

OTC/MANEVU
STAKEHOLDERS
VIRTUAL MEETING
APRIL 22, 2024

MANEVU Technical Support Committee

Co-Chairs Sharon Davis, NJDEP and David Healy, NHDES





Presentation Overview

- TSC Workplan & Progress
- DRAFT 2008 – 2023 Emissions Trends
- 2022 Updated Regional Haze Metrics
- Inter-RPO Coordination

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TSC Workplan: 1Q2024 – 1Q2025

1Q 2025
4Q 2024
3Q 2024
2Q 2024
1Q 2024

| Deliverable | Activity | Sub-Activity | Notes | Comments | 1Q 2024 | 2Q 2024 | 3Q 2024 | 4Q 2024 | 1Q 2025 |
|-----------------------------------|--|---|---|--|---------|---------|---------|---------|---------|
| TSC General | Update Air Directors | ADs/Committees/Stakeholders | Monthly Calls and Yearly Meetings | | | | | | |
| RH Metrics | Complete Annual RH Metrics Plots | Workgroup produces 2022 metrics/plots | 2022 plots in 2024; 2023 plots in 2025, etc. | See Visibility Workgroup Timeline for specific tasks and timeframes. | | | | | |
| | | Present to ADs/Committees/Stakeholders | | | | | | | |
| | Draft 2022 Metrics report | Final Workgroup review of 2022 metrics report | | | | | | | |
| | DRAFTED | Final TSC review of 2022 metrics report | | | | | | | |
| Progress report on 2nd rnd RH SIP | Complete technical analyses for progress report | Assess status Long-term strategies | | | | | | | |
| | | Assess status of control measures in other states | | | | | | | |
| | | Assess Emissions trends in MANEVU and Contributing States | | | | | | | |
| | | DRAFT Tabulations | | | | | | | |
| | | | | Due 1/31/2025 | | | | | |
| | | | | Due 01/31/2025 | | | | | |
| TSC General | Update Air Directors | ADs/Committees/Stakeholders | Calls and Meetings | | | | | | |
| 3rd RH SIP Planning Phase | RPO Coordination | Inventory for 3rd RH Planning | Quarterly Calls | As needed. | | | | | |
| | Request OTC Modeling perform 2038 Projection Run | | Will need 2038 projected inventory | Milestone date TBD | | | | | |
| | MANEVU Asks developed for RP | TBD | Will need Controlled 2038 projected inventory | Milestone date TBD | | | | | |
| | 120 RH consultation period starts | | | Milestone date TBD | | | | | |
| | 3rd RH SIP due to EPA | | | 40 CFR Part 51.308(f): Due date is July 1, 2028 | | | | | |

MANEVU Regional Haze SIP Progress As of April 1, 2024

| | IMPROVE Data Analysis | Inventory Development & Analysis | Modeling | Consultation with contributing states | State 4-factor analyses completed | Response to MANE-VU Ask Developed | Long-term strategy developed | Initial draft of SIP developed | State rules drafted (as appropriate) | FLM/EPA consultation | Draft SIP Submittal 60-day Clock Started | Public Hearing/Comment | Final SIP Submittal | At EPA | SIP Approved |
|----|-----------------------|----------------------------------|----------|---------------------------------------|-----------------------------------|-----------------------------------|------------------------------|--------------------------------|--------------------------------------|----------------------|--|------------------------|---------------------|--------|--------------|
| CT | | | | | | | | | | | | | | | |
| DC | | | | | | | | | | | | | | | |
| DE | | | | | | | | | | | | | | | |
| MA | | | | | | | | | | | | | | | |
| MD | | | | | | | | | | | | | | | |
| ME | | | | | In Progress | | | | | | | | | | |
| NH | | | | | | | | | | | | | | | |
| NJ | | | | | | | | | | | | | | | |
| NY | | | | | | | | | | | | | | | |
| PA | | | | | | In Progress | | | | | | | | | |
| RI | | | | | | | | | | | | | | | |
| VT | | | | | | | | | | | In Progress | | | | |

| | |
|-------------------------------------|--|
| Task Complete/Full EPA SIP Approval | |
| Proposed EPA SIP Approval | |
| In Progress | |
| EPA Action Pending | |

