



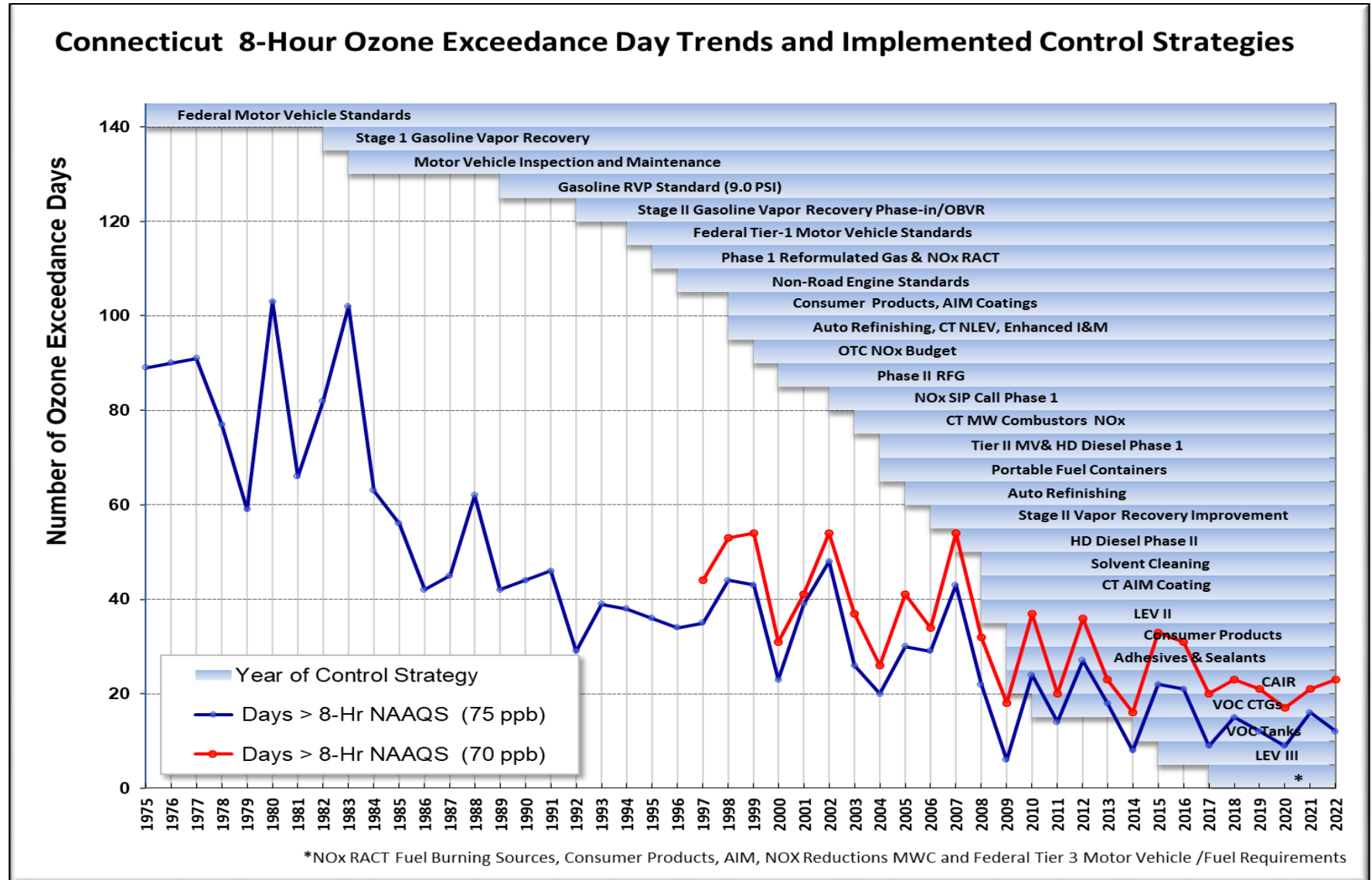
2022 OZONE SEASON REVIEW AND A LOOK INTO 2023

Presented by: Daniella Lopez, EA2, Planning and Standards
Bureau of Air Management

