

Overview

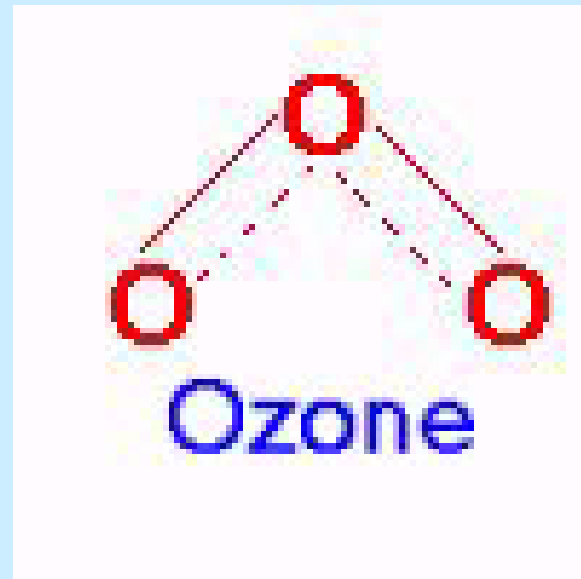
***Ozone Attainment
Demonstration Plan
Community Workshop
August 12, 2004***

**Don Hunsaker
Supervising Air Quality Planner**



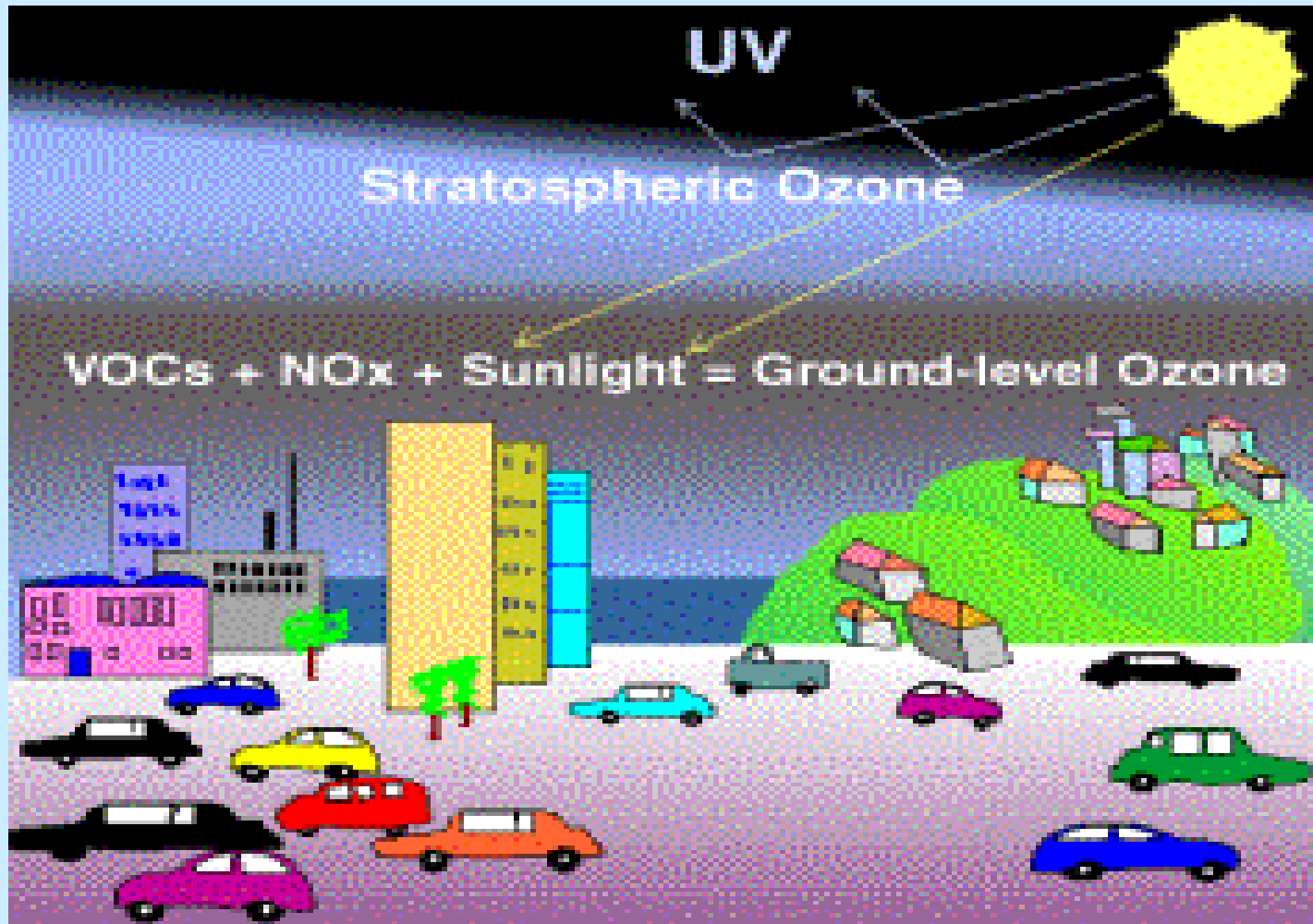
What is Ozone (O₃)?

