

OZONE ADVANCE



AIR QUALITY PROGRAM TO MINIMIZE THE IMPACT OF NONATTAINMENT

SUMMARY

- ☞ Overview of City's Air Quality Program
- ☞ Ozone
 - Emissions; Compliance; Impact of Non-Attainment
- ☞ EPA Ozone Advance Program
- ☞ Ozone Advance Path Forward Plan
- ☞ City of Wichita Ozone Advance Action Plan
- ☞ Ozone Alerts and Responses
- ☞ Next Steps

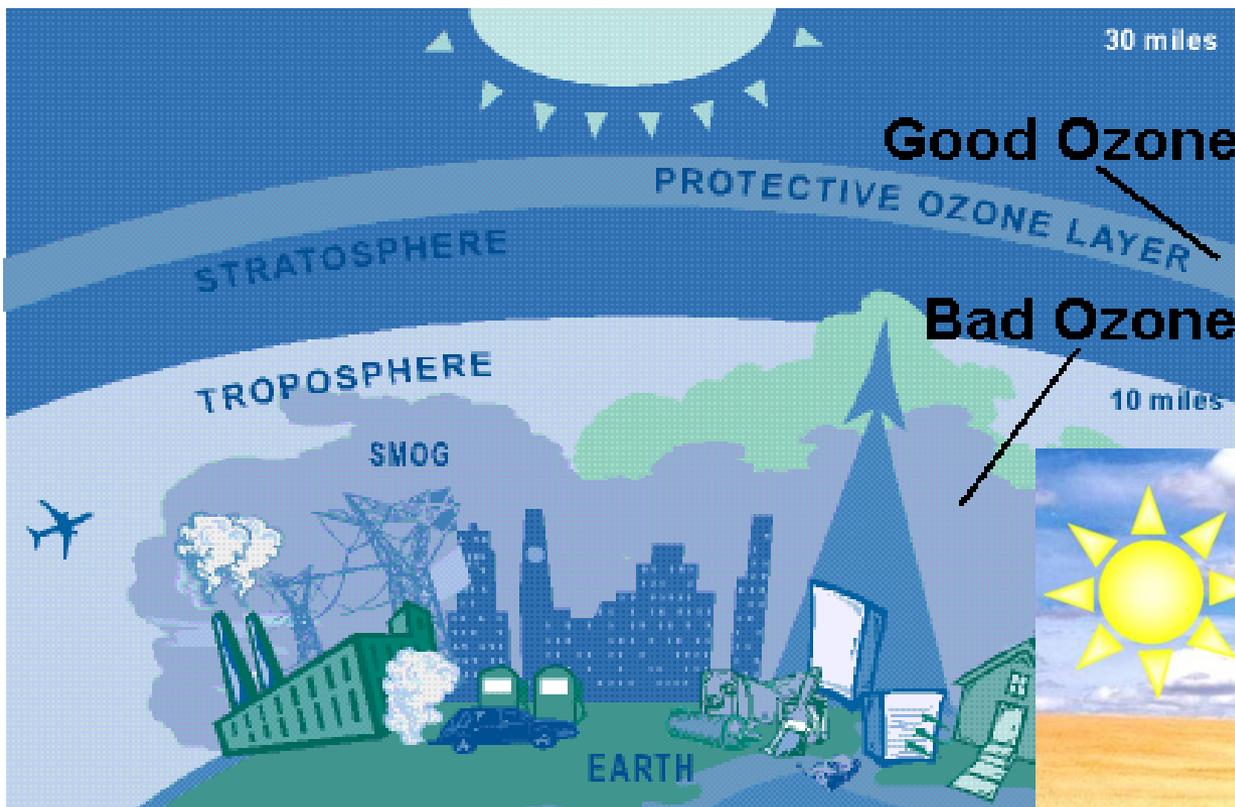


City of Wichita Air Quality

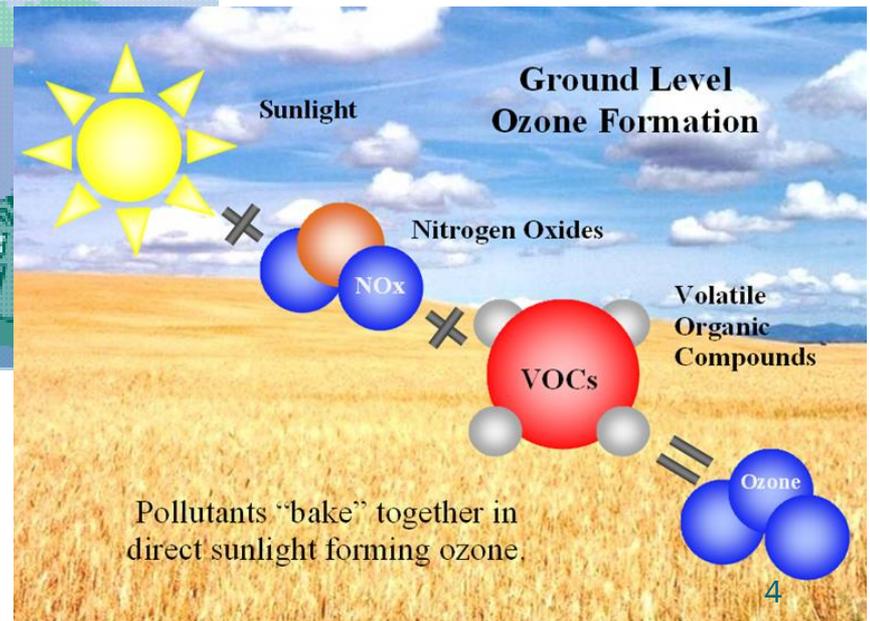
- ☞ Funding & agreements
- ☞ AQ staff – 4 air quality specialists
- ☞ Services
 - Inspections of Federally Permitted Industries
 - Local Agent for State Open Burn Permits
 - Public Education and Assistance
 - Ambient Air Quality Monitoring
 - Regional Air Quality Improvement: Air Quality Improvement Task Force (AQITF) and Ozone Advance
 - Indoor Air Quality
 - Hazardous Materials Incident Response



