Washington, DC Nonattainment Area Ozone Season 2003

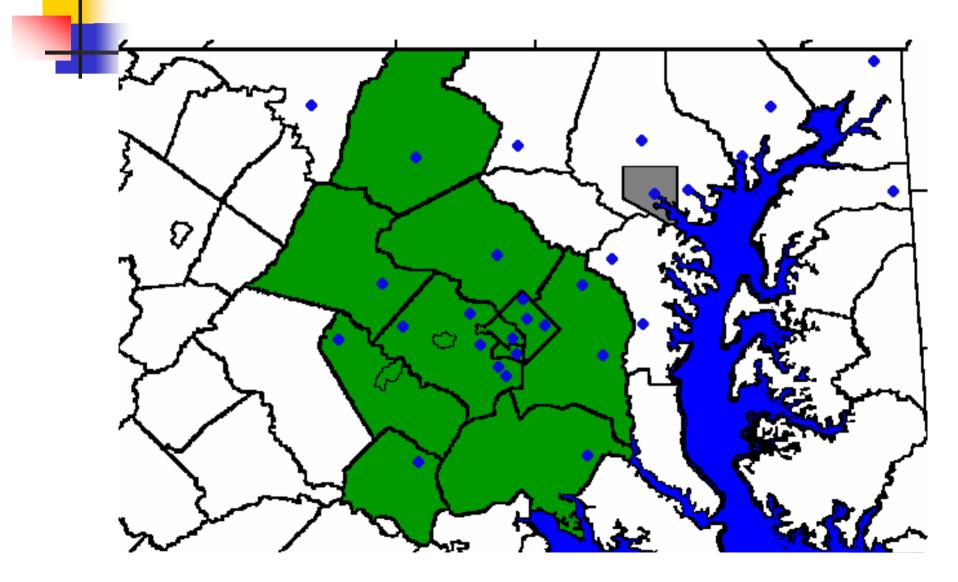
by Sunil Kumar

April 5, 2004 Metropolitan Washington Council of Governments

Ozone Forecasting Summary

- Ozone forecasting began on May 1, 2003 and concluded on September 15, 2003
- The Washington, DC area had 3 1-hour and 7 8-hour ozone exceedances.

2003 Ozone Monitoring Network



Ozone Ranges									
EPA's AQI 8-hr Ozone Range	Forecasting and Reporting 1- hr Ozone Range	AQI Color	AQI Range	Health Descriptor					
0-64 ppb	0-79 ppb	Green	1-50	Good					
65-84 ppb	80-104 ppb	Yellow	51-100	Moderate					
85-104 ppb	105-124 ppb	Orange	101- 150	Unhealthy for Sensitive Groups					
105-124 ppb	125-204 ppb	Red	151- 200	Unhealthy					
>124 ppb	>204 ppb	Purple	201- 300	Very Unhealthy					

Ozone Reporting

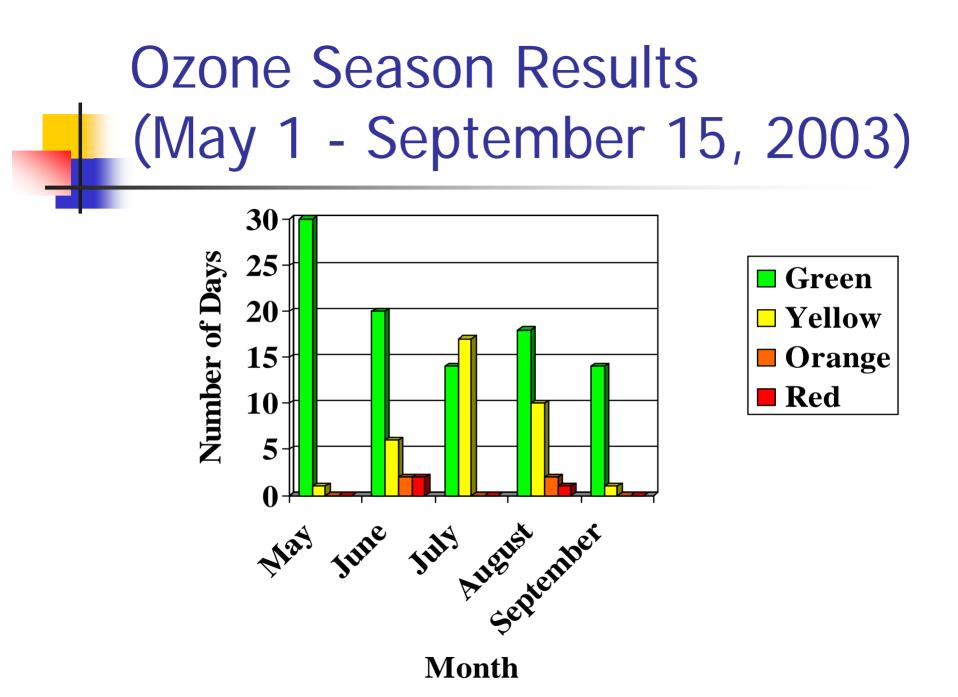
<u>AQI Color</u>	Description	
Red	Unhealthy	200
Orange	Unhealthy for	150
	Sensitive Groups	100
Yellow	Moderate	50
Green	Good	