- Gas that forms in atmosphere
- Damages human health, crops and materials
- Regulated as an air pollutant



Upper-level ozone is helpful

Lower-level ozone is harmful



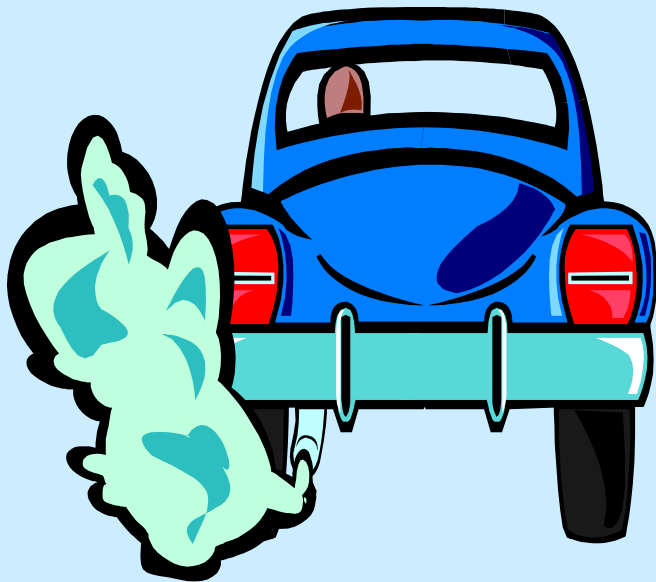
Ozone Pollution



- Ozone forms in atmosphere by chemical reaction between:
 - Nitrogen Oxides (NO_x)
 - Volatile Organic Compounds (VOC)
- Light winds, high temperature & sunlight needed for reaction



Precursor Sources



- **People/society, and also natural sources**
- **Most NO_x comes from fuel combustion**
- **Most VOC comes from transportation, industry, consumers & natural sources**