Ozone



GOOD OZONE VS BAD OZONE

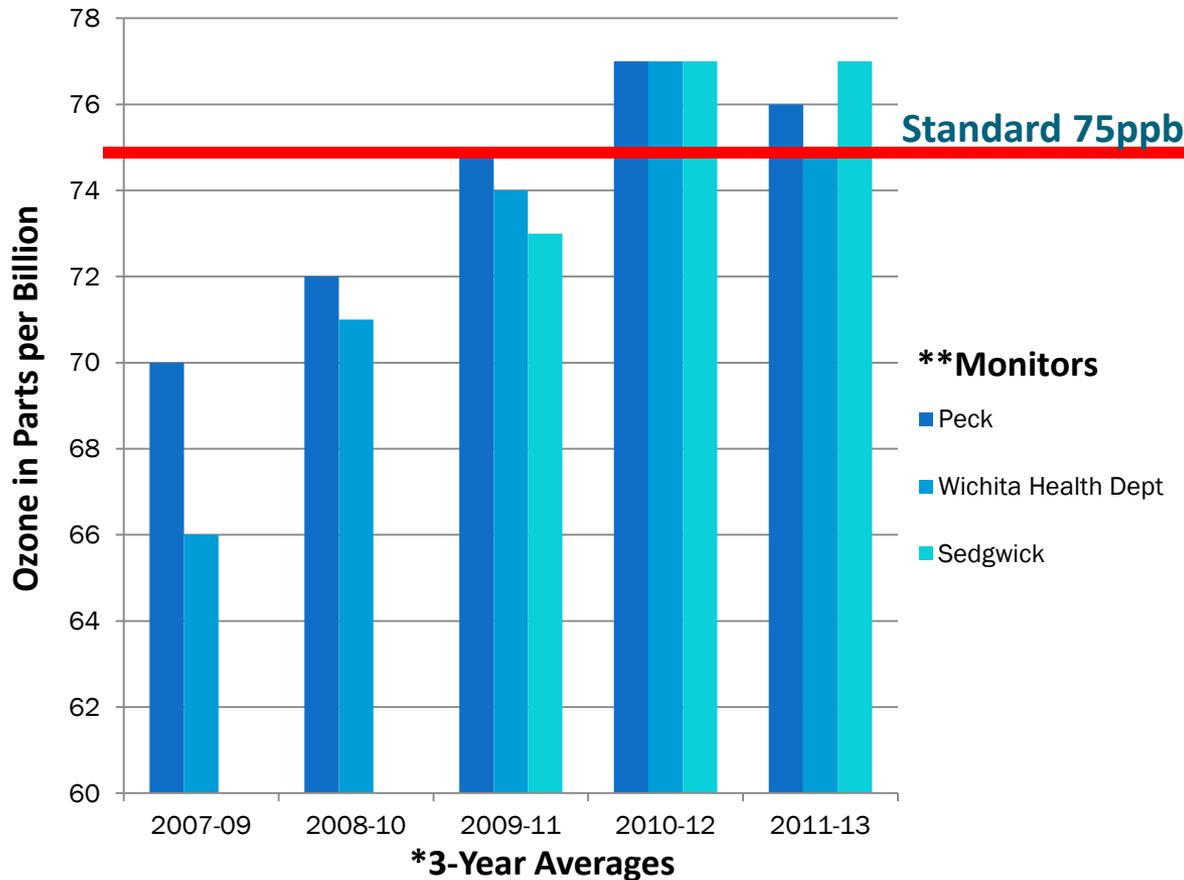


EMISSIONS + SUNLIGHT & HEAT = BAD OZONE

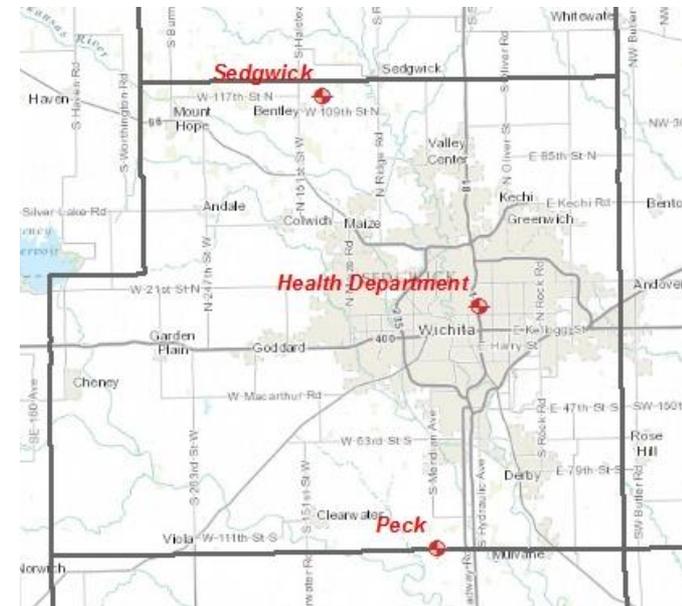
Ozone – Standard & Compliance

*Compliance Based On: Three-Year Averages of the 4th Highest Reading

**From any of the 3 Ozone monitors



Monitor Locations



Ozone – Compliance & Classifications

Attainment

Meeting the Standard

Current Status

Ozone Advance

Voluntary program to reduce emissions

Nonattainment

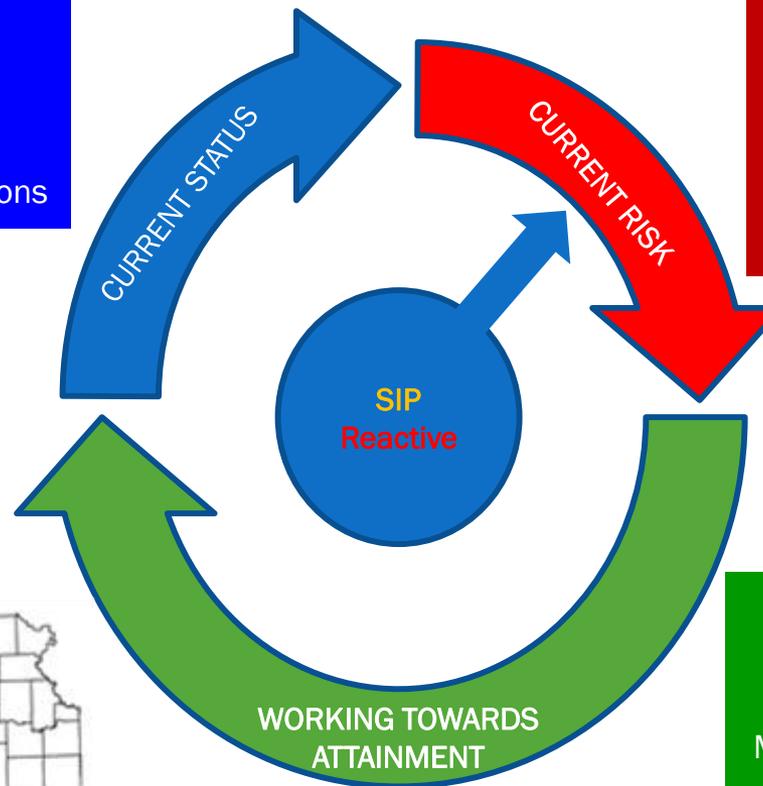
Not Meeting the Standard

Additional Federal Regulations

State Implementation Plan

Transportation Conformity Analysis

Wichita Metropolitan Statistical Area (MSA)



Maintenance

Meets the Standard Again

Maintain the standard for 10 yrs min

Potentially fewer restrictions & requirements

Ozone – Current Status

MSA Monitoring Sites	2007-09	2008-10	2009-11	2010-12	2011-13	Critical Value 2014
Peck	70	72	75	77	76	76
Health Dept.	66	71	74	77	75	77
Sedgwick			73	77	77	77

*Ozone levels measured in ppb.

