

Implementing the Ozone Air Quality Standards

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Overview

- Current Ozone Standards
- Expected Timeline for 2015 Standards
- Requirements based on Nonattainment Classifications
- Current Status for Arizona, California, New Mexico and Texas
- Ozone Trends for Selected Areas



Current Ozone Standards

- 2008 8-hour standard: 75 parts per billion (ppb)
- 2015 8-hour standard: 70 ppb
- Annual 4th highest daily maximum 8-hour concentration averaged over 3 years



2015 Ozone Standards

- Oct. 1, 2015 decision
- Oct. 26, 2015 Federal Register publication
- 70 ppb: annual 4th highest daily maximum 8-hour concentration averaged over 3 years
- Primary (health) and Secondary (welfare) Standards are the same



Expected Timeline

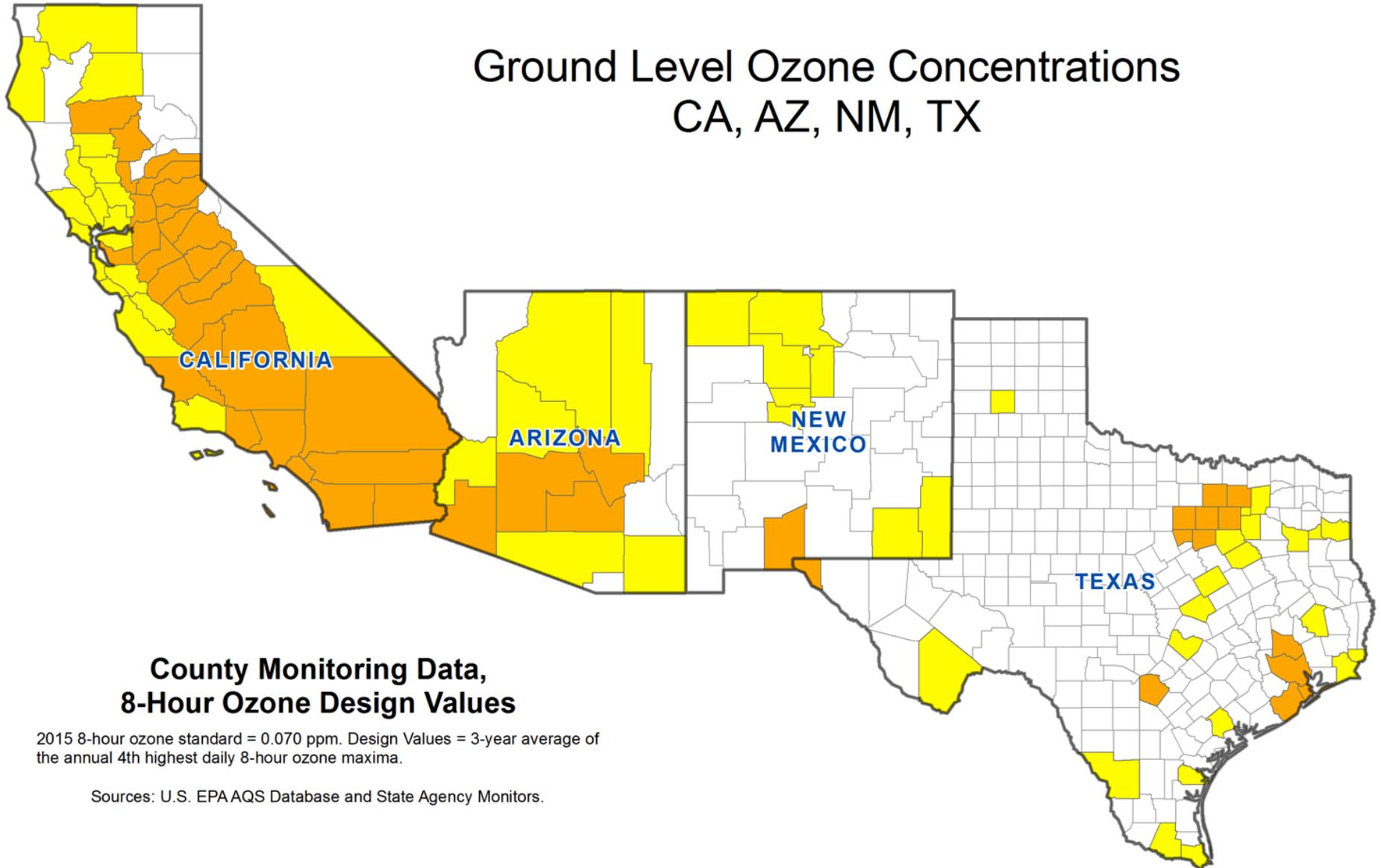
- Final standard date: Oct. 2015
- Implementation memo
 - Oct. 1, 2015
 - www3.epa.gov/ozonepollution/pdfs/20151001memo.pdf
- Recommended designations from State: Oct. 2016
- Classifications and Designations effective: Dec. 2017
- Revoke 2008 standard: Dec. 2018
- Attainment plans due: Dec. 2020 (Moderate and above)
- Attainment dates (no later than)
 - Marginal: Dec. 2020
 - Moderate: Dec. 2023
 - Serious: Dec. 2026
 - Severe: Dec. 2032



