

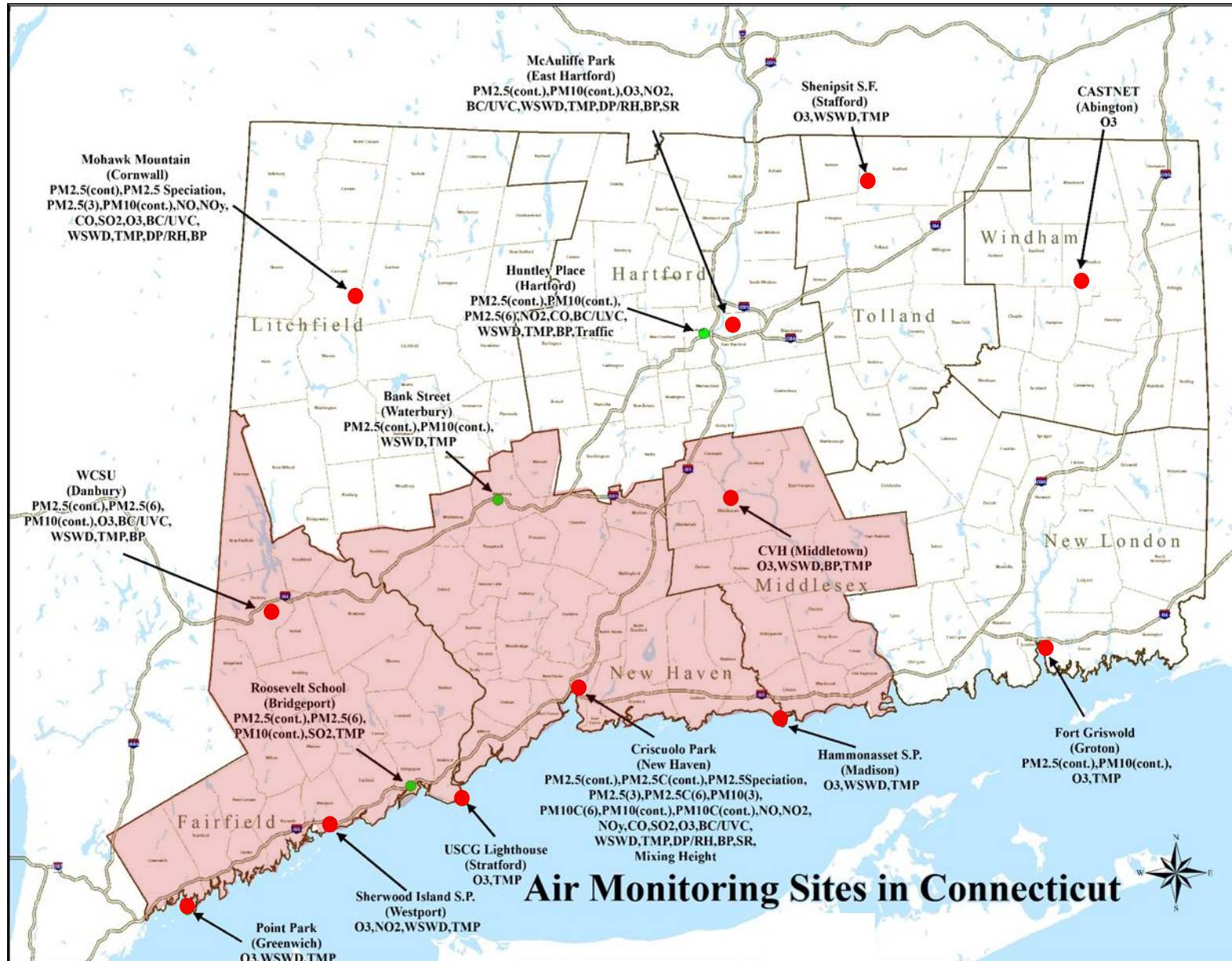


2024 OZONE SEASON SUMMARY AND A LOOK INTO 2025!

SIPRAC

**Presented by: Daniella Lopez, Attainment Planning and Standards
Bureau of Air Management**

CONNECTICUT'S MONITORING SITES

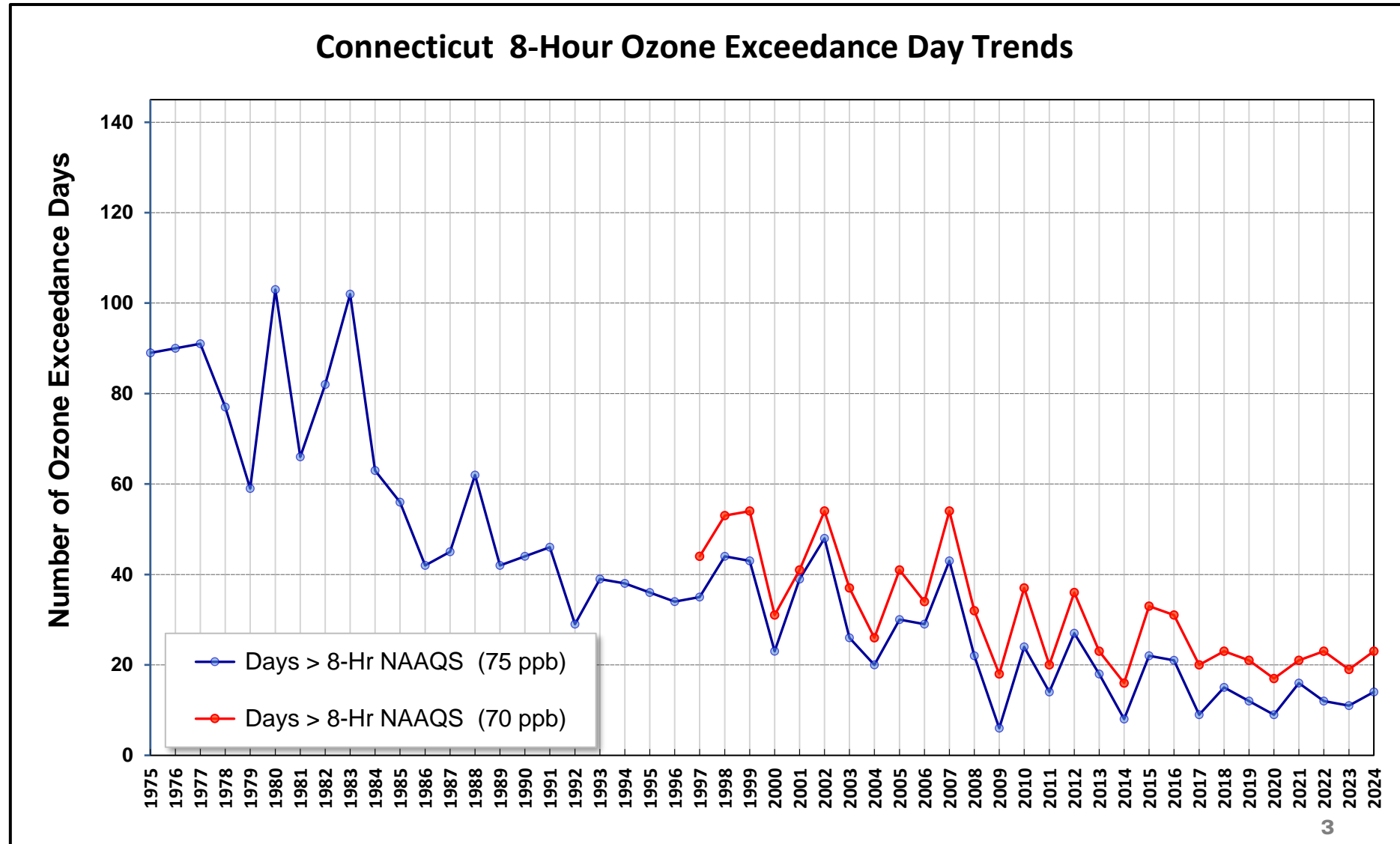


OZONE EXCEEDANCE DAY TRENDS