Ozone – Impact of Non-Attainment

WHO PAYS?

BUSINESS & INDUSTRY

- ⌘ More Federal Regulation
- ⌘ More Stringent Permitting Requirements for Industry
- ⌘ Increased Costs for Businesses
- ⌘ Loss of New Business
- ⌘ Road Funding Impacts

CITIZENS & VISITORS

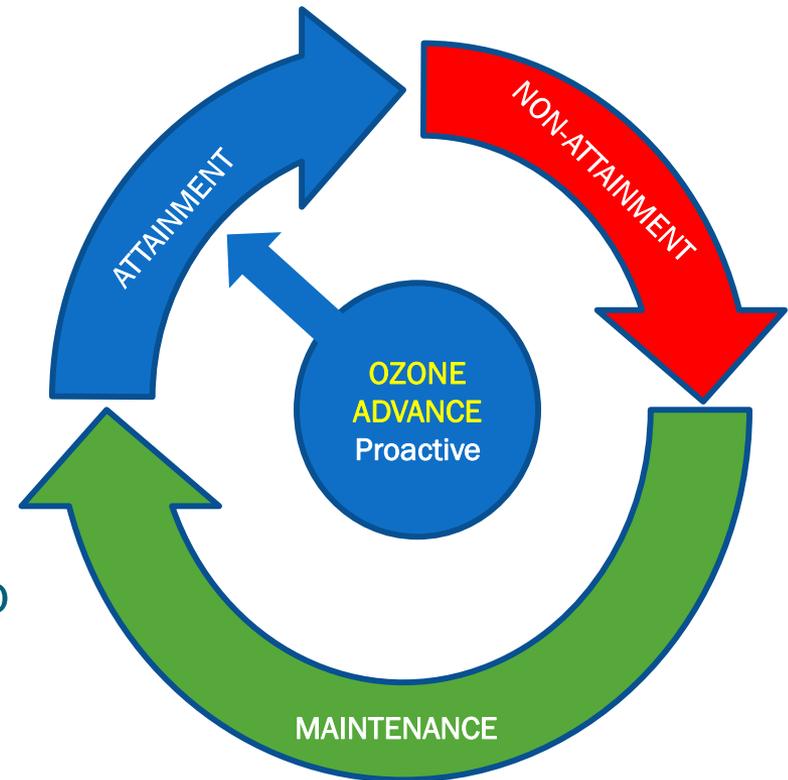
- ⌘ New Fuel Blend Requirement
- ⌘ Higher Fuel Costs
- ⌘ Higher Energy Costs
- ⌘ Health Care Costs for Some Individuals
- ⌘ Decreased Quality of Life

Cost estimates range in the tens of millions of dollars annually and are ongoing for at least 10 years.



EPA Ozone Advance Program

- ☞ A Voluntary EPA Program
 - aimed at reducing Ozone emissions
- ☞ Implemented while still in Attainment
- ☞ Requires a Path Forward document
 - Outcome based projects
- ☞ May influence classification status
- ☞ Path Forward or established components may be incorporated into the SIP



Air Quality Improvement Task Force

- Established 1998
- Leads Ozone Advance Path Forward Plan**
- Seeks participation by local governments, school districts, businesses and industries across the MSA
- Path Forward** –submitted to EPA and includes a menu of **outcome based projects** to select from
- Assists in development of ozone action plans
- Maintains & updates the Ozone Advance Path Forward
- Collects Measures & Outcomes
- Reports to EPA



The Path Forward Plan

Objectives

- Protect health
- Protect economic vitality
- Influence regulators and attainment status

Strategies

- AQITF Lead Regional Effort
- Build Participation
- Identify Outcome Based Projects
- Identify Funding Opportunities

Project Includes

- Objectives & Strategies
- Regional Engagement & Education
- Maintain the Path Forward Menu Projects
- Funding Opportunities
- Performance Measures
- Tracking and Reporting to EPA
- Reviewing, Revising and Improving



City of Wichita

Ozone Advance Action Plan

- ☞ A City of Wichita **plan of action**
- ☞ **Outcome based** projects approved by City Council that are in alignment with the Path Forward
- ☞ Internal and external engagement
- ☞ Includes internal operations to reduce Ozone emissions
- ☞ Includes projects that benefit the community
- ☞ **Lead by City staff**
- ☞ Local stakeholder participation
- ☞ Reports to the AQITF for regional reporting to EPA