2022 OZONE SEASON: 23 EXCEEDANCE DAYS

Exceedance days in recent years (70 ppb):

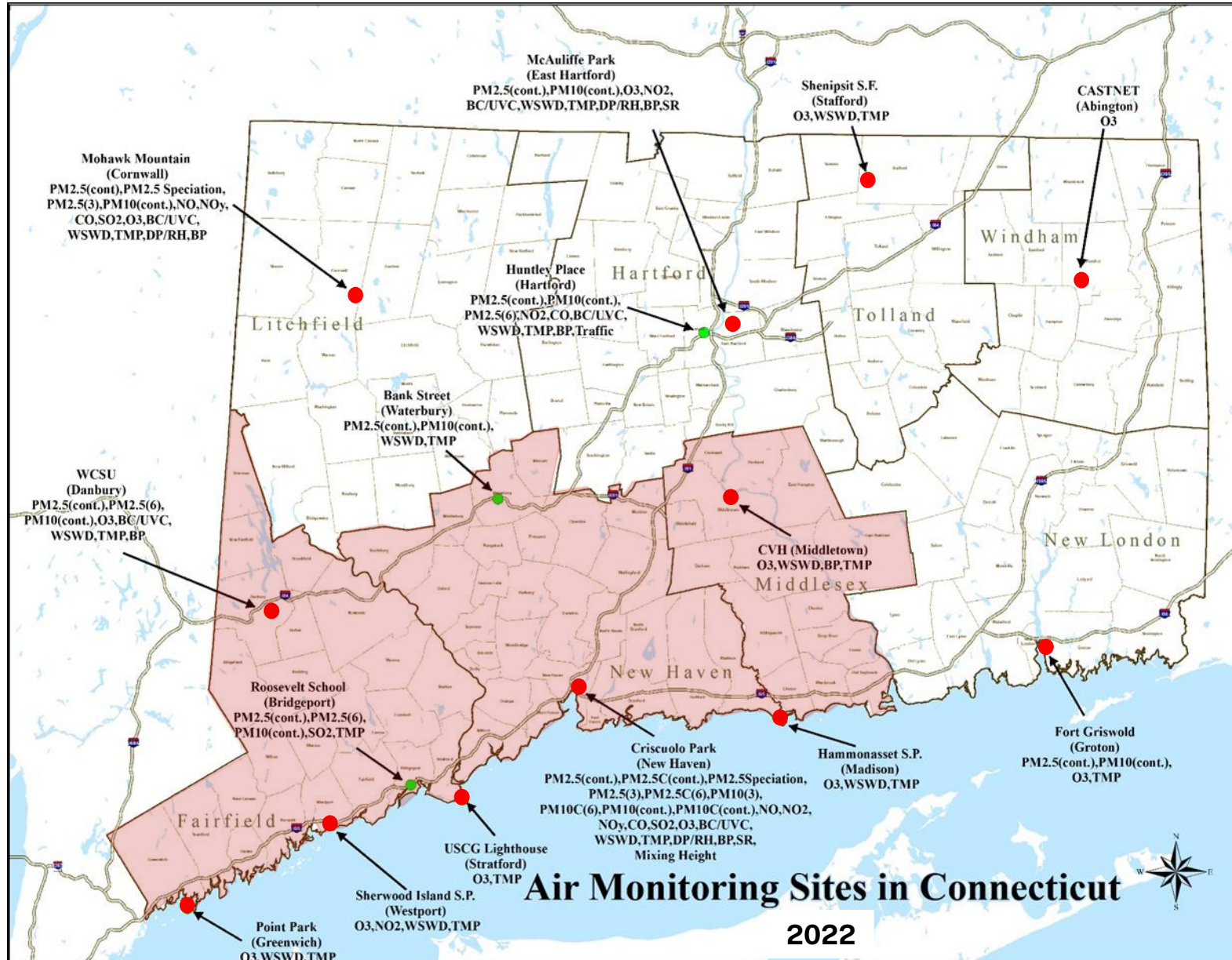
- 2017 – 20 days
- 2018 – 23 days
- 2019 – 21 days
- 2020 – 17 days*
- 2021 – 21 days
- 2022 – 23 days



