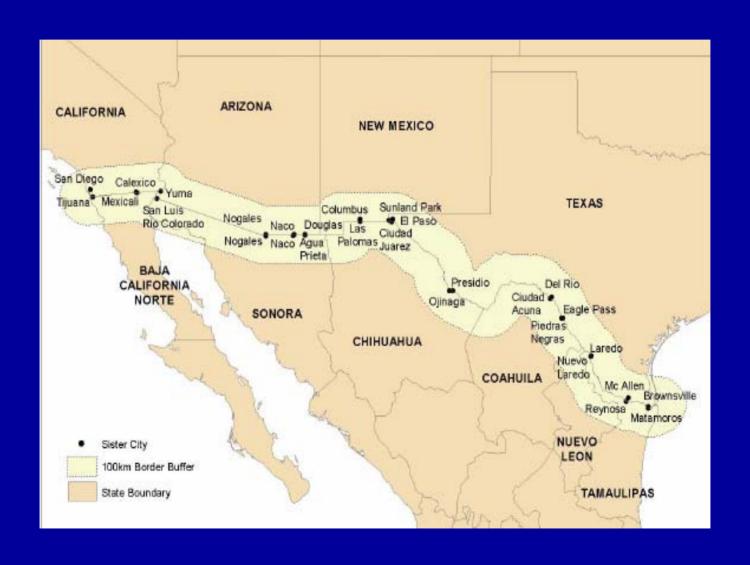
AIR QUALITY AT THE U.S-MEXICO BORDER

STAPPA/ALAPCO
October 24, 2006
Amy Zimpfer
U.S. Environmental Protection Agency
Region 9



U.S.-Mexico Border



Outline

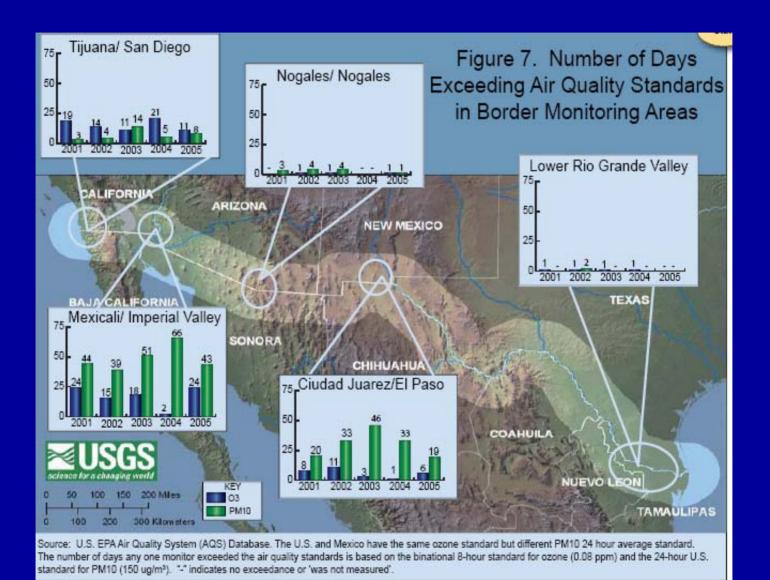
- Current Air Quality Status on the Border
- Border Air History
- Border Priorities