Keeping the Public Informed

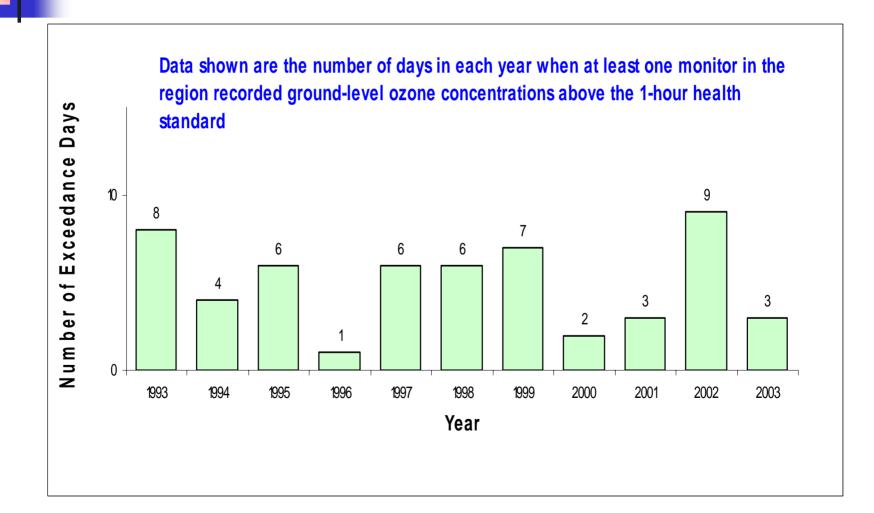
- Forecast faxes & emails
- Air-watch web page real time map
- COG web page Ozone forecast
- EPA's AirNow web site
- USA Today newspaper
- The Weather Channel

Ozone Season Results (May 1 - September 15, 2003)

	Green	Yellow	Orange	Red
May	30	1	0	0
June	20	6	2	2
July	14	17	0	0
August	18	10	2	1
September	14	1	0	0
Total	96	35	4	3



Maryland 1-hr Ozone Exceedance Days By Year (1993-2003)



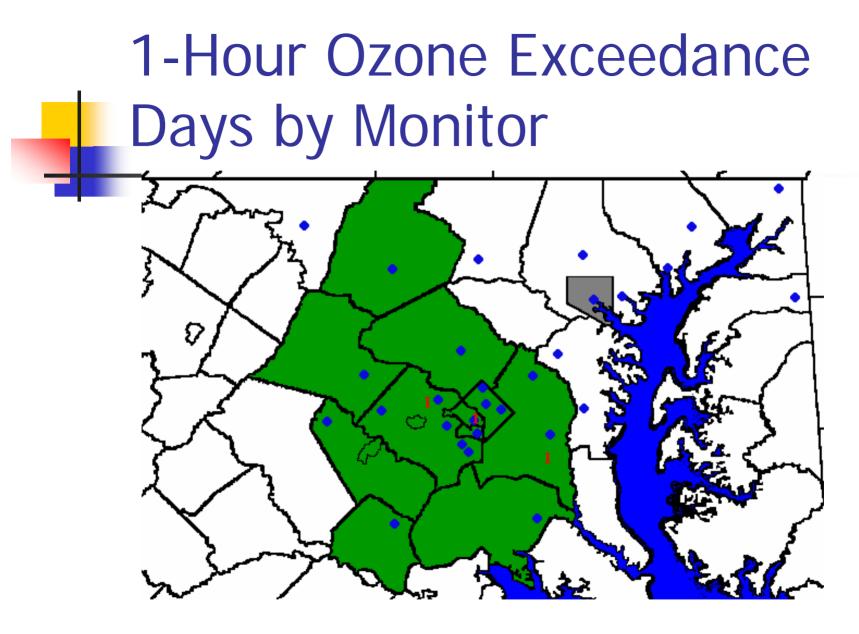
2003 Forecasted and Actual Observation For Code Red

