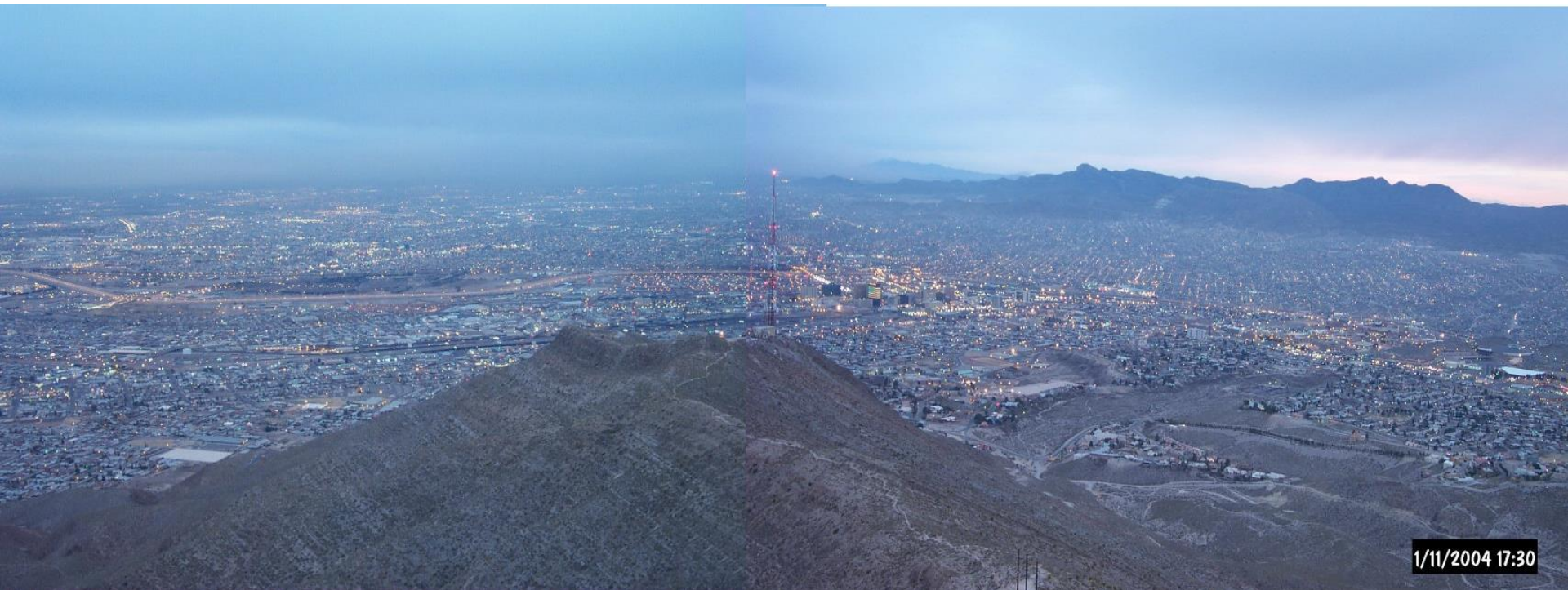


# Report on Air Quality in the Paso del Norte

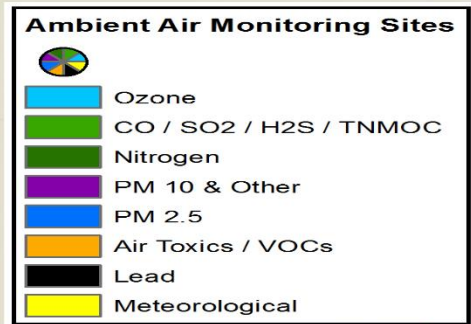
for the Joint Advisory Committee  
on the Improvement of Air Quality in the Paso del Norte Region



