

# SIPRAC Ozone Update

## Summer 2020

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# Ozone Exceedance Days

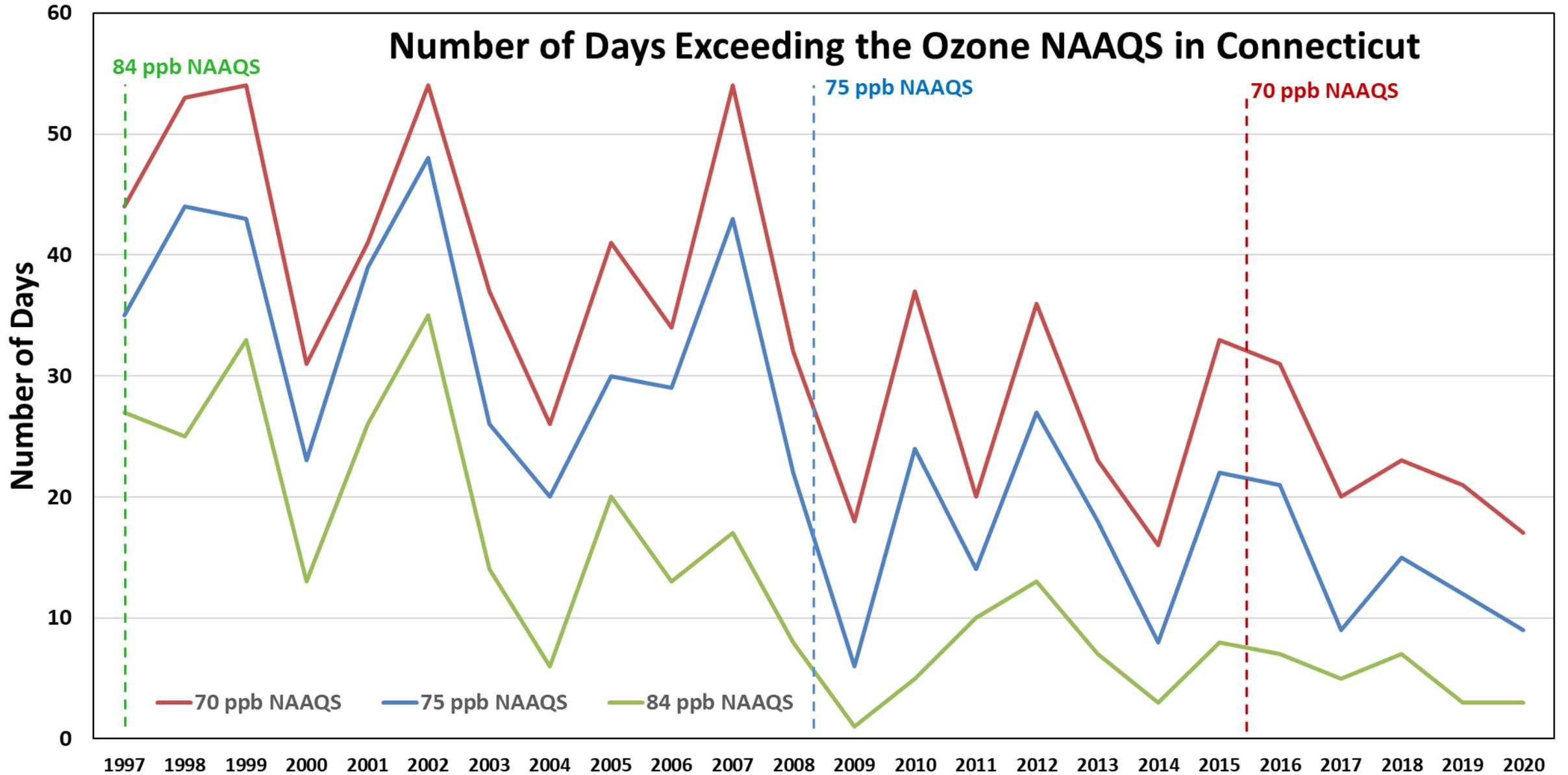
2020		July										August					
Site	June	13	19	20	21	25	26	27	28	30	3	5	10	21	22	24	
Abington	62 58	48	65	46	42	45	44	60	47	55	49	M	M	65	49	45	
Cornwall	63 65	39	60	44	43	44	47	57	43	53	46	M	53	59	48	49	
Danbury	63 71	43	67	46	46	59	48	53	47	54	46	48	68	57	50	52	
East Hartford	68 65	50	69	46	45	48	47	53	44	55	44	48	54	62	52	48	
Greenwich	75 83	58	81	61	77	M	55	68	59	90	64	67	M	63	64	74	
Groton	60 57	71	66	65	55	60	65	76	70	94	65	77	65	63	66	50	
Madison	67 71	75	71	75	66	71	71	88	80	95	72	85	M	68	71	65	
Middletown	69 68	61	79	52	51	56	50	60	52	59	52	57	69	71	57	55	
New Haven	67 60	63	82	59	65	59	52	58	48	76	47	66	52	42	62	78	
Stafford	68 M	50	66	43	40	42	44	52	44	53	44	50	54	59	49	52	
Stratford	69 73	69	83	66	65	67	65	80	66	87	74	76	71	68	68	73	
Westport	69 73	58	83	60	72	77	56	73	60	77	70	M	M	61	59	68	
# days > Federal Standard	1 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	

