

# Ozone SIP Planning Update

**May 6, 2011**

# Topics

- 1. New Ozone standard**
- 2. EPA's Implementation Rule**
- 3. Ozone SIP Modeling**
- 4. Strategy analysis**
  - ◆ Stationary/area source strategies
  - ◆ Transportation/Land Use strategies
  - ◆ Transportation pricing strategies
- 5. EPA feedback on transportation-related strategies**
- 6. Coordination with North Front Range**
- 7. Coordination with Air Quality Control Commission**
- 8. Next steps**

# New Ozone Standard

- ◆ **EPA committed to promulgating a new ozone standard by July 29, 2011**
  - Range between 0.060-0.070 ppm (parts per million)
- ◆ **EPA sought advice from Clean Air Act Scientific Advisory Committee**
  - CASAC reaffirmed its recommended range between 0.060-0.070 ppm
- ◆ **No indication where EPA may end up on level of standard**

# EPA Implementation Rule

- ◆ **EPA has committed to proposing an Implementation Rule at the same time it issues the new standard**
- ◆ **Implementation Rule lays out:**
  - Designation schedule
  - Classification criteria
  - SIP requirements
  - Deadlines
- ◆ **Preliminary indications – all dates still tentative**
  - Nonattainment designations/classifications – 2012/2013
    - Likely based on 2009-2012 monitoring data
  - Attainment SIP – due 2015/2016
  - Attainment date -- 2018/2019 (moderate areas)

