

Mid-Atlantic/Northeast Visibility Union

MANE-VU



OTC/MANE-VU  
SPRING 2022  
ANNUAL MEETING  
JUNE 2, 2022

# MANE-VU Technical Support Committee

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



# MANE-VU and Nearby Class I Areas

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# Presentation Overview

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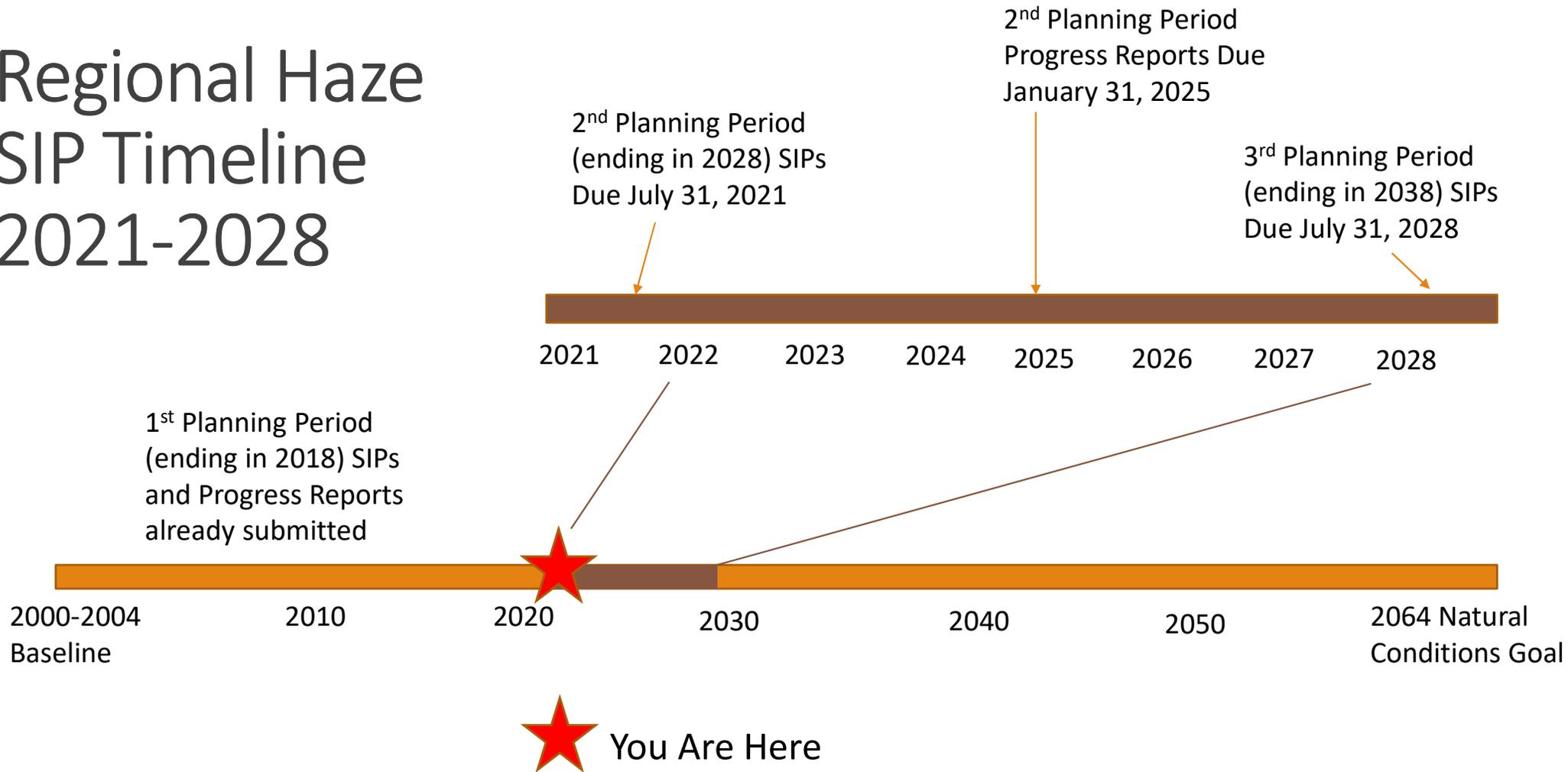
- Regional Haze SIP Timeline
- TSC Activity
- Updated Regional Haze Metrics
- Looking Ahead

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# Regional Haze SIP Timeline 2021-2028