Exceedance days in recent years (70 ppb):

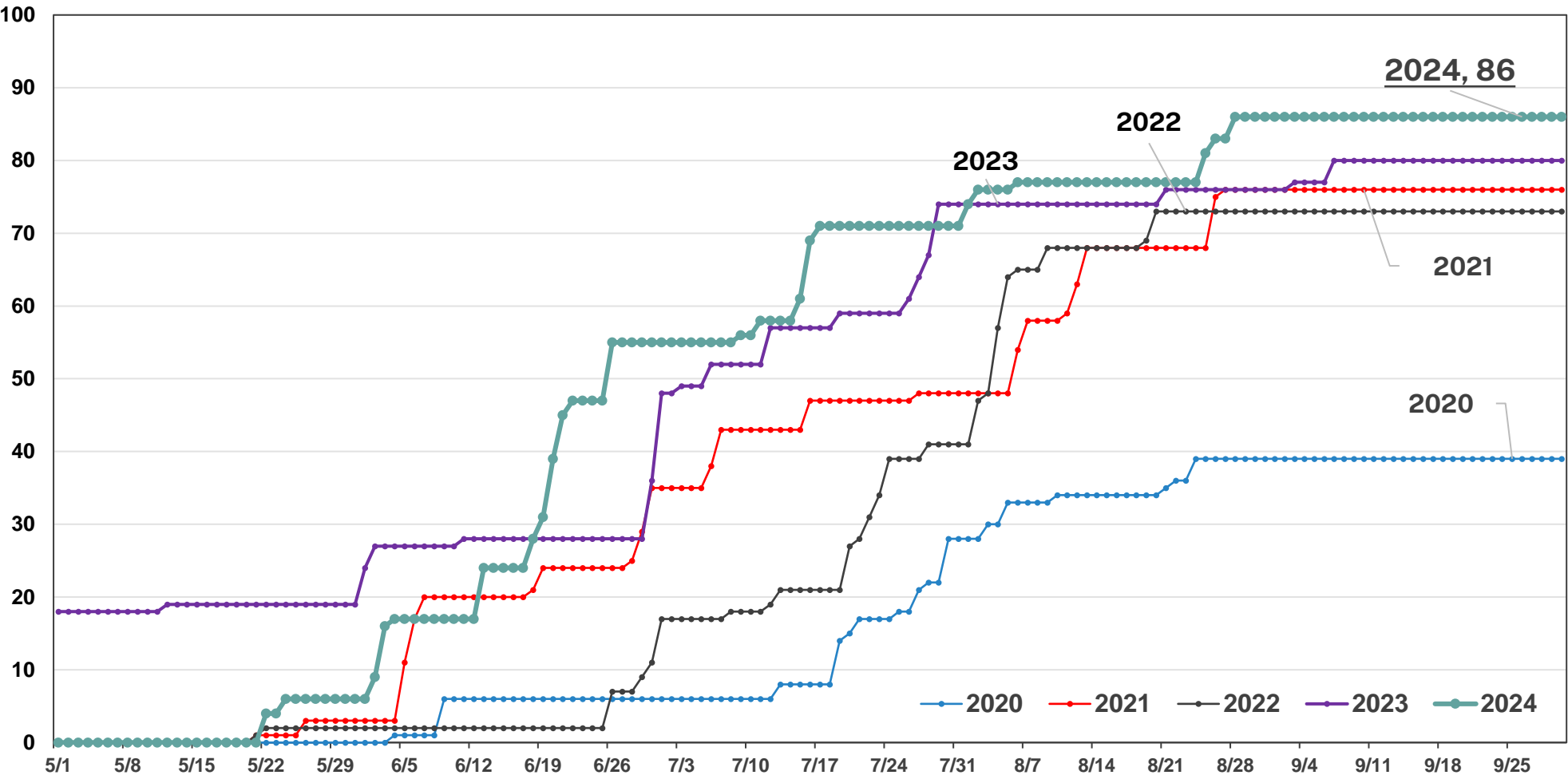
2018 – **23 days**
2019 – **21 days**
2020 – **17 days***
2021 – **21 days**
2022 – **23 days**
2023 – **19 days**
2024 – **23 Days**

CT ended the ozone season with 23 exceedance days.



