

State of the Air

Presentation to BIA/DES Air and Water Conference

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Air Resources Division

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Summary of Topics

- ▶ ARD Contacts
- ▶ Division Operations under COVID-19
- ▶ Status of Air Quality in NH
- ▶ Upcoming Challenges

NHDES Air Resources Division

Director: Craig A. Wright 271-0882

Asst Director: Mike Fitzgerald 271-6390

Three Bureaus

▶ **Permitting and Environmental Health Bureau**

◦ **Gary Milbury 271-2630**

▶ **Compliance Bureau**

◦ **Sheri Eldridge 271-0882**

▶ **Technical Services Bureau**

◦ **Rebecca Ohler 271-6749**



A New World – COVID-19

ARD operating at nearly 90% plus in a remote mode since mid-March

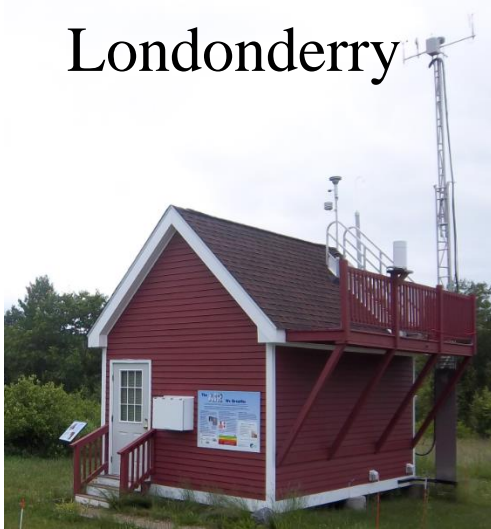
Permitting and Air Monitoring have remained fully functional despite the challenges of the transition

Stack testing resumed in May (new SOPs)

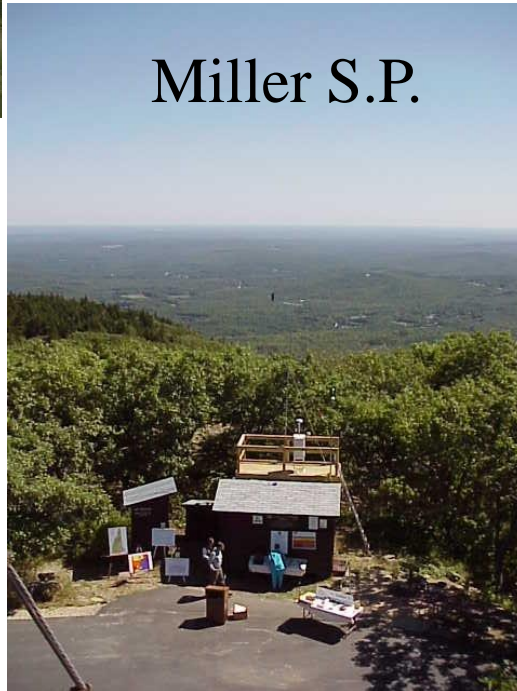
Modified source inspections are underway (revised CMS)