Current Air Quality in Border Communities

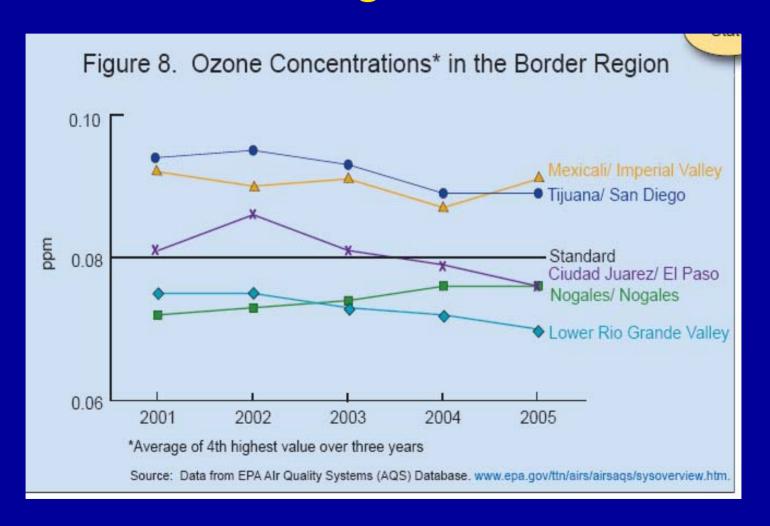
- Exceedances
- Ozone and PM
- Non-Attainment Status in Border Counties