## EPA Taking Action on States that Missed Submittal Date

- April 7, 2022: EPA announced intent to issue failure to submit findings for Regional Haze (RH) State Implementation Plans (SIPs) for second planning period
- August 15, 2022: Submit second planning period SIPs to avoid failure finding
- August 31, 2022: Issuance date of Finding of Failure to Submit (FFS)

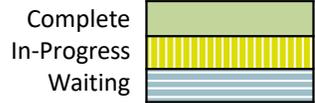
(Note: Several environmental conservation groups filed a Summary Judgment for EPA to issue notices of failure to submit RH SIPs by a potentially earlier timeframe)

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As of May 24, 2022

# MANE-VU Agency Regional Haze SIP Progress Chart



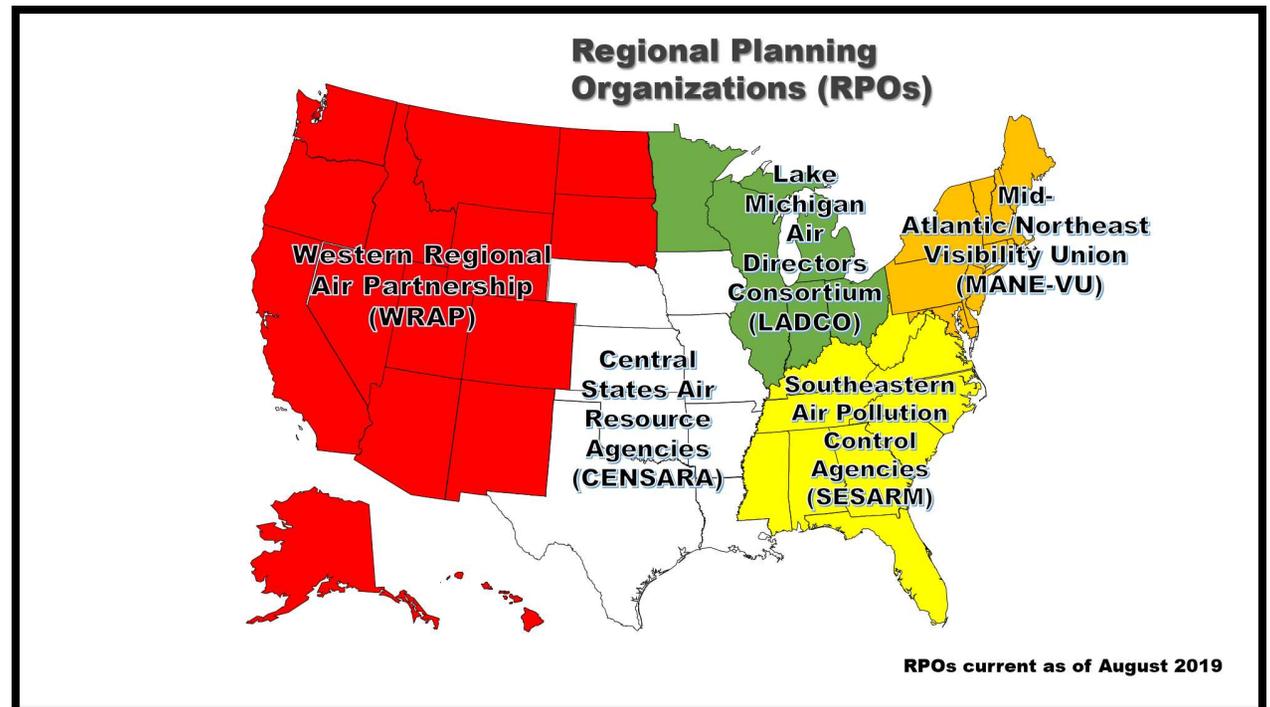
	IMPROVE Data Analysis	Inventory Development & Analysis	Modeling	Consultation with contributing states	State 4-factor analyses completed	Response to MANE-VU Ask Developed	Long-term strategy developed	Initial draft of SIP developed	State rules drafted (as appropriate)	FLM/EPA consultation	Draft SIP Submittal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

