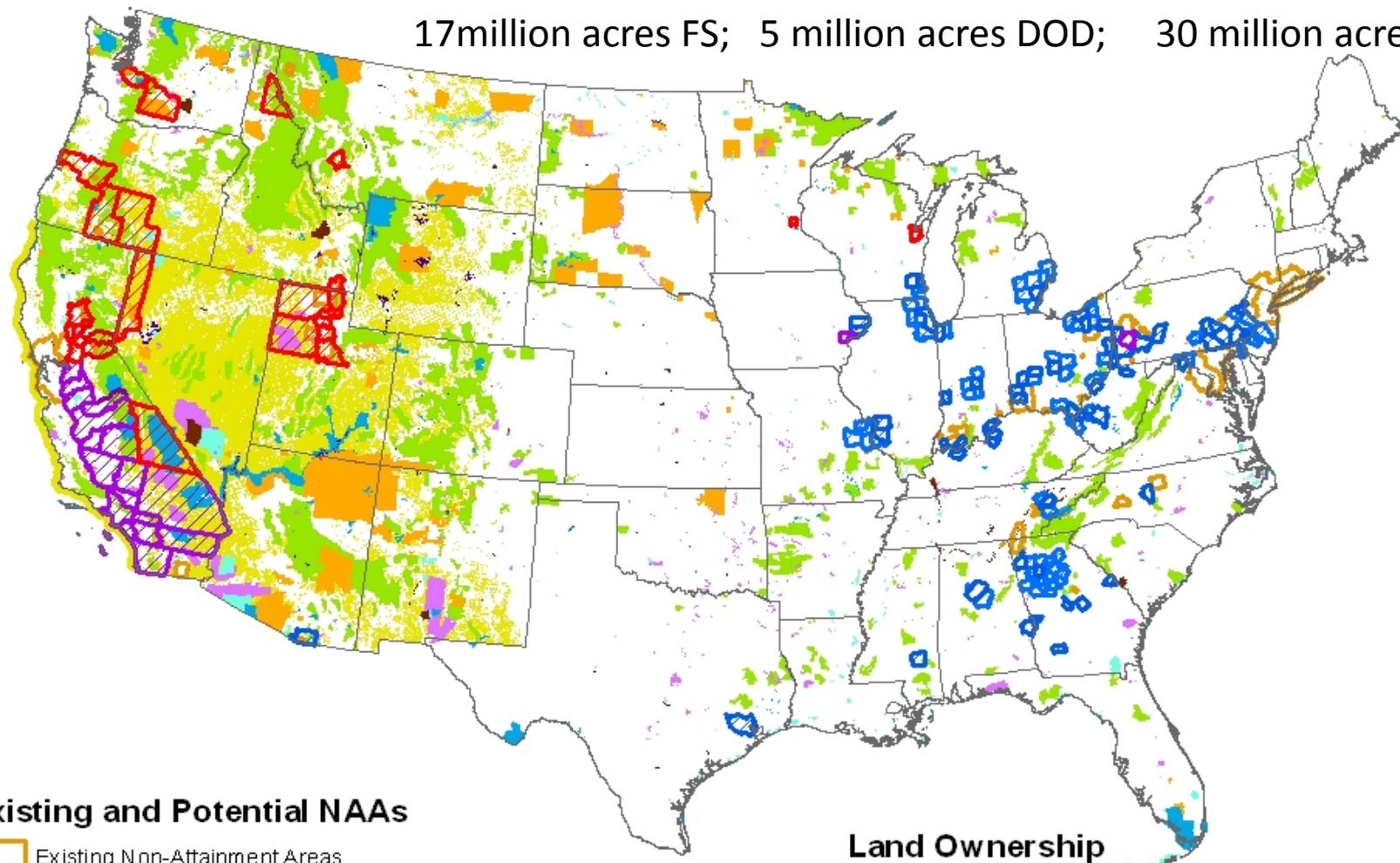
Ownership (Million Acres in Projected NA Counties Both Standards)

- | | | |
|-----------|----------|-----------------|
| BIA (18) | DOD (10) | NPS (10) |
| BLM (31) | FS (28) | Other Fed (0.2) |
| BOR (0.5) | FWS (4) | Non-Fed (157) |

Counties depicted have data which exceeds the proposed standard based on 2008-2010 monitoring data from EPA (<http://www.epa.gov/airtrends/values.html>). Includes CASTNET data. Includes data that could be excluded as exceptional events in the future. Analysis conducted by NWCG Smoke Committee.