NH Air Monitoring Stations

Londonderry

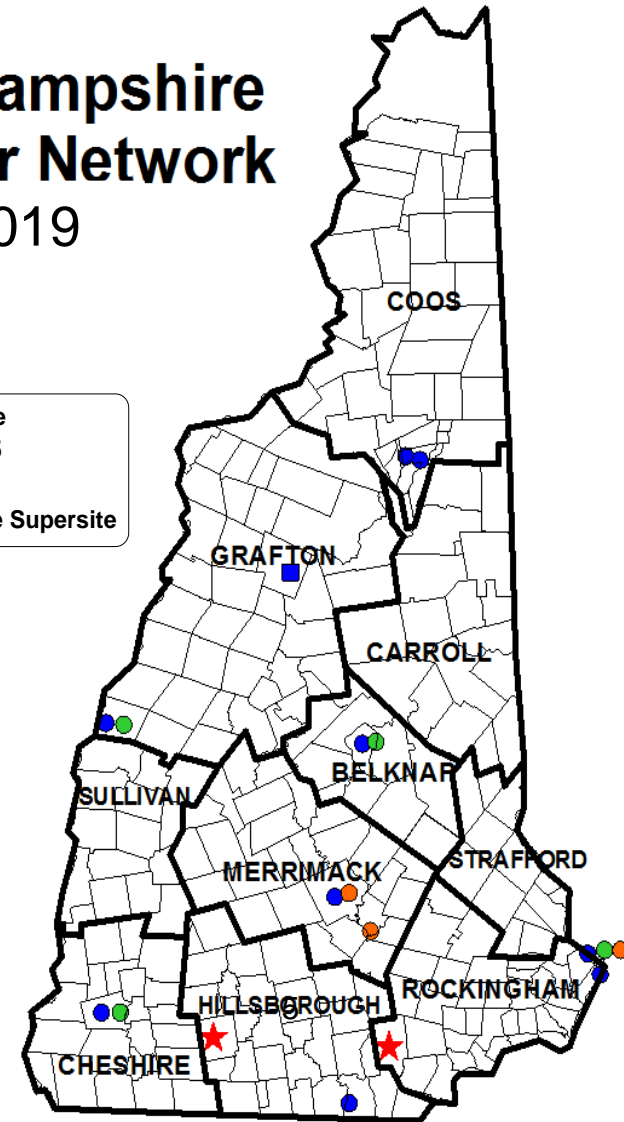


Miller S.P.

