

Utah Department of
**Environmental
Quality**

Air Quality Update





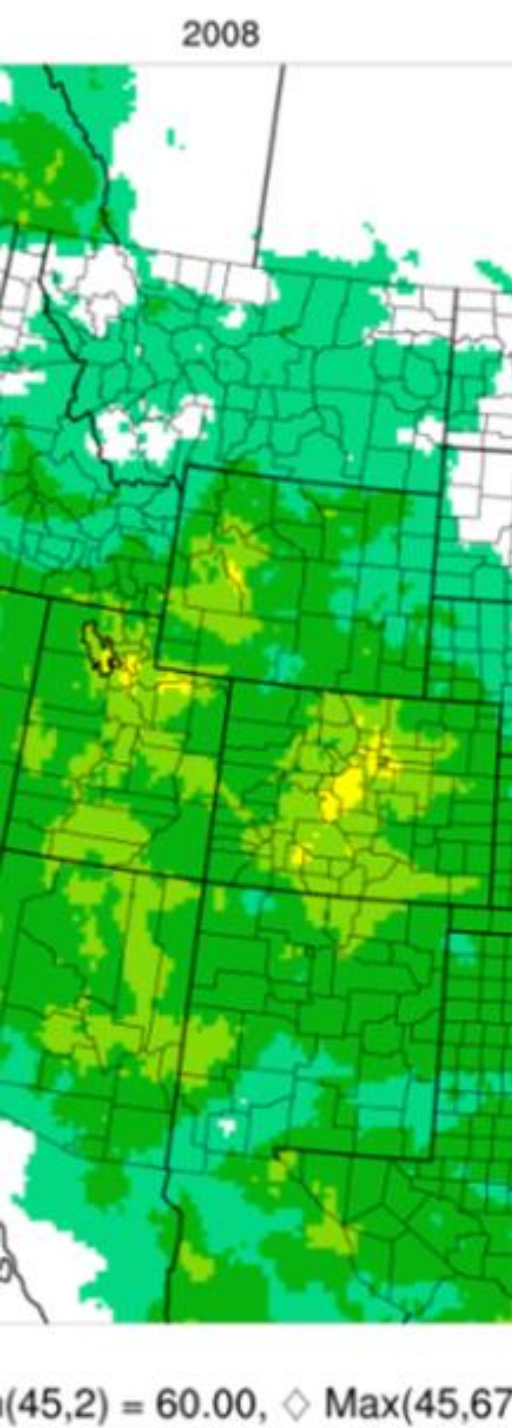
Overview

- Important Facts
- Upcoming Issues
 - New Ozone Standard
 - Clean Power Plan (111(d))
 - PM 2.5 Serious Area SIP
 - Regional Haze Second Planning Period
- Air Quality Budget Needs



Important Facts

- Air Quality is improving and is generally good, however, does not meet health standards on some days
- Perceptions about Air Quality impact Quality of Life and Economic Development
- Improving Air Quality is among the top three issues important to Utahns
- The majority of Utahns are willing to do more to improve Air Quality
- Current Air Quality Funding represents 1/1000 of the annual state budget



Upcoming Issues

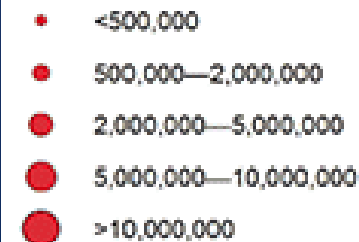
- New Ozone Standard (Based on Proposed Rule)
 - To be finalized by October 1, 2015
 - Non-attainment state recommendations in 2016
 - New Air Monitoring Requirements 2017
 - Expanded network to represent entire state
 - New chemical analysis requirements
 - New State-wide inventories and models 2017-2020
 - New State Implementation Plans 2020

Upcoming Issues

- EPA Clean Power Plan (111(d))
 - Final rule published August 3, 2015
 - Interim Reduction targets 2022, Final reductions 2030
 - 37% reduction in rate of emissions, or
 - 23% reduction in total mass of emissions from 2012 levels
 - Requires interim state plan for implementation by September 6, 2016
 - Extensions are possible until 2018
 - Litigation has started

GHGRP, 2013

Power Plants Sector Emissions (metric tons CO₂e)



Data Source: 2013 Greenhouse Gas Reporting
As of: 08/18/2014

Upcoming Issues

- PM 2.5 Serious State Implementation Plan (SIP)
 - Areas not meeting the standard by 2015 are reclassified as serious non-attainment areas
 - Serious area controls are required 18 months after bump-up
 - New Serious area SIPs will be finalized 2017-2019
 - Cache County and possibly Utah County may avoid reclassification based on 2015 air quality
 - A focused public and business effort is needed this fall to ensure that the standard is achieved



Upcoming Issues

- Regional Haze 2nd Planning Period 2018-2028
 - EPA will finalize requirements before 2018
 - New inventories and chemical analysis of air pollutants impacting visibility are required
 - Western and International modeling of air pollutant sources and impacts
 - Updated controls for identified sources





Air Quality Budget 2017

- Air Quality Research, Monitoring, Outreach and Incentive Programs (CARROT) to support:
 - Wasatch Front PM 2.5
 - Wasatch Front Ozone
 - Uinta Basin Winter Ozone
- DEQ Technical Support Center
- Air Monitoring Equipment Replacement
- Air Quality Permitting Workflow Database

Air Quality Budget 2017

Ongoing Research Funding \$200k-\$1M

- \$1 Million dollars was leveraged to \$7.8 Million in research funding for Utah
- Projects addressing various issues including:
 - Optimization of EPA modeling tools for cold temperature applications(winter inversions)
 - Wood stove emissions contribution to PM 2.5 levels along the Wasatch Front
 - Characterizing wintertime ozone chemistry in the Uinta Basin



Air Quality Budget 2017

Clean Air Retrofit & Replacement \$200k-\$700k
(CARROT)



- 388 electric mowers provided at a discounted price
 - 4-11 tons annual emissions reduced, or equivalent of removing 120 passenger cars from Utah Roads
- 25 vehicles or pieces of equipment were retrofitted.
 - 477 tons of emissions reduced

Air Quality Budget 2017

DEQ Technical Support Center

\$6M

- Consolidate 3 remote facilities to 1950 W campus
- Savings over time due to current leases and inefficiency



Air Quality Budget 2017

Air Monitoring equipment

- Beyond useful life replacements \$1M (OT)
- Equipment maintenance and replacement schedule \$400k (O)
- Near-road Nox and PM monitoring \$250k (OT)
\$50K (O)
- Cedar City population-based monitoring \$150k (OT)
\$50k (O)

Air Quality Permitting
Workflow Database

\$1.5 M (OT)