*Exceedances effected by COVID

CONNECTICUT'S MONITORING SITES

- Ozone specific monitors
- NY-NJ-CT area



2022 OZONE SEASON SUMMARY

Month	May		June			July										August								
Site	21	22	26	29	30	1	8	12	13	20	21	22	23	24	28	2	3	4	5	6	9	19	20	Exceedances
Abington	54	61	61	53	54	61	50	47	44	52	50	60	58	68	50	53	48	68	64	57	51	55	64	0
Cornwall	71	53	67	59	66	68	45	67	41	58	65	58	58	61	70	49	57	71	57	66	45	63	73	3
Danbury	67	58	71	60	61	75	54	72	65	63	76	55	62	64	75	55	57	76	54	73	49	61	69	7
East Hartford	62	63	74	58	52	81	45	61	41	55	54	57	56	63	58	54	47	77	75	70	46	57	69	4
Greenwich	58	65	70	71	73	75	57	54	76	85	67	74	73	64	75	77	74	79	62	63	61	72	76	13
Groton	40	46	64	54	59	55	43	40	58	72	43	59	65	73	47	63	41	56	71	57	73	54	57	4
Madison	51	56	65	60	63	57	53	45	62	78	49	65	65	77	53	76	47	68	72	55	77	56	62	5
Middletown	60	66	70	65	60	74	71	52	59	61	59	70	67	71	56	73	55	84	80	64	56	60	64	6
New Haven	46	64	72	64	58	60	67	38	66	72	48	69	68	42	56	71	56	77	80	65	55	59	66	5
Stafford	63	62	67	56	M	74	44	57	39	50	49	55	55	61	48	52	44	77	68	65	43	54	68	2
Stratford	55	69	74	70	68	64	66	49	69	86	57	76	71	74	66	82	58	81	85	65	73	66	72	10
Westport	65	71	82	71	71	73	62	52	73	82	60	73	74	73	65	80	69	81	88	70	61	68	76	14
Site Exceedances	1	1	5	2	2	6	1	1	2	6	1	3	3	5	2	6	1	9	7	1	3	1	4	73
# 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 two ozone exceedance days reaching 'unhealthy' spread throughout July and August.

FORECASTED EXCEEDANCE DAYS

Actual Exceedance Days = 23
 Forecast Exceedance Days = 16

Month	Actual Dates	Forecast Dates
May	21 & 22	21
June	26, 29, & 30	25 & 26
July	1, 8, 12, 13, 20, 21, 22, 23, 24, & 28	1, 20, 21, 22, 23, 24 & 27
August	2, 3, 4, 5, 6, 9, 19, & 20	2, 4, 5, 9, 20, & 23
September	None	None
Total	23	16

- Of the 23 exceedance days,
1. Forecasted USG for 13 days that exceeded the standard.
 2. Did not forecast USG for 10 days that exceeded the standard.
 3. Forecasted USG for 3 days that did not exceed the standard.