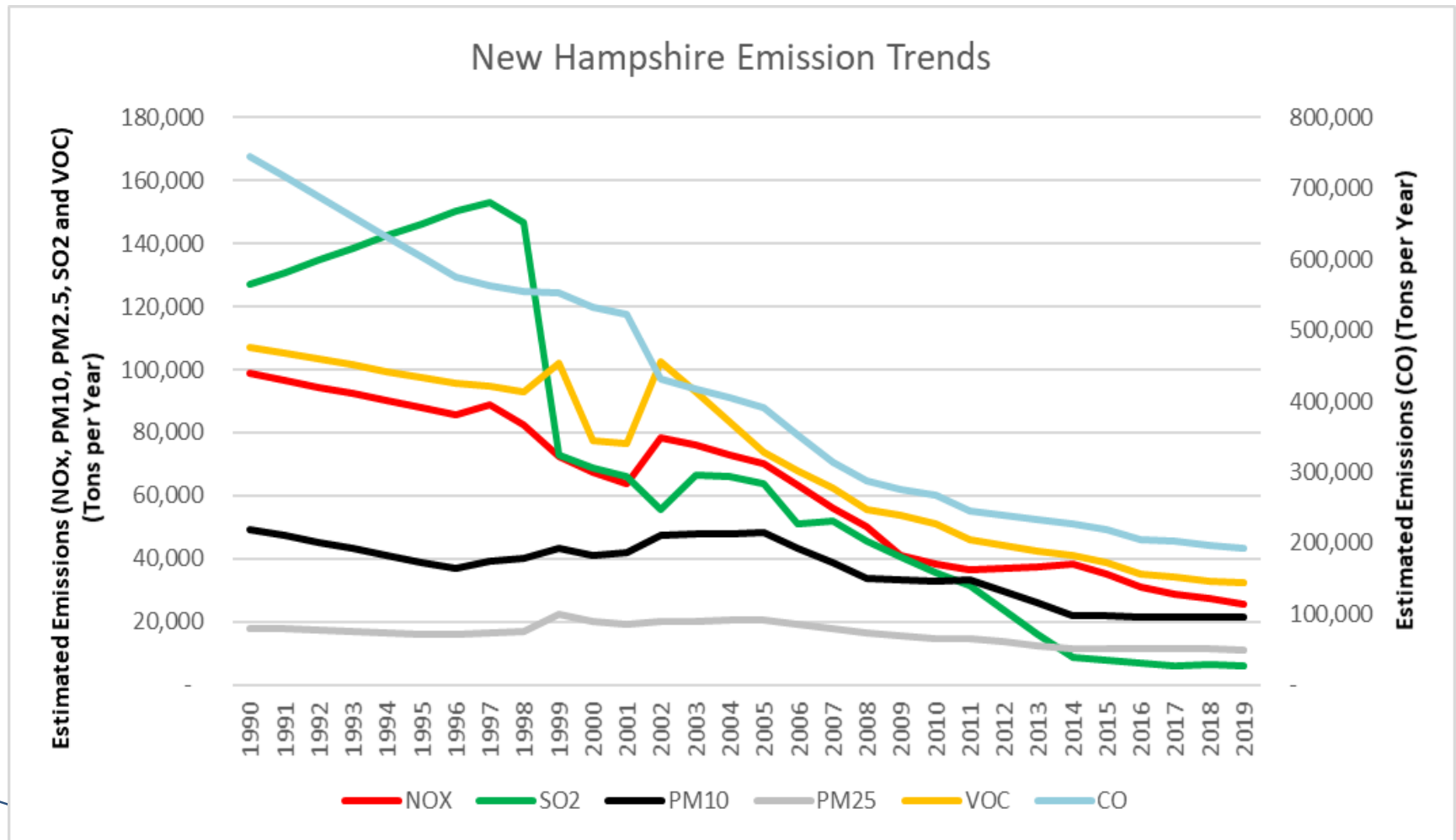


New Hampshire Monitor Network 2019

- Ozone
- PM2.5
- SO₂
- ★ NCore Supersite

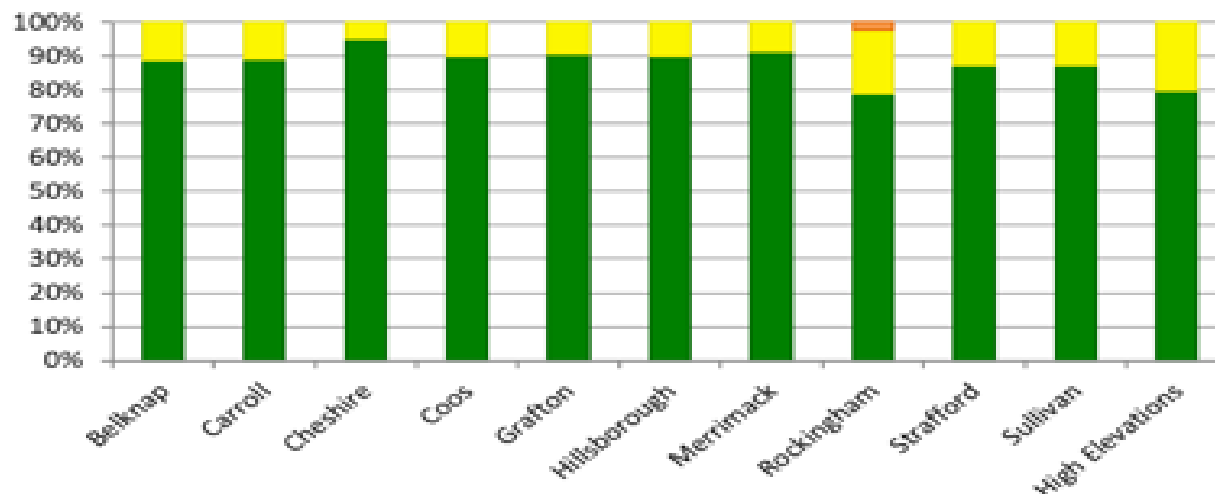