- June 25th
 - Forecast:
 - Red (132 ppb)
 - Observation:
 - Red (141 ppb)
- June 26th
 - Forecast:
 - Red (138 ppb)
 - Observation:
 - Red (137 ppb)
- August 14th
 - Forecast:
 - Yellow (99 ppb)
 - Observation:
 - Red (127 ppb)

1-Hr Ozone Highlights

Number of ozone exceedance days: 3

Max concentration: 141 ppb @ Prince
George Equestrian Center on June 26, 2003



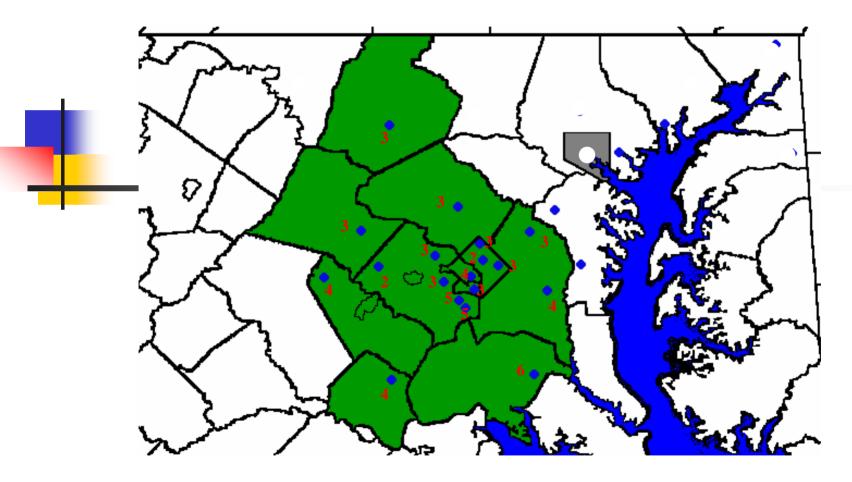
Number of days: 3 days

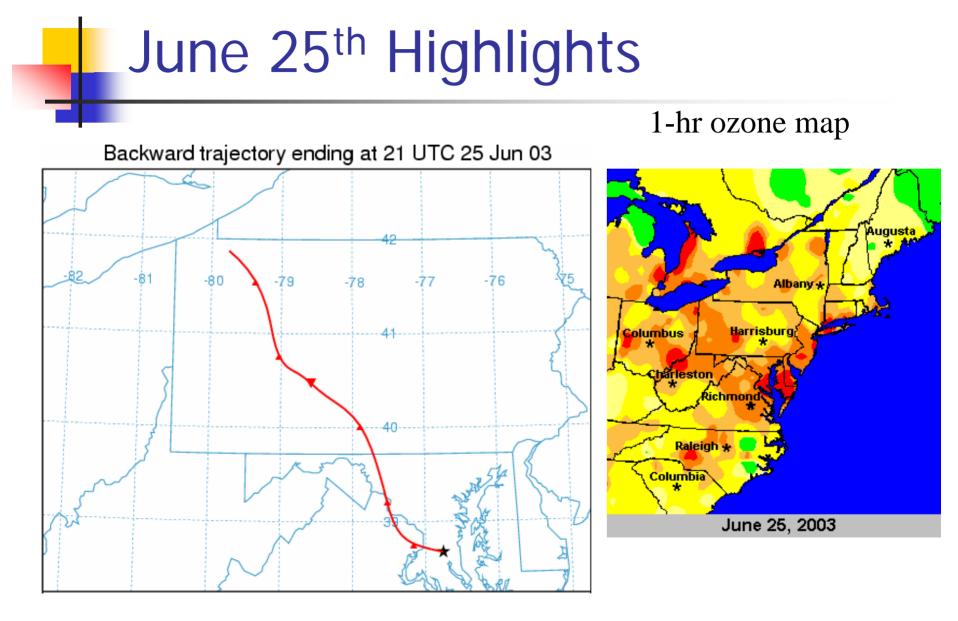
8-Hr Ozone Highlights

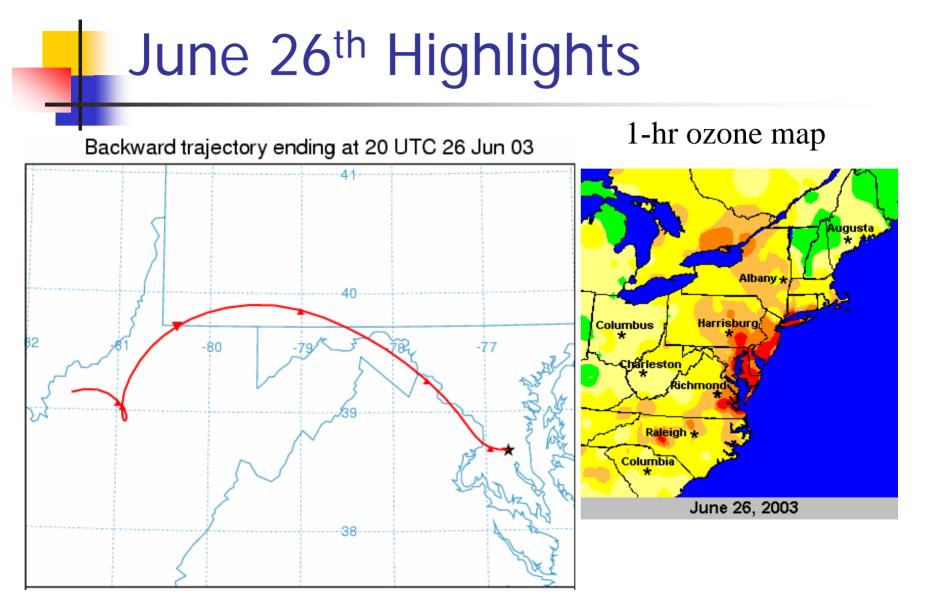
Number of ozone exceedance days: 7