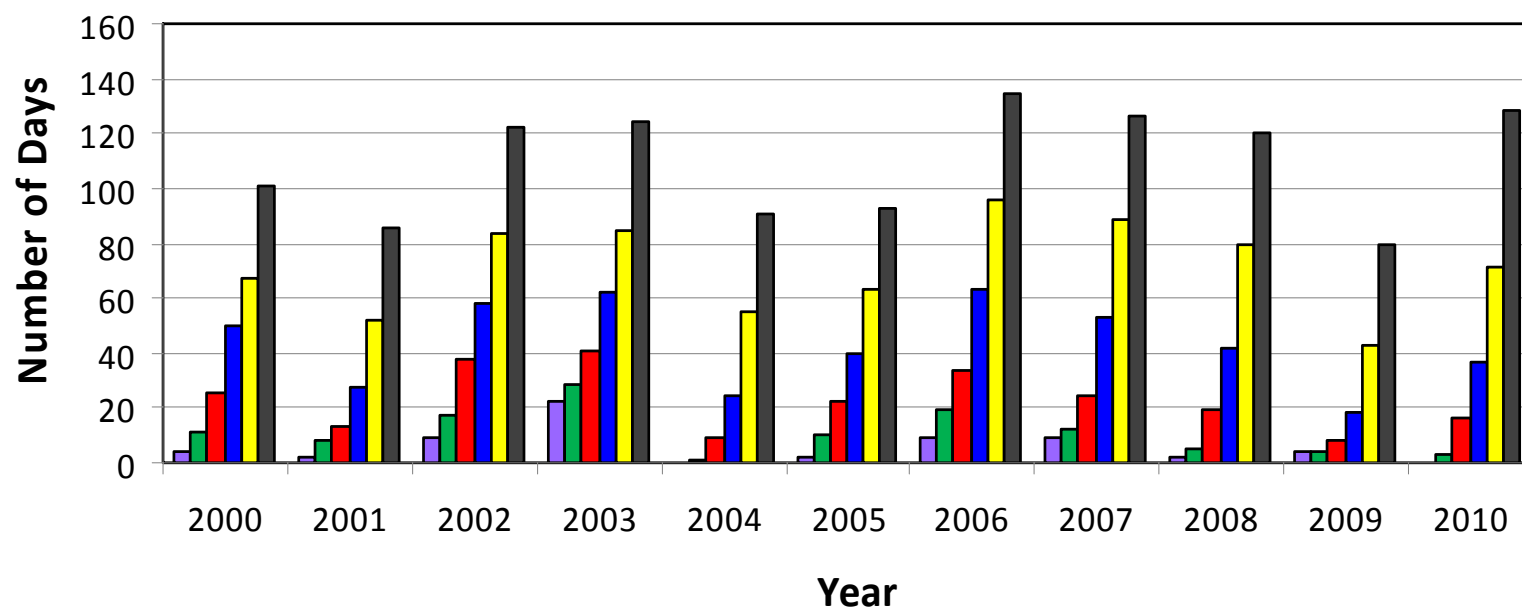
# Denver/NFR Ozone Data

Site Name	<u>2008</u> 4 <sup>th</sup> Max (ppm)	<u>2009</u> 4 <sup>th</sup> Max (ppm)	<u>2010</u> 4 <sup>th</sup> Max (ppm)	2008 - 2010 3-Year Ave. 4 <sup>th</sup> Max (ppm)
Rocky Flats N	0.079	0.079	0.076	0.078
Chatfield	0.080	0.071	0.079	0.076
Ft. Collins West	0.076	0.073	0.075	0.074
Arvada	0.074	0.070	0.075	0.073
S. Boulder Cr.	0.076	0.073	0.072	0.073
RMNP	0.076	0.068	0.077	0.073
NREL	0.076	0.068	0.074	0.072
Greeley	0.073	0.067	0.073	0.071
Welch	0.073	0.070	0.072	0.071
Welby	0.076	0.072	0.063	0.070

# Ozone Trends and Status

## Denver Metro/North Front Range Monitored Data

### North Front Range of Colorado 8-hour Daily Maximum Ozone



Legend:   
 > 0.085 ppm (purple)   
 > 0.080 ppm (green)   
 > 0.075 ppm (red)   
 > 0.070 ppm (blue)   
 > 0.065 ppm (yellow)   
 > 0.060 ppm (black)

# Ozone SIP Modeling

- ◆ **Consultant (Environ-Alpine team) selected in Feb. 2011**
- ◆ **Important task milestones (drafts):**
  - Modeling Protocol – May
  - Base year meteorological modeling – June
  - Base year emission inventories – August
  - Base year MOVES mobile source emissions modeling – August
  - Base year photochemical modeling – October
  - Future year base case emissions/photochemical modeling – January 2012
  - Assessment of upwind transport/source apportionment – January 2012
- ◆ **Anticipate a stakeholder modeling forum in Aug/Sept**

# TR/LU Strategies

## ◆ Land use strategies

- EPA/DRCOG/RAQC sketch modeling project
- Workshop notes distributed
- Project team laying out next steps

## ◆ Transportation pricing strategies

- CDOT Mileage Based User Fee consultant study underway
- Staff has met with CDOT, DRCOG, and RTD to discuss modeling needs

## ◆ EPA staff has provided initial feedback on list of transportation/land use measures evaluated last year

## Coordination with NFR

- ◆ **Ongoing coordination with North Front Range MPO staff**
- ◆ **NFRMPO Planning Council has established an Air Quality Technical Committee**
  - Provide scientific and technical information to the Planning Council regarding air quality issues and strategies
  - RAQC staff will participate as a liaison to the Core Committee of local government representatives

## Coordination with AQCC

- ◆ **RAQC staff continues to work closely with AQCC and APCD staff on ozone planning tasks**
- ◆ **At its annual retreat in June AQCC will discuss the upcoming ozone nonattainment planning process in the State**
- ◆ **Will solicit input from the RAQC and other planning organizations in the State on how to best coordinate planning efforts**

# Next Steps

- ◆ **By early 2012, our goal is to have:**
  - New EPA standard as our target
  - Implementation parameters and deadlines
  - Base year and base future year modeling analyses
  - Further refinement and analysis of potential strategies
  - Then RAQC and planning partners can begin identifying what will be needed for the SIP