Overview of Ozone Planning & Control Requirements by Classification

		NSR offset ratio	Major source threshold	
EXTREME (20 years to attain)	TRAFFIC CONTROLS DURING CONGESTION (if appropriate)	1.5 : 1 Extreme	10	
	CLEAN FUELS REQUIREMENT FOR BOILERS			
SEVERE (15/17 years to attain)	PENALTY FEE PROGRAM FOR MAJOR SOURCES	1.3 : 1 Severe	25	
	LOW VOC REFORMULATED GAS (as appropriate)			
	VMT GROWTH OFFSET (& TCMs if needed)			
	VMT DEMONSTRATION (& TCMs IF NEEDED)			
SERIOUS (9 years to attain)	NSR REQUIREMENTS FOR EXISTING SOURCE MODS	1.2 : 1 Serious	50	
	ENHANCED I/M			CLEAN FUELS PROGRAM (If applicable)
	MODELED DEMO OF ATTAINMENT			MILESTONE CONTINGENCY MEASURES FOR RFP
	18% RFP OVER 6 YEARS			ENHANCED MONITORING PLAN
	STAGE II GASOLINE VAPOR RECOVERY			
	BASIC I/M			CONTINGENCY MEASURES FOR FAILURE TO ATTAIN
MODERATE (6 years to attain)	15% RFP OVER 6 YEARS	1.15 : 1 Moderate	100	
	MAJOR SOURCE VOC/NO _x RACT			ATTAINMENT DEMONSTRATION
	TRANSPORTATION CONFORMITY DEMONSTRATION			
	NEW SOURCE REVIEW PROGRAM			MAJOR SOURCE EMISSION STATEMENTS
MARGINAL (3 years to attain)	BASELINE EMISSION INVENTORY (EI)	1.1 : 1 Marginal	100	
	PERIODIC EMISSION INVENTORY UPDATES			

Ground Level Ozone Concentrations CA, AZ, NM, TX



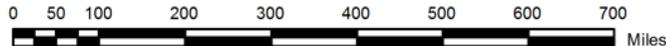
County Monitoring Data, 8-Hour Ozone Design Values

2015 8-hour ozone standard = 0.070 ppm. Design Values = 3-year average of the annual 4th highest daily 8-hour ozone maxima.

Sources: U.S. EPA AQS Database and State Agency Monitors.