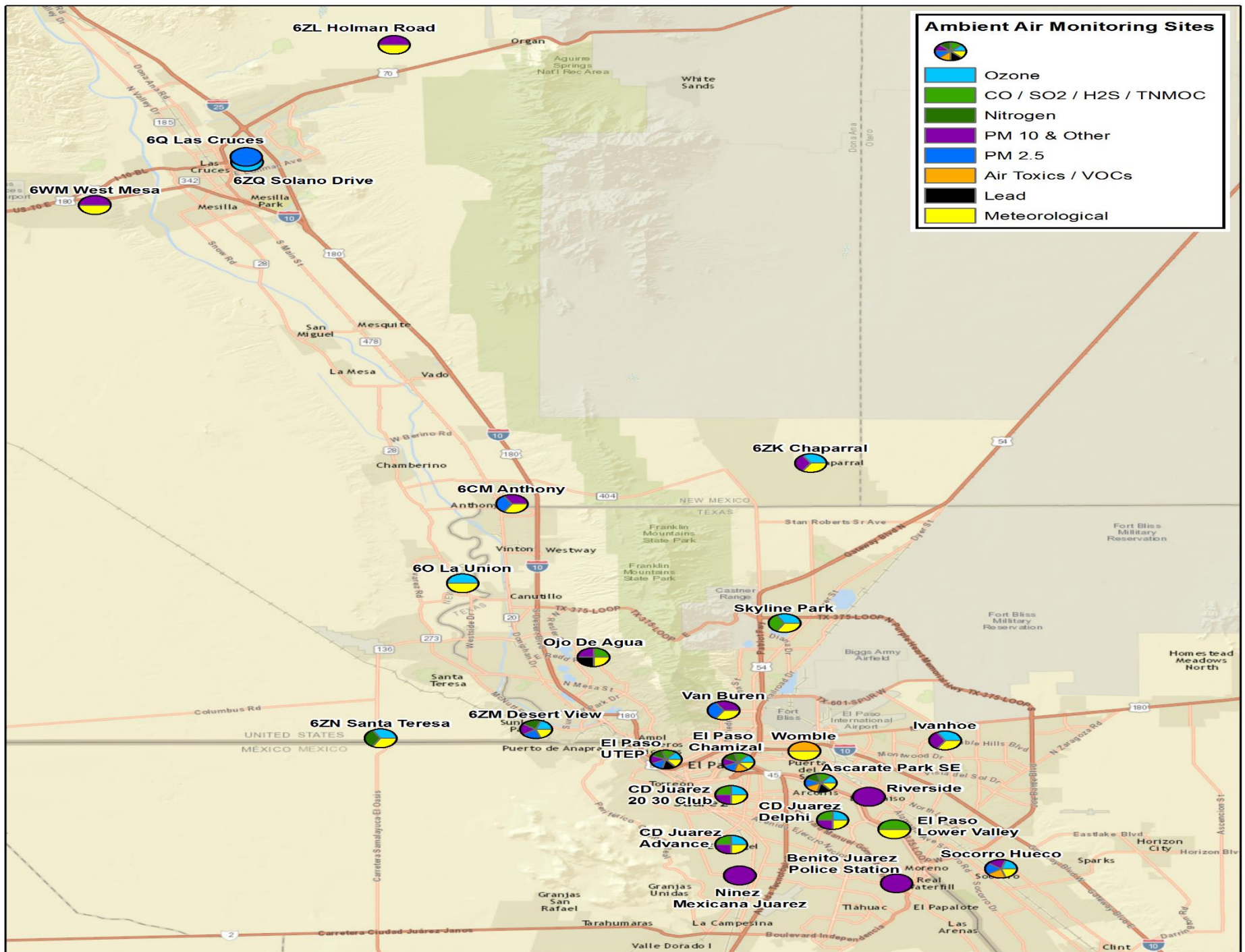
1/11/2004 17:30

October 5, 2017  
Carlos Rincon  
US EPA Region 6

### Ambient Air Monitoring Sites



- Ozone
- CO / SO2 / H2S / TNMOC
- Nitrogen
- PM 10 & Other
- PM 2.5
- Air Toxics / VOCs
- Lead
- Meteorological



## Data Source

Original data can be found at:

[https://www.tceq.texas.gov/agency/air\\_main.html](https://www.tceq.texas.gov/agency/air_main.html)

<https://www.tceq.texas.gov/airquality/monops/air-mon>

This report is on information of various air contaminants represented in the data.

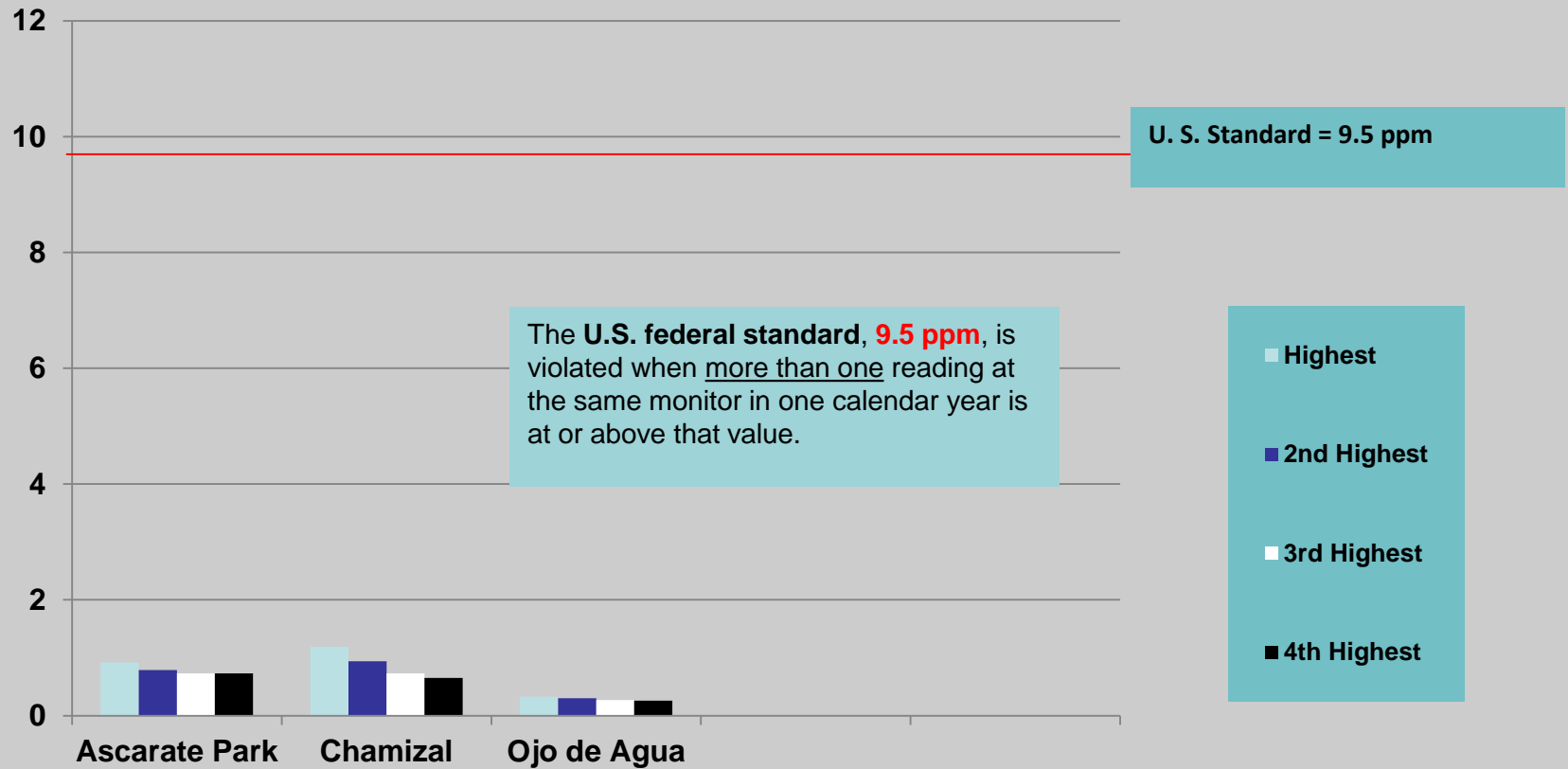
Please visit us at:

[www.cccjac.org](http://www.cccjac.org)



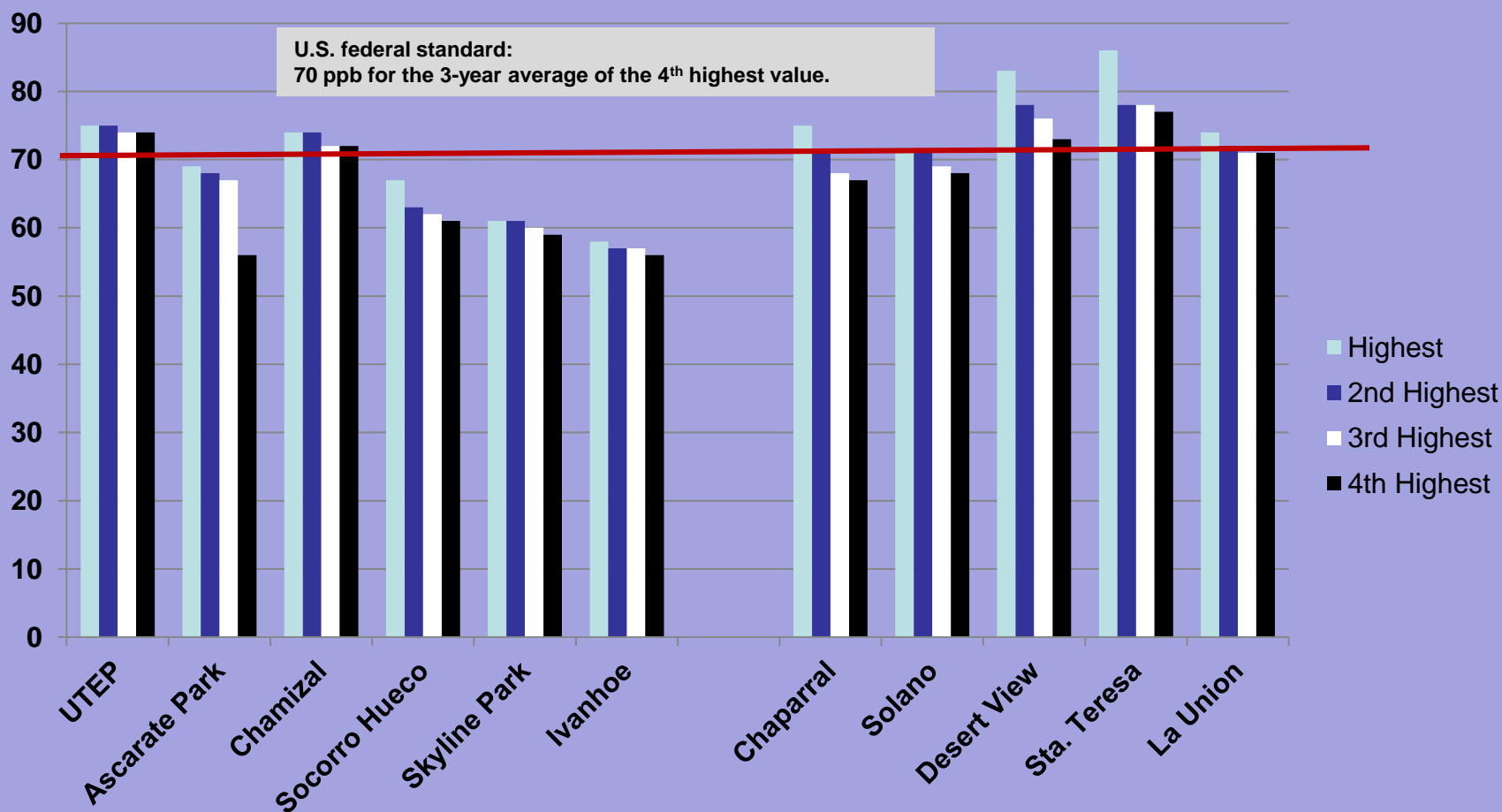
# **Carbon Monoxide**

# Carbon Monoxide 8-Hr. Averages Four Highest Values (in ppm) at Each Monitor in El Paso January 1- August 31, 2017



**Ozone**

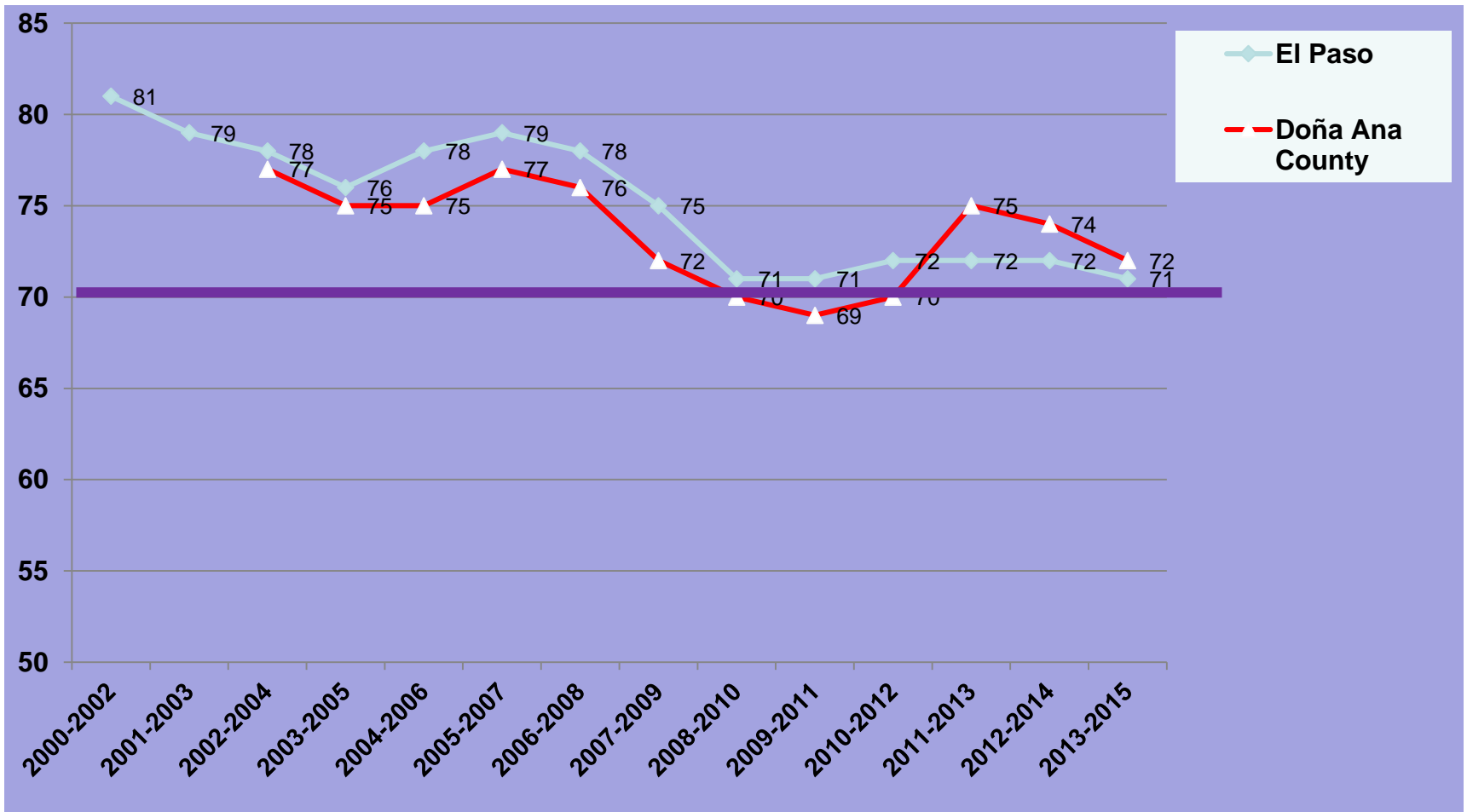
Ozone 8-Hr. Averages (in ppb)  
Four Highest Values at Each Monitor  
in El Paso and Doña Ana County  
January 1- August 31, 2017