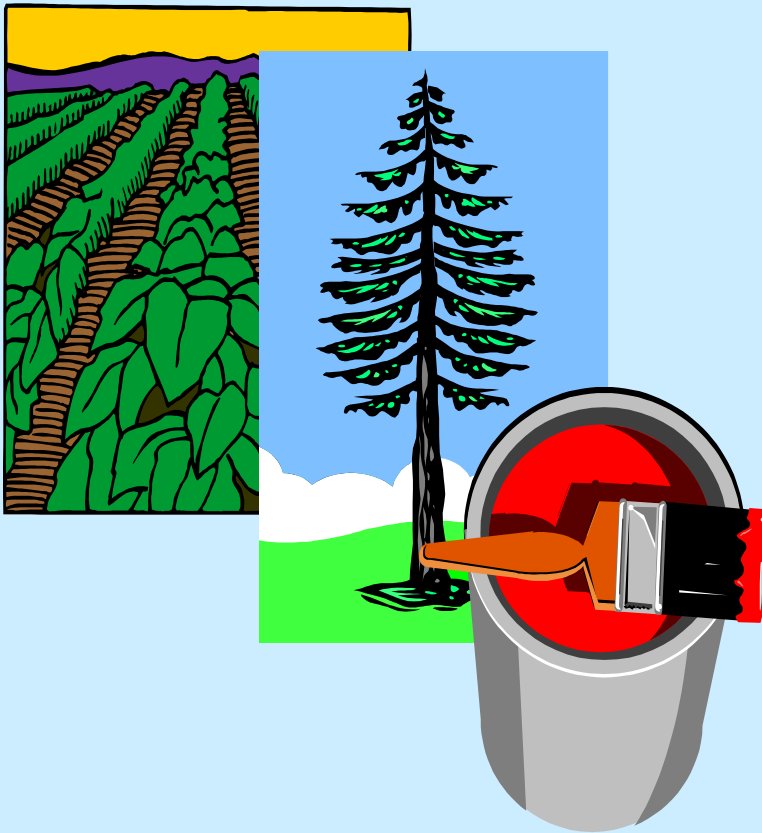


Ozone Health Effects

- Damages lungs
- Causes chest pain, coughing, shortness of breath and throat irritation
- Worsens respiratory diseases such as asthma
- Compromises the ability of the body to fight respiratory infections



Other Ozone Effects



- Damages plants
 - Crops
 - Landscaping
- Damages forests
- Damages materials
 - Rubber
 - Plastic
 - Vinyl



Federal ozone standards

- **The 1-hr standard is 0.12 ppm by volume to protect health, crops, materials from damage**
- **EPA plans to revoke the federal 1-hour ozone standard on June 15, 2005**
- **EPA says the standard is not needed to protect public health since the 8-hour ozone standard is being implemented**
- **Control measure requirements stay in place**
- **Other requirements change to reflect 8-hour ozone standard**



SJVAB is nonattainment for ozone

- **Air quality monitors in SJVAB measure ozone in air; ozone air quality has improved since mid-1980's but still unhealthy**
- **When monitors record levels above standard, air is unhealthy (nonattainment)**
- **EPA requires areas w/ unhealthy air to prepare plans to make the air healthy by deadlines in federal Clean Air Act**



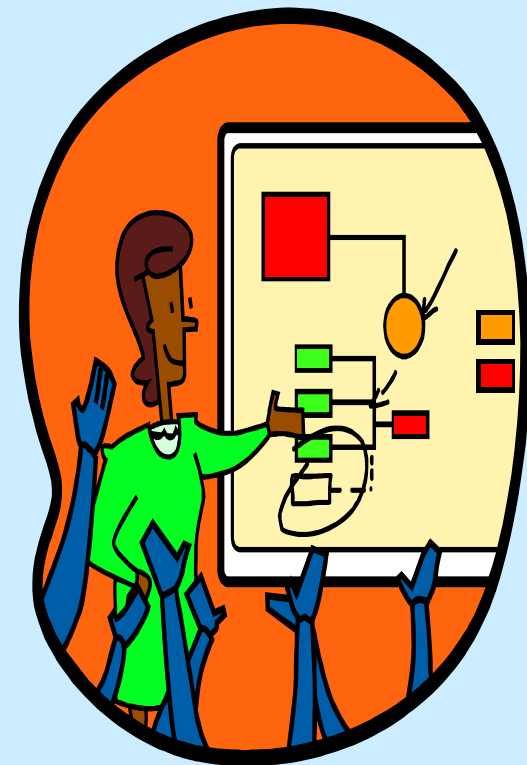
Background

- EPA classified the San Joaquin Valley Air Basin as *extreme* nonattainment for the federal 1-hr ozone standards (effective May 17, 2004)
- Requires attainment of the federal 1-hr ozone standards by November 15, 2010
- By November 15, 2004, EPA needs plan showing how SJVAB will attain standards by November 15, 2010



Plan development activities

- **Governing Board discussions:**
 - **May, June & December 2002**
 - **February 2003**
- ***Extreme Plan* workshops**
 - **July 23, 2003**
 - **December 5, 2003***
 - **January 6-7, 2004**
 - **August 12-13, 2004**