## MANE-VU Comment Letters on Upwind Contributing States' Regional Haze SIPs

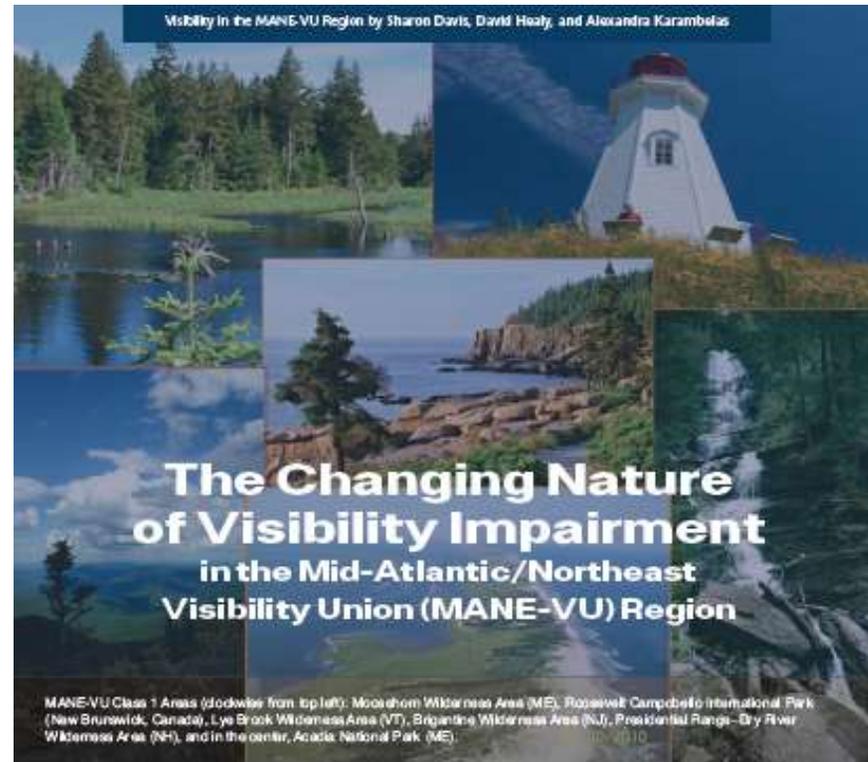
<u>RPO</u>	<u>State</u>	<u>Draft Available for Review?</u>	<u>Comments Status</u>
LADCO	Illinois	No	
	Indiana	Yes	Comments submitted 11/6/21
	Michigan	Yes	Comments submitted 6/28/21
	Ohio	Yes	Comments submitted 6/28/21
SESARM	Alabama	No	
	Florida	Yes	Comments were due 7/9/21
	Kentucky	No	
	N. Carolina	Yes	Comments submitted 10/12/21
	Tennessee	Yes	Comments submitted 12/1/21
	Virginia	No	
	W. Virginia	Yes	Comments submitted 1/10/22
CENSARA	Louisiana	Yes	Comments were due 7/12/21
	Missouri	Yes	Comments submitted 9/28/21
	Texas	Yes	Comments submitted 1/6/21

# RPO Coordination

- Regional Haze 3<sup>rd</sup> Planning Period Meeting (April 26, 2022: TSC Co-Chairs)
- Mainly focused on:
  1. Timing of analysis for 3<sup>rd</sup> planning period
  2. Opportunities for collaboration
  3. Opportunities to harmonize RH with other planning efforts
- Opportunity to discuss winter-time NO<sub>x</sub> (i.e. year round controls)



# MANE-VU TSC EM Magazine Article



by Sharon Davis, David Healy, and Alexandra Karambelas

Assessing the progress made in improving visibility at federally protected Class I areas located in MANE-VU states, the changing nature of regional haze in the Northeast, and the steps needed to continue progress in visibility improvement across the MANE-VU region.