Only 2 days in July reached 'code red' ozone

# Design Value Update

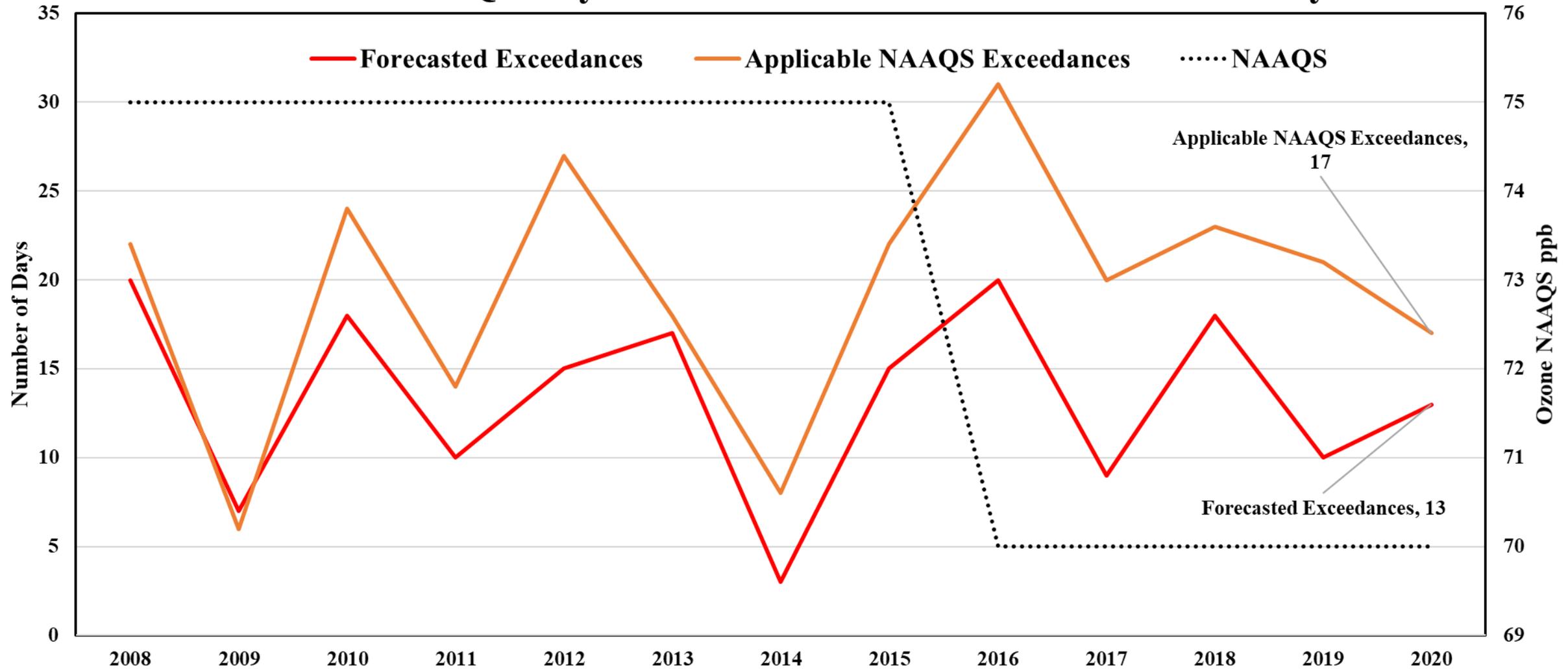
	Site Name	To Date: Prelim 2020 DV	2015 NAAQS	2008 NAAQS	1997 NAAQS	# Needed to Next NAAQS in Violation (key monitors in each NA are highlighted in <b>RED</b> )				
SWCT Portion of NYC Area	Danbury	71	X			4	more days >	80	ppb day(s) violate the	2008 NAAQS
	Greenwich	82	X	X		3	more days >	84	ppb day(s) violate the	1997 NAAQS
	Madison	80	X	X		3	more days >	93	ppb day(s) violate the	1997 NAAQS
	Middletown	74	X			3	more days >	74	ppb day(s) violate the	2008 NAAQS
	New Haven	72	X			2	more days >	77	ppb day(s) violate the	2008 NAAQS
	Stratford	80	X	X		4	more days >	89	ppb day(s) violate the	1997 NAAQS
	Westport	79	X	X		4	more days >	89	ppb day(s) violate the	1997 NAAQS
Greater CT	Cornwall	65				4	more days >	79	ppb day(s) violate the	2015 NAAQS
	East Hartford	67				4	more days >	73	ppb day(s) violate the	2015 NAAQS
	Groton	73	X			3	more days >	78	ppb day(s) violate the	2008 NAAQS
	Stafford	69				4	more days >	68	ppb day(s) violate the	2015 NAAQS
	Abington	66				4	more days >	75	ppb day(s) violate the	2015 NAAQS
Number of Exceedance Days to Date			17			<a href="#">The 1997 standard was repealed with the 2008 Implementation rule. Effective April 6, 2015</a>				