ACCUMULATED SITE EXCEEDANCES

CT Accumulated Site Exceedances



Site exceedances in recent years:

- 2019 – 78 sites
- 2020 – 39 sites*
- 2021 – 76 sites
- 2022 – 73 sites
- 2023 – 80 sites
- 2024 – 86 sites

2024 OZONE SEASON SUMMARY

Month	May		June										July					August						
Site	22	24	2	3	4	13	18	19	20	21	22	26	9	11	15	16	17	1	2	6	25	26	28	Site Exceedances
Abington	64	61	68	65	44	64	55	55	77	48	31	72	51	61	56	59	54	45	55	25	51	45	49	2
Cornwall	71	59	61	76	61	72	76	72	70	52	M	55	72	45	61	71	55	52	61	36	62	50	48	7
Danbury	75	60	67	61	75	74	78	79	87	59	62	69	69	57	78	78	73	59	58	43	61	53	52	9
East Hartford	72	56	66	66	52	75	72	76	99	53	50	74	66	68	69	72	61	48	57	26	52	46	48	7
Greenwich	59	64	70	71	48	68	58	59	74	85	69	80	59	67	74	81	73	79	69	72	75	71	62	11
Groton	49	73	65	77	39	64	47	49	63	76	49	57	46	58	56	69	55	68	67	29	71	60	78	5
Madison	53	72	68	80	41	69	48	51	69	75	51	64	49	63	66	68	58	69	62	40	74	57	82	5
Middletown	70	62	74	68	49	72	59	65	96	56	50	81	54	74	63	75	59	57	61	36	62	49	54	6
New Haven	64	57	81	77	50	72	43	63	88	78	71	76	55	66	63	74	64	67	76	41	61	59	55	9
Stafford	76	58	64	61	47	72	71	70	88	42	39	72	64	64	68	69	53	43	49	28	50	41	45	5
Stratford	55	64	70	81	42	65	52	51	72	79	65	78	57	70	81	78	66	73	70	52	68	66	72	8
Westport	63	66	77	77	51	72	M	M	M	87	86	82	61	73	68	85	62	82	75	62	73	72	59	12
Site Exceedances	4	2	3	7	1	7	4	3	8	6	2	8	1	2	3	8	2	3	2	1	4	2	3	86
# days > Federal Standard	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	

Good (0-54 ppb)
 Moderate (55-70 ppb)
 Unhealthy for Sensitive Groups (71-85 ppb)
 Unhealthy (86-105 ppb)
 Very Unhealthy (>106 ppb)

There were three ozone exceedance days reaching 'unhealthy' values.

FORECASTED EXCEEDANCE DAYS

Actual Exceedance Days = 23 Forecast Exceedance Days = 10		
Month	Actual Dates	Forecast Dates
May	22, 24	*22
June	2, 3, 4, 13, 18, 19, 20, 21, 22, 26	*4, *14, 18, 19, 20, 21, 22, 26
July	9, 11, 15, 16, 17	7, 8, 9, 15, 16, 17
August	1, 2, 6, 25, 26, 28	*2, 3
September	None	None
Total	23	13

- Of the 23 exceedance days,
1. Forecasted USG for 10 days that exceeded the standard.
 2. Did not forecast USG for 10 days that exceeded the standard.
 3. Forecasted USG for 4 days that did not exceed the standard.
 4. Upgraded our forecast 3 times to accurately inform of USG values

There were more exceedance days (23) during the 2024 season compared to the 2023 season (19).