NH Emission Trends – 1990-2019



Overall Air Quality by County

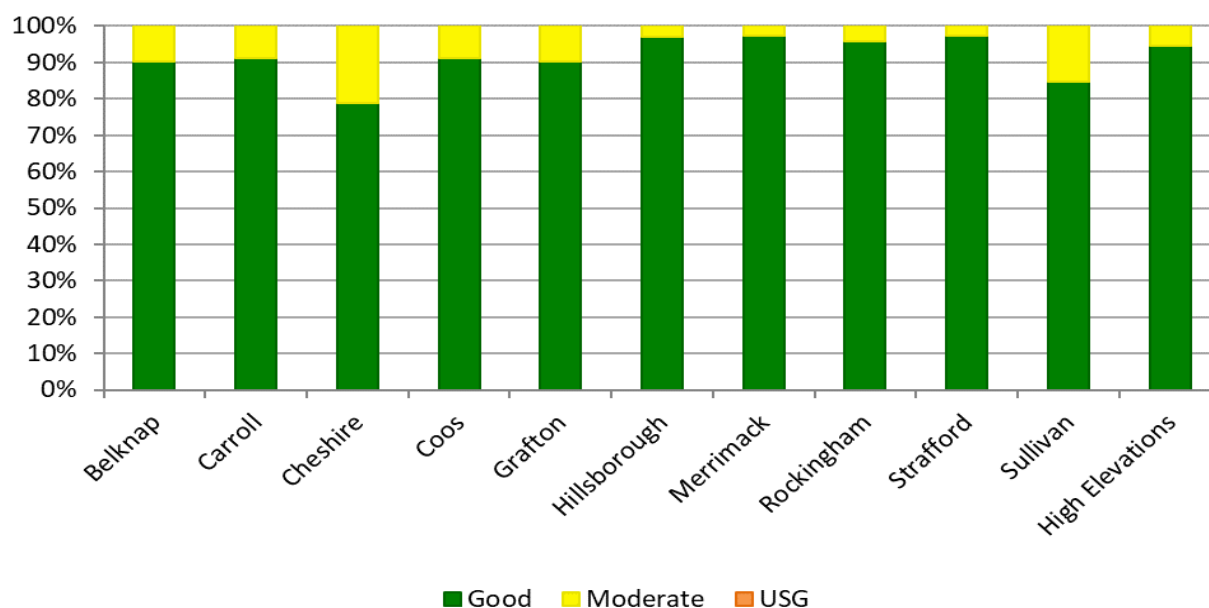
**Summer Air Quality Ratings by County, 2017-2019
(Percent of Days)**