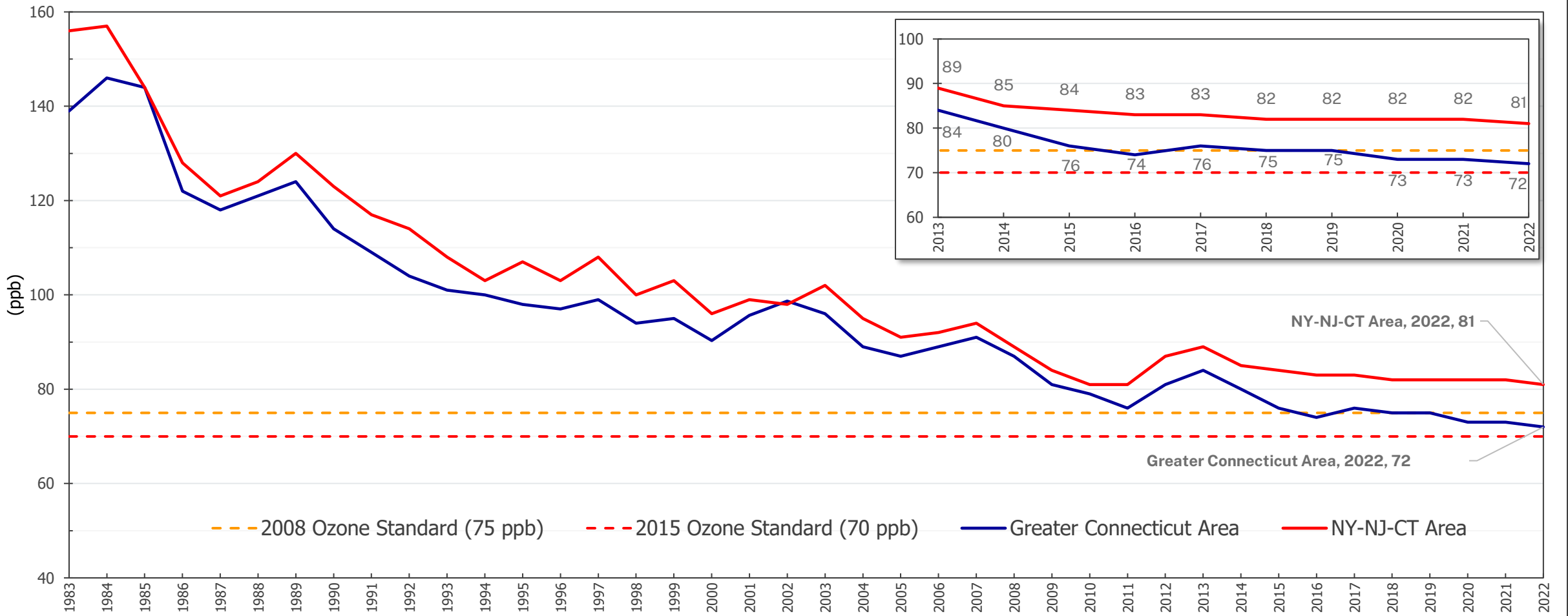
All of the under-predicted days featured one or two sites that barely exceeded the standard.

There were a lot of days with ozone values very close to the 70 ppb standard.