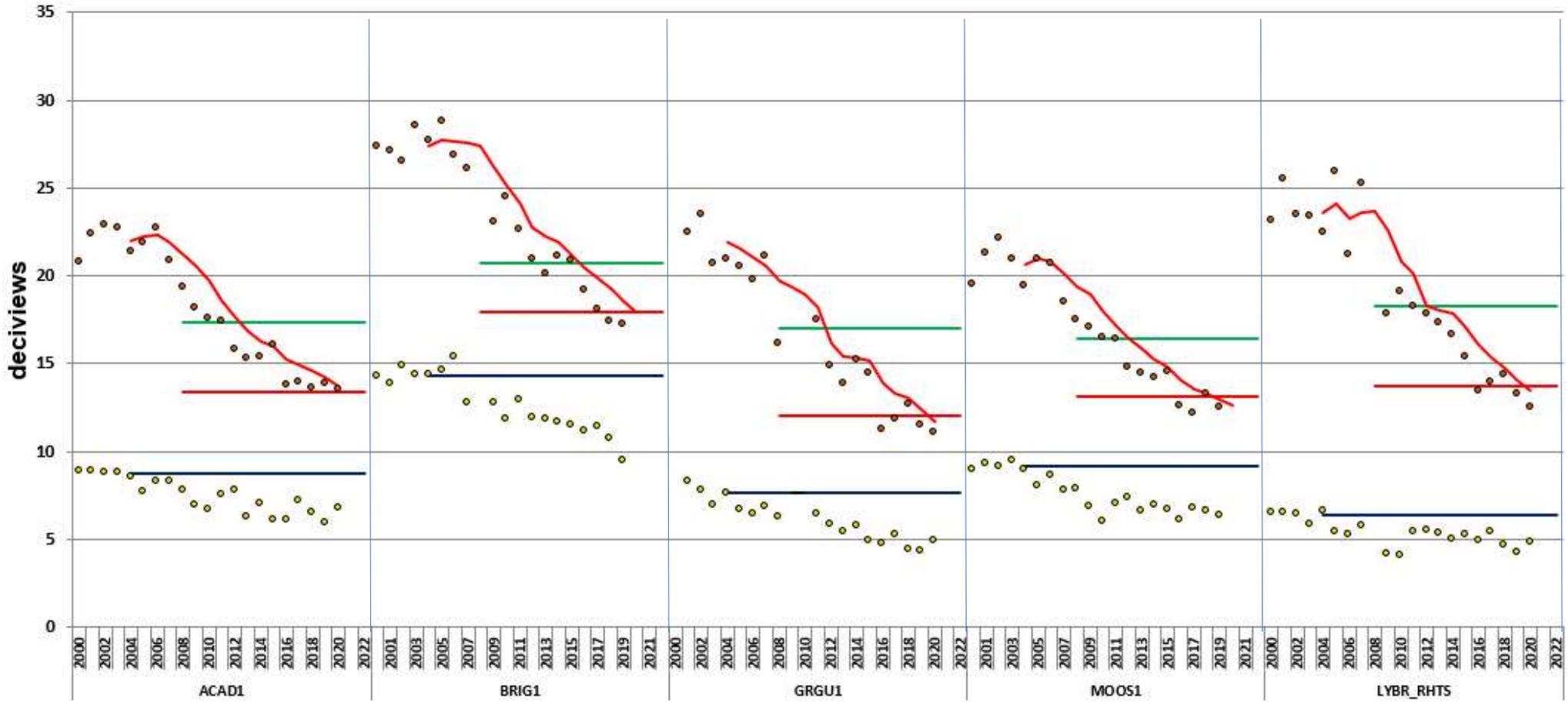
em - The Magazine for Environmental Managers - A BWMA - April 2022

