

# Connecticut Department of Energy and Environmental Protection











# Petition to EPA to Expand the Ozone Transport Region Under CAA sec. 176A

Ric Pirolli December 12, 2013 SIPRAC

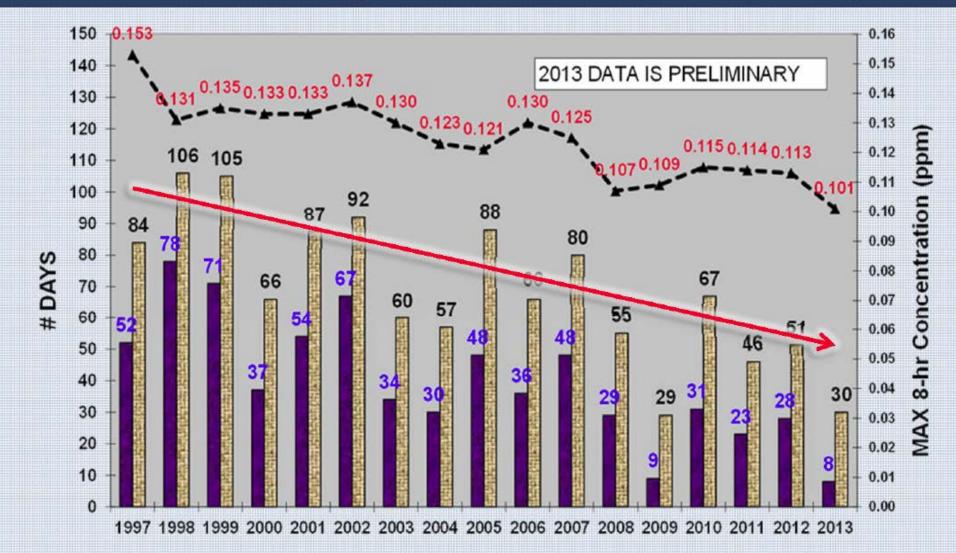


## **Ozone Transport Region**

- Established by 1990 CAA Amendments (CAA Sec 184)
- Includes CT, DE, ME, MD, MA, NH, NJ, NY, PA, RI, VT and VA portion of Wash DC CMSA
- Requires statewide major source NOx & VOC RACT,
  CTGs, moderate NA NSR
- Brings member states to table to discuss regional control options
- Allows OTC majority to request EPA "SIP calls" for additional controls in one or more OTR states