2022 DESIGN VALUES

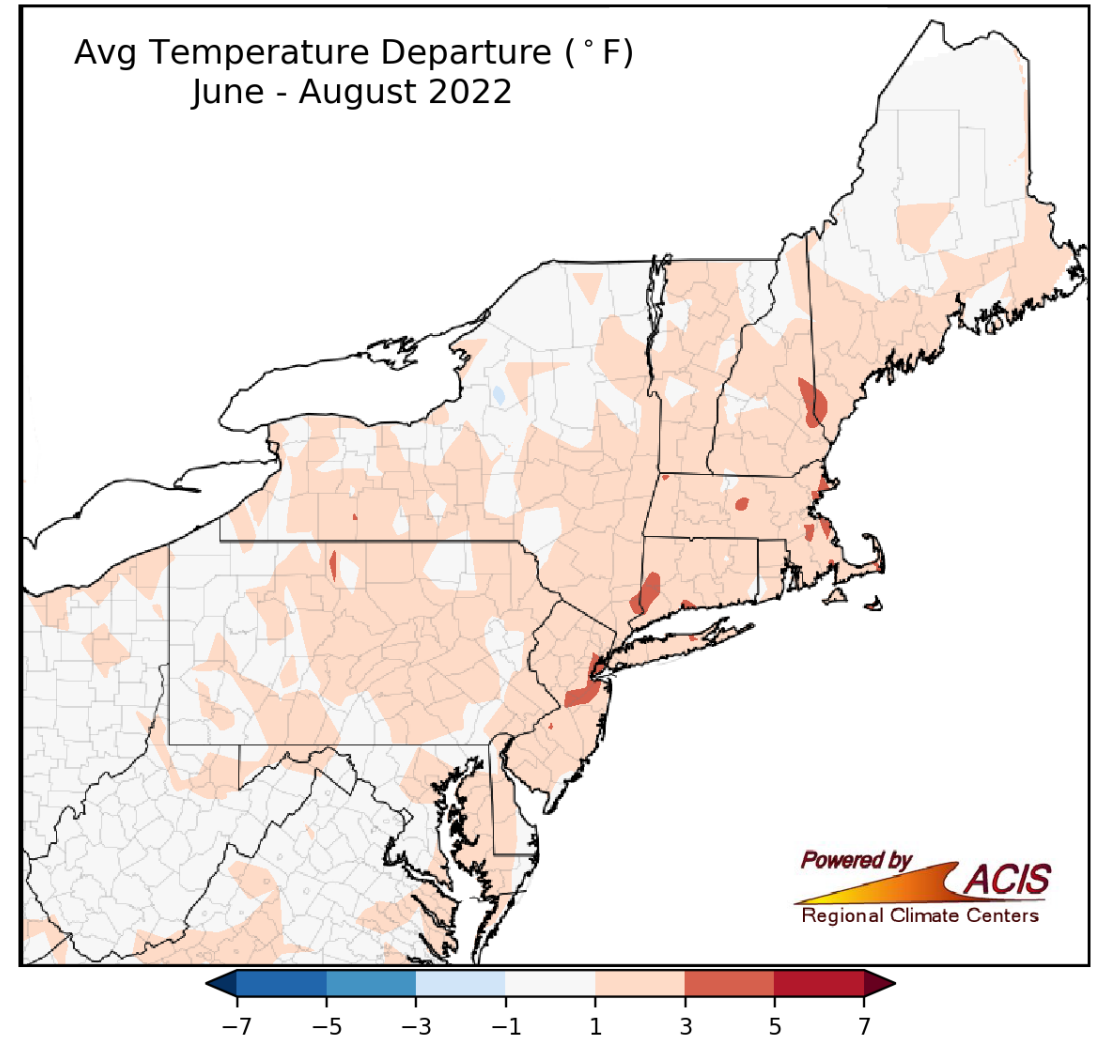
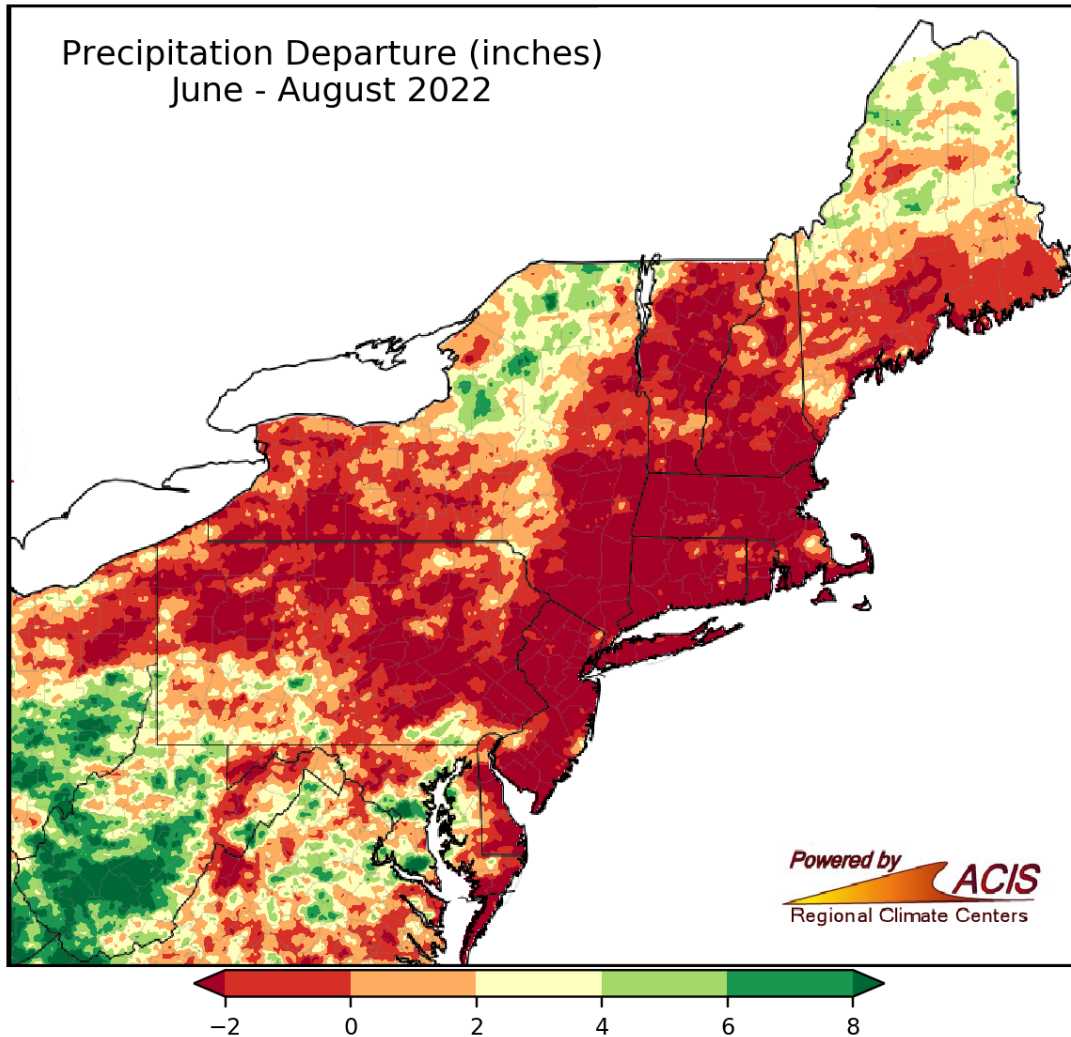
		2022 Compliance Status								
		x = Violating NAAQS								
		To Date: Prelim 2022 DV	2015 NAAQS	2008 NAAQS	1997 NAAQS	# Needed to Next NAAQS in Violation (key monitors in each NA are highlighted in RED)				
Site Name										
SWCT Portion of NYC Area	Danbury	71	X			4	more days >	89	ppb day(s) violate the	2008 NAAQS
	Greenwich	77	X	X		4	more days >	99	ppb day(s) violate the	1997 NAAQS
	Madison	79	X	X		4	more days >	91	ppb day(s) violate the	1997 NAAQS
	Middletown	73	X			3	more days >	80	ppb day(s) violate the	2008 NAAQS
	New Haven	70				2	more days >	73	ppb day(s) violate the	2015 NAAQS
	Stratford	81	X	X		4	more days >	92	ppb day(s) violate the	1997 NAAQS
	Westport	80	X	X		4	more days >	95	ppb day(s) violate the	1997 NAAQS
Greater CT	Cornwall	67				4	more days >	81	ppb day(s) violate the	2015 NAAQS
	East Hartford	68				4	more days >	82	ppb day(s) violate the	2015 NAAQS
	Groton	72	X			4	more days >	81	ppb day(s) violate the	2008 NAAQS
	Stafford	66				4	more days >	82	ppb day(s) violate the	2015 NAAQS
	Abington	64				4	more days >	82	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					