Source: NHDES

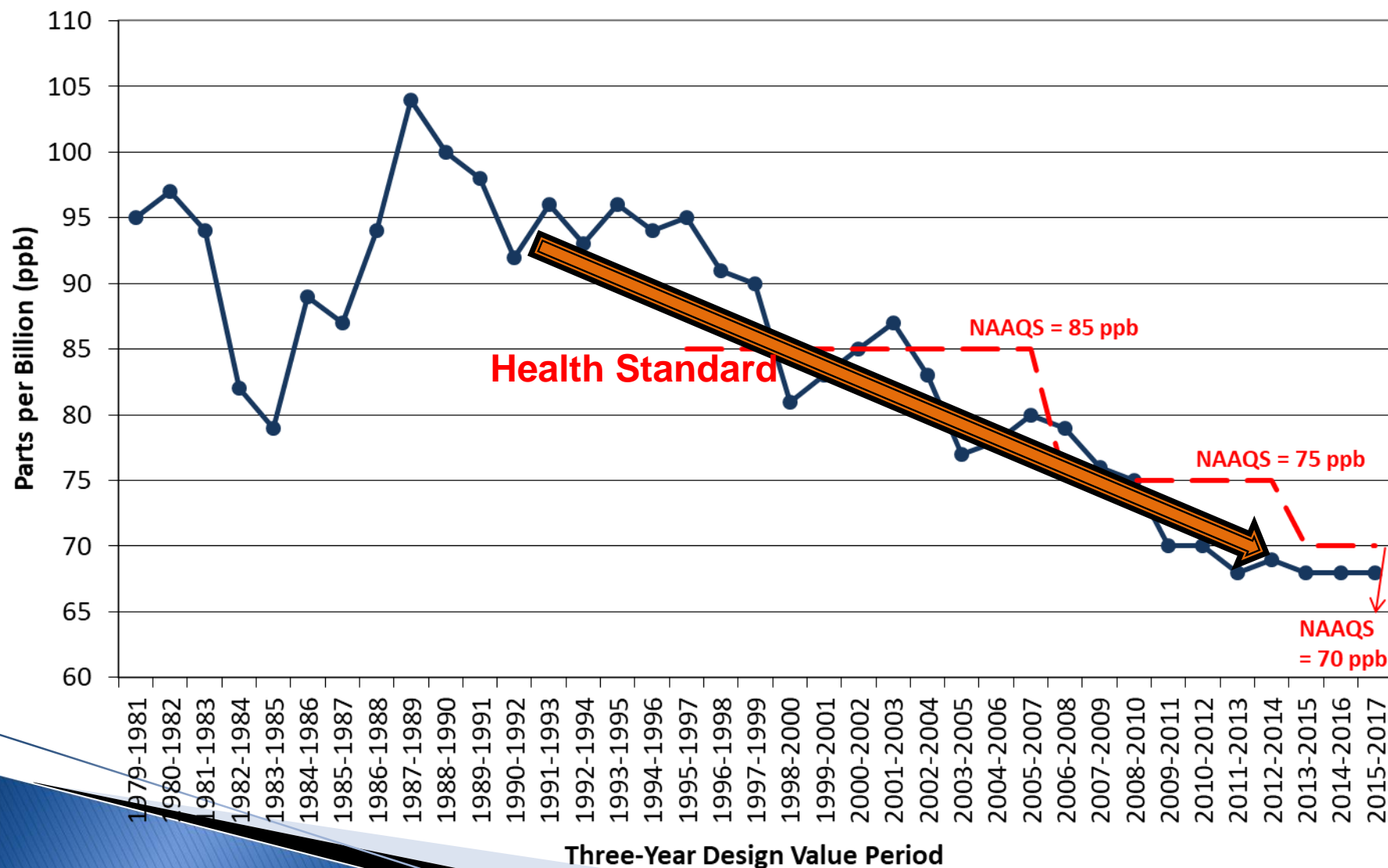
Good Moderate USG

Winter Air Quality Ratings by County, 2017-2019 (Percent of Days)