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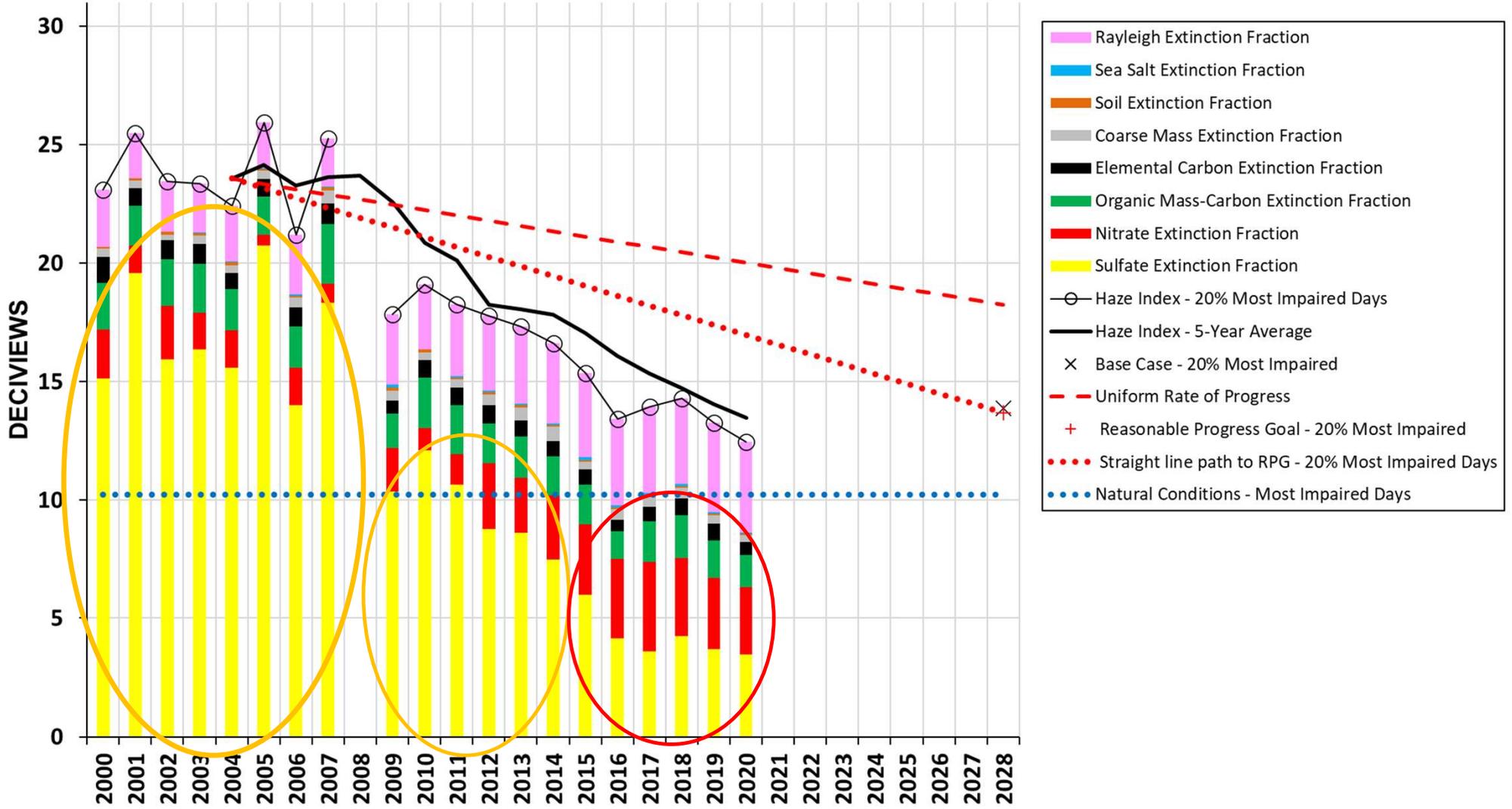
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## 20% MOST IMPAIRED DAYS METRICS / 20% CLEAREST DAYS METRICS