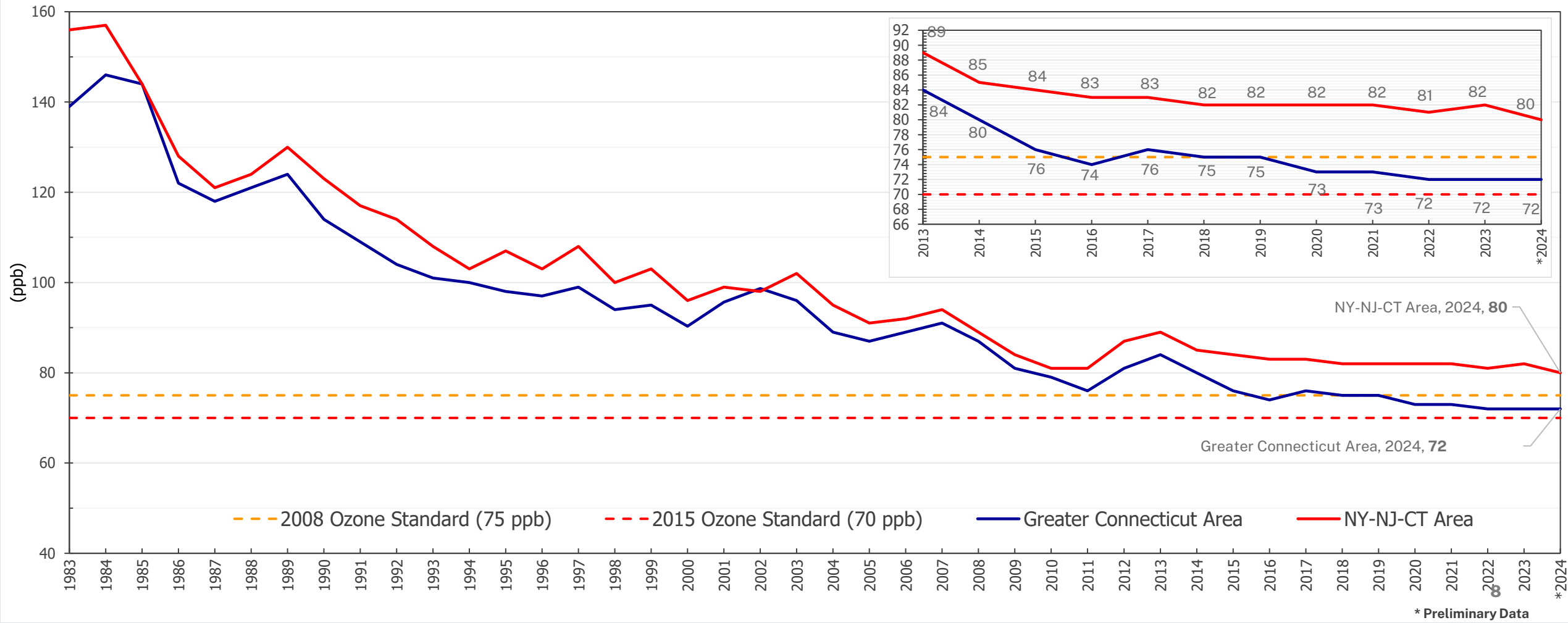
*Upgraded Forecast

2024 PRELIMINARY DESIGN VALUES

		2024 Compliance Status x = Violating NAAQS								
		To Date: Prelim 2024 DV	2015 NAAQS	2008 NAAQS	1997 NAAQS	# Needed to Next NAAQS in Violation (key monitors in each NA are highlighted in RED)				
SWCT Portion of NYC Area	Site Name									
	Danbury	76	X	X		4	more days >	104	ppb day(s) violate the	1997 NAAQS
	Greenwich	79	X	X		4	more days >	96	ppb day(s) violate the	1997 NAAQS
	Madison	76	X	X		4	more days >	100	ppb day(s) violate the	1997 NAAQS
	Middletown	74	X			2	more days >	79	ppb day(s) violate the	2008 NAAQS
	New Haven	72	X			3	more days >	86	ppb day(s) violate the	2008 NAAQS
	Stratford	80	X	X		4	more days >	92	ppb day(s) violate the	1997 NAAQS
	Westport	80	X	X		4	more days >	94	ppb day(s) violate the	1997 NAAQS
Greater CT	Cornwall	69				3	more days >	75	ppb day(s) violate the	2015 NAAQS
	East Hartford	72	X			3	more days >	83	ppb day(s) violate the	2008 NAAQS
	Groton	71	X			4	more days >	85	ppb day(s) violate the	2008 NAAQS
	Stafford	70				2	more days >	74	ppb day(s) violate the	2015 NAAQS
	Abington	64				4	more days >	85	ppb day(s) violate the	2015 NAAQS
Number of Exceedance Days to Date			23			The 1997 standard was repealed with the 2008 Implementation rule. Effective April 6, 2015				