# Exceedance Day Trend Chart

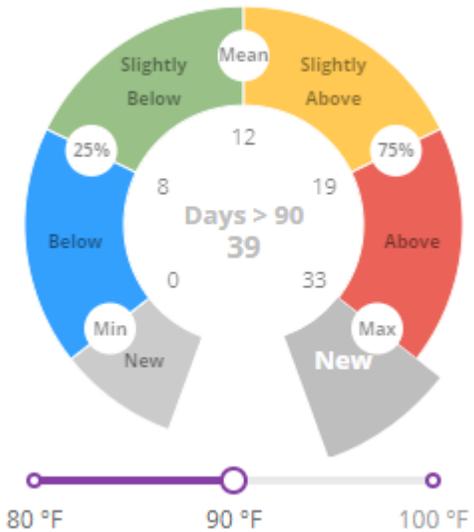
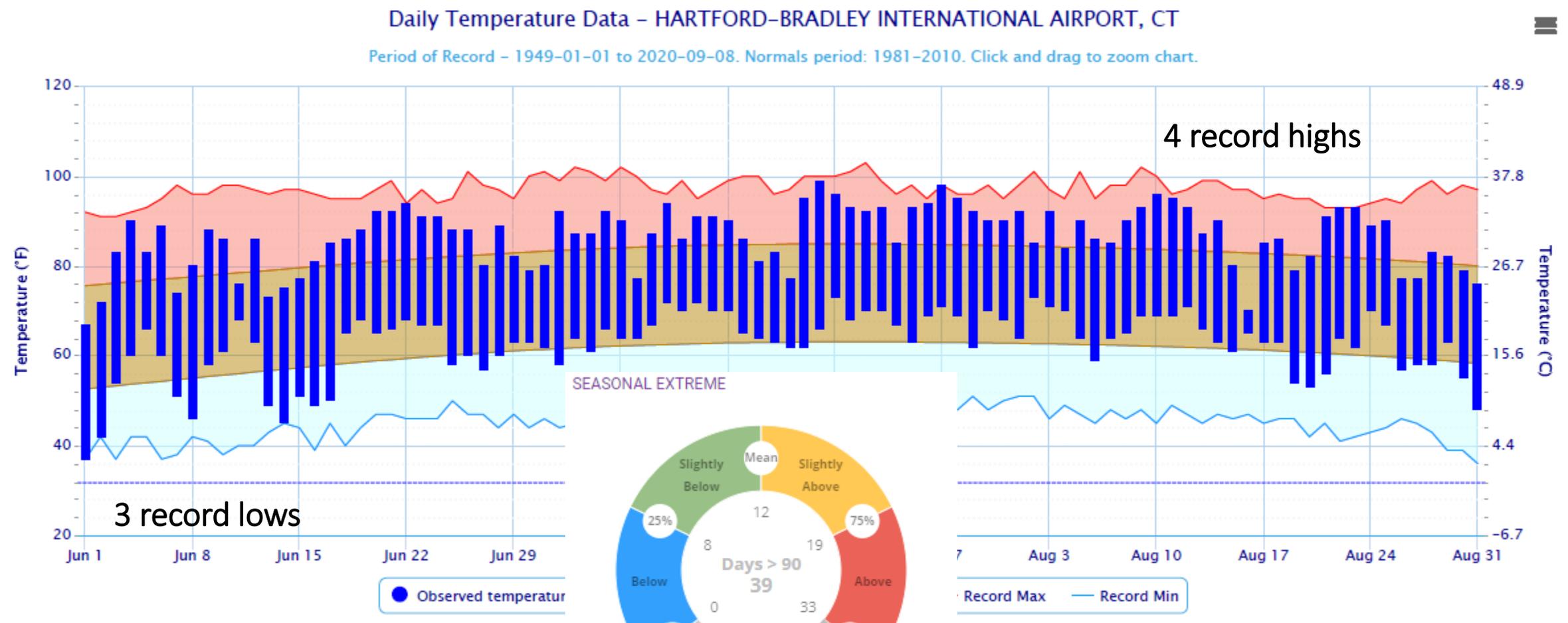