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

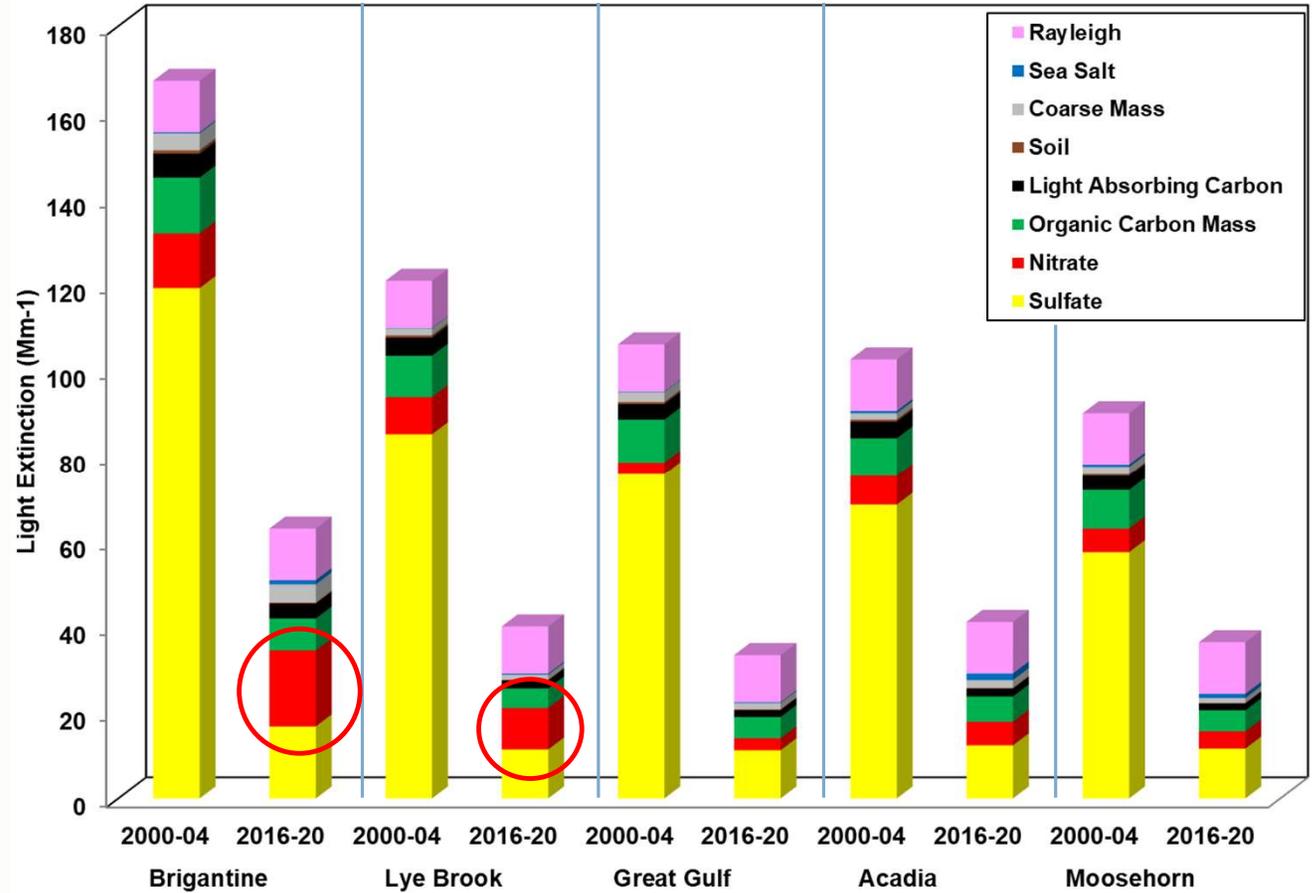


### Lye Brook, VT Regional Haze 20% Most Impaired Days Trends