PM_{2.5} NA areas based on June 2012 proposed standards: Annual NAAQS level = 12 µg/m³, 24-hr NAAQS level = 35 µg/m³

17million acres FS; 5 million acres DOD; 30 million acres DOI



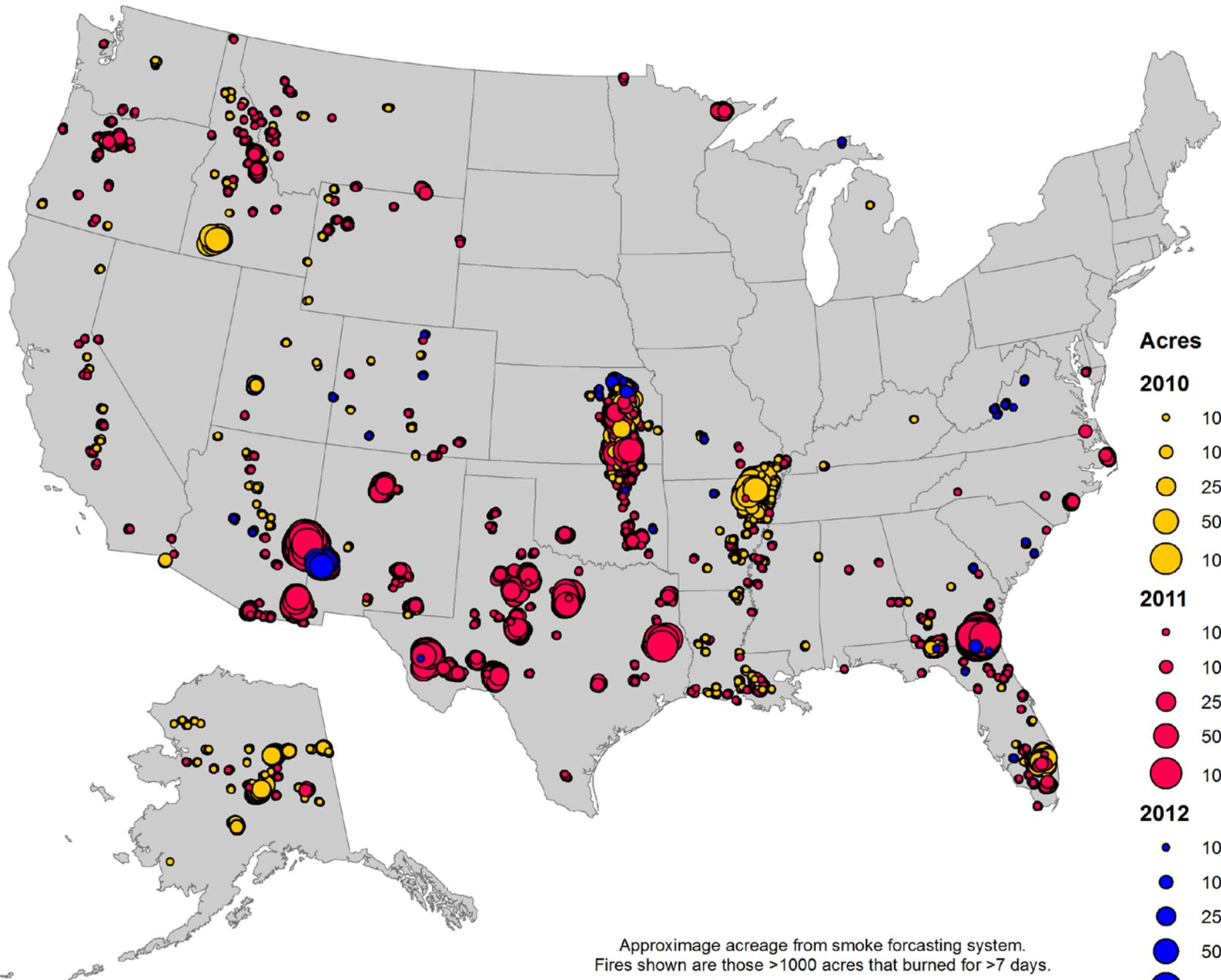
Existing and Potential NAAs

-  Existing Non-Attainment Areas
-  Likely not to meet both annual and 24-hr NAAQs
-  Likely not to meet 24-hr NAAQs, but likely to meet annual NAAQs
-  Likely not to meet annual NAAQs, but likely to meet 24-hr NAAQs

Land Ownership

- | | | | |
|---|---|---|---|
|  BIA |  BOR |  FS |  NPS |
|  BLM |  DOD |  FWS |  Other Fed |

Non-Attainment areas based on June 2012 proposed EPA PM_{2.5} standards. As quantitative spatial data were unavailable, NAAs were selected *ad hoc*, by visual comparison with a pictorial representation of the data.



Approximate acreage from smoke forecasting system.
 Fires shown are those >1000 acres that burned for >7 days.

- Exceptional Events
 - General Conformity
 - State SIP Model and EI's
 - Planning
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