

2004 Ozone Season

Presented by the
Regional Air Pollution Control Agency – RAPCA
Dayton, OH

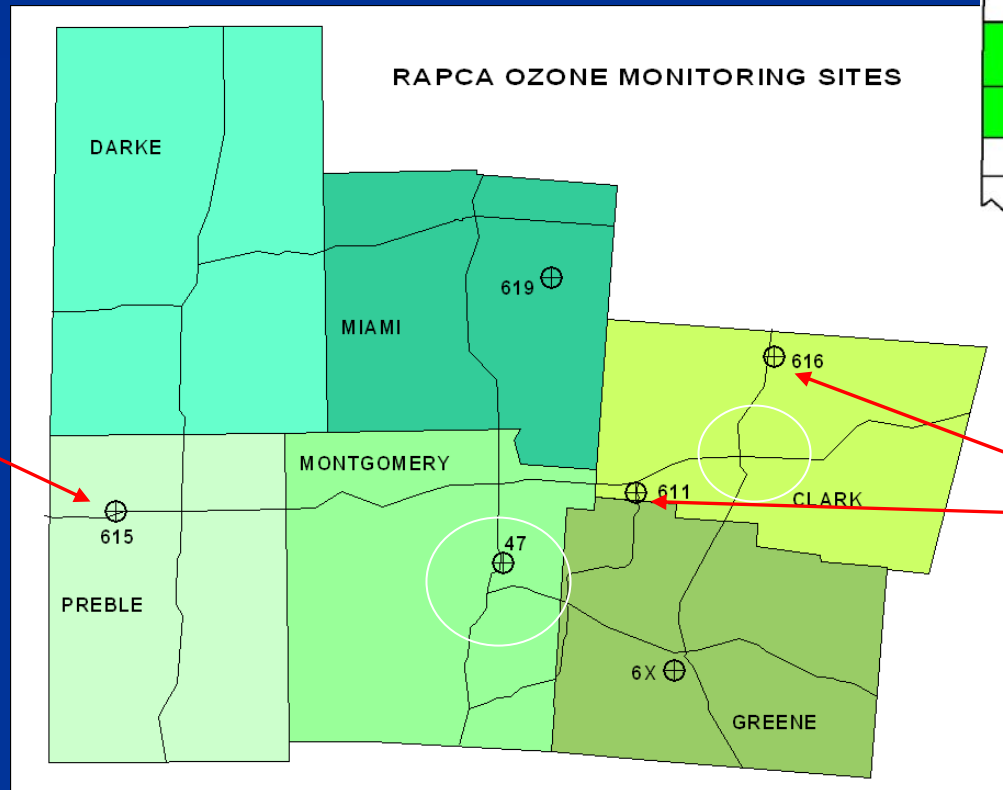
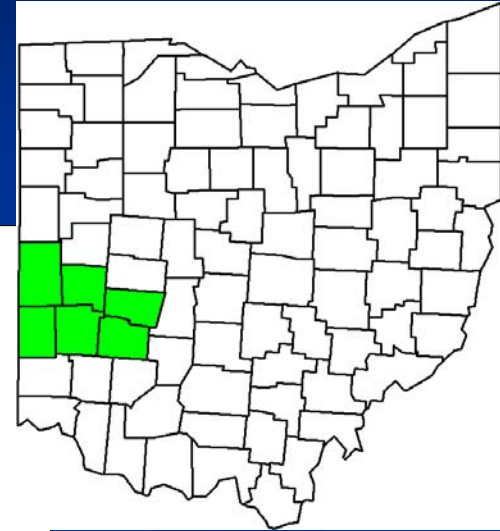
**Air and Waste Management
Association**

**JOINT NORTHERN/SOUTHWEST OHIO
CHAPTER CONFERENCE**

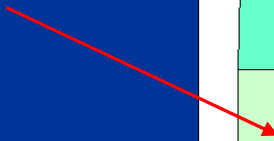
Columbus, OH
October 13, 2004

RAPCA

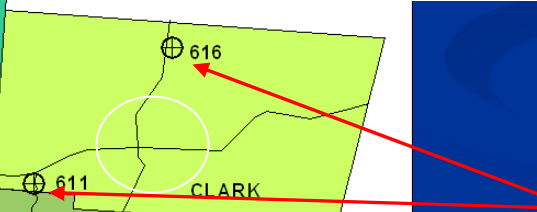
- Local Air Agency
- 6 Counties in southwest Ohio
- 6 Ozone monitors



