

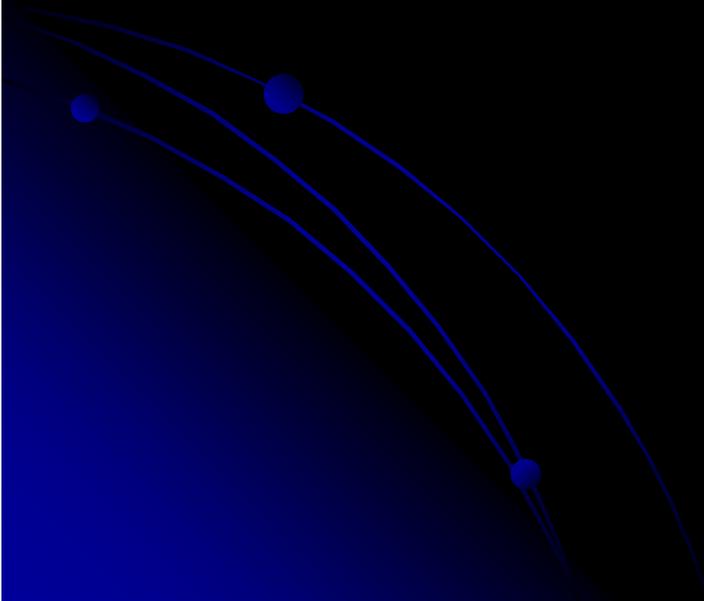
# Utah's Air Quality

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Utah experiences good air quality 95% of the time,  
on about 5% of days on average we exceed  
current federal health standards

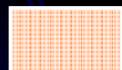


# National Ambient Air Quality Standards

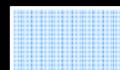
Pollutant	Primary Standards		Secondary Standards	
	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm (10 mg/m <sup>3</sup> )	8-hour <sup>(1)</sup>	None	
	35 ppm (40 mg/m <sup>3</sup> )	1-hour <sup>(1)</sup>		
Lead	0.15 µg/m <sup>3</sup> <sup>(2)</sup>	Rolling 3-Month Average	Same as Primary	
	1.5 µg/m <sup>3</sup>	Quarterly Average	Same as Primary	
Nitrogen Dioxide	53 ppb (0.053 ppm)	Annual (Arithmetic Average)	Same as Primary	
	100 ppb	1-hour <sup>(3)</sup>	None	
Particulate Matter (PM <sub>10</sub> )	150 µg/m <sup>3</sup>	24-hour <sup>(4)</sup>	Same as Primary	
Particulate Matter (PM <sub>2.5</sub> )	12.0 µg/m <sup>3</sup>	Annual <sup>(5)</sup> (Arithmetic Average)	Same as Primary	
	35 µg/m <sup>3</sup>	24-hour <sup>(6)</sup>	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour <sup>(7)</sup>	Same as Primary	
	0.08 ppm (1997 std)	8-hour <sup>(8)</sup>	Same as Primary	
	0.12 ppm	1-hour <sup>(9)</sup>	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Average)	0.5 ppm (1300 µg/m <sup>3</sup> )	3-hour <sup>(1)</sup>
	0.14 ppm	24-hour <sup>(1)</sup>		
	75 ppb <sup>(10)</sup>	1-hour	None	