*Request to reclassify

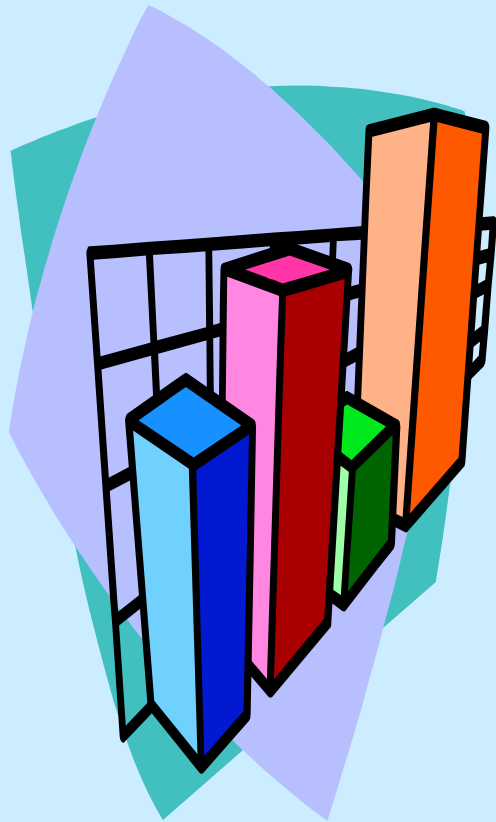


What's in the Extreme Plan?

- **Control measures to reduce emissions for attainment of federal standard by 2010**
 - **Prior measures (*PM10 Plan & ROP Plan*)**
 - **New measures (this Plan)**
 - **Future measures**
- **Federal Rate of Progress Plan for 2008/2010**
- **California Clean Air Act Triennial Progress Report and Plan Revision**



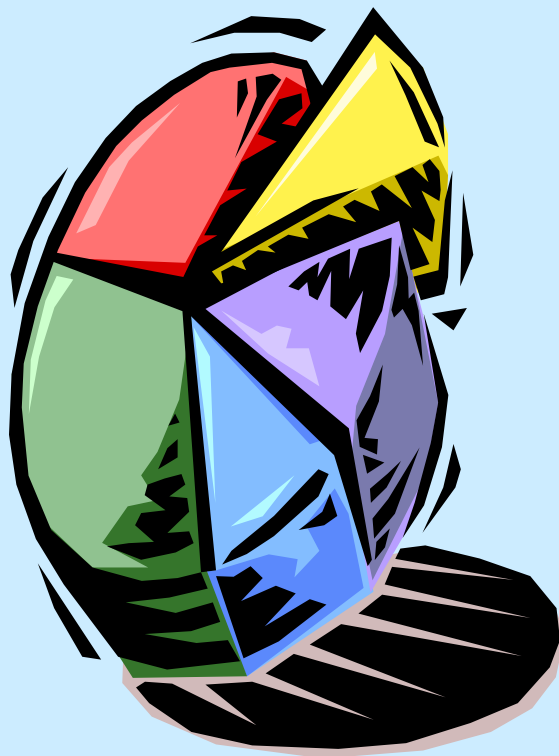
New control measures



- Majority of control measures already committed to in prior plans
- Most of the District's new control measure commitments required by state law



Reductions in this Plan



- The new District and ARB emission control measures needed for attainment demonstration in this plan represent a small percentage of the total VOC & NO_x reductions needed for attainment
- The majority of needed emission reductions were included in previously adopted plans such as the 2003 *PM₁₀ Plan* and the 2003 *State & Federal Strategy*