Ozone Design Value Trends Connecticut's Two Nonattainment Areas



SUMMER 2022 PRECIPITATION & TEMPERATURE SUMMARY

Overall, we had less precipitation and slightly warmer temperatures.



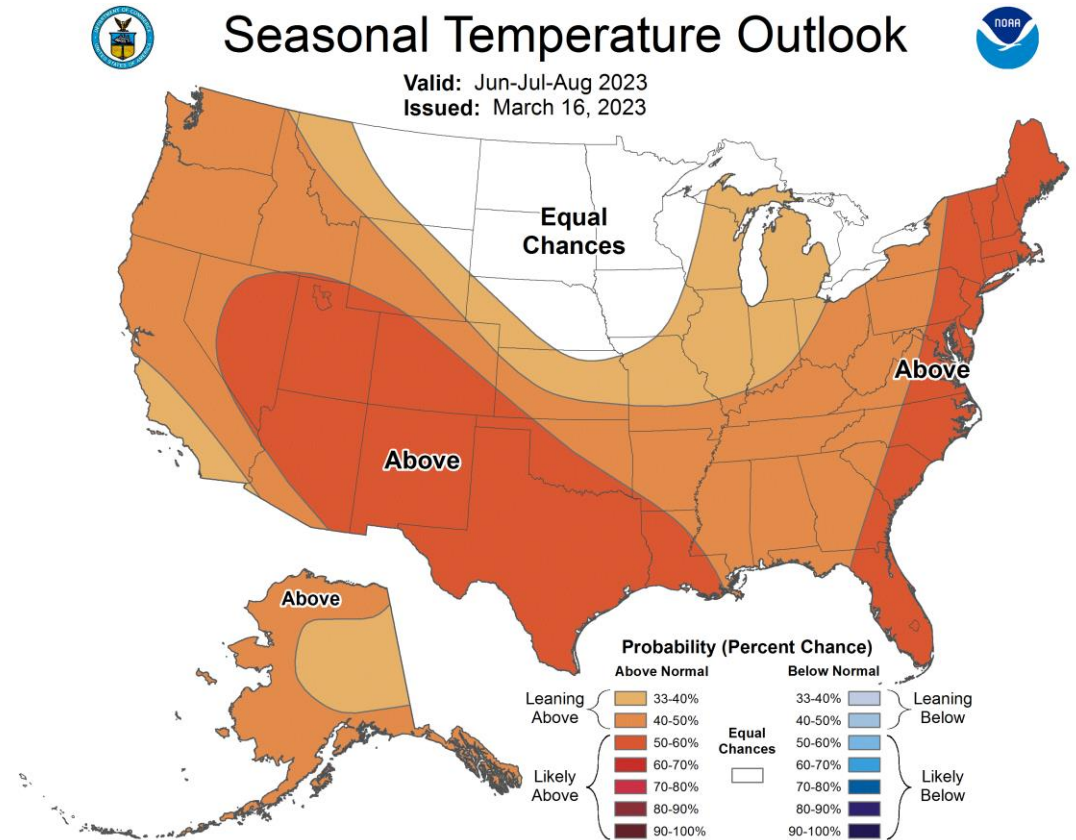
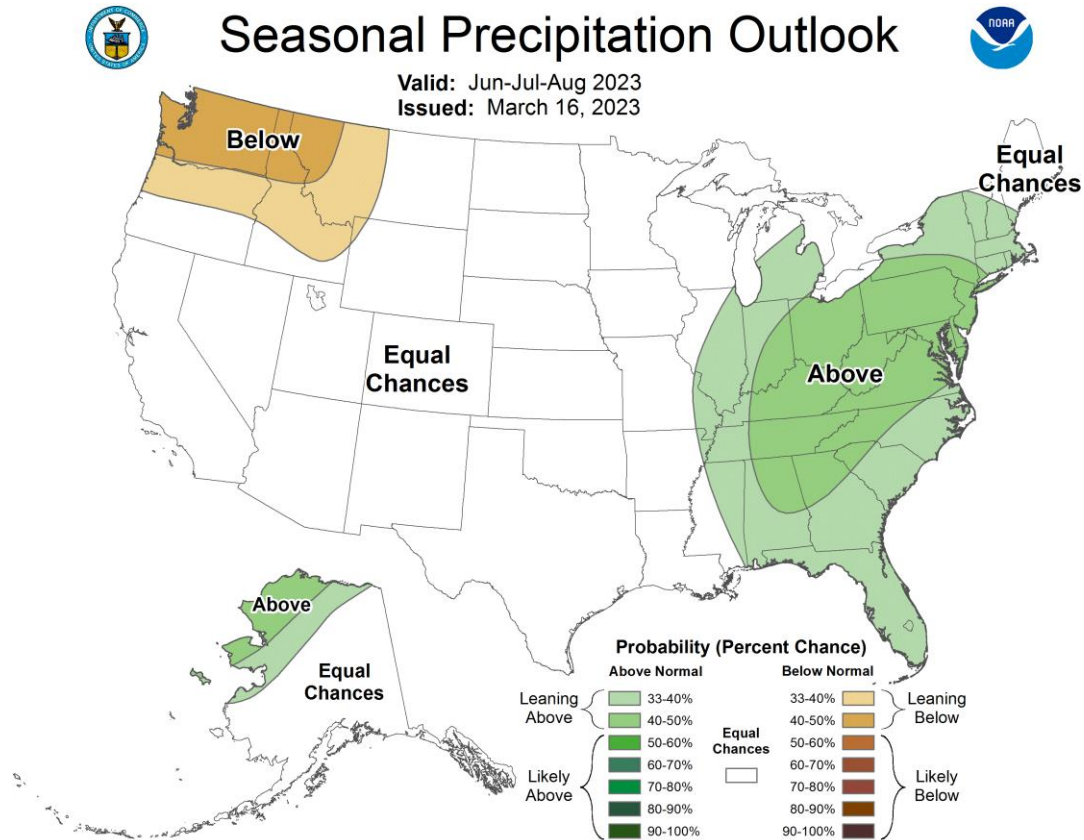
2022 OZONE SEASON SUMMARY

