



CASA Particulate Matter (PM) and Ozone Implementation Team

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Presentation Outline

- Purpose of the CASA Team
- Background on the Canada-wide Standards and CASA PM and Ozone Management Framework
- Results of the 2002-04 assessment
- Air quality management plan
- Progress to date and next steps



Team Goal

- The CASA Team was established in June 2005 – team has met five times
- Significant progress in addressing recommendations
- The goal of the team is:
“To support and when required, facilitate, the timely implementation of the Alberta Particulate Matter and Ozone Management Framework (2003)”



Key Recommendations

- Annual reporting on CWS achievement through assessments conducted by Alberta Environment (AENV)
- Review of Ambient Air Quality Objectives for PM and ozone
- Improvements to the ambient monitoring system in light of the results of the annual assessments
- Review of trigger levels and the annual analysis process



What are the Canada-wide Standards?

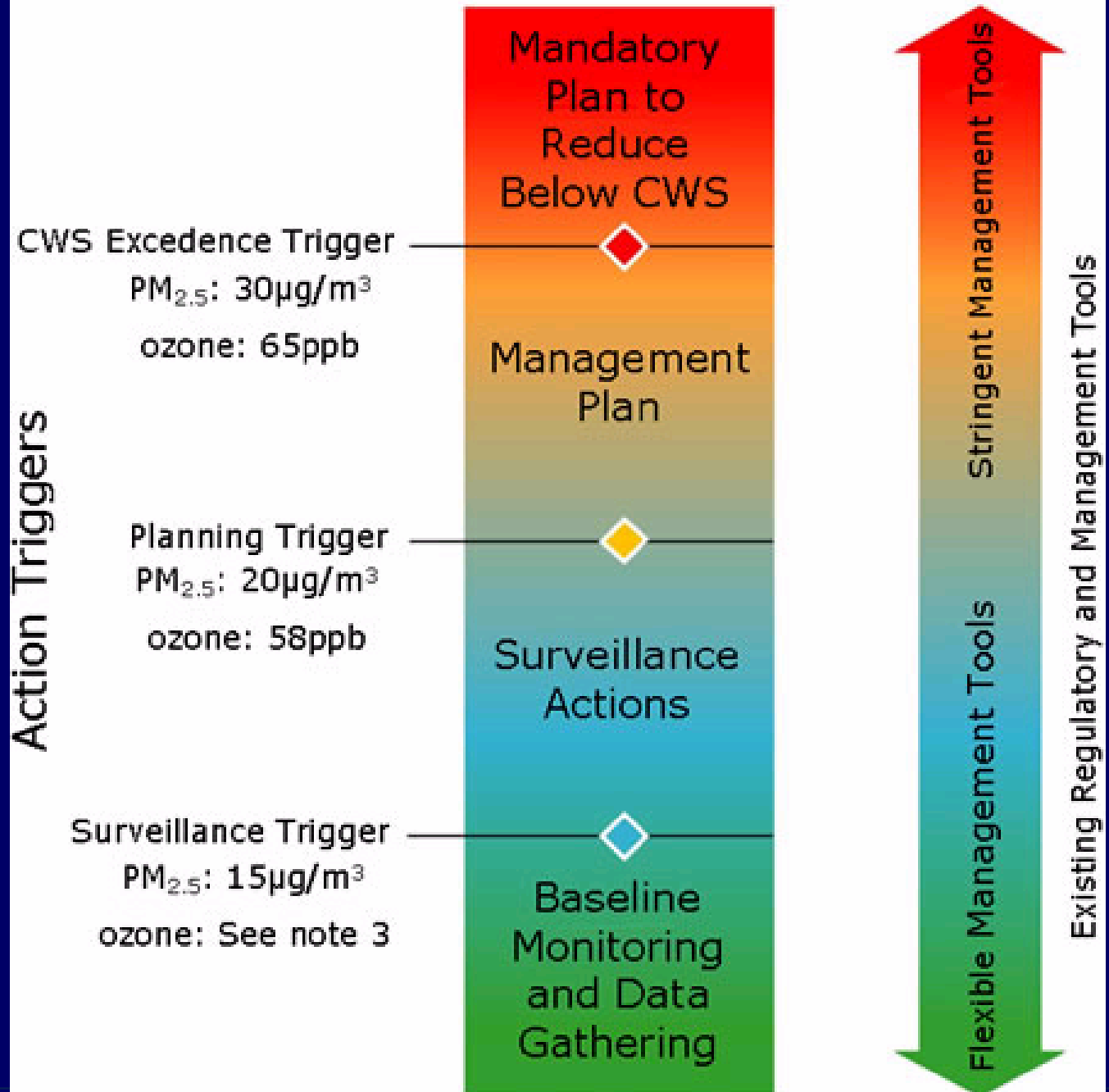
- National standards for fine particulate matter and ozone established in 2000
- Create a balance between minimizing risks to public and environmental health and the costs of reducing emissions
- Standards must be achieved by 2010



CASA PM and Ozone Management Framework

- Alberta's plan for achieving the Canada-wide Standard
- Based on the principles of:
 - continuous improvement
 - pollution prevention
 - keeping clean areas clean
- The framework has three triggers and four corresponding levels

Action Levels





Data Assessment Process

- Annual assessments are conducted by AENV
- The assessment is based on three consecutive years of data
- Data assessment involves:
 - Conduct initial assessment based on data available in the CASA Data Warehouse
 - Remove episodes that were primarily caused by background, transboundary or natural influences
 - Re-assess the data
 - Assign trigger levels to Edmonton and Calgary CMAs and all other individual monitoring stations