Presentation Overview

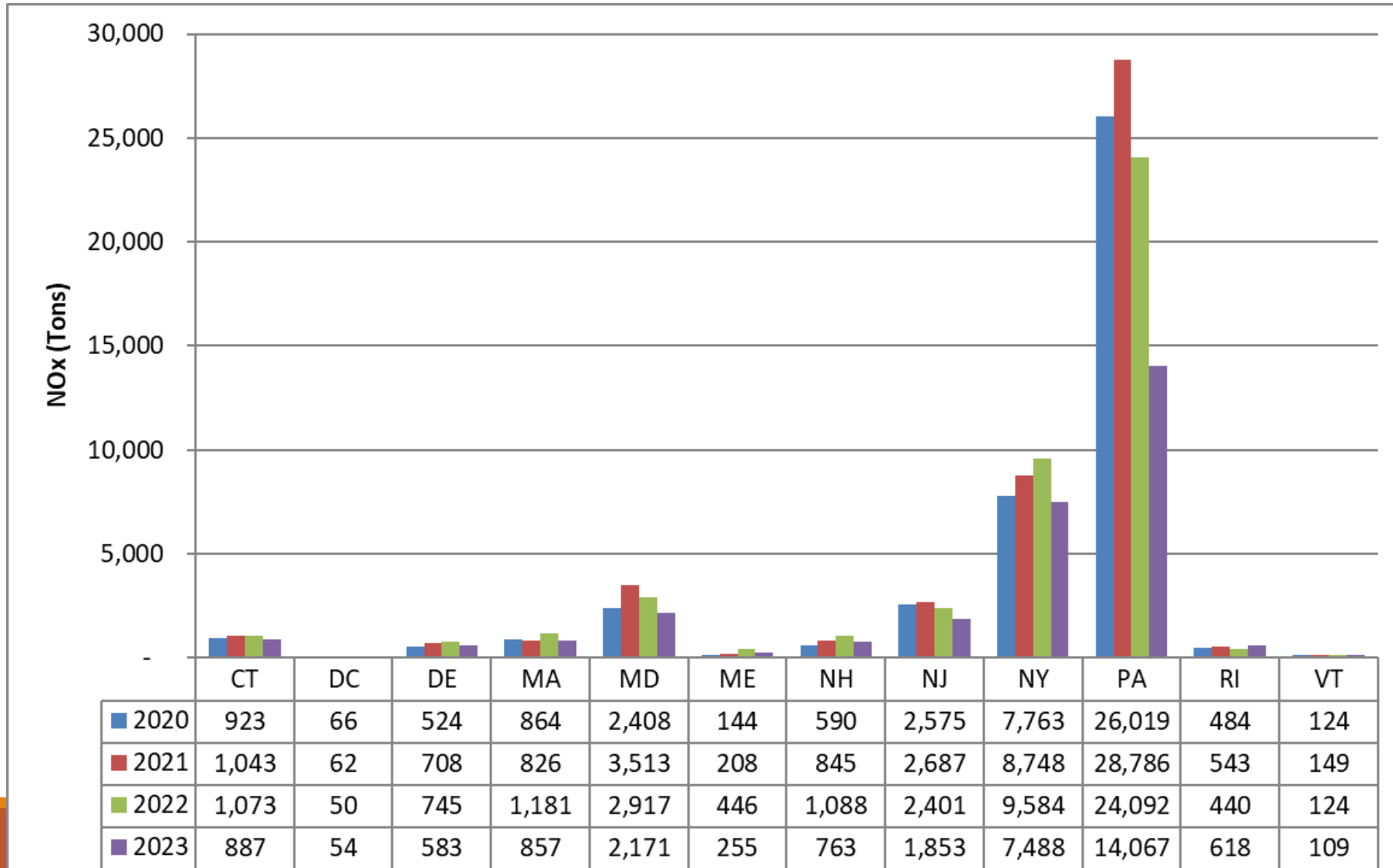
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2008 and 2020 Visibility-Impairing Pollutant Emissions in MANEVU (Tons)