Revised

2006



2008



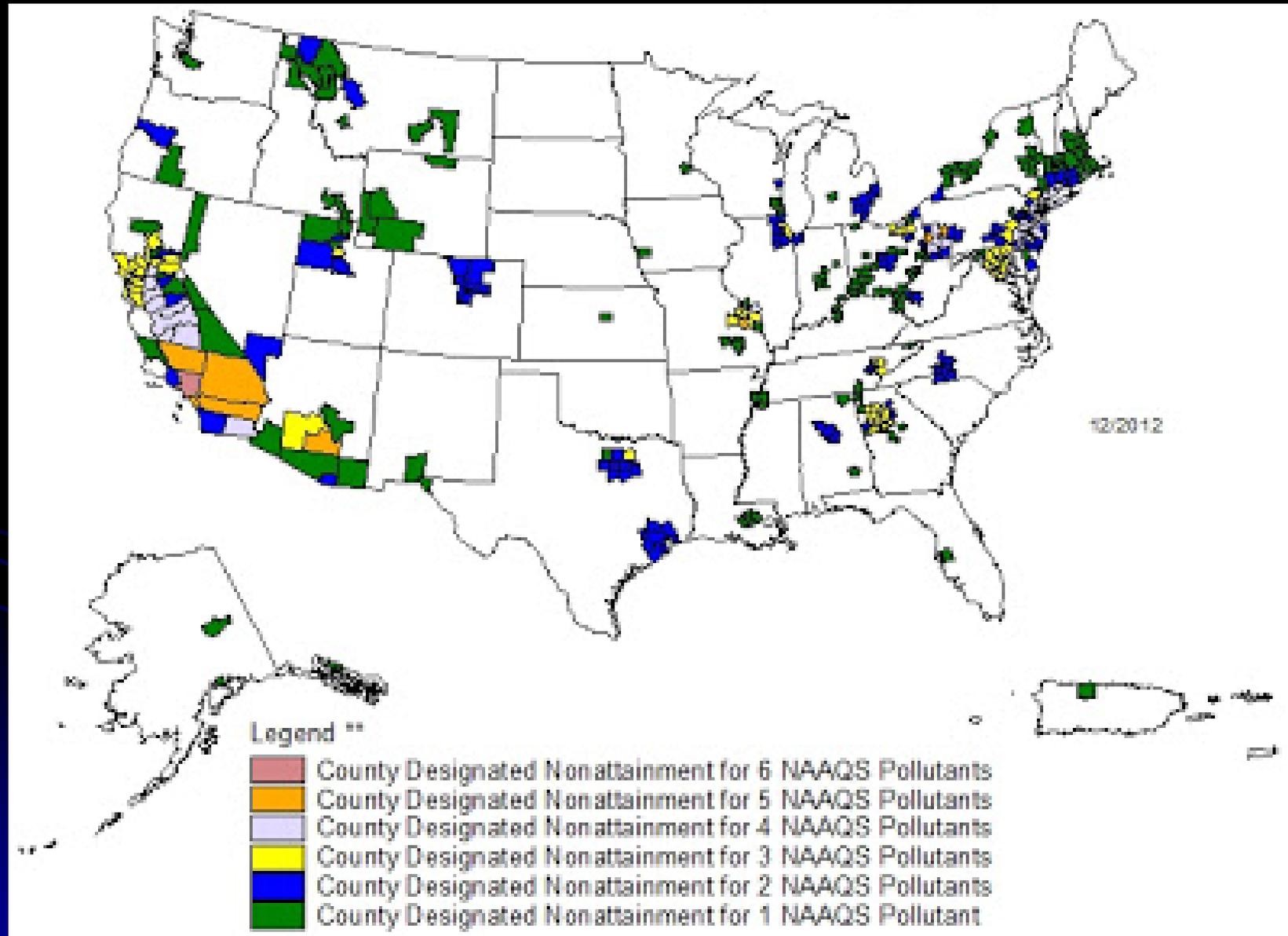
2010



2012



# Counties Designated “Non-attainment”

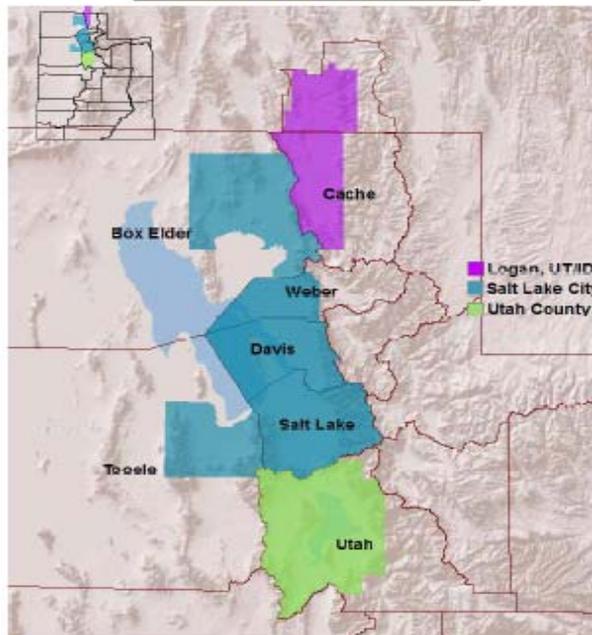


# Utah Non-attainment and Maintenance Areas

## State of Utah National Ambient Air Quality Standards

### Areas of Non-attainment and Maintenance (Updated March 2010)

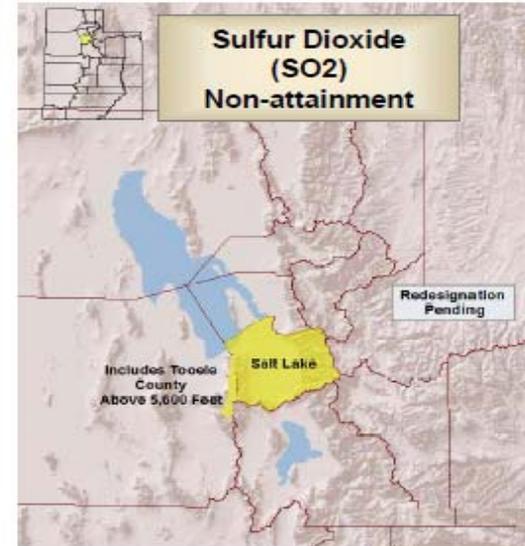
#### Fine Particulate (PM<sub>2.5</sub>) Non-attainment