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Past Air Quality Projects

- ☞ Railroad Bridges*
- ☞ Intelligent Transportation System (ITS)
- ☞ No Idling Policies*
- ☞ Diesel Improvements*
- ☞ Wichita Master Bicycle Master Plan*
- ☞ Transit Alternative Fuel Study*
- ☞ Compressed Natural Gas Fueling Station



Present Path Forward Projects

- ☞ Developing Ozone Action Plan*
- ☞ Increasing regional participation in AQITF
- ☞ Ozone Alert Day Notifications*
- ☞ Free Fares Project*
- ☞ Clean Air Car Clinics*
- ☞ AERO Workshops
- ☞ Wichita Master Pedestrian Plan*
- ☞ Vanpool Study (WAMPO, COW, Transit)



*City of Wichita Project



Ozone Alerts

- Project to help avoid high ozone days
- Proactive vs Reactive
- 24 hour forecasting
- Minimize disruption of City crews
- Afternoon updates

Today's Forecast



On **Good Ozone Days** ozone levels are forecasted to be below the standard.
Apply **normal** City operations.
No health impacts expected.

Tomorrow's Forecast



On **Ozone Alert Days** ozone levels are forecasted to be above the standard.
Make adjustments to City operations to reduce emissions of **NOx** and **VOCs** that cause ozone. See "Ozone Alert Actions" below for more details.
Health impacts may be observed for active children and adults, as well as people with respiratory diseases like asthma and bronchitis. Limits to outdoor exposure are recommended.

COW Staff Alerted

Alert Email to Supervisors & Managers

City Portal

Community Alerted

KDOT Highway Signs

Alert Email Sign Up

Press Releases

Ozone Alert Response – City of Wichita

Ongoing

- ☞ Gear Up prior to April 1st
- ☞ Present Plan to City Divisions and Work Groups
- ☞ Continue No Idling Policy
- ☞ Monitoring & Forecasting



Alert Response

When the Next Day is forecasted to be an Ozone Alert Day

- ☞ Postpone Mowing and Small Engine Use
- ☞ Postpone Painting & Solvent Use
- ☞ Reschedule Non-essential Work and Driving
- ☞ Refuel Before 10AM or after 6PM
- ☞ Promote Free Fares and Carpooling

Ozone Alert Response – Community

Every Day

- ☞ Fuel when it's cool
- ☞ Mow when it's cool
- ☞ Stop at the Click
- ☞ No Idling – turn off engine when sitting for longer than 30-seconds
- ☞ Reduce Driving Miles – trip chain, carpool, ride the bus, bike or walk
- ☞ Conserve electricity



Alert Response

When the Next Day is forecasted to be an Ozone Alert Day

- ☞ Postpone fueling
- ☞ Reschedule errands
- ☞ Postpone lawn work
- ☞ Avoid using paints, varnishes and solvents
- ☞ Carpool, ride the bus, bicycle or walk
- ☞ Free Fares

Other Projects Included in the Path Forward

- ☞ Workplace Programs
- ☞ Model Contracts
- ☞ Fleet Improvements
- ☞ Road Improvements
- ☞ Transit Improvements
- ☞ Alternative Fuels Infrastructure
- ☞ Energy Efficiency Programs/Projects
- ☞ Travel System Management
- ☞ Ozone Forecast Modeling Technology
- ☞ Emission Source Modeling



Ozone Advance Next Steps

Regional Path Forward Plan

Next

- AQITF spearheads regional stakeholder engagement
- Build on AQITF with Ozone Advance Partners
- Engage other local governments, school districts, business and industry
- Develop Performance Measures that tie to Path Forward menu
- Research - for example, explore modeling to demonstrate where ozone comes from and impact on attainment status

Future

- Receive participant reports
- Compile data and report to EPA
- Update and revise Ozone Advance Path Forward



Ozone Advance Next Steps

City of Wichita Action Plan

Next

- Participate with AQITF in regional stakeholder engagement
- Finalize City of Wichita Action Plan

Future

- Present projects from Action Plan to City Council for approval
- Implement projects
- Track, measure and report to AQITF
- Review and Renew City Action Plan as needed



Questions & Comments



The AQITF meets every second Wednesday of most months at 1:30 Environmental Health Bldg 1900 E. 9th St.

Contact

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268-8350

to receive meeting notices



Don't let clear skies fool you, we all need to **BE AIR AWARE**

Sign up for Ozone Alert Emails at www.tinyurl.com/wichitaozonealert