# Forecasted Exceedance Days

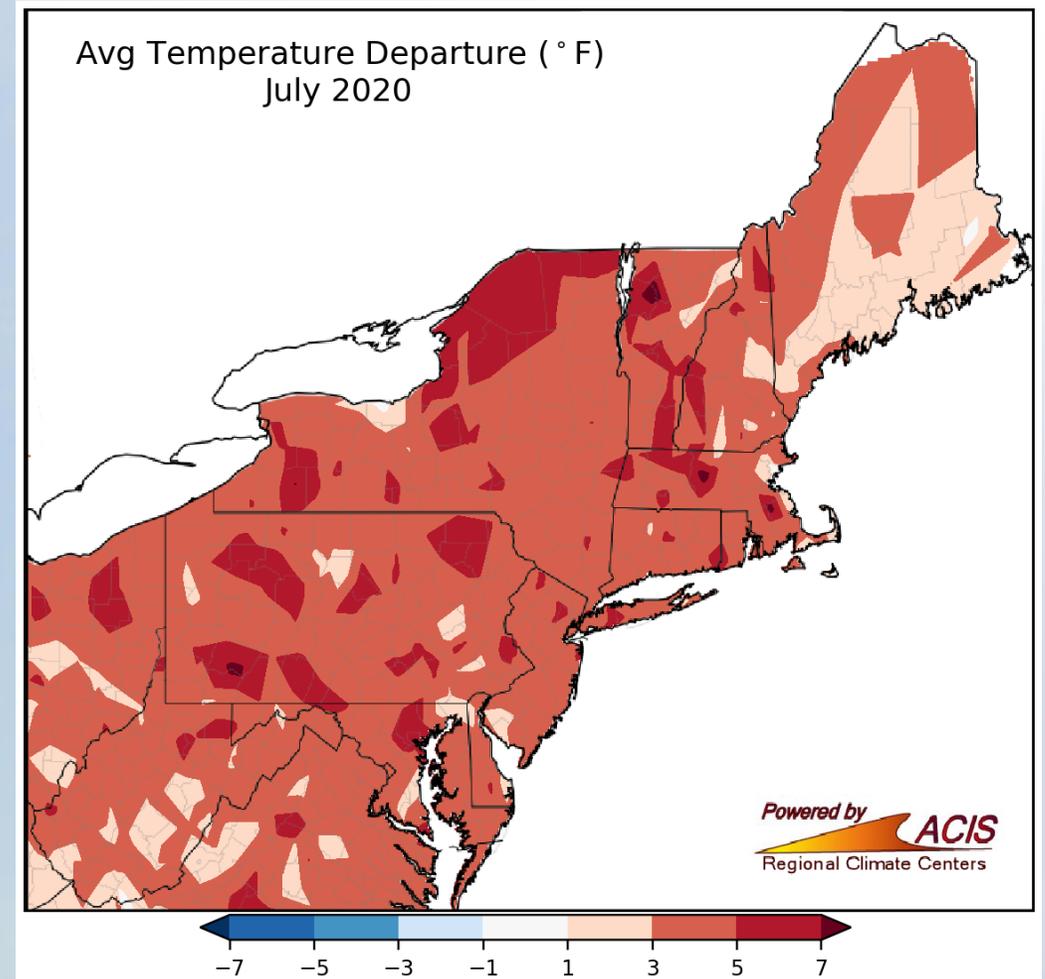
