



2006 Ozone Report

**Presentation to
Regional Air Quality Council**

September 7, 2006

So How Hot Was It?

- **52 days above 90°**
 - “Normal” summer has 33 days
- **7 record-setting days**
 - 4 days above 100°
 - Earliest 100° day on record (June 14)
- **Hot throughout the summer**
 - June – 19 days above 90°, 90° average
 - July – 21 days above 90°, 91° average
 - August – 12 days above 90°, 87° average
 - Average high temperature was 89°, highest average temperature so far this decade

Prime Conditions for Ozone

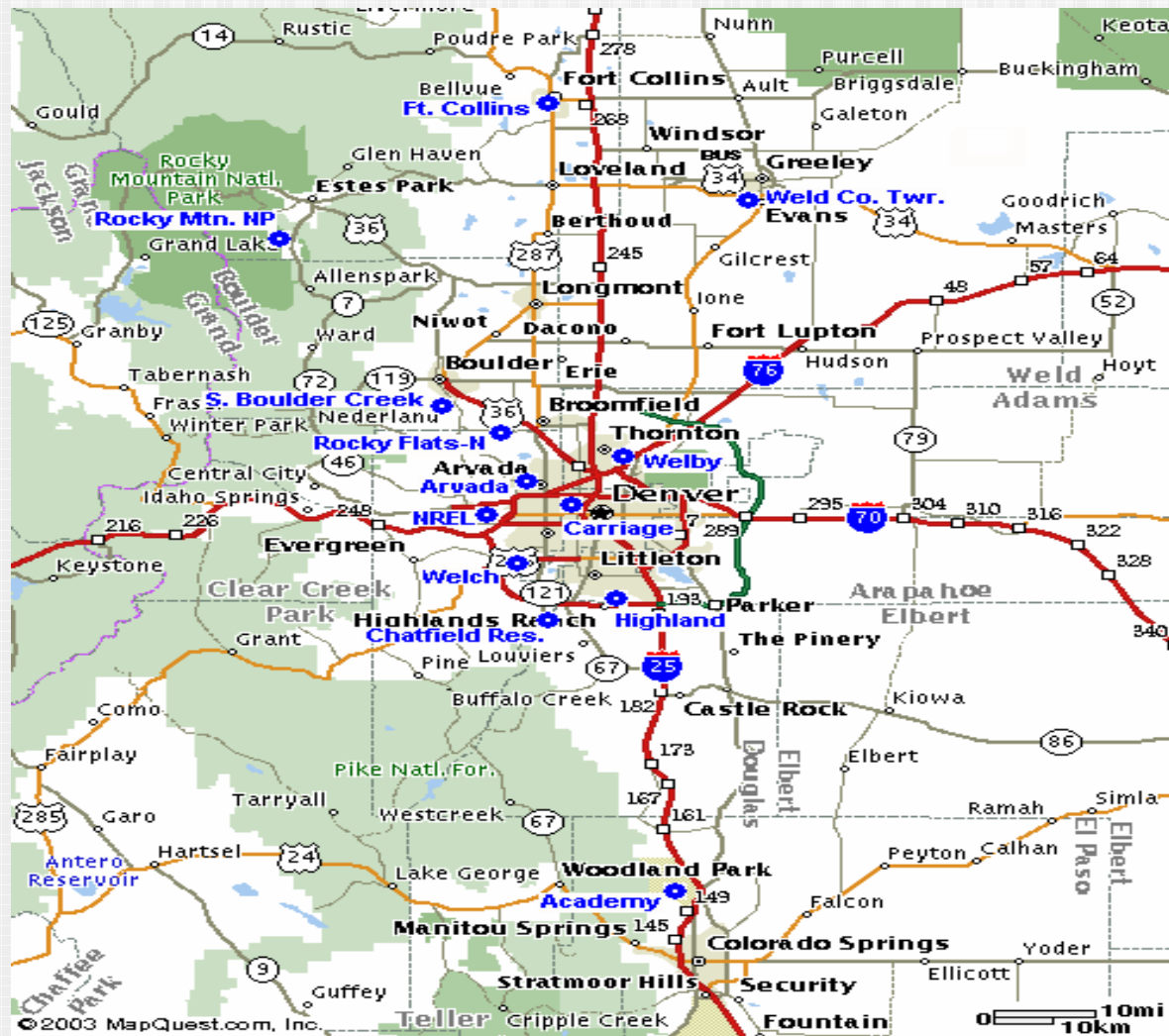
- **Weather conditions throughout the summer were highly conducive for ozone formation**
 - High temperatures
 - Strong, persistent upper level high pressure systems
 - Light winds
 - Little moisture
 - June -- 4th driest on record
 - Intense sunlight
 - 87% possible sunlight throughout summer