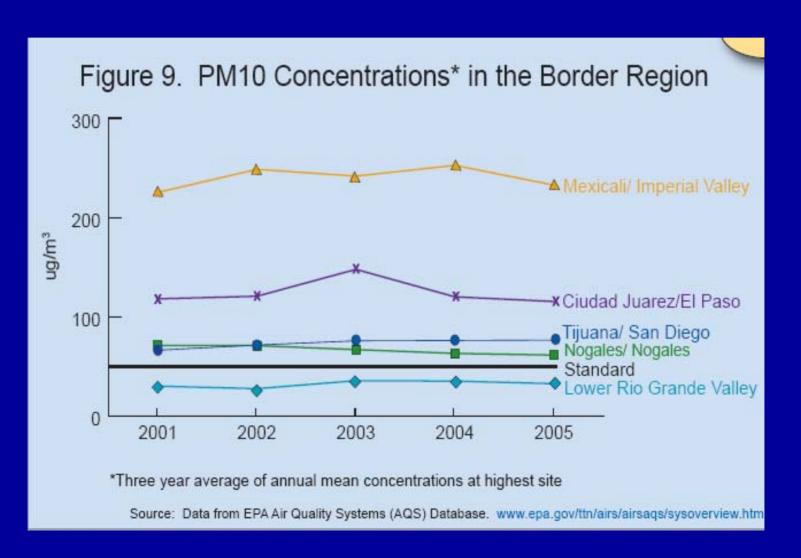
Exceedances in Border Cities



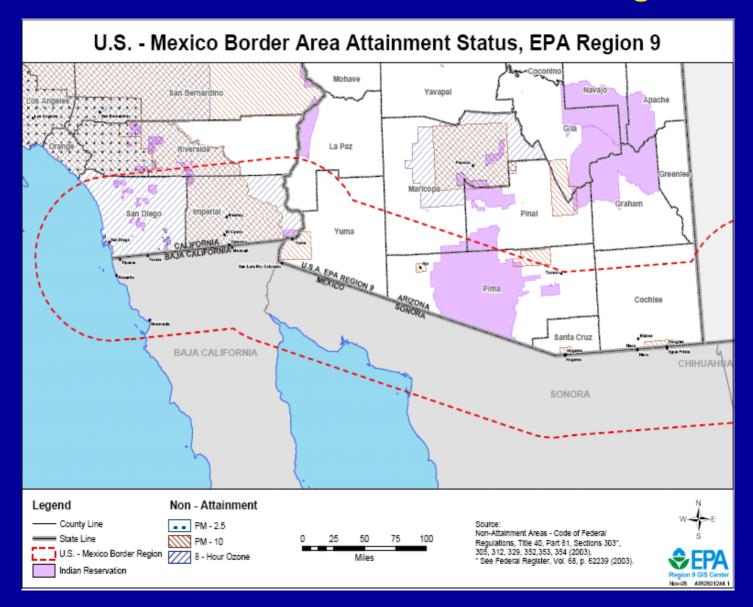
Ozone Concentrations in Border Region



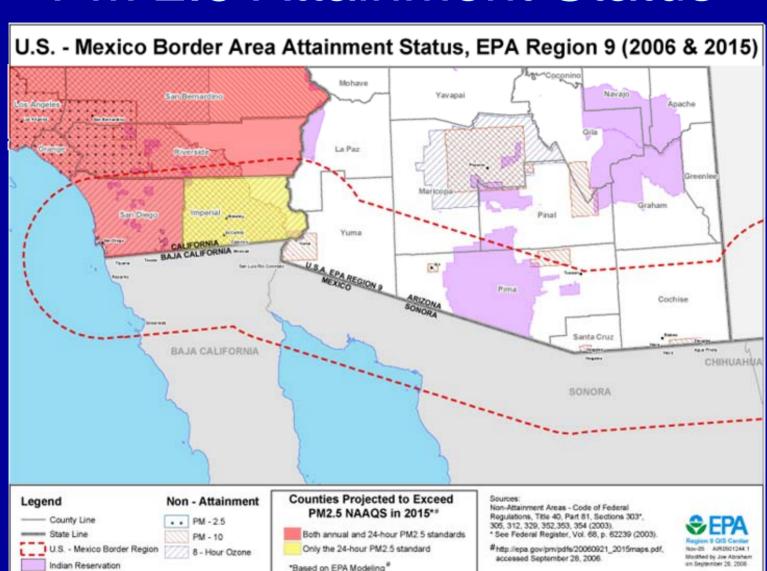
PM10 Concentrations in Border Region



Border Area Attainment Status—Region 9



PM 2.5 Attainment Status



Border Air History

- La Paz Agreement (1983)
 - –Annex IV
 - -Annex V
- Carbon I and II
- Border XXI

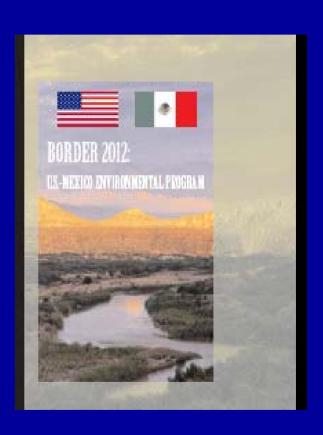
Border 2012 Partners

- EPA
 - OIA, OAR,OTAQ, Regions6 and 9
- Mexico
 - SEMARNAT
 - INE
- Border States
 - CARB, ADEQ, NMED, TCEQ
 - Mexican Border States
- Local Air Districts



Border 2012

- Borderwide Policy Forum
 - Letter of Intent
- Regional Workgroups
- Local Task Forces
 - Arizona-Sonora
 - Imperial Valley-Mexicali
 - San Diego-Tijuana



Priorities

- Reducing Air Emissions
- Public Education and Outreach
- Ambient Air Monitoring and Science-based Initiatives

Reducing Air Emissions Diesel-related

- Diesel Retrofit Projects
 - Tijuana
 - Mexicali
 - Nogales
- Diesel School Bus Retrofit-Rio Rico and Nogales, Arizona
- Partner of West Coast Collaborative



Reducing Air Emissions (Diesel-Related)

- Smartway Initiative in Tijuana
- Mexican Engine and Fuel Standards
- Biodiesel
 Demonstration
 Project in Rio Rico,
 Arizona



Reducing Air Emissions

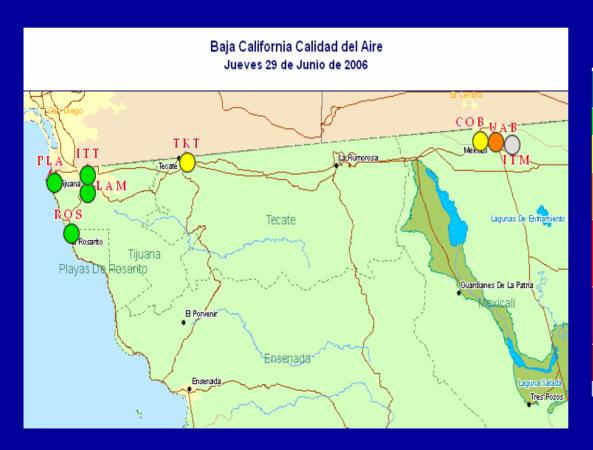
- Environmental Brick Kiln Construction
- Road Paving—NADBank Funded
- Energy
 - -Audits
 - -WGA Website
 - -Mexicali Power Plants