Background



Downwind



Ozone Factors

- NO_x SIP Call
- Weather
- Mobile Sources

Local Effects of the NO_x SIP Call

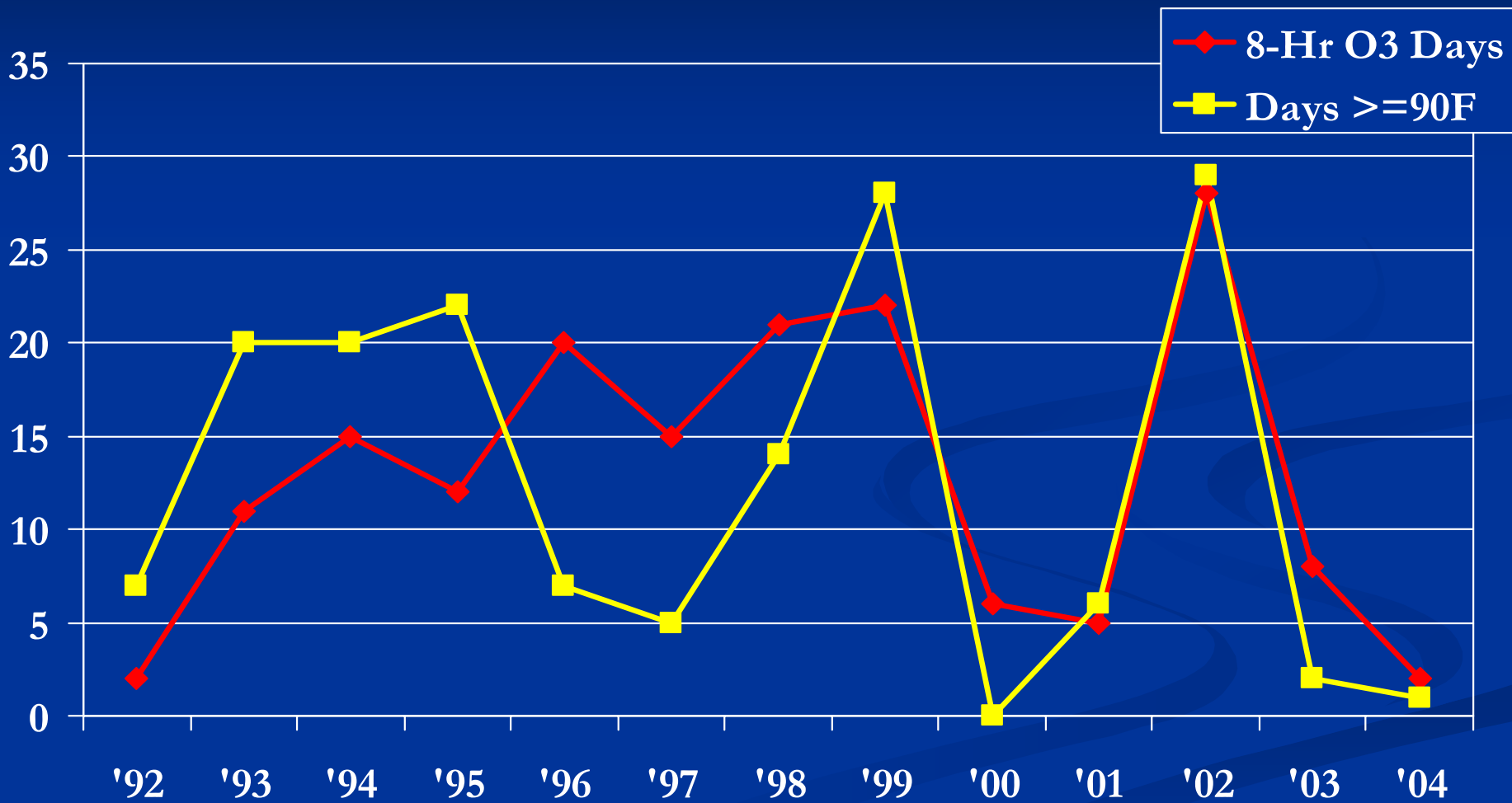
- Reductions or Credits?
- Not aware of any NO_x reductions in our area
- Unsure of upwind NO_x reductions
- 2004 The NO_x Budget Trading Program Progress Report will tell us more

2004 Weather Summary

Source: National Oceanic and Atmospheric Administration
@ Dayton International Airport

Month	Ave. Daily Max Temp (F)	Ave. Daily Temp (F)	Monthly Rainfall	# of Days Max Temp ≥ 90 (F)	# of 8-Hr Ozone Exceedance
May	74.9 (+3.7)	65.6 (+4.4)	8.61 (+4.44)	0	0
June	78.3 (-1.8)	69.3 (-0.9)	5.12 (+.091)	0	0
July	81.2 (-3.0)	72.1 (-2.2)	3.25 (-0.50)	0	1 7/21 @ Site 616, 88ppb
August	78.2* (n/a)*	69.0* (-3.3)*	5.15* (+1.66)*	0*	0
Sept	78.7* (n/a)*	67.6* (+2.0)*	0.10* (-2.31)*	0*	0

Exceedances of the 8-Hr Ozone Standard



Mobile Sources

- Tier II engine standards ('04-'09)
- 2007 Highway Diesel Rule
- Ultra Low Sulfur Diesel
 - On-Road
 - 2006 80% 15ppm
 - 2010 100% 15ppm
 - Off-Road
 - 2007 500ppm
 - 2010 15ppm
- Low Sulfur Gasoline
 - 2005 30ppm Refinery Average w/ 300ppm cap
 - 2006 30ppm Refinery Average w/ 80ppm

2005 and Beyond

- Weather?
- Mobile Sources
 - Cars: In 2009, 90% emissions reductions from 1990 levels.
 - Cleaner fuels: 5-10% reductions in existing cars with lower sulfur fuel
- NO_x SIP Call
- Clean Air Interstate Rule (should replace NO_x SIP Call in 2009)
 - Year-round
 - Only covers utility boilers