 Max concentration: 126 ppb at the Prince George Equestrian Center monitor on June 26, 2003

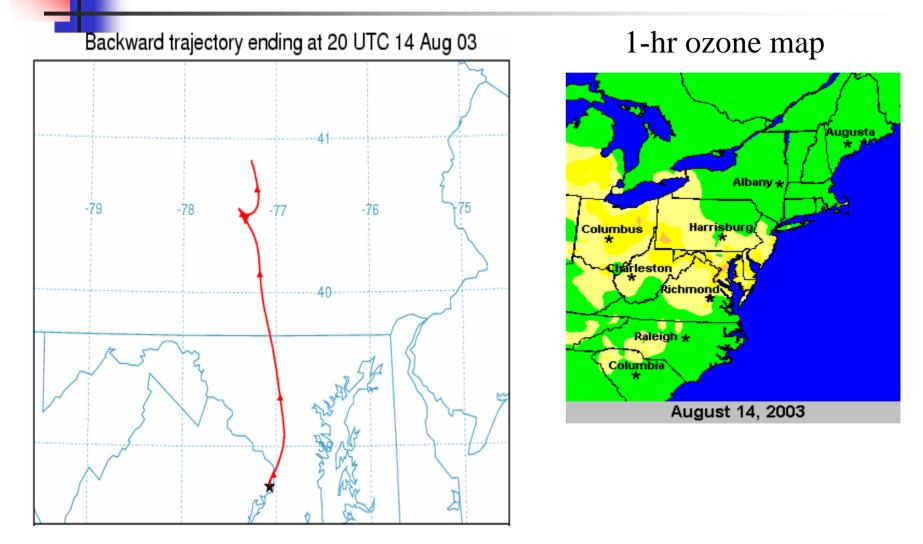
8-Hour Ozone Exceedance Days by Monitor







August 14th Highlights



Episode days (June 25-26 & August 14)

Winds came from Western Pennsylvania and Ohio river valley during June 25-26 and from Central Pennsylvania on August 14, where regional ozone loads were very high during these episode days.

 Formation of high ozone levels locally were favored by high temperature, low wind speed, and low mixing of pollutants during these three days.