Public Education and Outreach

- Baja Real Time Website
- Imperial Valley Real Time Website
- Annual Air Quality Calendars in Ambos Nogales and Yuma/San Luis

Air Now Website For Baja Network

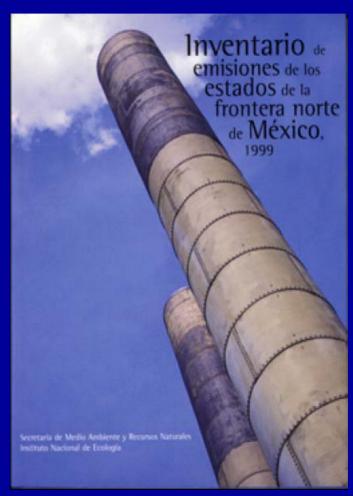
http://aire.bajacalifornia.gob.mx



Calidad del Aire	Índice de Calidad del Aire (AQI)	Proteja su Salud
Buena	0-50	No se anticipan impactos a la salud cuando la calidad del aire se encuentra en este intervalo.
Moderada	51-100	Las personas extraordinariamente sensitivas deben considerar limitación de los esfuerzos físicos excesivos y prolongados al aire libre.
Dañina a la Salud de los Grupos Sensitivos	101-150	Los niños y adultos activos, y personas con enfermedades respiratorias tales como el asma, deben evitar los esfuerzos físicos excesivos y prolongados al aire libre.
Dañina a la Salud	151-200	Los niños y adultos activos, y personas con enfermedades respiratorias tales como el asma, deben evitar los esfuerzos excesivos prolongados al aire libre; las demás personas, especialmente los niños, deben limitar los esfuerzos físicos excesivos y prolongados al aire libre.
Muy Dañina a la Salud	201-300	Los niños y adultos activos, y personas con enfermedades respiratorias tales como el asma, deben evitar todos los esfuerzos excesivos al aire libre; las demás personas, especialmente los niños, deben limitar los esfuerzos físicos excesivos al aire libre.
Peligroso	> 300	Advertencias de la salud con respecto a condiciones de la emergencia. La población entera es más probable ser afectada.
Datos no disponibles		No hay datos disponibles para el día actual.

Ambient Air Monitoring and Science-based Initiatives

Mexican National
 Emissions
 Inventory and
 Border Region (US and Mexico)
 Emissions
 Inventory



Ambient Air Monitoring and Science-based Initiatives

- Northern Baja California Monitoring Network--transferring to State of Baja
- Arizona/Sonora Border Monitoring Network--operated by ADEQ
- Tropospheric Ozone Satellite Monitoring
- Vehicle Remote Sensing at Nogales

Emerging Issues

- Greenhouse Gas Emissions and Climate Change
 - California Legislation to reduce GHG to 1990 Levels
 - Arizona Executive Order
- Goods movement across the border-study underway
- Need Unique Funding Mechanisms--NADBank

Conclusions--US/Mexico Border Air Quality

- Poor Air Quality in Urban Areas--Ozone, PM10 and PM2.5
- Key Emission Sources include Mobile, Area and Power Production
- International Partnership, at all levels of Government, is key
- Need continued investment in Public Outreach and Science/monitoring
- Need Unique Funding and Technology to Reduce Emissions

INFORMATION

- EPA Border Website:
 - -www.epa.gov/border2012