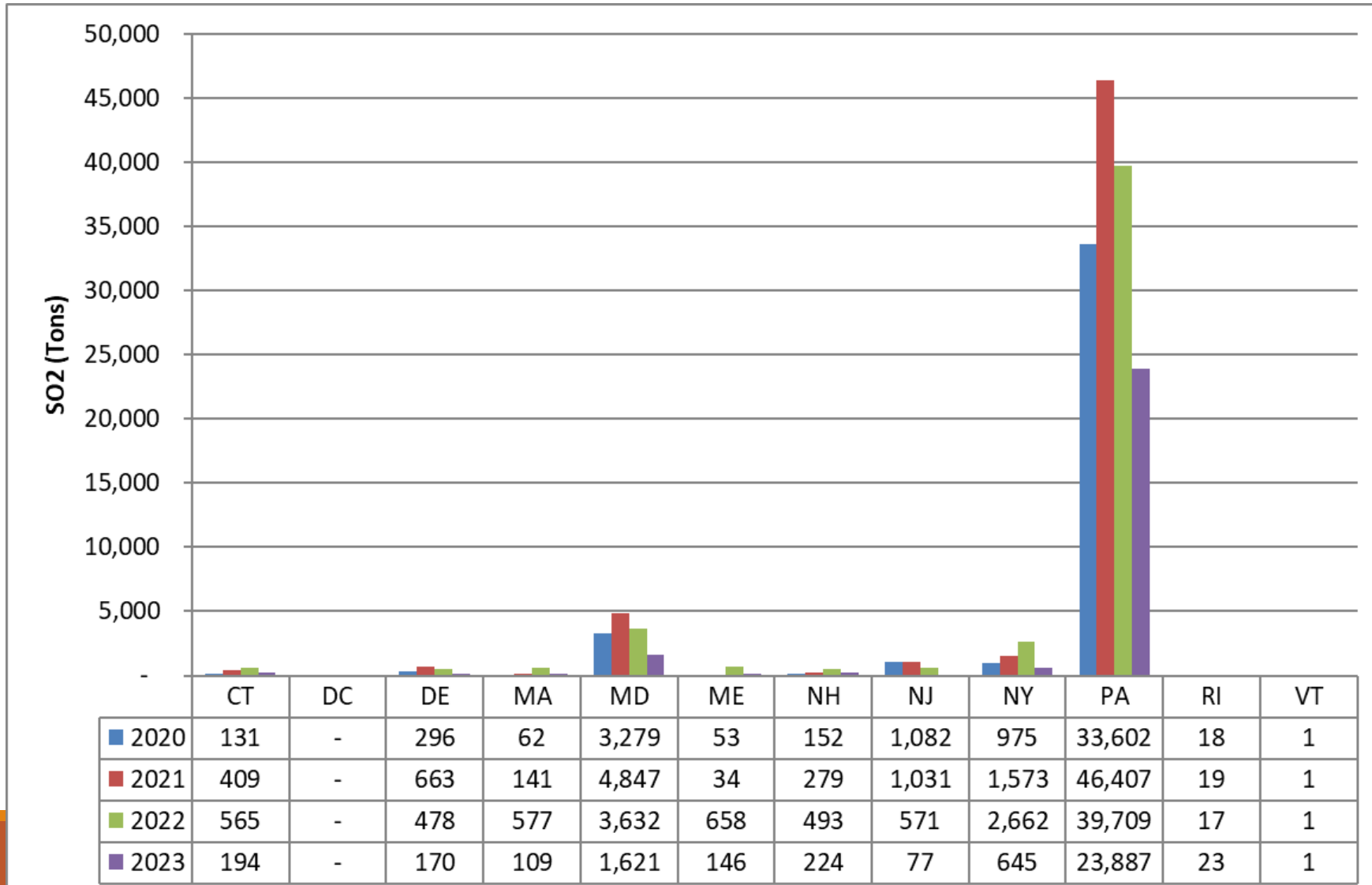
| Sector | NH3 | | NOx | | PM10 | | PM2.5 | | SO2 | | VOC | |
|--------------|----------------|----------------|------------------|----------------|------------------|------------------|----------------|----------------|------------------|---------------|------------------|------------------|
| | 2008 | 2020 | 2008 | 2020 | 2008 | 2020 | 2008 | 2020 | 2008 | 2020 | 2008 | 2020 |
| Point | 8,420 | 7,892 | 494,621 | 140,095 | 124,941 | 35,199 | 102,773 | 27,849 | 1,461,845 | 68,385 | 65,641 | 47,752 |
| Nonpoint | 204,281 | 214,101 | 362,590 | 294,856 | 1,022,906 | 933,773 | 251,740 | 340,034 | 234,302 | 23,721 | 832,452 | 801,642 |
| Nonroad | 313 | 318 | 257,356 | 121,214 | 26,217 | 13,083 | 24,716 | 12,332 | 7,075 | 152 | 492,638 | 171,416 |
| Onroad | 21,639 | 12,907 | 873,035 | 275,235 | 47,081 | 28,212 | 35,046 | 10,156 | 5,680 | 1,415 | 407,203 | 138,323 |
| Total | 234,652 | 235,218 | 1,987,602 | 831,399 | 1,221,145 | 1,010,267 | 414,275 | 390,371 | 1,708,903 | 93,674 | 1,797,935 | 1,159,134 |