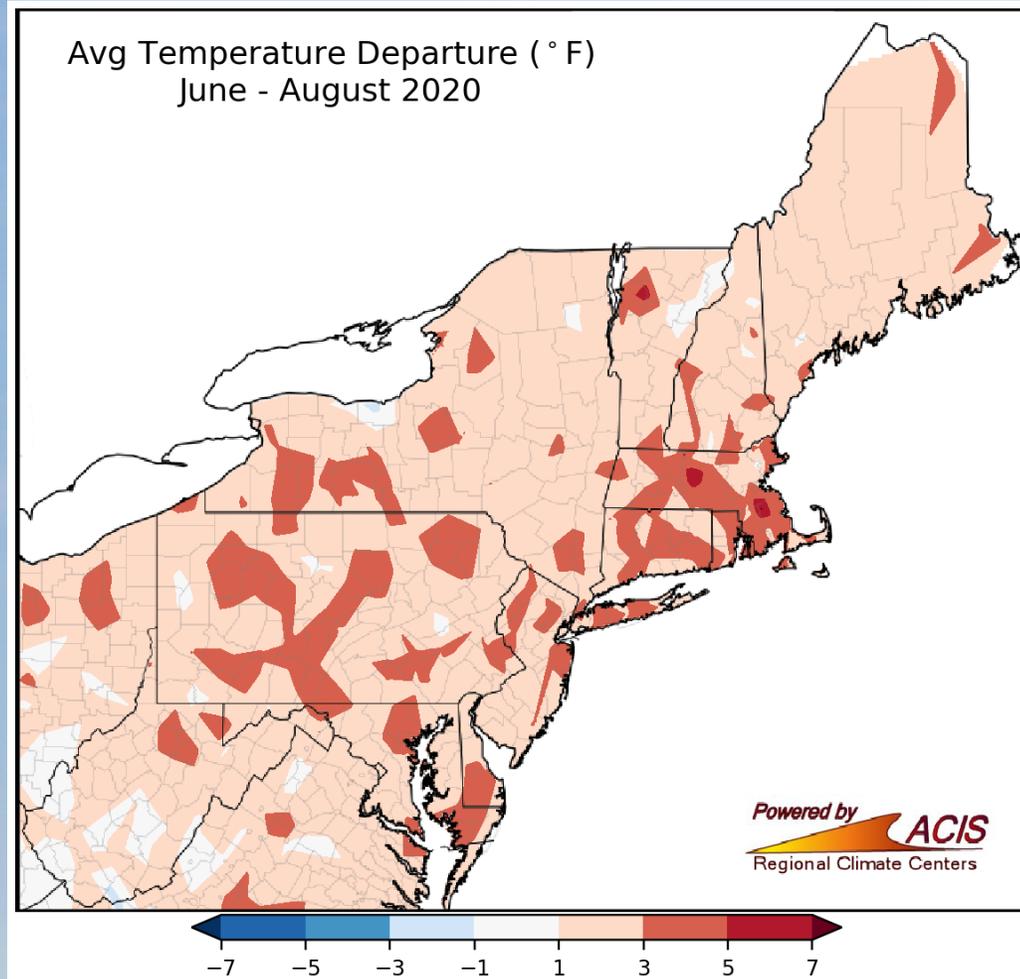
## Forecasted Air Quality Alerts vs. Actual Ozone Exceedance Days