#### Particulate (PM<sub>10</sub>) Non-attainment



#### Sulfur Dioxide (SO<sub>2</sub>) Non-attainment



#### Carbon Monoxide (CO) Maintenance

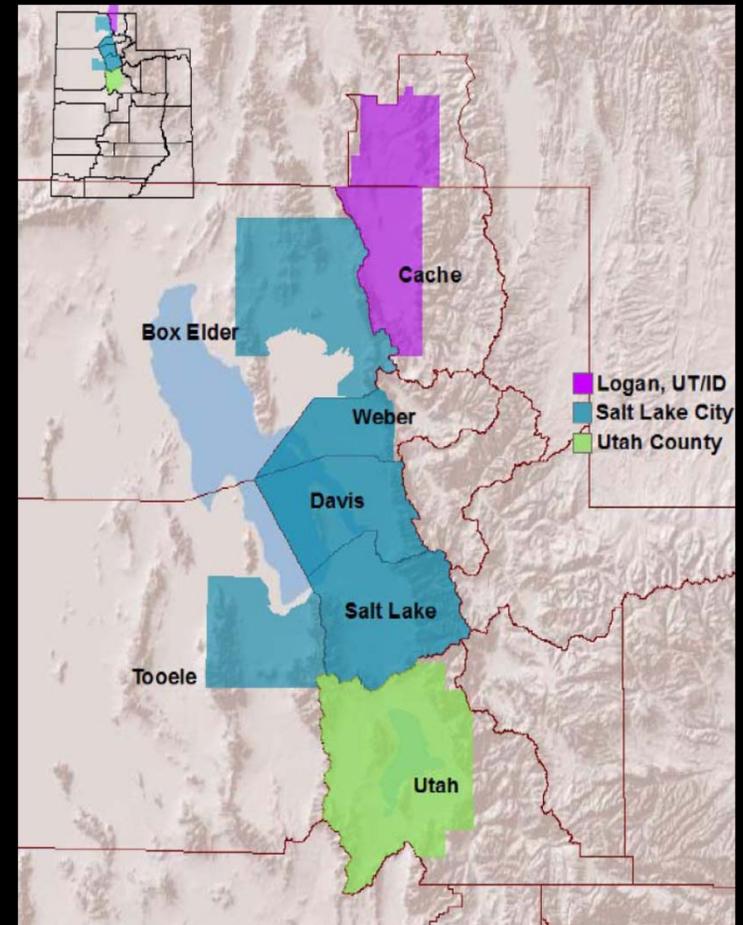


#### Ozone (O<sub>3</sub>) Maintenance



# PM2.5 - Utah's wintertime pollutant

- NAAQS lowered from 65 to 35 ug/m<sup>3</sup>
- Chemically formed during inversion periods
- 3 different non-attainment areas
- SIP due to EPA December 2012