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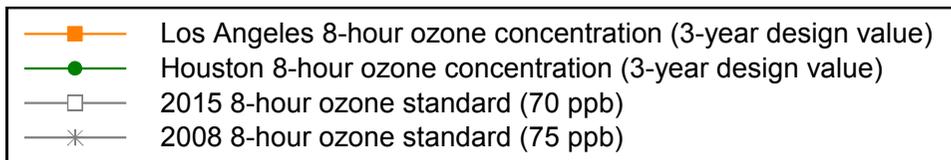
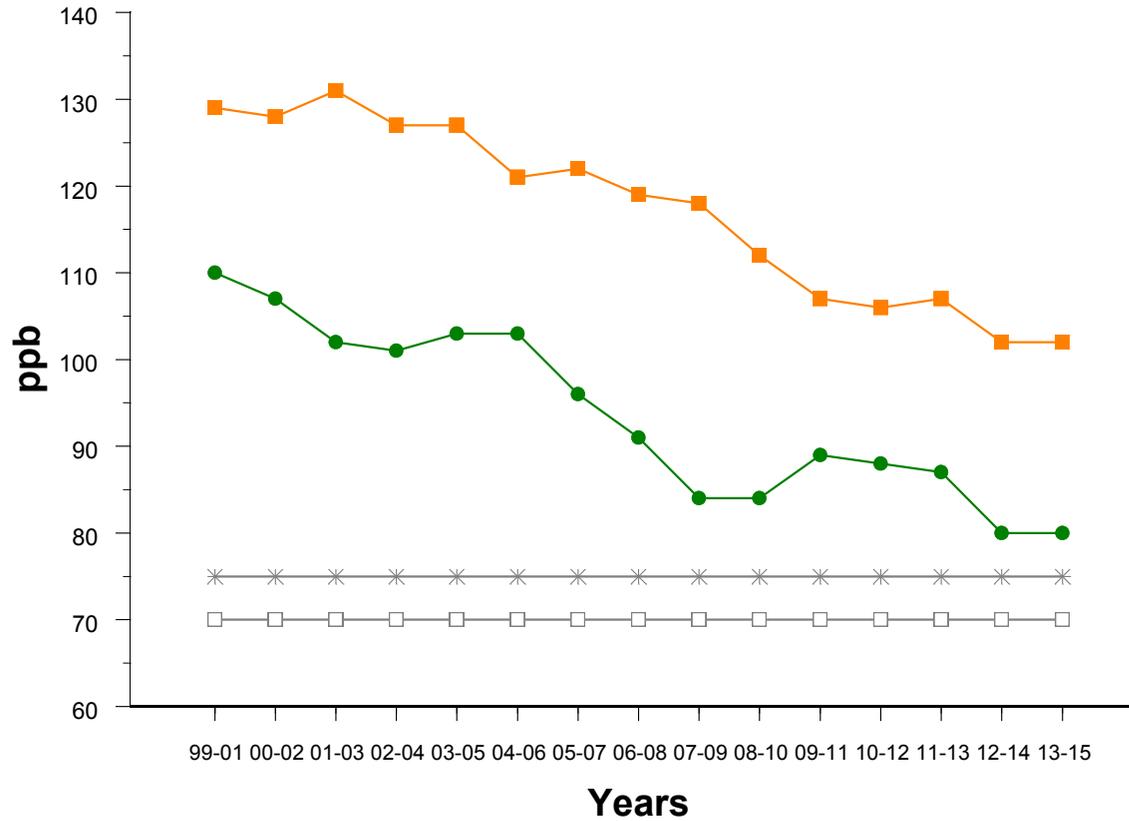
Legend