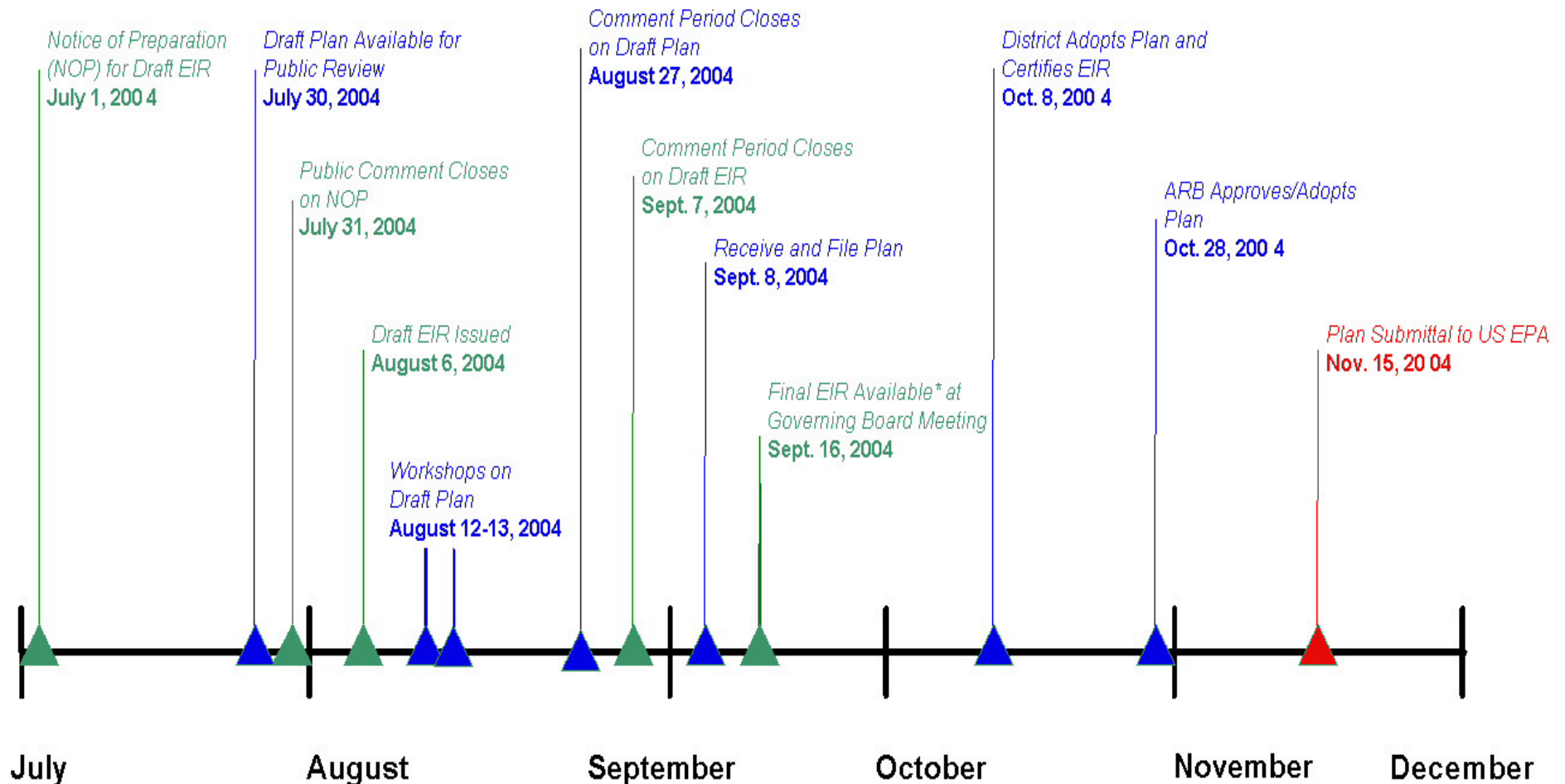


Long-term measures

- **Extreme areas can place needed emission reductions in category of Long-Term Measures [CAA 182(e)(5)]**
- **SJVAB's long-term category is 5 tpd of VOC and 5 tpd of NOx**
- **For 1-hr plan, District must identify specific measures by spring 2007 to achieve these reductions; 8-hr plan (winter 2007) will use these reductions if EPA revokes 1-hr standard by then**



Extreme Ozone Attainment Demonstration Plan for the SJVAB



*Earliest date for availability of Final EIR

Emission controls continue

- District continues to implement emission control measures from *2002/2005 Ozone ROP Plan*
- District and ARB continue to implement emission control measures from *2003 PM10 Plan*
- *Extreme Plan* identifies new emission control measures through 2007



Next steps

- Complete workshops
- Summarize and respond to comments on Plan
- Revise Plan based on comments received
- Prepare Final EIR
- Plan adoption/EIR certification in October 2004