# Ozone 8-Hr. Design Values

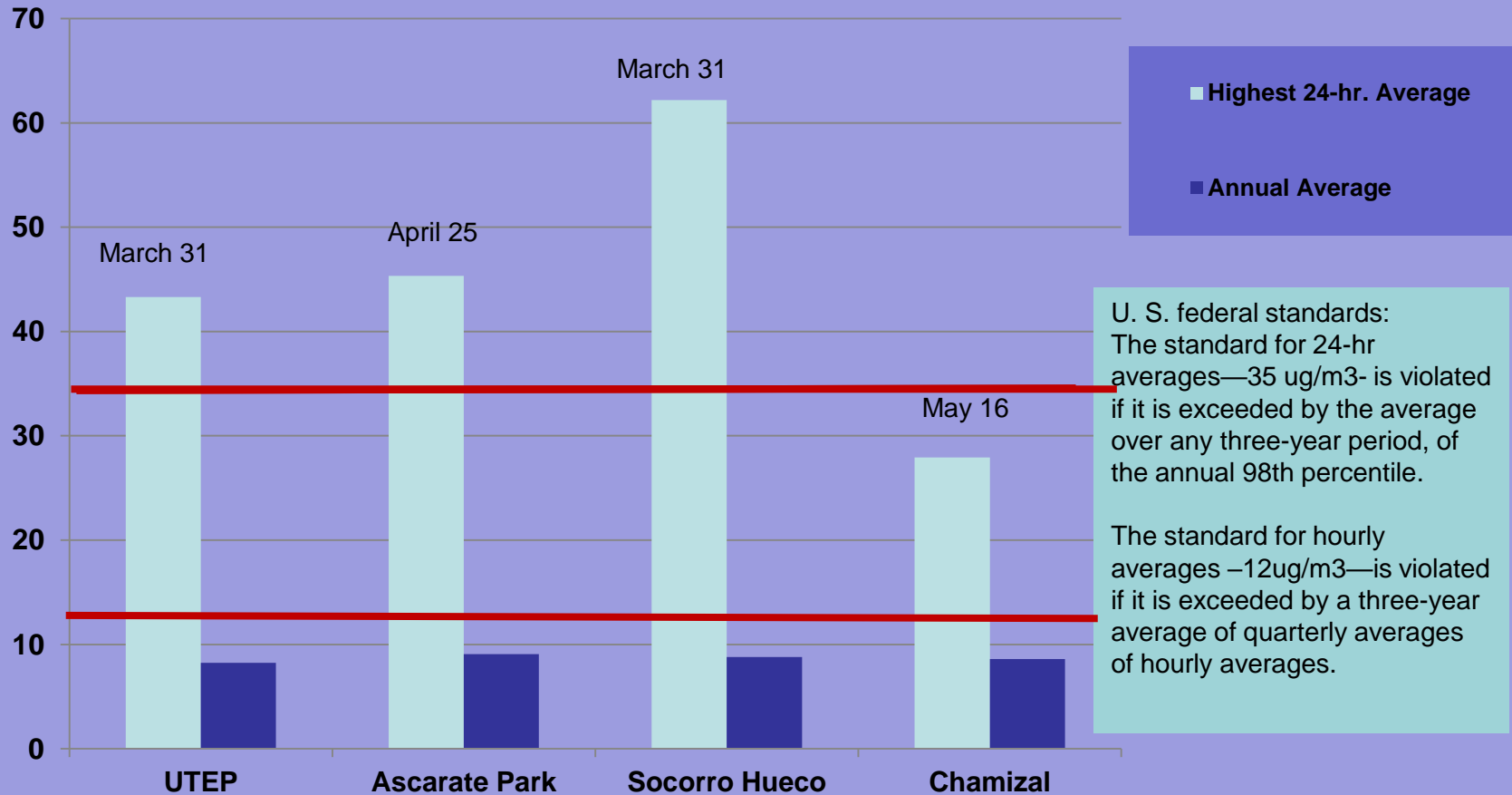
## El Paso and Doña Ana County

(highest value of all sites in each area, 2002 – 2017)

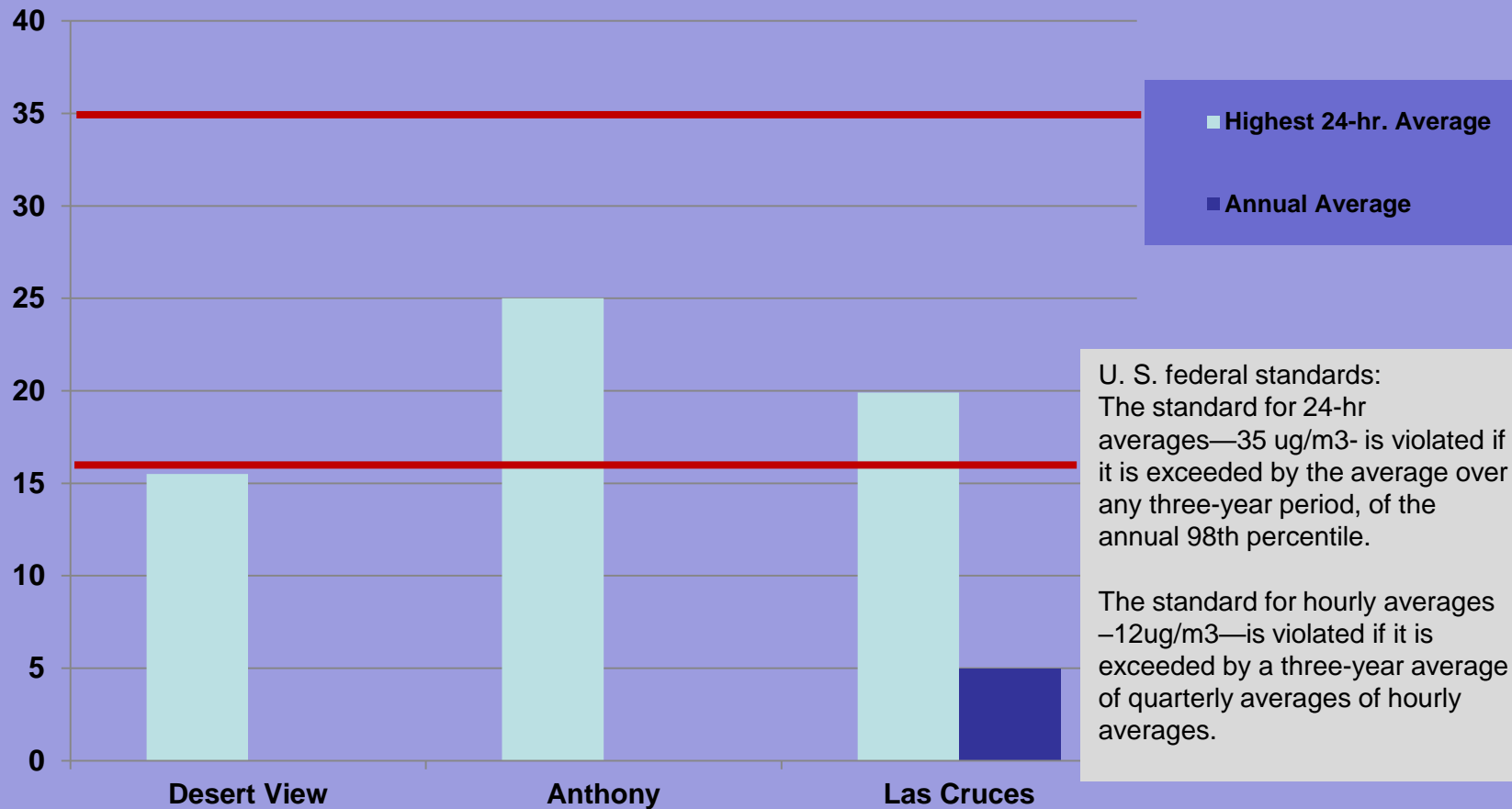


# **Particulate Matter (PM)**

**PM<sub>2.5</sub>**  
**Highest 24-Hr. Average and Annual Hourly Average**  
**Four Monitors in El Paso (in  $\mu\text{g}/\text{m}^3$ )**  
**January 1- August 31, 2017**



**PM<sub>2.5</sub>**  
**Highest 24-Hr. Average and Annual Hourly Average**  
**Two Monitors in New Mexico (in  $\mu\text{g}/\text{m}^3$ )**  
**January 1- June 30, 2017**