2013-2015 Preliminary 8-Hour Ozone Design Value

- 0.071 ppm and above
- 0.070 ppm and below

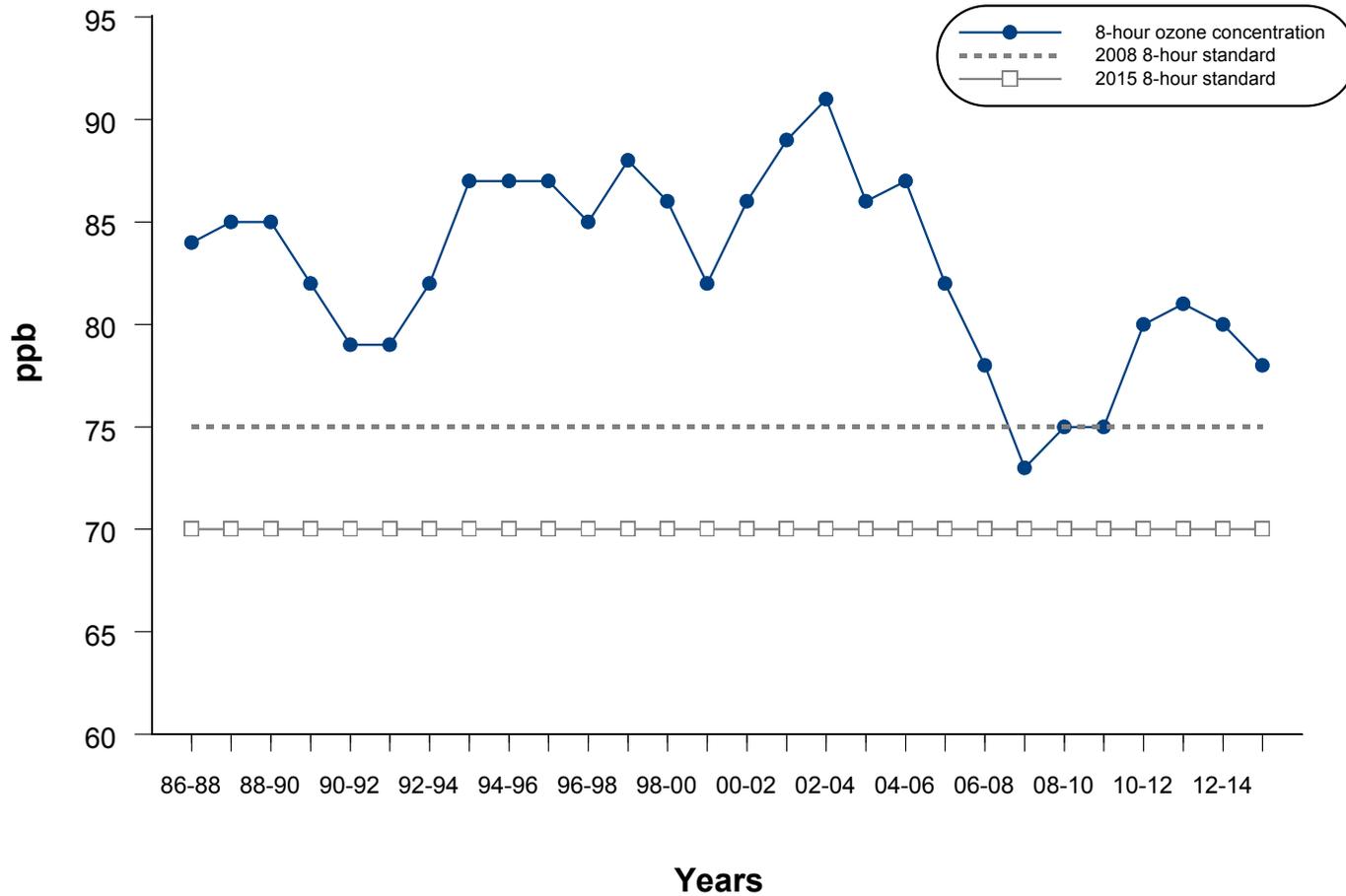
Ozone Trends

Houston, Texas and Los Angeles, California



8-hour Ozone Trends

San Antonio, Texas



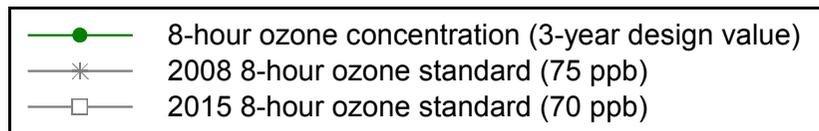
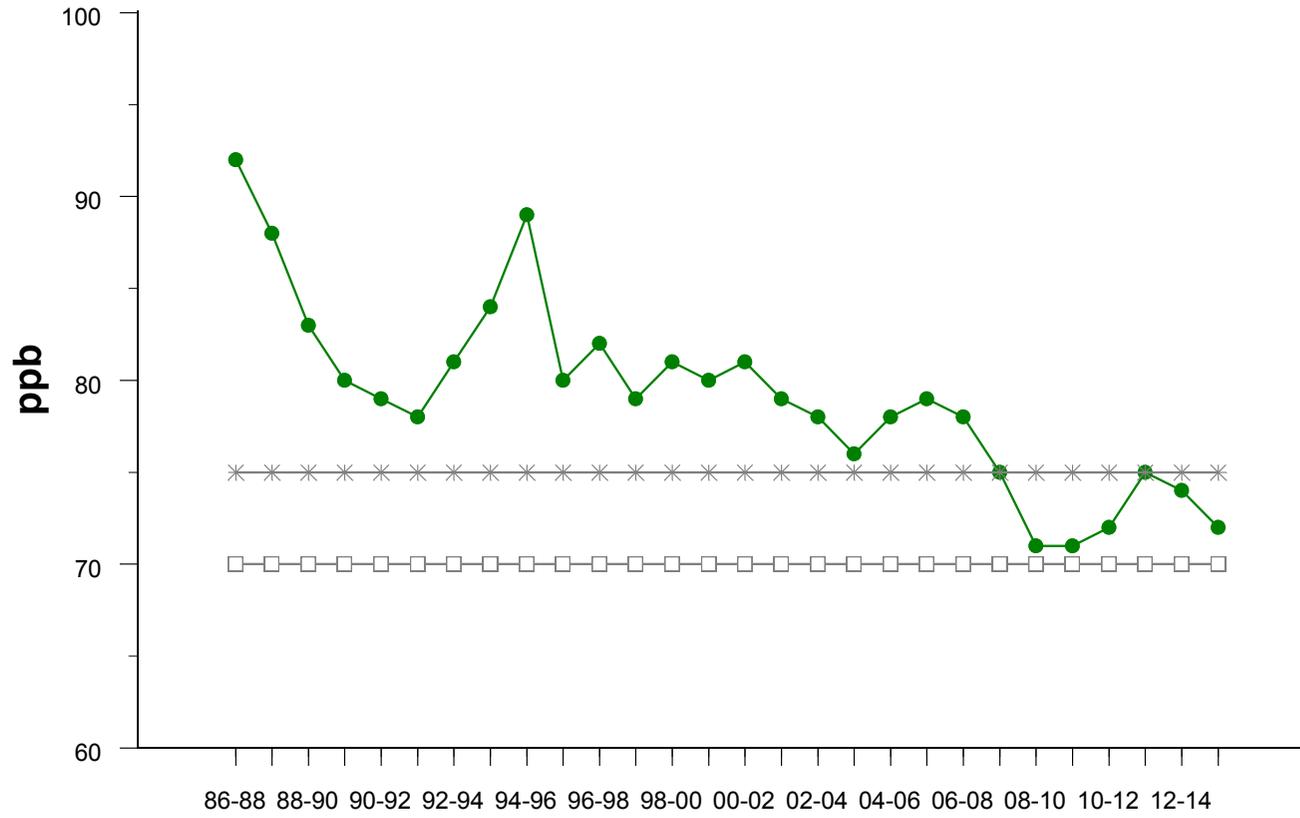
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8-hour ozone concentration = 3 year average of the annual 4th highest values, calculated site by site

8-hour ozone concentrations presented above are taken from the highest concentration site in the monitoring network for each 3 year period

