





June 16, 2016 OTR Ozone Exceedances

By Michael Geigert



Summary

- Mostly Good throughout the OTR, with Moderates and USG around CT;
- 3 sites in OTR reached USG.
 - 1. 3 sites above 70 ppb ozone NAAQS, 2 sites in CT
 - 2. 1 sites above (2008) 75 ppb ozone NAAQS, 0 sites in CT
 - 3. 0 sites above (1997) 84 ppb ozone NAAQS, 0 sites in CT



Design Value Summary

		To Date			16			
			Compliance Status					
		2			AAQS			
	Cita Nama		2015	2008	1997			
	Site Name	2016 DV	NAAQS	NAAQS	NAAQS			
SWCT Portion of NY-NJ-CT non- attainment area	Danbury	78	x	x		Four more 102+ ppb days violates 1997 NAAQS		
	Greenwich	78	x	x		Four more 93+ ppb days violates 1997 NAAQS		
	Madison	72	X			One more 78+ ppb day violates 2008 NAAQS		
	Middletown	77	X	X		Four more 97+ ppb days violates 1997 NAAQS		
	New Haven - Criscuolo Park	72	X			Three more 75+ ppb days violates 2008 NAAQS		
	Stratford	76	X	X		Four more 95+ ppb days violates 1997 NAAQS		
	Westport	80	X	Х		Two more 87+ ppb days violates 1997 NAAQS		
Greater CT	Cornwall	71	X			Three more 86+ ppb days violates 2008 NAAQS		
	East Hartford	74	X			Two more 76+ ppb days violates 2008 NAAQS		
	Groton Fort Griswold	71	X			Three more 86+ ppb days violates 2008 NAAQS		
	Stafford	73	X			Three more 79+ ppb days violates 2008 NAAQS		
	Abington (CASTNET)	68				Two more 76+ ppb days violates 2015 NAAQS		



June 16, 2016 Peak East Coast Ozone

 Mostly GOOD ozone levels , except USG for Danbury, Groton Connecticut and Riverhead New York.



Tables of OTR and CT Monitoring Sites

Mostly Good to Moderate across the OTR with 3 USG exceedances

Site	Site AQS	Param	Date (LST)	Max 8-hr Ozone
Riverhead	361030004	03	6/16/2016	79
Danbury	090011123	03	6/16/2016	74
Groton Fort Gri	090110124	03	6/16/2016	71
Middletown	090070007	03	6/16/2016	69
Madison-Beach R	090099002	03	6/16/2016	68
New Haven - Cri	090090027	03	6/16/2016	63
Loudonville	360010012	03	6/16/2016	61
Millbrook	360270007	03	6/16/2016	61
Cornwall	090050005	03	6/16/2016	58
East Hartford	090031003	03	6/16/2016	58
Narragansett	440090007	03	6/16/2016	58
Abington	090159991	03	6/16/2016	56
Mt Ninham	360790005	03	6/16/2016	56
Amherst	360290002	03	6/16/2016	55
CHICOPEE	250130008	03	6/16/2016	55
PG Equestrian C	240338003	03	6/16/2016	55
Stratford	090013007	03	6/16/2016	55

24-hr Back Trajectories 2:00 pm EST



The 100/500/1000 meters trajectories to Danbury were very localized, with lowest levels originating from NYC. Riverhead NY low level trajectory had influence from Philadelphia area while further to the south, the clean air blew in from the Atlantic.

June 16, 2016 CT Ozone Monitors

Most CT sites had elevated ozone for several hours, however, only Danbury and Groton were high enough to exceed the NAAQS.



June 16, 2016 Surface Analysis

Weak low pressure to our south caused light winds, which turned to the east during the afternoon



NOAA Ozone Model

Models had difficulty predicting the area for highest levels of ozone. Day before model forecasted in NY, while same day model run showed plume being transported into northern CT. The meteorology models did not have a good handle on the expected weather pattern.



PROD DAY1 02HX08 0 20160616 122 CYC*

PROD DAY1 02HX08 0 20160616 062 CYC-



Barons MAQSIP Ozone Model

MAQSIP day before model run showed mostly GOOD air quality, while same day model run was more realistic of monitored results. It was a difficult forecast using day before model runs.