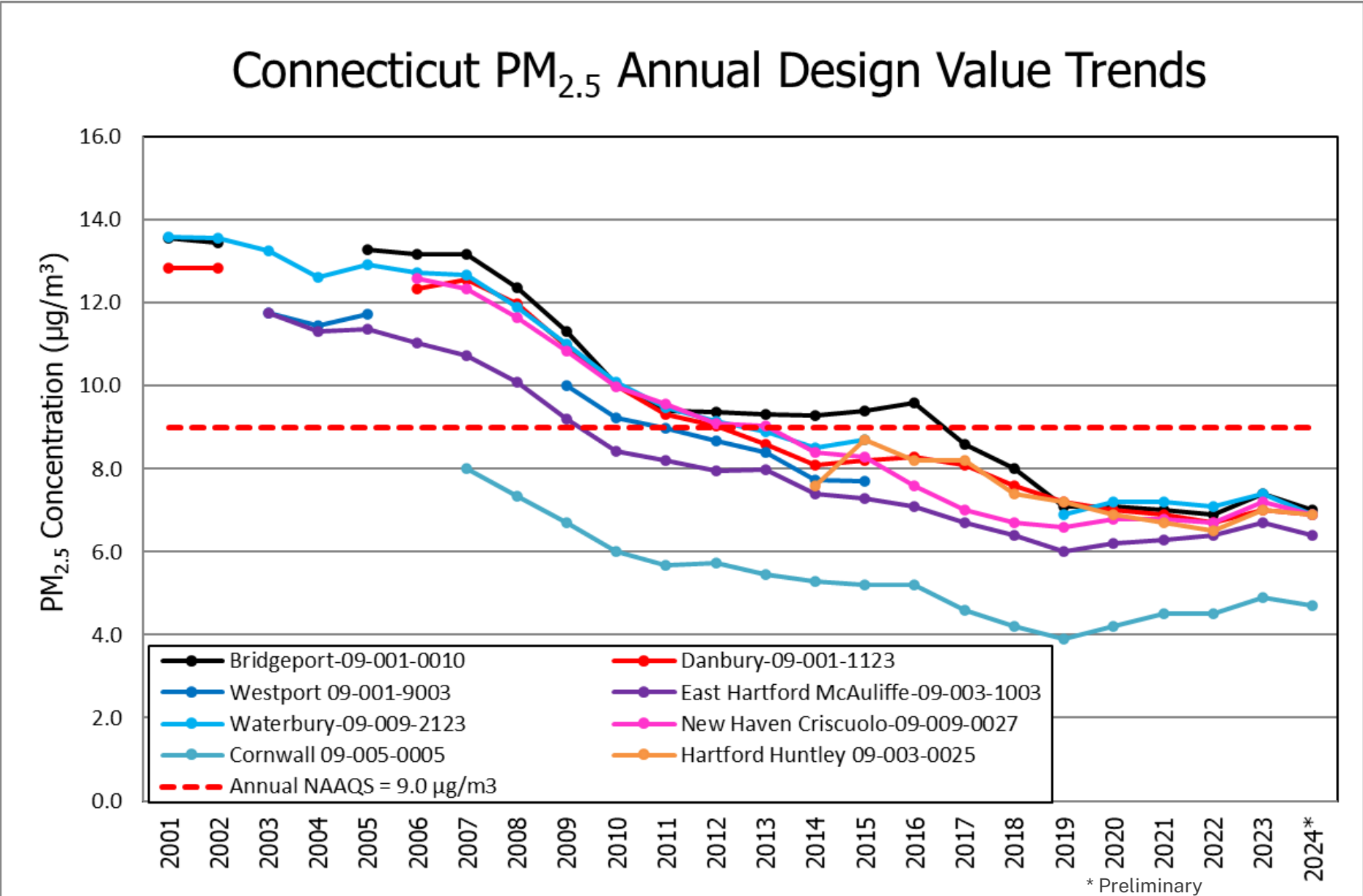
DESIGN VALUE UPDATE

Ozone Design Value Trends
Connecticut's Two Nonattainment Areas



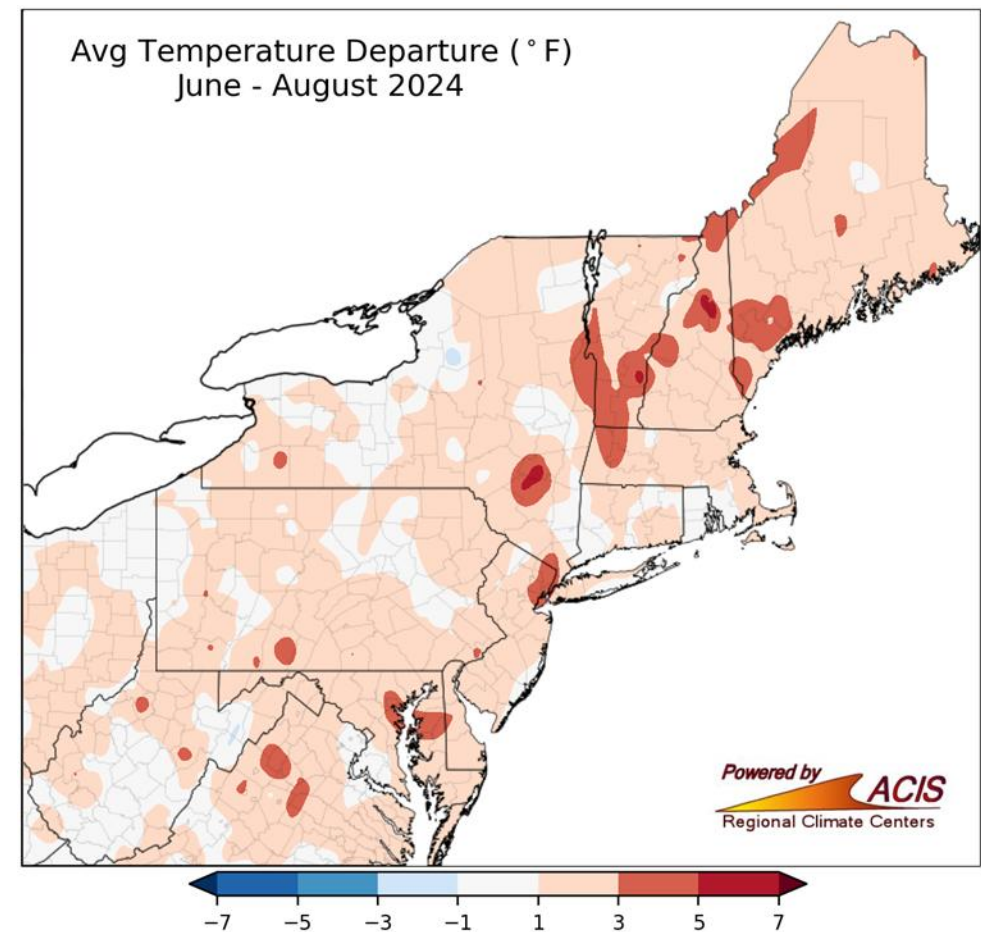
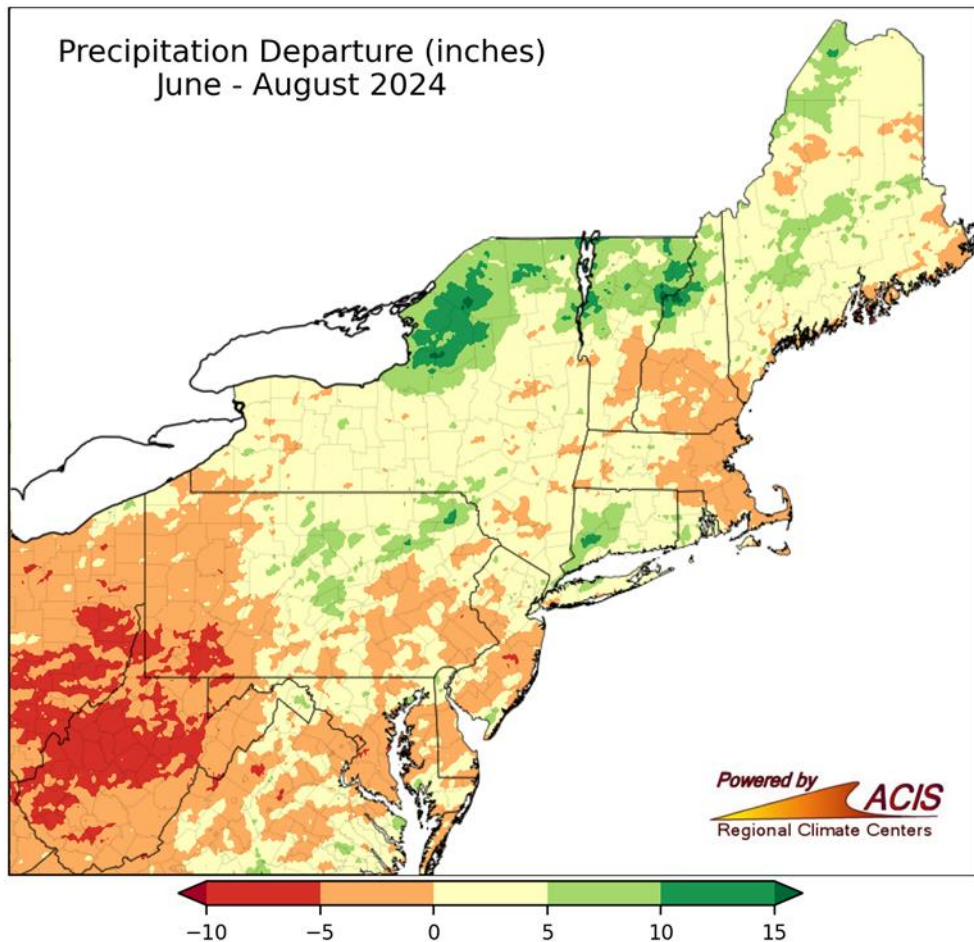
REVISED PM_{2.5} ANNUAL STANDARD

- February 7, 2024, EPA strengthened the PM_{2.5} primary annual standard from 12.0 to 9.0 micrograms per cubic meter (µg/m³).
- Design Values in CT remain compliant with the new standard.



SUMMER 2024 PRECIPITATION & TEMPERATURE SUMMARY

Overall, we had slightly less precipitation and average temperatures.