2002-04 Assessment Results for Ozone

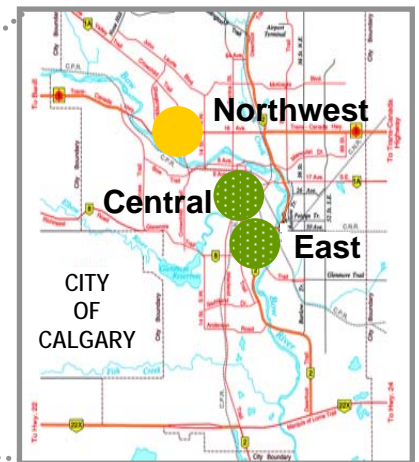
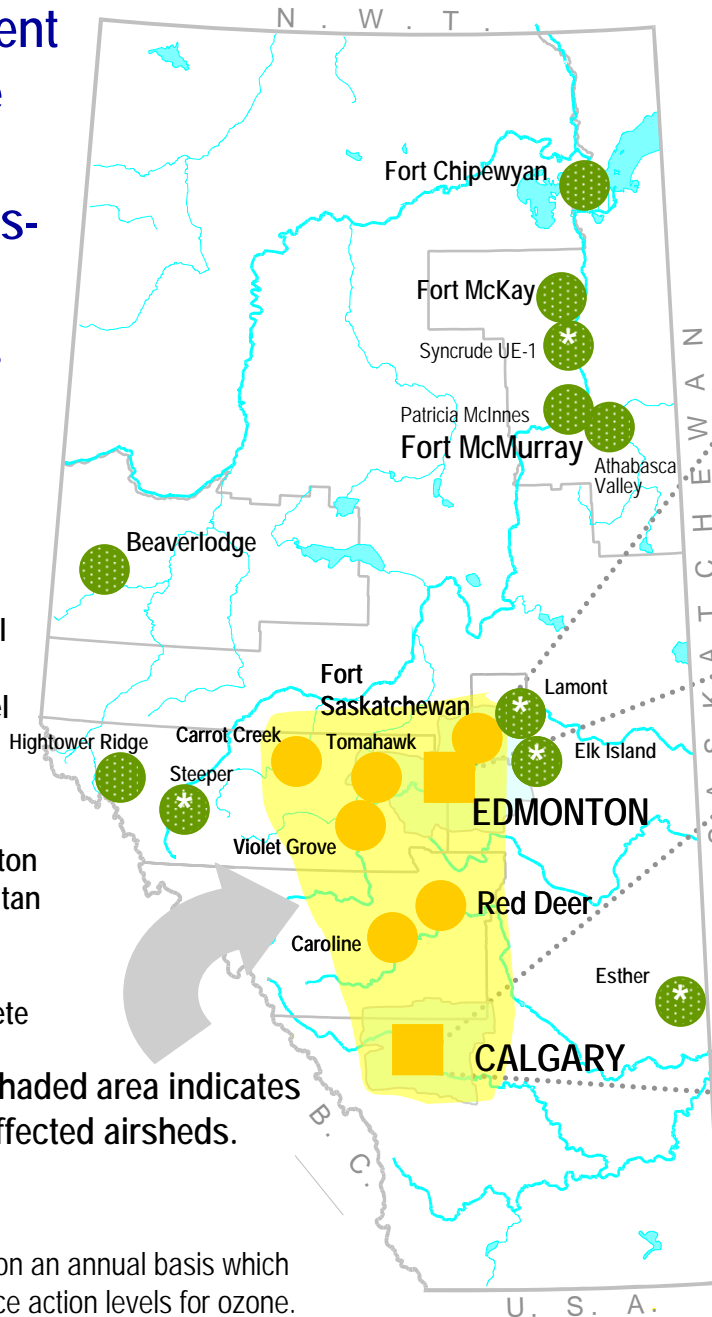
(background, trans-boundary and natural influences removed)

- CWS Exceedance Action Level
- Management Plan Action Level
- Surveillance Action Level

Squares represent the Edmonton and Calgary Census Metropolitan Areas (CMAs).

Asterisk (*) indicates incomplete data set.

Shaded area indicates affected airsheds.



Alberta Environment will determine on an annual basis which areas are in baseline and surveillance action levels for ozone.



Assessment Results

- Areas assigned to the Management Plan action level for ozone are:
 - Edmonton CMA including monitoring stations in the Fort Saskatchewan and West Central airsheds
 - Calgary CMA
 - Monitoring stations in the Parkland airshed
- Stakeholders need to develop a management plan aimed at preventing future exceedances of the CWS trigger that will consider:
 - population growth
 - industrial activity
 - air quality trends
- AENV may impose a management plan if it is not developed within two years by stakeholders.



Air Quality Management Plan

- Designed to facilitate multi-stakeholder responsibility for air quality
- Implemented by various levels of government, the private sector and non-government organizations
- Uses a variety of regulatory and non-regulatory mechanisms:
 - Regulations and bylaws
 - Incentives for using environmentally responsible modes of transport



What has been done?

- Annual analysis have been completed for first three cycles (2001-03, 2002-04 and 2003-05)
- Report summarizing results from 2001 to 2006 will be released in the fall
- Stakeholders in the affected areas have been informed and are expected to develop an air quality management plan by the end of 2008
- Airsheds are at different stages in developing these management plans
- Guidance/support/assistance/leadership may be needed from AENV



What is being done?

- **AENV is**
 - Identifying resources needed to support management plan development
 - Developing a template that airsheds may follow for a management plan
 - Developing a strategy for a province-wide knowledge system for air emissions and air modelling
 - Looking at our regulatory backstop
 - Determining our role in developing a management plan after the two year time period



Next Steps

- Develop air quality management plans for the affected areas
- Complete review of ambient monitoring network
- Continue annual assessments
- Complete review of ambient air quality objectives
- Initiate review of the CASA PM and Ozone Management Framework