Per the 2020 NEI TSD, methodology changes were made to the Ag Fertilizer and Animal Waste categories which resulted in higher NH3 estimates for 2020. Also, MOVES4 model expected to increase NH3 estimates for future inventories.

2020 – 2023 NOx Emissions from CAMPD Sources in the MANEVU States



2020 – 2023 SO2 Emissions from CAMPD Sources in the MANEVU States

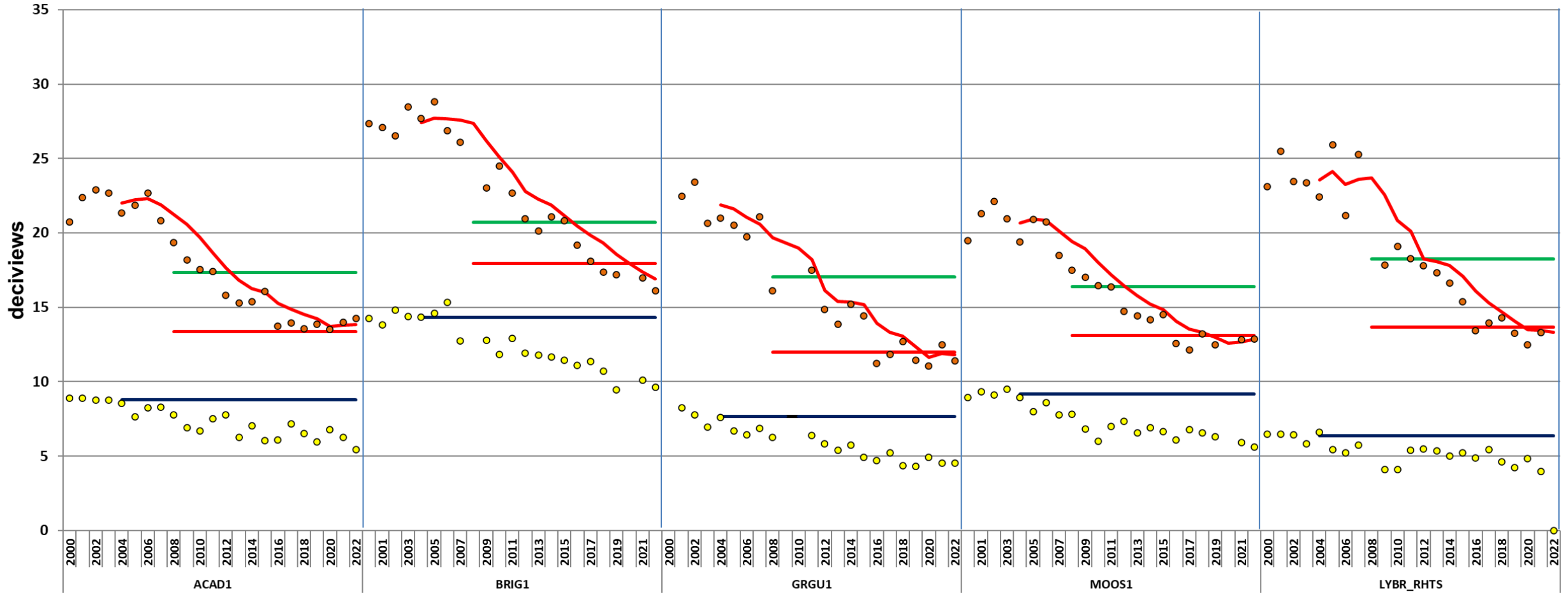


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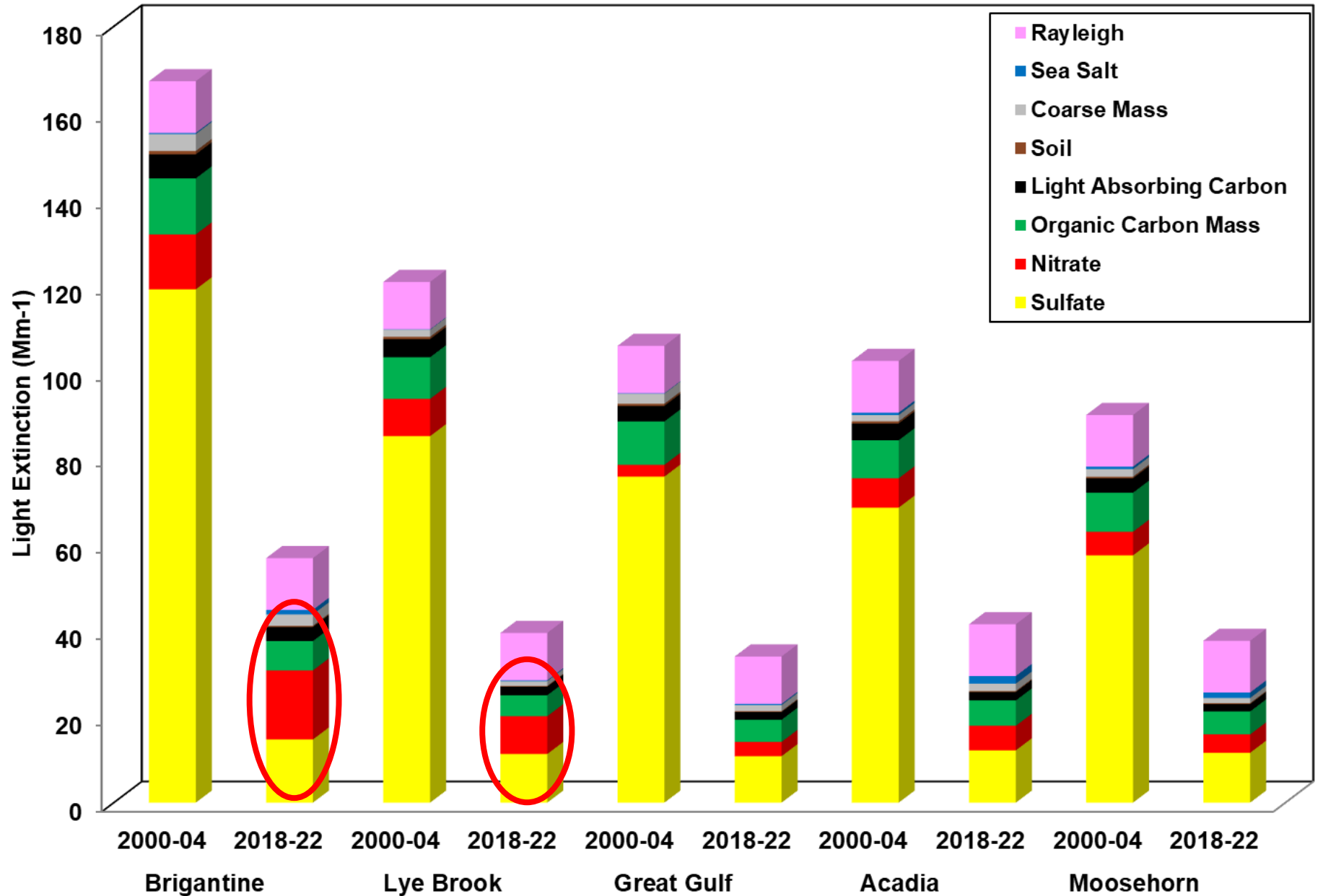
20% MOST IMPAIRED DAYS METRICS / 20% CLEAREST DAYS METRICS