2024 OZONE SEASON SUMMARY

- **Connecticut had 23 ozone exceedance days in 2024, compared to 19 ozone exceedance days in 2023.**
- **Design values in Southwest Connecticut continue to exceed the 2008 and 2015 standards.**
- **Design Values in Greater CT for two sites exceed the 2015 standard.**
- **More multisite exceedances that were more inclusive of inland sites.**
- **Southwest winds, clear skies, and warm temperatures continue to contribute to ozone exceedances in Connecticut.**

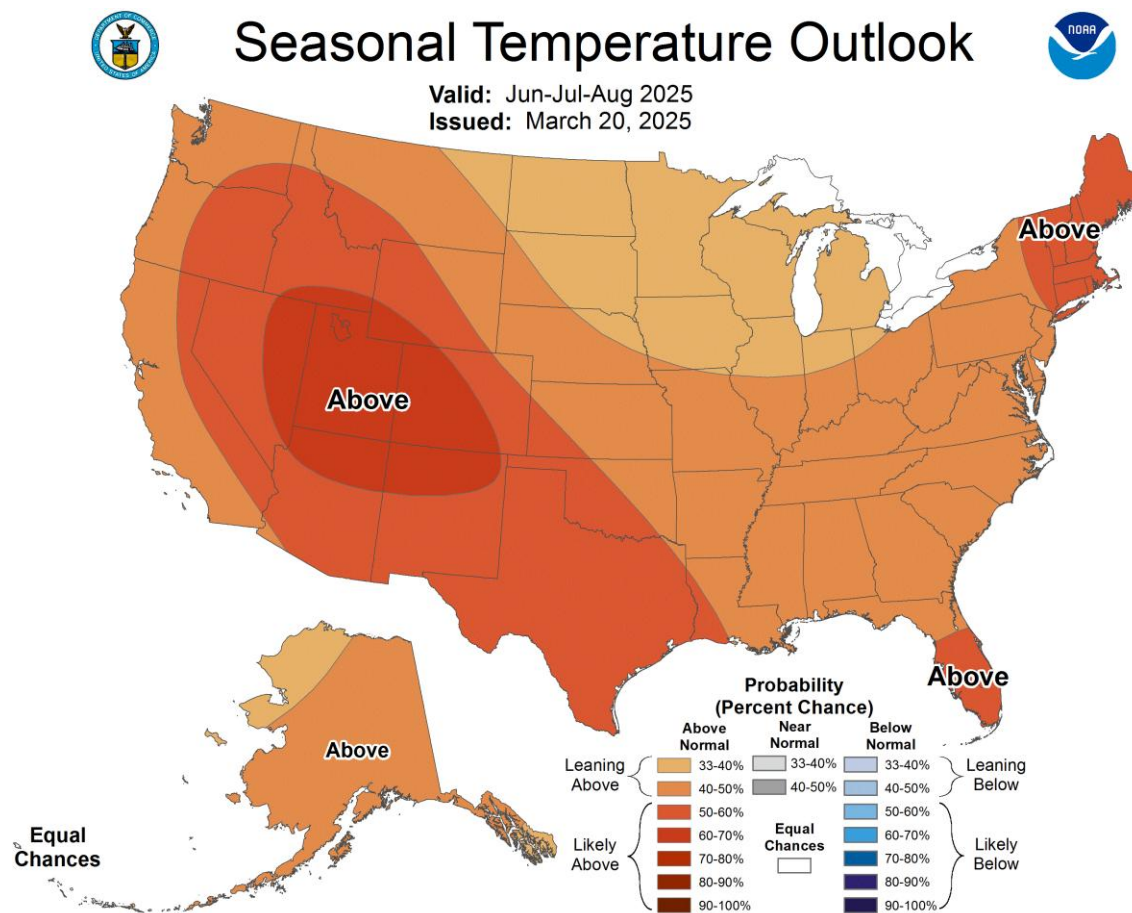
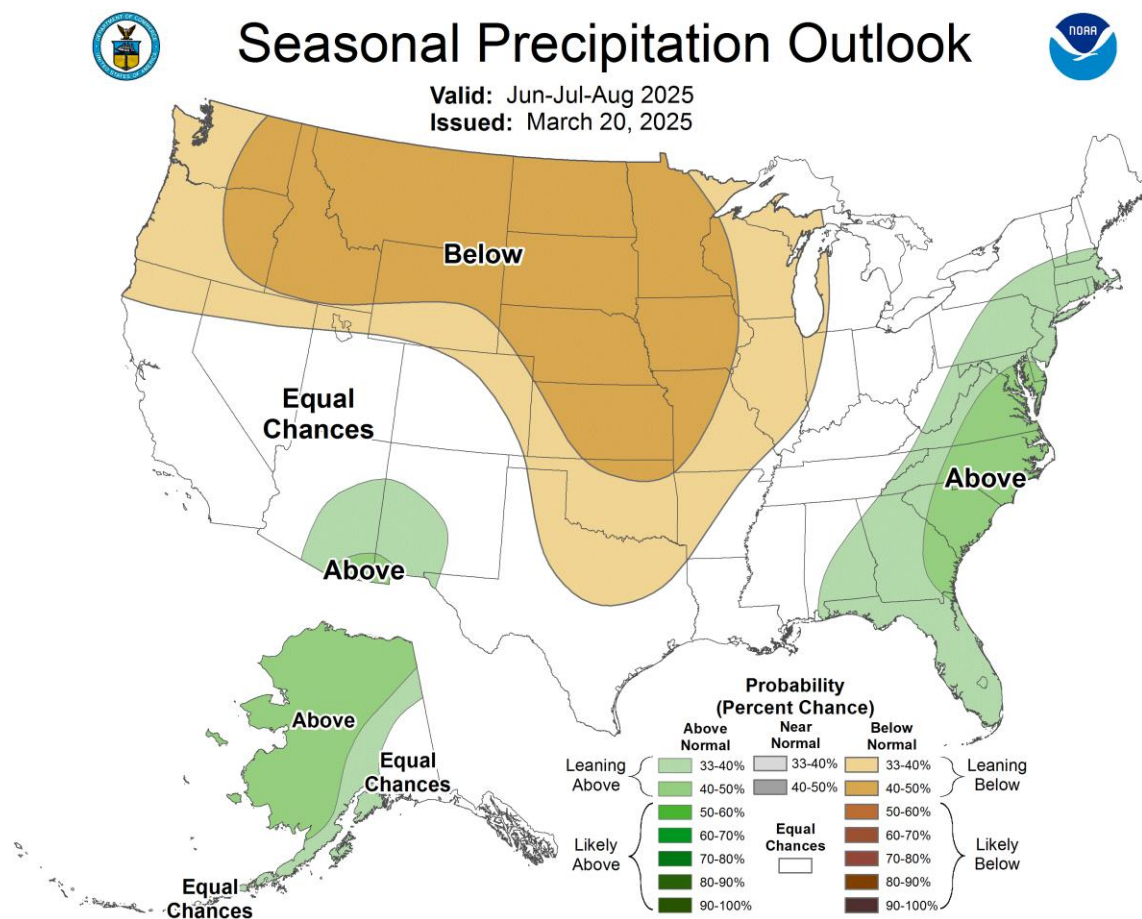