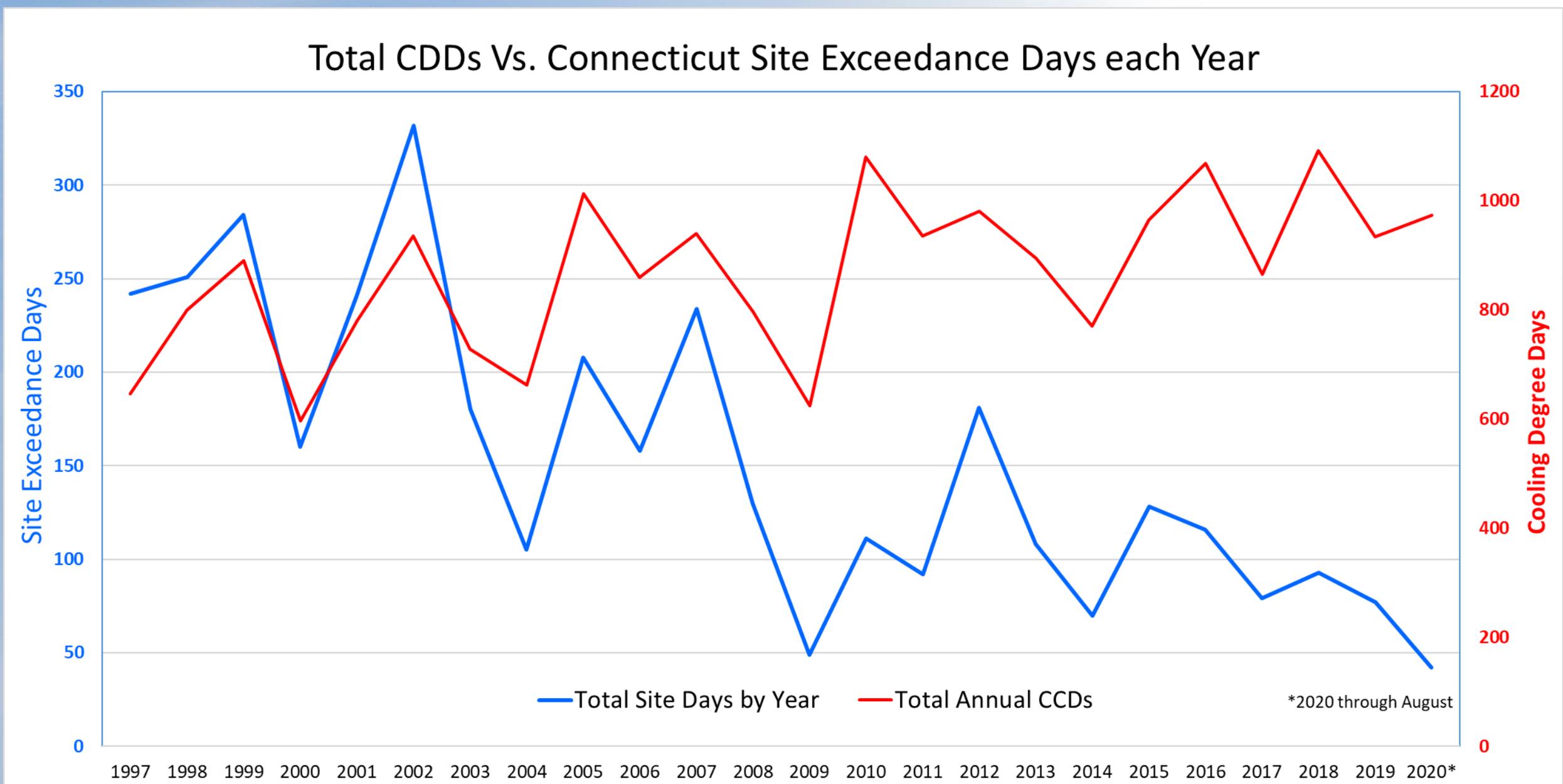
# Bradley Airport Temperature Chart



# Northeast Temperature Departures



# Annual Cooling Degree days vs. Site Exceedance Days



# Conclusions

- It was a record hot summer at BDL;
- Number of exceedance days were lower than one would expect for the warm temperatures;
- Southerly winds developed on a number of days that mixed the boundary layer and lowered the ozone levels;
- Ozone design values mostly held steady for this year.