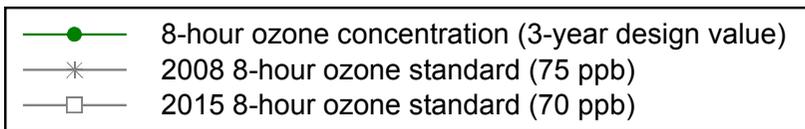
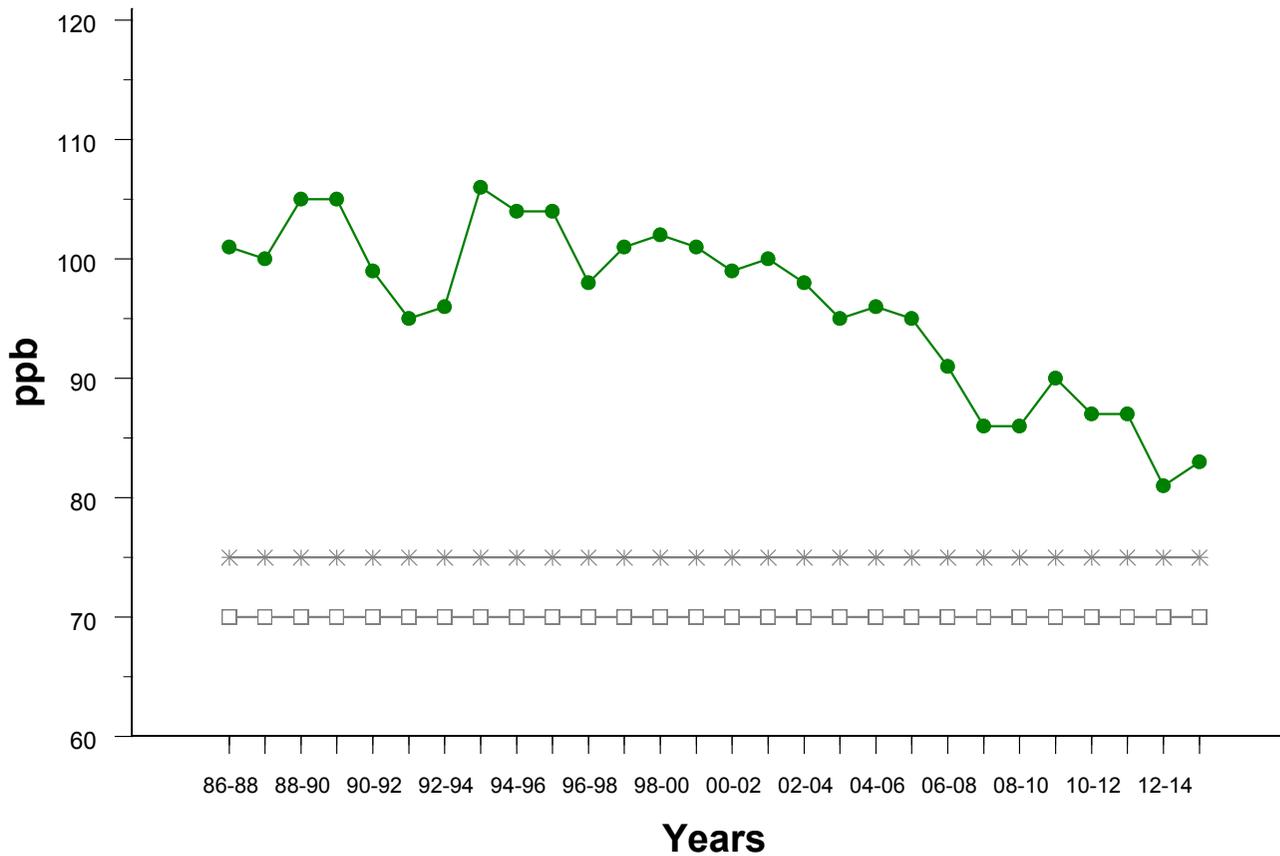
Ozone Trends

El Paso, Texas and Southern Dona Ana County, NM



Ozone Trends

Dallas-Fort Worth, Texas



More Information

<http://www3.epa.gov/airquality/ozonepollution/>