● 20% Most Impaired Days
 — No Deg.
 — 2028 URP
 — 2028 RPG
 ● 20% Clearest Days
 — Haze Index 5-Year

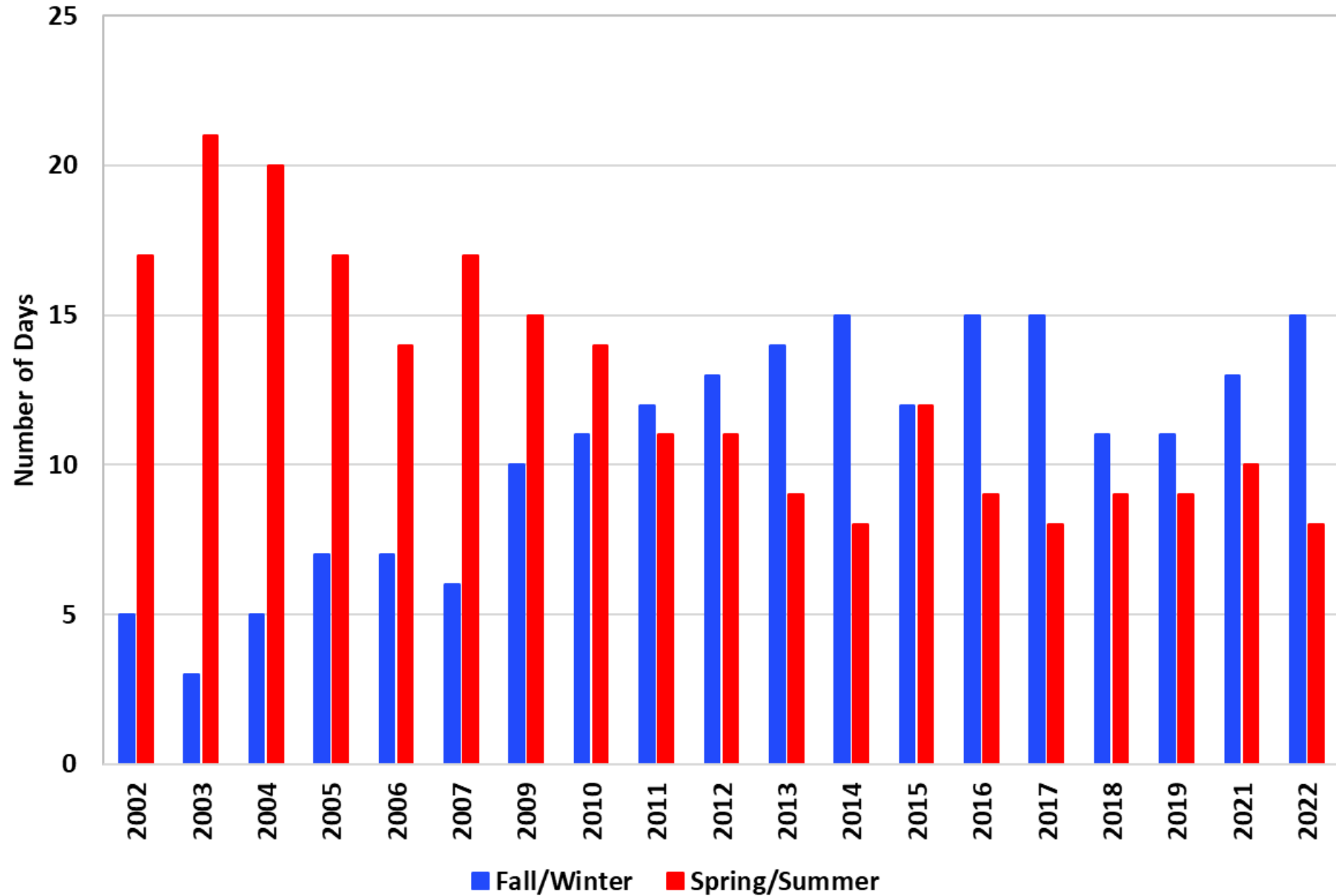


20% Most Impaired Day Analysis:

Base Year (2000-2004)
vs.
Current (2018 - 2022)



Brigantine Wilderness 20% Most Impaired Days



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Inter-RPO Coordination

- Inter-RPO coordination process established, WESTAR
- Inter-RPO Discussion Topics
 - Priorities for RHR changes
 - Other sectors/pollutants (agricultural ammonia)
 - Planning timelines for 2nd round PRs and 3rd round SIPs