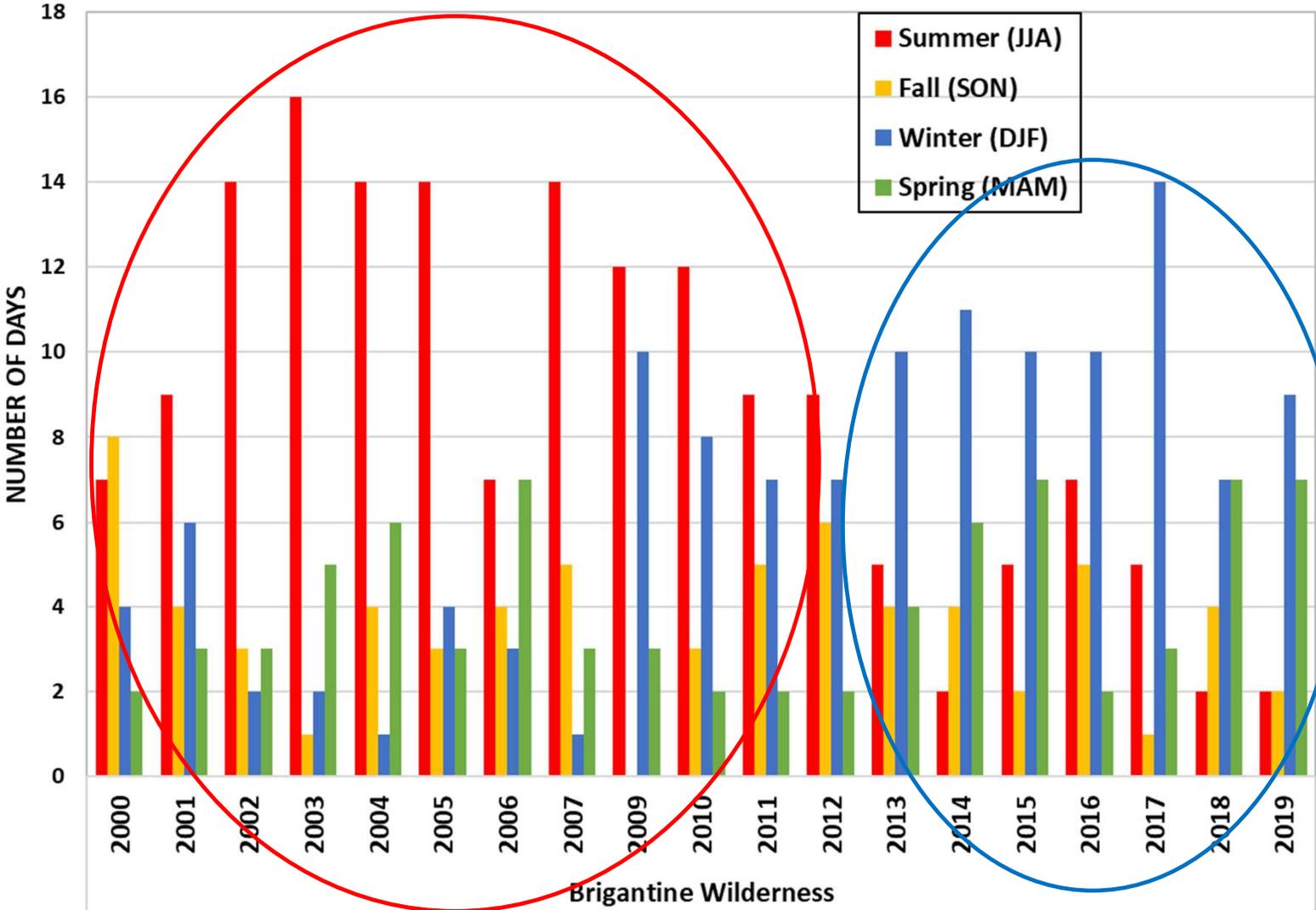


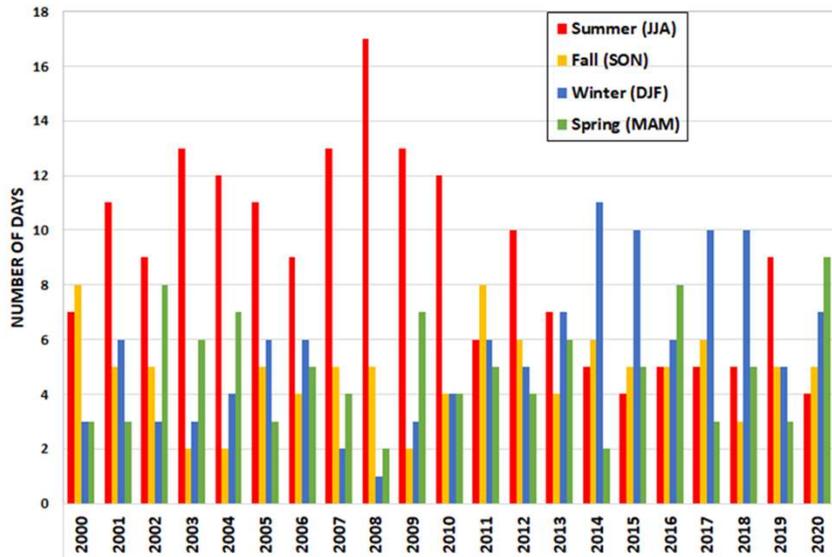
# 20% Most Impaired Day Analysis:

Base Year (2000-2004)  
vs.  
Current (2016-2020)