Connecticut
Department of Energy &
Environmental Protection

A LOOK INTO 2025!



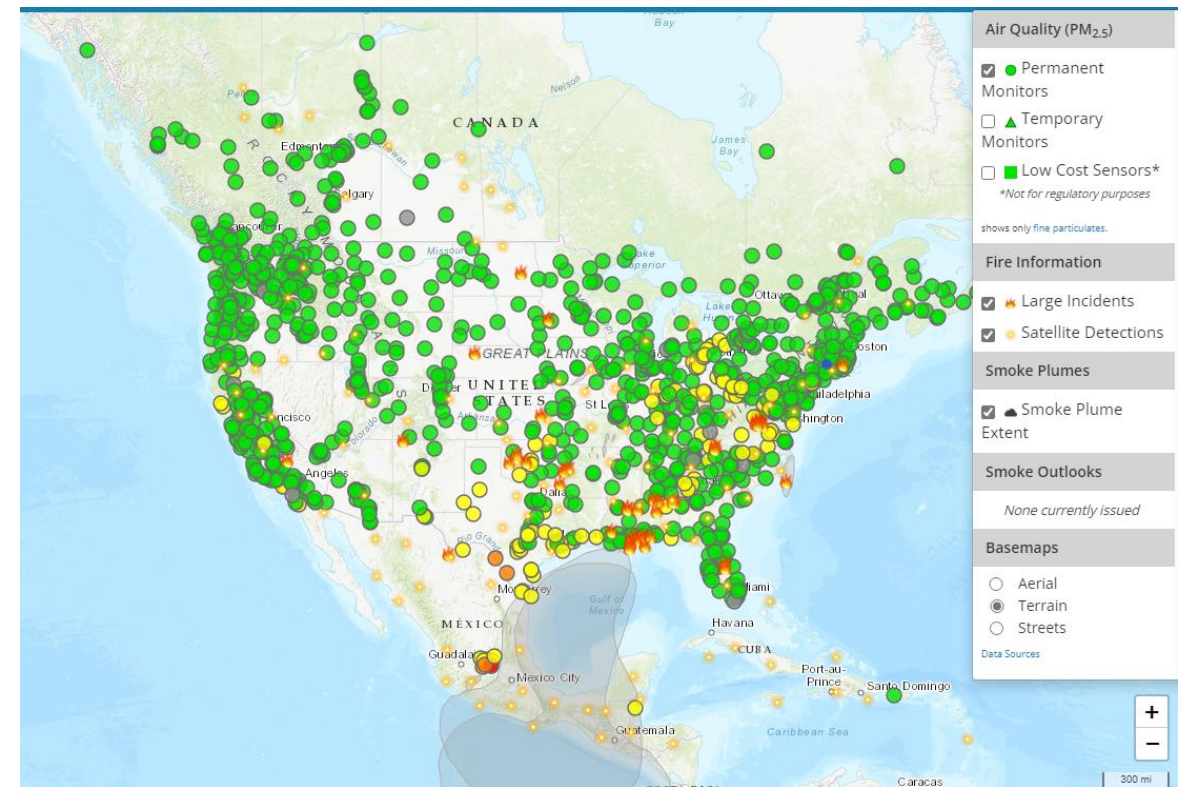
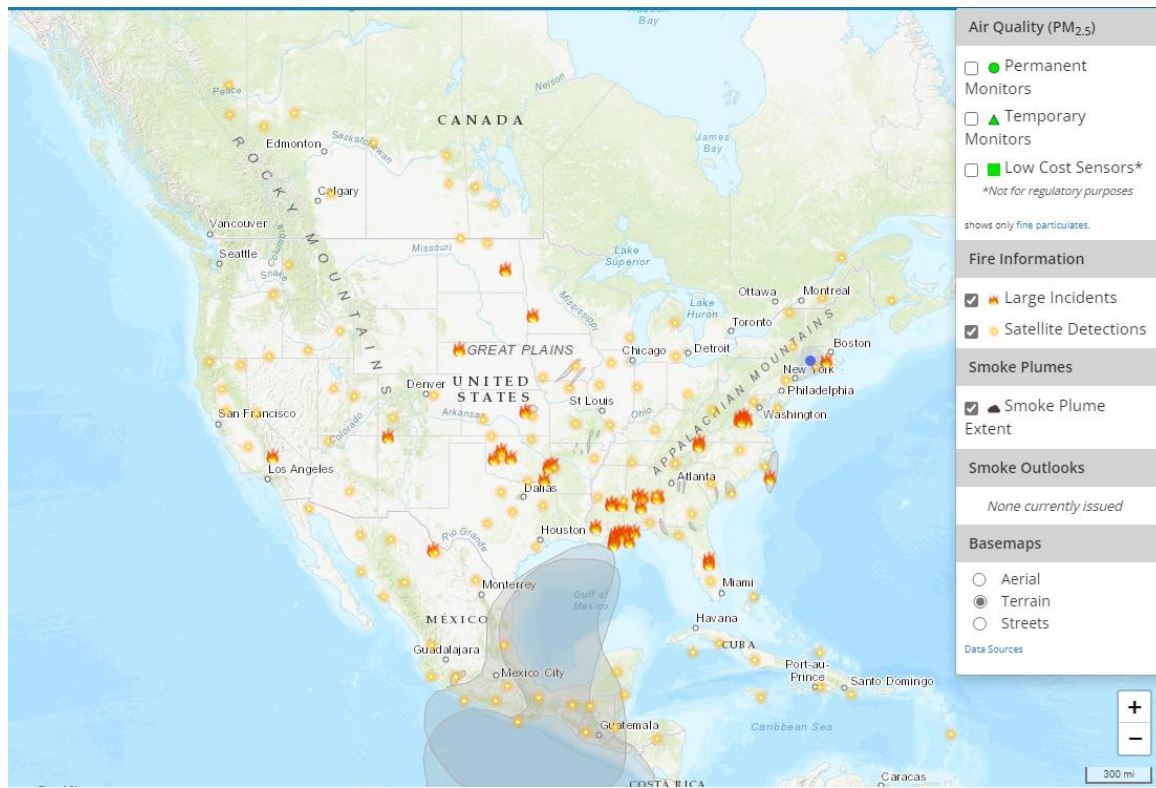
2025 FORECASTED PRECIPITATION & TEMPERATURE