 - 2nd round progress reports
 - Template sharing
 - Status of RP measures

Moosehorn, ME



Roosevelt Campobello International Park, NB



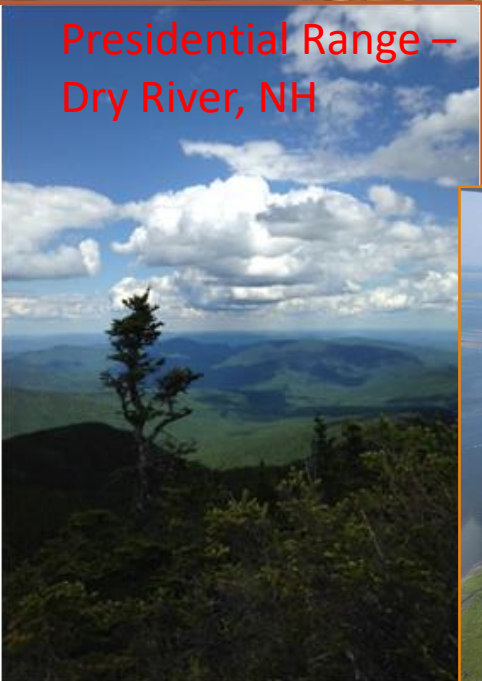
Acadia, ME



Lye Brook Wilderness, VT



Presidential Range – Dry River, NH



Brigantine NJ



Questions? Thank You!

Sharon Davis (NJ), MANEVU TSC Co-Chair
sharon.davis@dep.nj.gov
(609) 292-6722

David Healy (NH), MANEVU TSC Co-Chair
david.healy@des.nh.gov
(603) 271-0871

Paul Miller (MANEVU/OTC), Lead Manager
pmiller@nescaum.org
(617) 259-2016