- **Connecticut had 23 ozone exceedance days in 2022, compared to 21 ozone exceedance days in 2021.**
- **Design values in Southwest Connecticut continue to exceed the 2008 and 2015 standards.**
- **Design values for Greater Connecticut exceed the 2015 standard; we maintain our clean data designation for the 2008 standard.**
- **Connecticut had two 5-Day ozone events, with many other single day events featuring one or two sites barely exceeding.**
- **Connecticut had a slightly warmer and significantly drier summer than 2021.**

A LOOK INTO 2023!



2023 FORECASTED PRECIPITATION & TEMPERATURE



Precipitation is forecasted to be slightly above average, while temperatures will be above average

2023 OZONE FORECASTING SEASON


Ozone Forecasting Season is May 1- Sept 30.


CTDEEP forecasts are available through:

1. List-server emails
2. Phone messaging
3. [CTDEEP AQI web page](#)
4. EPA Airnow forecasts

Receive notices of Daily AQI:

- [EnviroFlash](#) - Subscribe to receive air quality information by e-mail.
- [Twitter](#) - Follow the air quality forecasts.
- Subscribe to the [DEEP Air Quality Information listserv](#) 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 listserv](#) to receive a daily 8-hour ozone forecast that is disseminated to Connecticut’s regulated community from May 1 through September 30.

 **CT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION**


AQI
AIR QUALITY INDEX

Friday, September 30, 2022

Thursday's Forecasted Air Quality	G	
Friday's Forecasted Air Quality	G	

**Predicted Daily Maximums for
Friday, September 30, 2022**

Town	8-Hour Ozone		Particulate Matter	
	AQI Value	Air Quality	AQI Value	Air Quality
Bridgeport			38	G
Cornwall	27	G	21	G
Danbury	31	G	29	G
East Hartford	28	G	33	G
Greenwich	32	G		
Groton	29	G	25	G
Madison	30	G		
Middletown	28	G		
New Haven	30	G	29	G
Stafford	25	G		
Stratford	31	G		
Waterbury			38	G
Westport	32	G		

Air Quality Index (AQI) value of 100 = Federal Health Standard

Air Quality Index Value	Air Quality Descriptor
0 - 50	(G) Good
51 - 100	(M) Moderate
101 - 150	(USG) Unhealthy For Sensitive Groups
151 - 200	(U) Unhealthy
201 - 300	(VU) Very Unhealthy

DEEP's Air Quality Index: (860) 424-4167 or (800) 249-1234
State clean air programs: (800) 249-1234
Connecticut Department of Energy and Environmental Protection
79 Elm Street, Hartford, CT 06106-5127

If you have questions about the Air Quality Forecast, call (860) 424-3027

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



AIR QUALITY AWARENESS WEEK 2023

When

May 1st – May 5th



Where

[Air Quality Awareness Week | US EPA](#)

Theme

“Working Together for Clean Air”

Daily Topics!



Monday

Wildfires and Smoke



Wednesday

Air Quality and Transportation



Tuesday

Asthma and Your Health

Friday

Participatory Science



Thursday

Air Quality and Climate