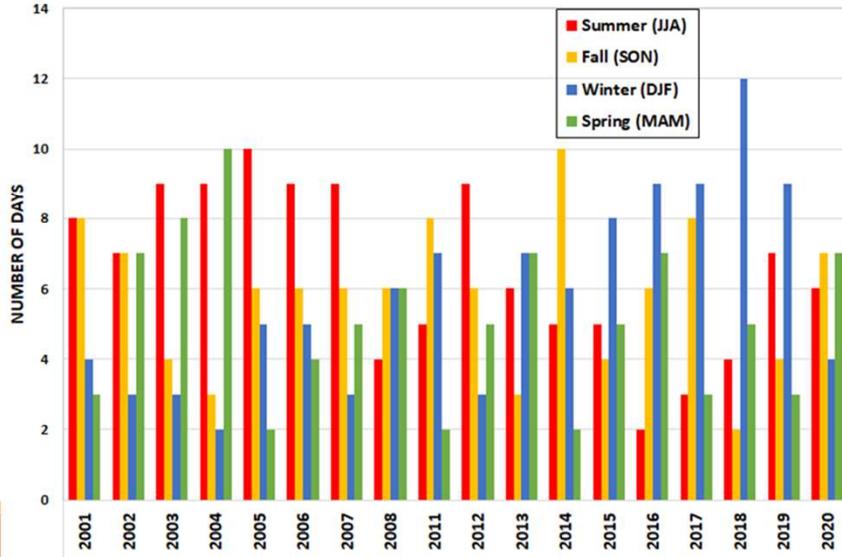


Brigantine Wilderness 20% Most Impaired Days

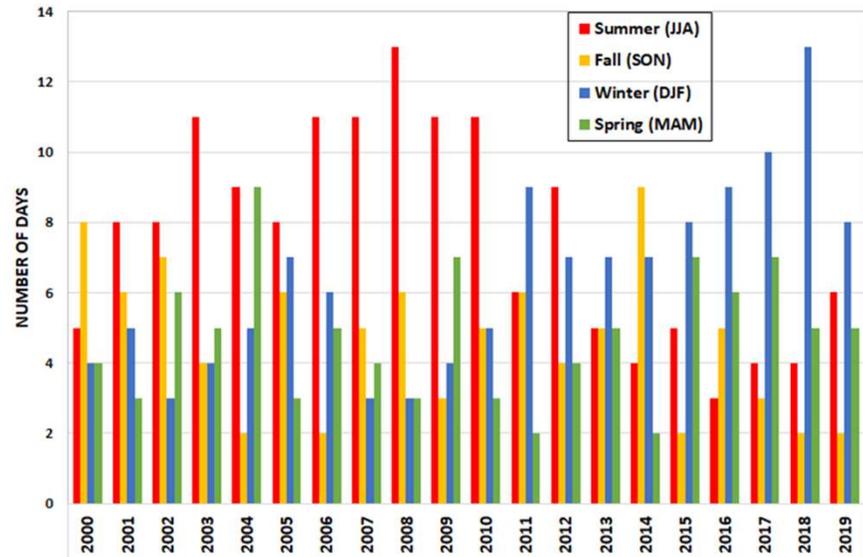




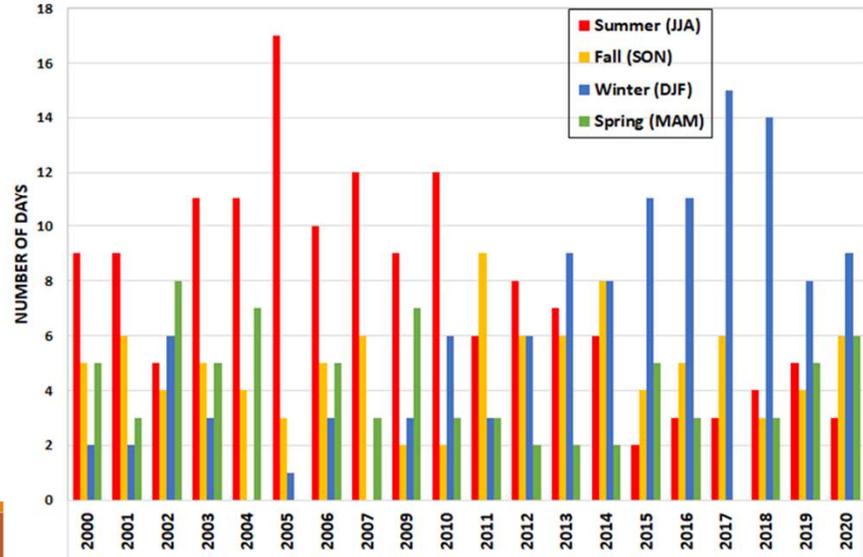
Acadia National Park



Great Gulf Wilderness



Moosehorn Wilderness



Lye Brook Wilderness

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# Summary of Proposed and Anticipated Future Work Areas

1. Monitor visibility trends, including those needed for 5-year progress reports (due in 2025)
2. Provide regional haze and SIP development training to MANE-VU agency staff and other Regional Haze Planning Organizations (subject to available resources)
3. Track research on impacts of emission reductions and changing atmospheric chemistry on effectiveness of future haze measures
4. Cooperatively leverage resources and activities with OTC and NESCAUM to:
  - a. Support efforts to reduce emissions of NO<sub>x</sub> from on-road trucks;
  - b. Provide multi-pollutant perspective of co-benefits from regional haze measures;
  - c. Examine winter wood combustion contributions to haze; and
  - d. Use remote sensing observations to understand NO<sub>x</sub> emissions and lifetimes.
5. Coordinate among MANE-VU member organizations, and other Regional Haze Planning Organizations as necessary, to develop templates that will facilitate consistency in MANE-VU submittals:
  - a. 5-year Progress Report due in 2025
  - b. 3<sup>rd</sup> Regional Haze Planning Period SIPs due in 2028



Roosevelt Campobello International Park, NB



Moosehorn, ME



Acadia, ME



Lye Brook Wilderness, VT

Presidential Range – Dry River, NH



Brigantine NJ

# Questions? Thank You!

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