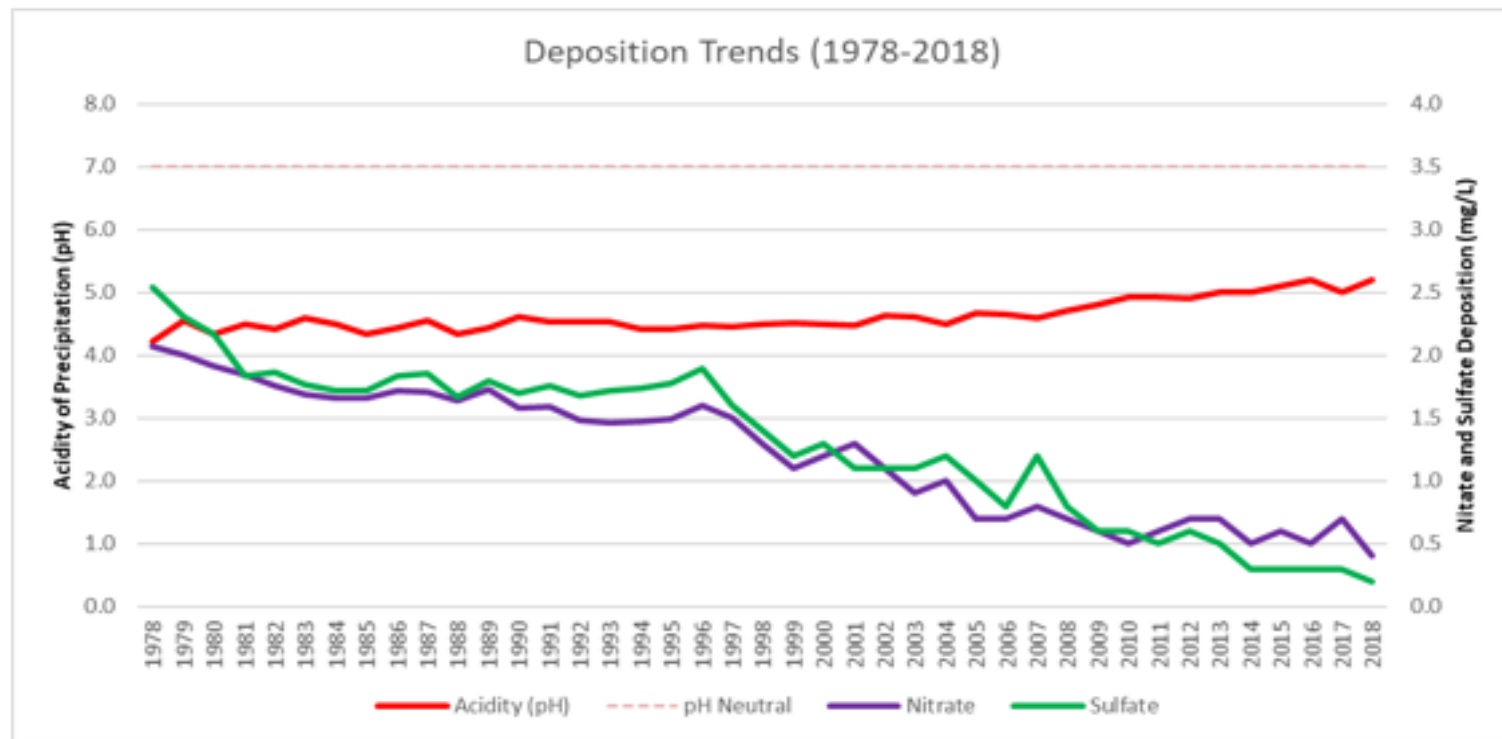
Ozone Trend

New Hampshire Maximum 8-Hour Ozone Design Values



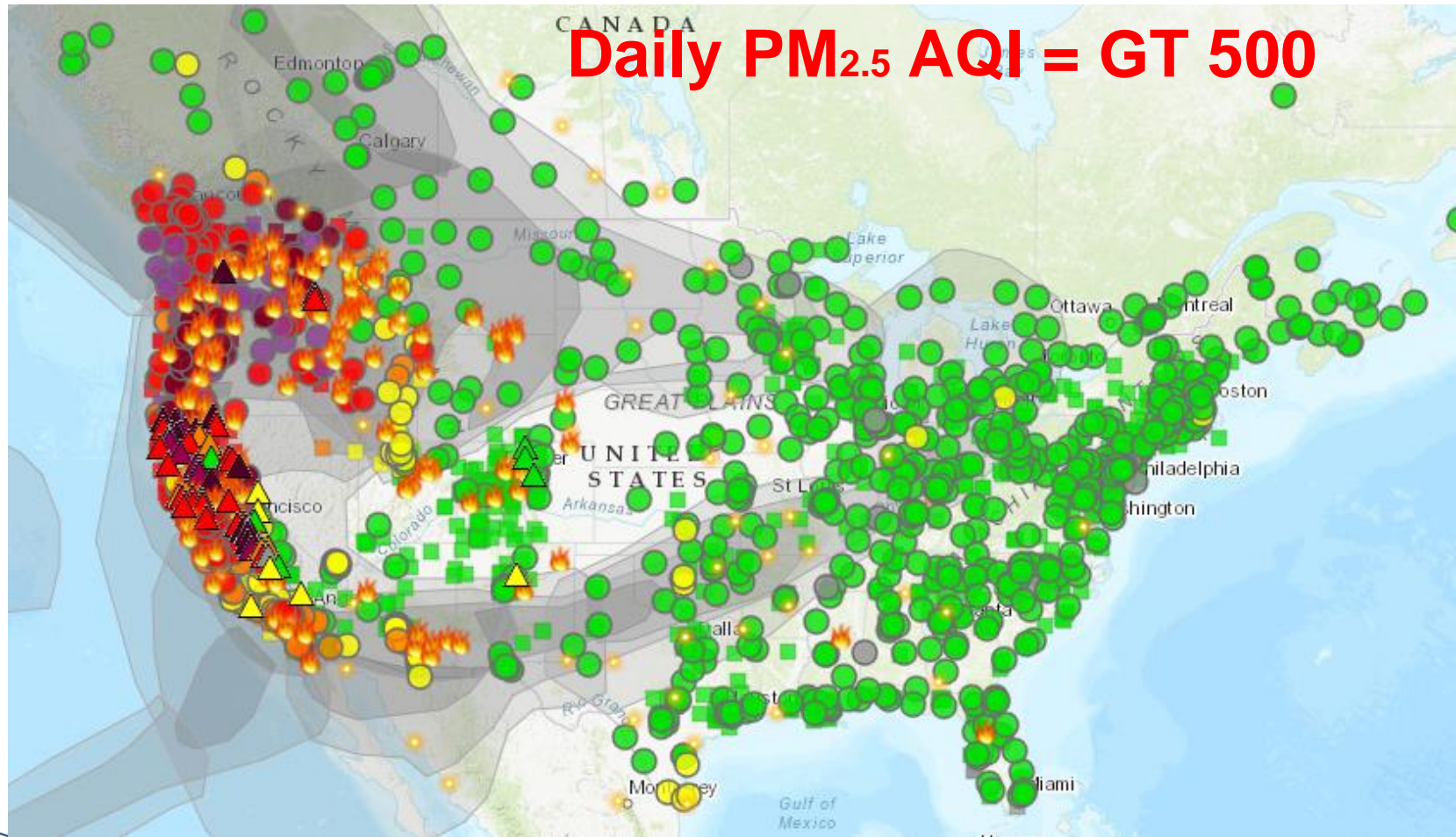
Acid Precipitation in NH

Annual Average Nitrate and Sulfate Deposition and Precipitation Acidity at Hubbard Brook Experimental Forest in Woodstock, NH, 1978-2018