# PM<sub>2.5</sub>

## Compliance with U.S. Federal Standards for Three-Year Averages

El Paso (Chamizal site) and Desert View  
2011 - 2015

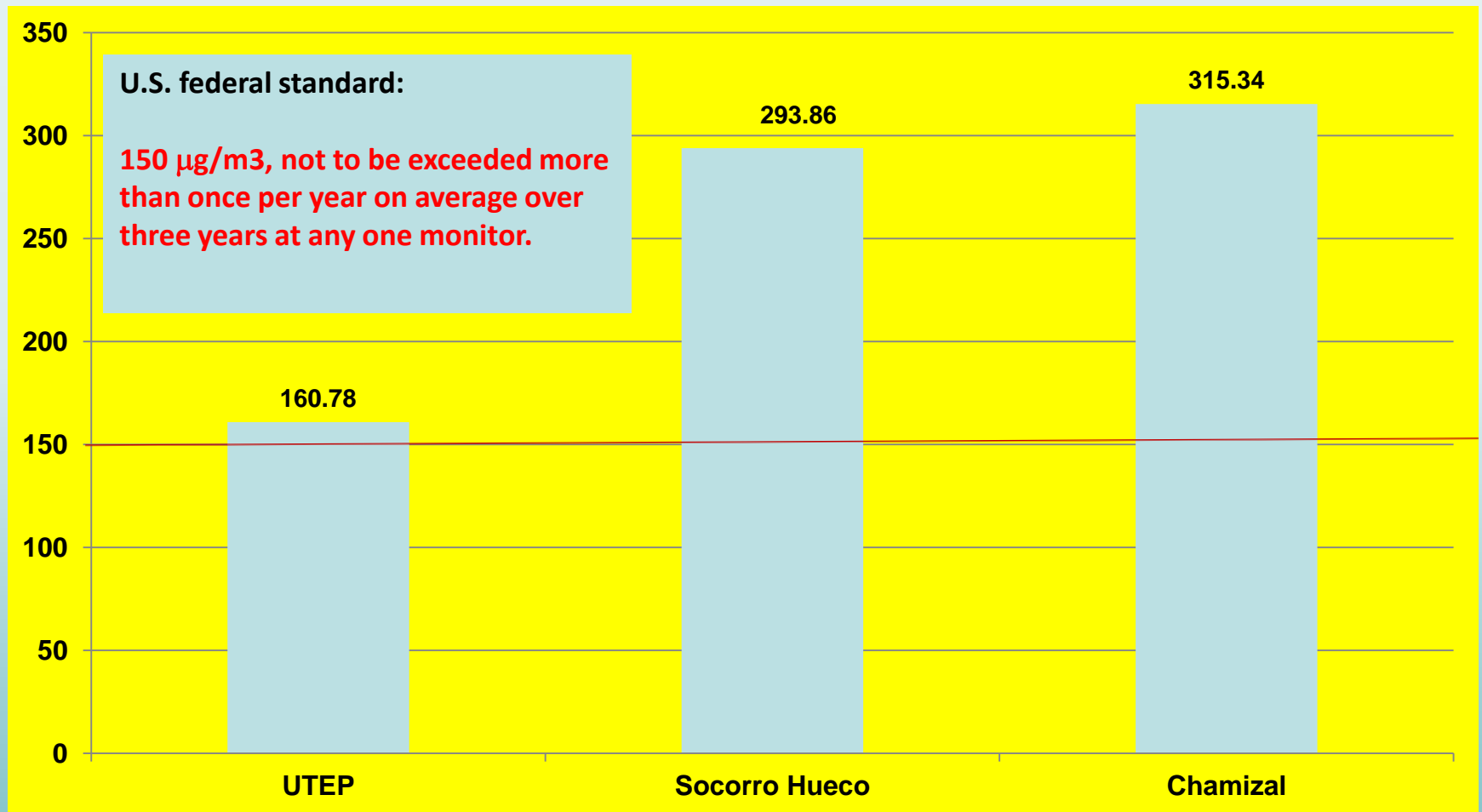
### Annual Averages

U.S. Standard	12 $\mu\text{g}/\text{m}^3$
Design Value for Chamizal (2013-2015)	9.9 $\mu\text{g}/\text{m}^3$
Design Value for Desert View (2013-15)	11 $\mu\text{g}/\text{m}^3$
Design Value for Chamizal (2010-2012)	11.3 $\mu\text{g}/\text{m}^3$