- Working closely with EPA through the process
- Developed a Utah specific atmospheric model to evaluate strategy effectiveness
- Salt Lake and Provo SIPs to be complete by end of 2013



# Control Strategies developed through an 18-month Stakeholder Process

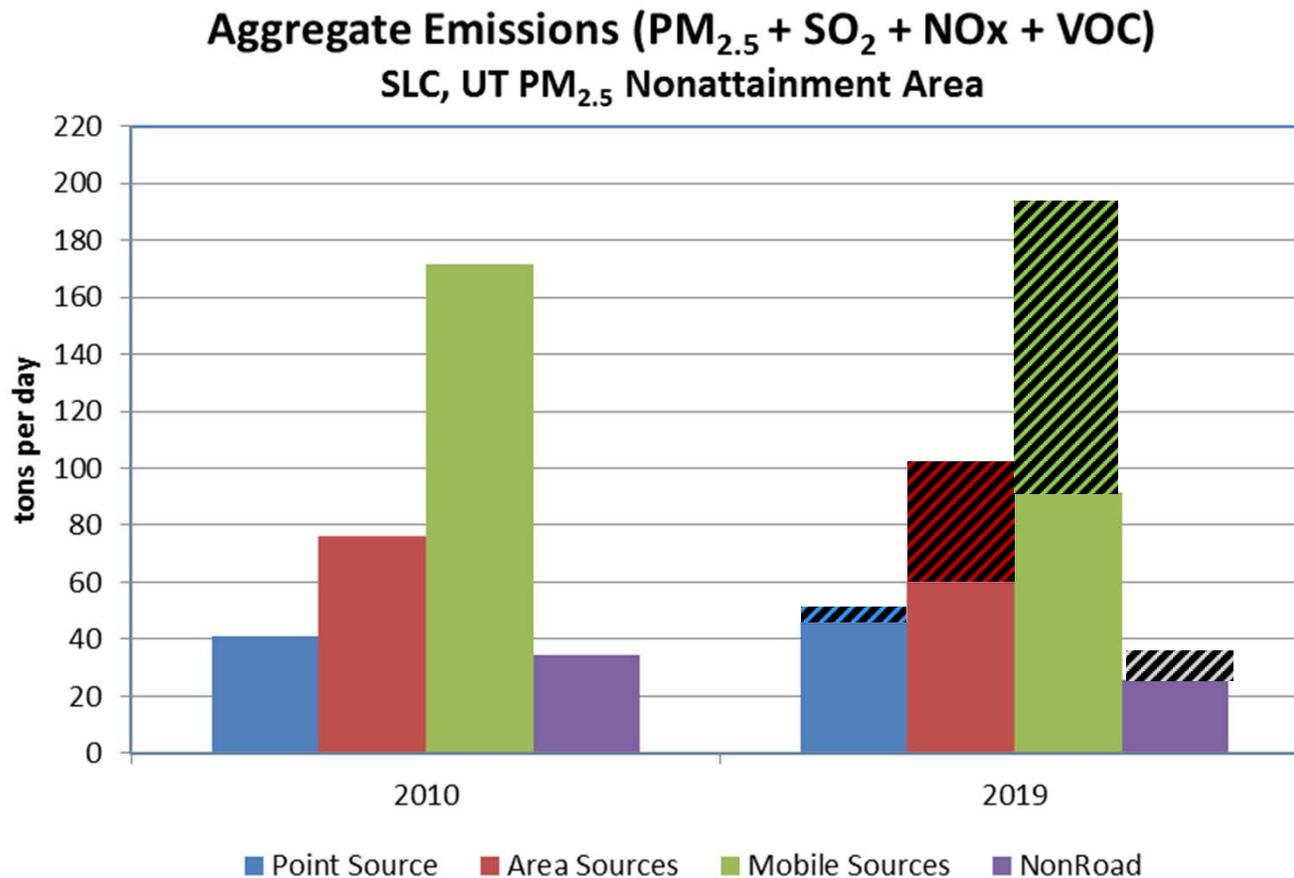
- Controls are Permanent, Enforceable and Quantifiable
- Selected based on cost, emission reduction and other environmental and operational impacts