# Ozone Progress 1997-2013 (OTR)



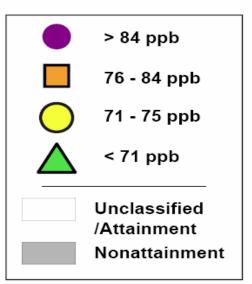


# days > 84 ppb ====# days > 75 ppb -★-MAX 8-HR

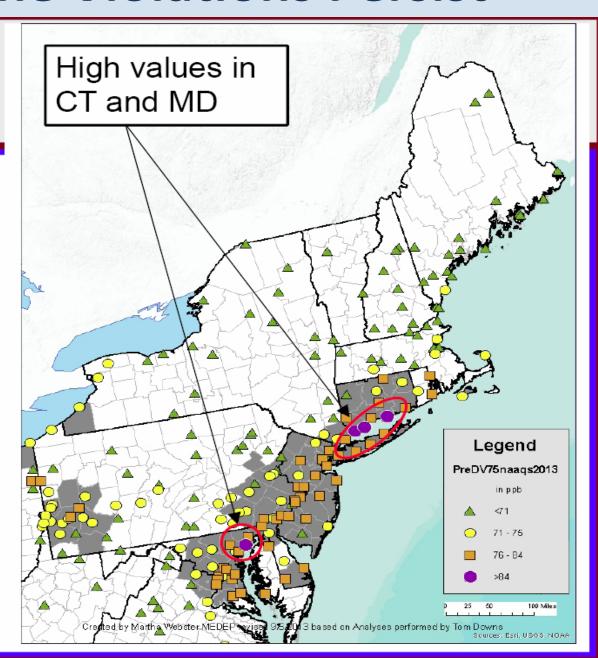
#### ... But Ozone Violations Persist

# Preliminary 2013 Ozone

#### Design Values

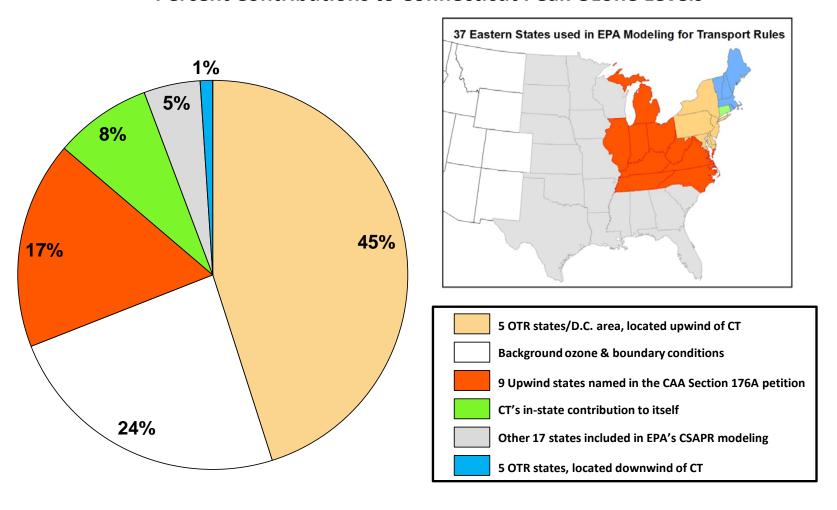


3-Year average of the 4<sup>th</sup> high concentration for 2011, 2012, 2013

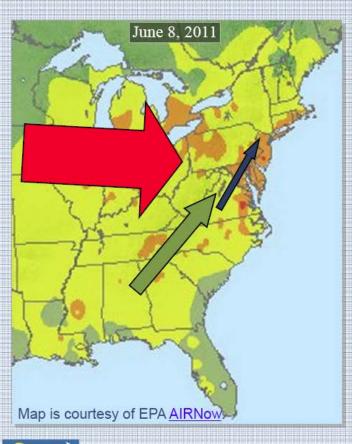


## **Most of CT's Problem is Transport**

#### **Percent Contributions to Connecticut Peak Ozone Levels**



#### **Upper, Mid and Low Level Transport**



Three Different Types of Transport

#### **Westerly Transport**

- "Aloft" transport 100s of miles
- · Generally from W or NW
- · Primarily power plants

#### Southerly, Night-Time Transport

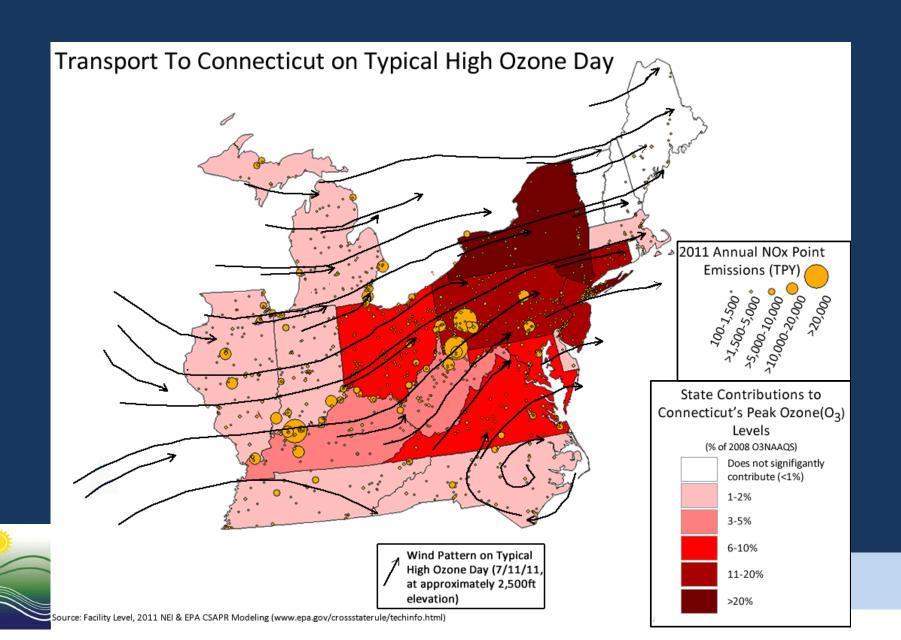
- Pushed by a "Nocturnal Low Level Jet (NLLJ)" of wind
- "Aloft" transport at night !!!
- 100s of miles
- SW to NE along the Atlantic
- Vehicles, power plants and other sources

#### **City-to-City Transport**

- Washington to Baltimore, Baltimore to Philadelphia, etc.
- All sources contribute

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# **Typical Elevated Transport to CT**

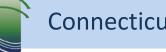


#### **Petition to Expand OTR**

- On December 9<sup>th</sup>, 9 OTR states (all but ME, NJ & DC) petitioned EPA to expand the OTR to include 9 upwind states
  - IL, IN, KY, MI, NC, OH, TN, VA, WV
- CAA Sec 176A allows EPA to expand OTR if there is:
   "reason to believe that the interstate transport
   of air pollutants from such State significantly
   contributes to a violation of the standard in the
   transport region"
- EPA must rule on petition within 18 months

# **Expanded OTR Based on Petition**





#### Questions?

#### For more information on the Petition:

http://www.ct.gov/deep/cwp/view.asp?a=2684&Q=536370&deepNav GID=1619