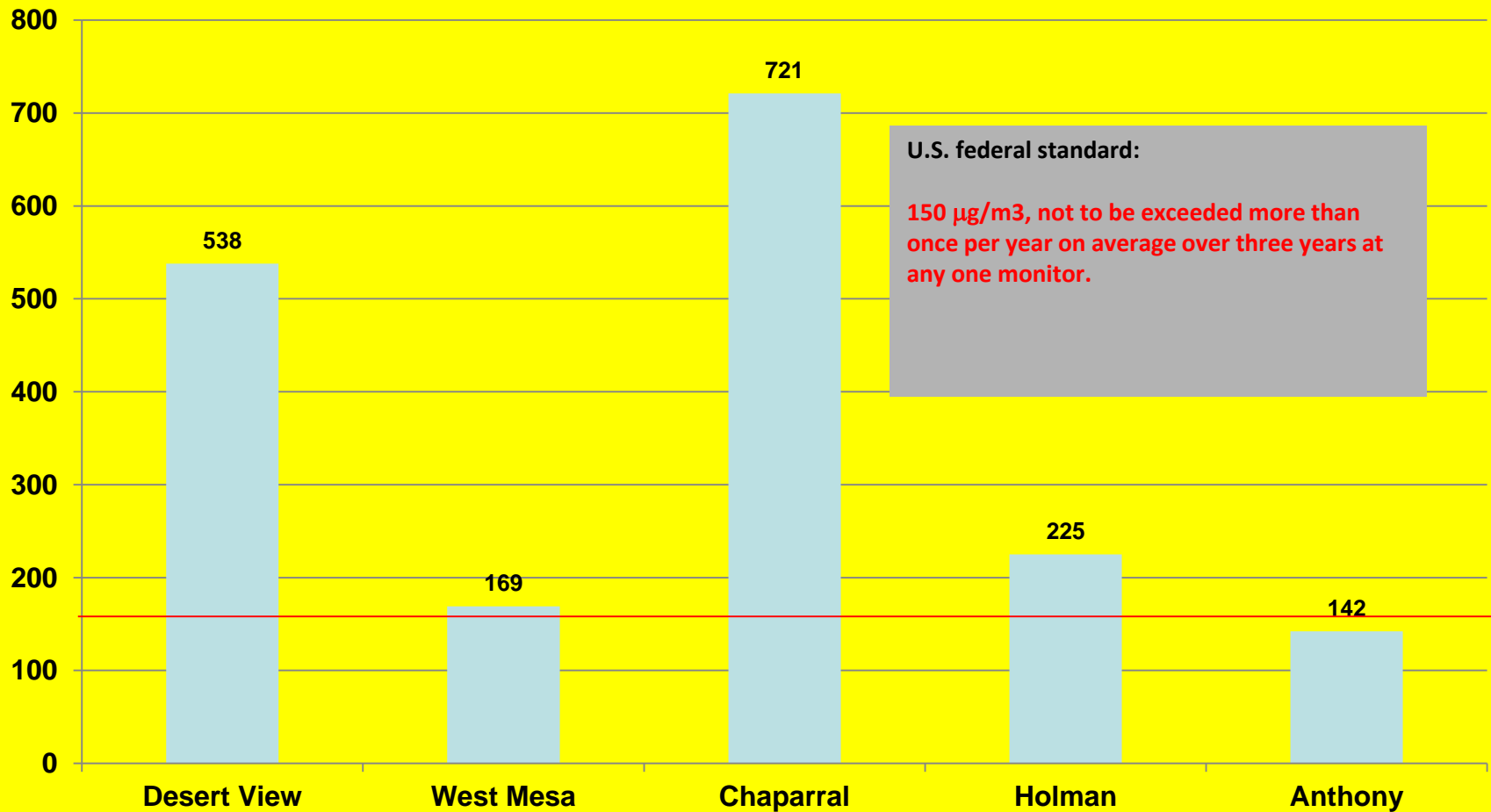
### 24-Hour Averages

U.S. Standard	35 $\mu\text{g}/\text{m}^3$
Design Value for Chamizal (2013-2015)	29 $\mu\text{g}/\text{m}^3$
Design Value for Desert View (2013-15)	31 $\mu\text{g}/\text{m}^3$
Design Value for Chamizal (2010-2012)	30 $\mu\text{g}/\text{m}^3$

**PM<sub>10</sub>**  
**Highest 24-Hour Averages (in  $\mu\text{g}/\text{m}^3$ )**  
**Three Monitors in El Paso**  
**May 1- August 31, 2017**



**PM10**  
**Highest 24-Hour Averages (in  $\mu\text{g}/\text{m}^3$ )**  
**Five Monitors in New Mexico**  
**May 1- August 31, 2017**



# PM<sub>10</sub> Compliance with U.S. Federal Standard for 24-Hour Averages El Paso 2011 - 2015

U.S. Standard

150  $\mu\text{g}/\text{m}^3$

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Violation at any one monitor:

- If the average annual # of expected exceedances over three years is >1

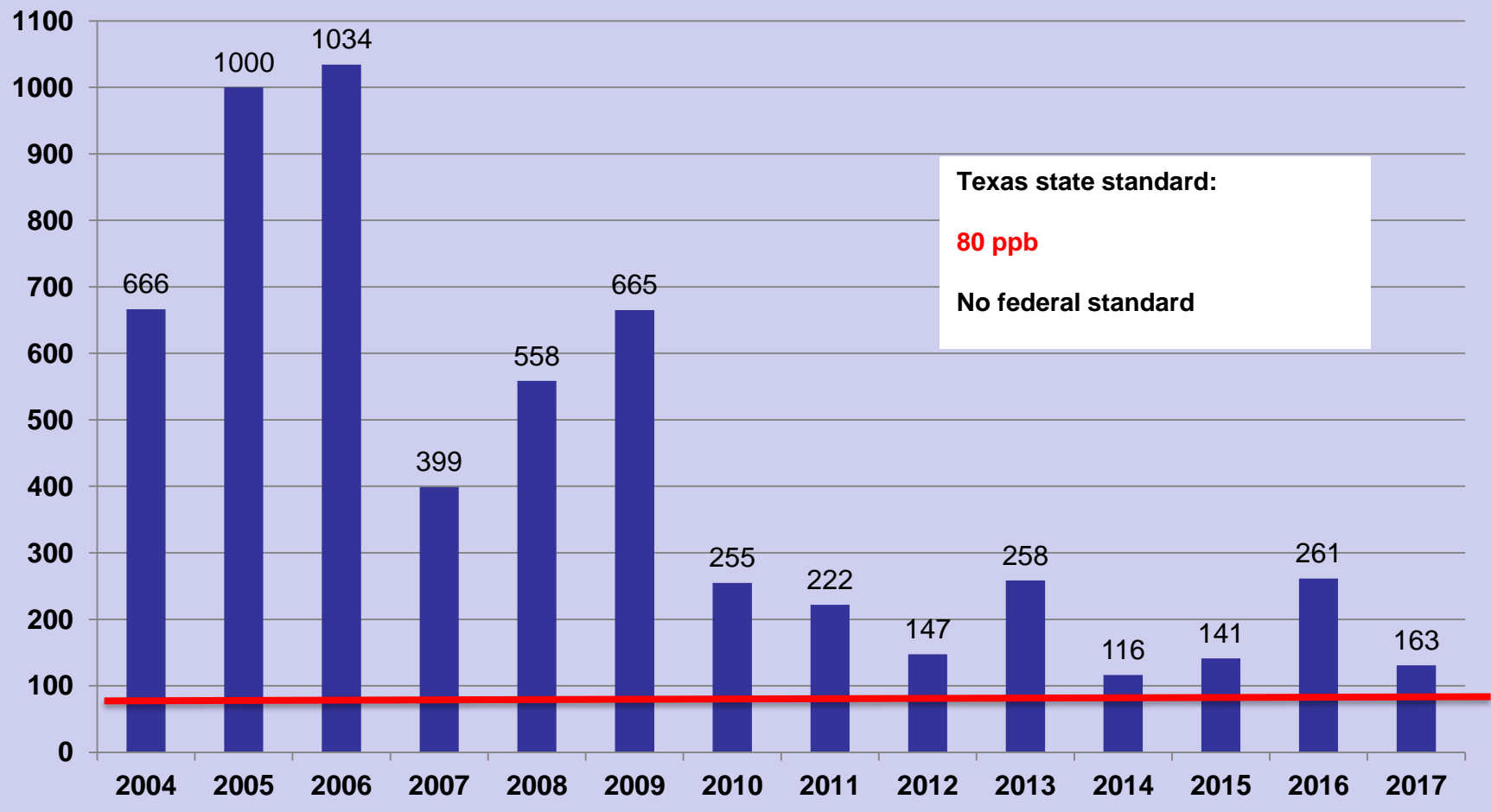
---

Socorro Hueco	2015	0	<u>measured</u> exceedance
	2014	0	“
	2013	0	“
	2012	0	“

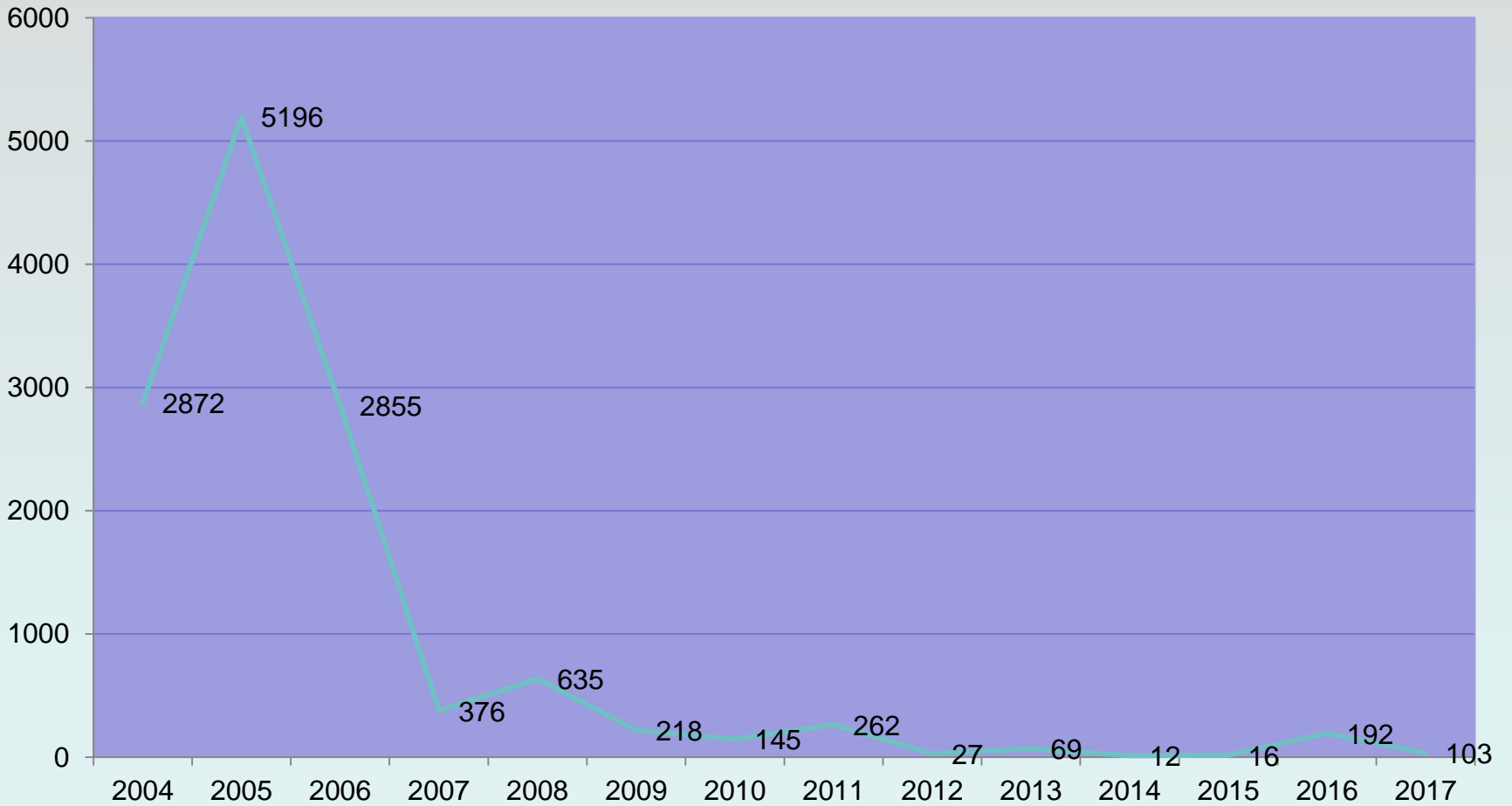
Because samples are taken only every six days, the number of measured exceedances must be multiplied by six to determine “expected exceedances.”

# Hydrogen Sulfide

**Hydrogen Sulfide – 30-Minute Averages  
Highest Value (in ppb) Each Year  
at “Lower Valley” Monitor  
January 1- August 31, 2017**



**Hydrogen Sulfide – 30-Minute Averages  
Highest Value (in ppb) Each Year  
at “Lower Valley” Monitor  
January 1- August 31, 2017**



**Hydrogen Sulfide  
Number of Days with 30-Minute Exceedances  
at “Lower Valley” Monitor  
January 1- August 31, 2017**