# Emission Reductions by Source Category

Identified In the SLC, UT PM<sub>2.5</sub> SIP

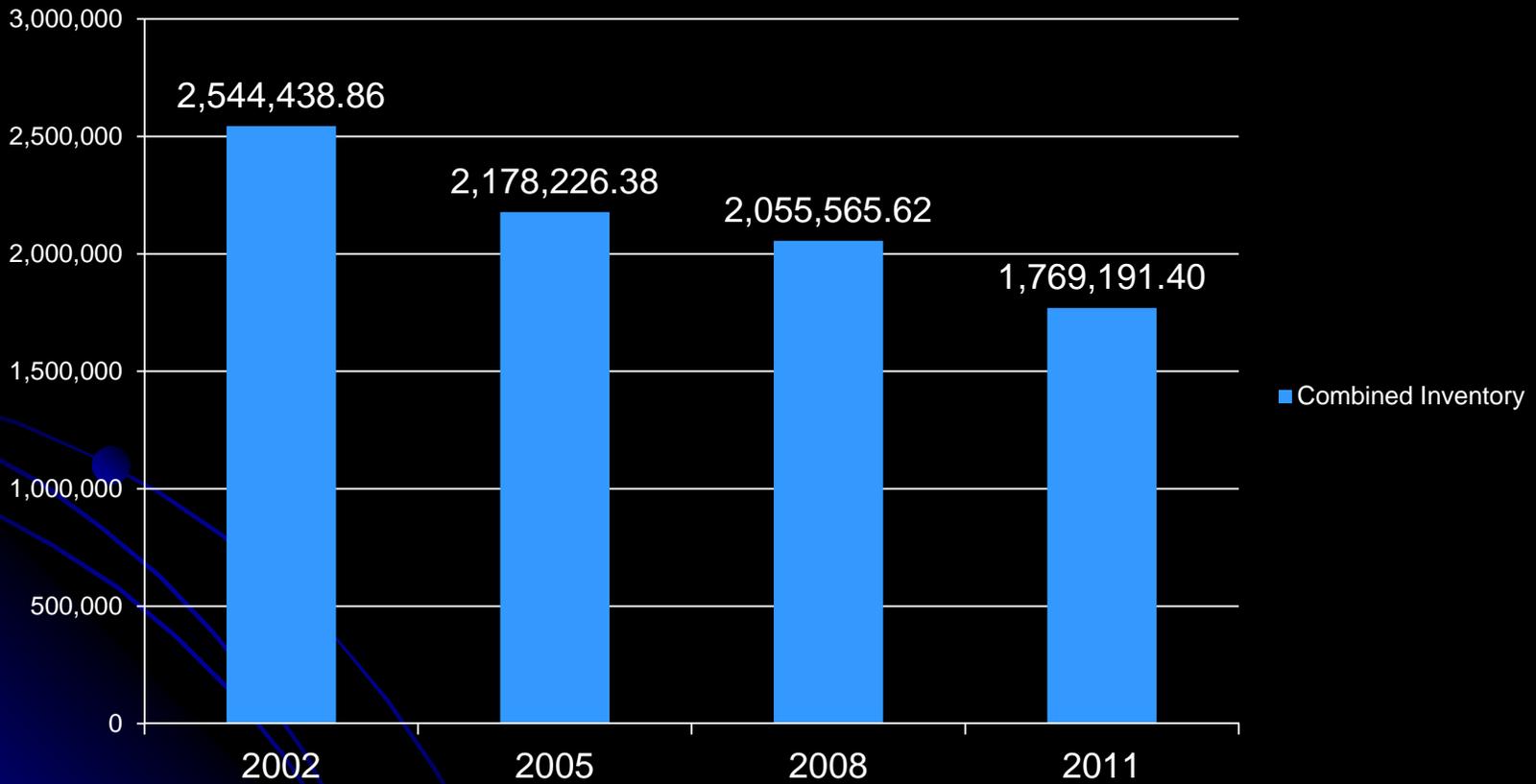
/// Hashed = SIP reductions



# Utah Summary of State Air Emissions

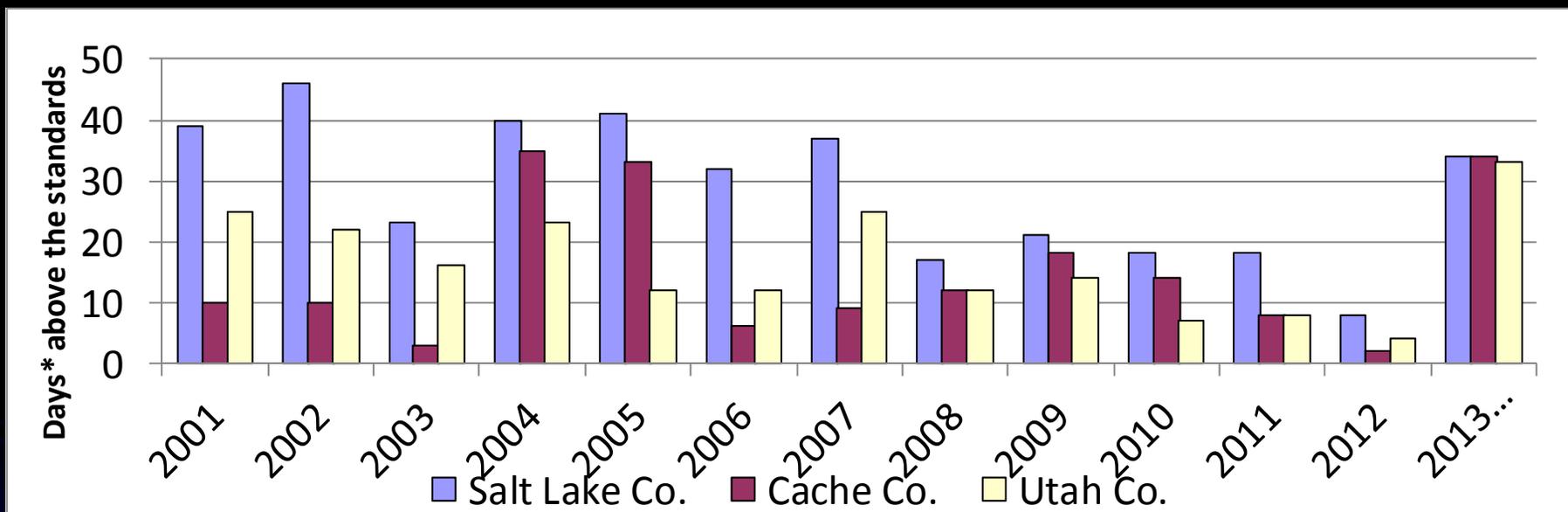
## Total Tons Emitted

### Statewide Emissions





# Number of Days That Are and Those That Would Have Been Above the Current Federal Standards Salt Lake, Cache, and Utah County Areas



\* Days Above  
Quality Standard

\*\* 2013 includes