Ozone Alerts

- **Alerts called by CDPHE meteorologists**
 - Forecast of conducive weather conditions for ozone formation
 - Called when ozone levels expected to exceed 75 ppb

- **49 alerts issued in 2006**
 - Most alerts since program began in 1999
 - 22 alerts in June – 3 is normal average
 - 24 alerts in July – 13 is normal average
 - 3 alerts in August – 5 is normal average

Ozone Monitoring Sites



High Ozone Days

■ 9 days \geq 85 ppb

- 6/13 – FCW (88)
- 6/19 – RFN (94), FCW (87), SBC (87)
- 7/13* – CHAT (92), GRET (90), WCH (87), HLD (85)
- 7/14* – FCW (97), RFN (91), RMNP (91), SBC (86)
- 7/15* – RFN (90), FCW (87), SBC (86)
- 7/22 – NREL (89), CHAT (86)
- 7/27 – CHAT (86)
- 7/28* – RFN (88), FCW (87),
- 7/29* – WCH (96), FCW (95), NREL (94), RFN (93),
CRG (92), CHAT (88), GRET (87),

■ 10 additional days $>$ 80 ppb

- 1 in May
- 5 in June
- 4 in July

Comparison with 2003

	2003		2006	
	1 st Max	4 th Max	1 st Max	4 th Max
RFN	95	91	94	90
NREL	102	95	94	83
CHAT	117	95	92	86
HLD	119	91	85	81
RMNP	92	86	91	76
# Ozone Alerts	42		49	
# days \geq 85	17		9	

Ozone Attainment Status

Monitor	2006			2006	2005	2004	2004 -06	2007
	1st Max	2nd Max	3rd Max	4th Max	4th Max	4th Max	Ave.	Allow. 4th Max
Highland Res.	13-Jul	22-Jul	29-Jul	19-Jul				
	85	82	82	81	80	72	77	93
Chatfield S.P.	13-Jul	29-Jul	22-Jul	27-Jul				
	92	88	86	86	84	75	81	84
NREL	29-Jul	22-Jul	28-Jul	23-Jul				
	94	89	84	83	79	74	78	92
Rocky Flats	19-Jun	29-Jul	14-Jul	15-Jul				
	94	93	91	90	77	73	80	87
So. Bldr. Ck.	19-Jun	14-Jul	15-Jul	29-Jul				
	87	86	86	82	76	68	75	96
Fort Collins West	14-Jul	29-Jul	13-Jun	19-Jun				
	97	95	88	87	--	--	--	--
RMNP	14-Jul	28-July	25-May	12-Jun				
	91	77	76	76	75	73	75	103

2007 Prognosis

- **Continue “Let’s Take Care of Our Summer Air” public awareness program**
 - About \$400,000 CMAQ funding available next year
- **Continued fleet turnover to cleaner cars and trucks**
 - Estimated 6-7% emission reduction
- **Possible additional controls on oil and gas industry**
 - Revisions to Regulation 7 under consideration
- **Possible implementation of HB1302 high-emitter program**
 - Implementation plan due by December
 - \$400,000 available for “Repair Your Air” program

Implications of 2007

■ **Attain standard based on 2005-07 average**

- In April 2008 EPA will officially designate area attainment
- 10-year maintenance plan due by 2011, but expected to be completed in 2008/09

■ **Exceed standard based on 2005-07 average**

- EPA will designate area nonattainment effective April 2008
- Nonattainment SIP due to EPA by April 2009