Source: NADP and NHDES

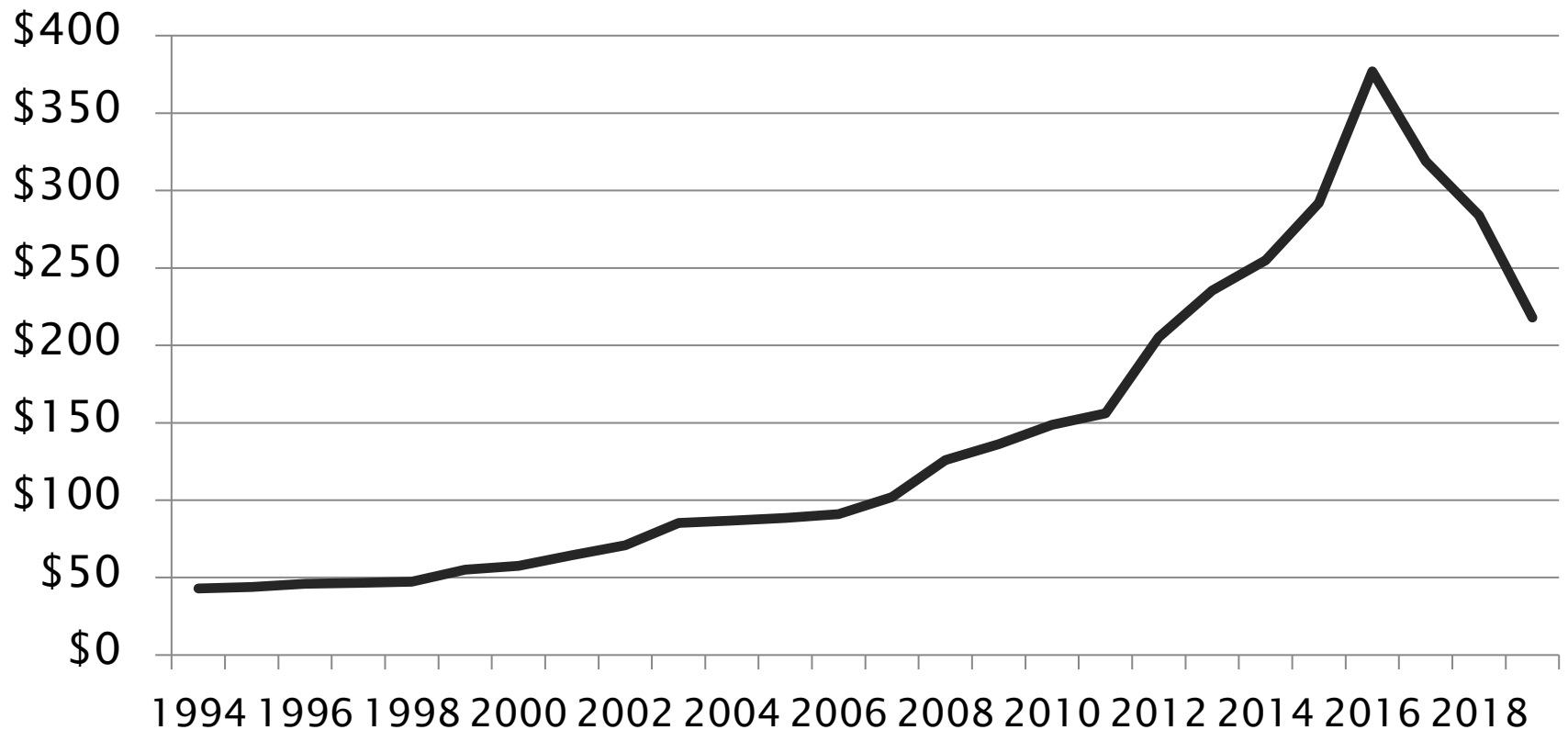
Western US Wildfires – 9/13/2020



Challenges 2020 and Beyond

- ▶ Transitioning to a future workforce
- ▶ Regulating non-traditional air emissions
 - Health impacts beyond inhalation risks
- ▶ Fiscal impacts of COVID-19
 - Impacts to state General Fund Revenues
 - Unknown impacts to Permit Fee Revenues
- ▶ Transportation remains the largest source of emissions in NH and the US
- ▶ Ozone transport = biggest impact to NH
- ▶ Adoption of federal air programs
 - ACE, Regional Haze, Updated Landfill Regulations

Air Permit Emission-based Fees (\$/ton)



Questions

- ▶ Craig A. Wright
 - ▶ Director
- ▶ NH Department of Environmental Services
 - ▶ Air Resources Division

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