Precipitation is forecasted to be leaning above average, while temperatures are likely above average.

AIR NOW FIRE AND SMOKE MAP

Fire and Smoke Map (airnow.gov)



2025 OZONE FORECASTING SEASON

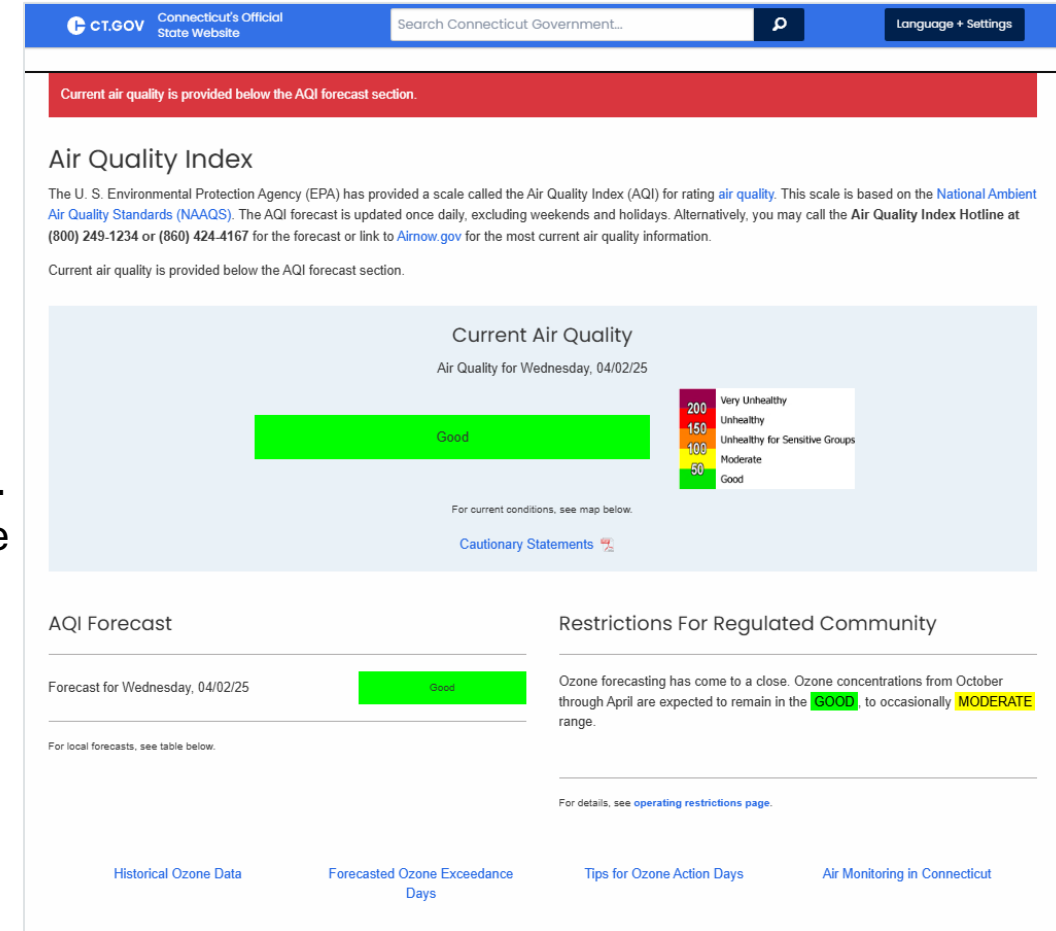
Ozone Forecasting Season is May 1- Sept 30.

CTDEEP forecasts are available through:

1. Campaign Monitor emails
2. [CTDEEP AQI web page](#)
3. EPA Airnow forecasts

Receive notices of Daily AQI:

- [EnviroFlash](#) - Subscribe to receive air quality information by e-mail.
- Subscribe to the [DEEP Air Quality Forecast](#) to receive a daily ozone forecast between May 1 through September 30, and a daily PM2.5 forecast year-round.
- Subscribe to the [DEEP Ozone Forecast](#) to receive a daily 8-hour ozone forecast that is disseminated to Connecticut's regulated community from May 1 through September 30.



New AQI Webpage!

REMINDERS FOR AN OZONE ACTION DAY

Drive Less

- Walk or ride a bicycle
- Use public transportation
- Join a carpool or vanpool
- Telecommute
- Combine errands



Around the House

- Set air conditioners to 78°
- Select water based paint
- Wait until 8 to use energy intensive appliances
- Use energy efficient products
- Buy environmentally friendly cleaners



Drive Clean

- Consider purchasing or leasing a plug in electric vehicle
- Tune your car regularly
- Avoid idling your vehicle unnecessarily
- Test vehicle emissions on time

In the Yard

- Use electric or hand powered equipment
- Reduce use of garden chemicals
- Delay mowing your lawn or using gas powered equipment until evening
- Refrain from recreational wood burning



Be a Smart Driver

- Refuel your vehicle after dusk
- Stop refueling when the nozzle clicks off
- Drive at fuel saving, moderate speeds

