

State of the Border Region 2016

Interim Update:

Indicator Metadata and Data Tables

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The U.S.-Mexico Border Region

Indicator	Border Region Population and Forecast Population Growth: 2005-2030
Description	Actual 2005 and 2010 population data for U.S. and Mexico border region compared to 2005–2030 population projections
Sources	<p>U.S. Data (2005): U.S. Census, County Population Estimates: Annual Estimates of the Resident Population for Counties [of CA, AZ, NM, TX] http://www.census.gov/popest/counties/CO-EST2008-01.html</p> <p>U.S. Data (2010): U.S. Census, County Population Estimates: Annual Estimates of the Resident Population for Counties [of CA, AZ, NM, TX] http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=PEP_2015_PEPANNRES&src=pt</p> <p>Mexico Data (2005): INEGI: Indicadores demográficos - por municipio – 2005: http://www.inegi.org.mx/lib/Entidades.aspx?vecet=00,&s=est&tema=Indicadores%20demograficos%20-%20por%20municipio%20-%202005%20-%20en%20la%20entidad&urldato=/est/contenidos/espanol/rutinas/ept.asp%3ft%3dmpob103%26c%3d3850</p> <p>Mexico Data (2010): INEGI: Indicadores demográficos - por municipio – 2010: http://www.inegi.org.mx/sistemas/consulta_resultados/iter2010.aspx</p> <p>Population Projections (2005-2030): <i>Data Tables for the State of the Border Region Indicators Report, 2005</i>: http://www.epa.gov/Border2012/docs/bitf_table.pdf; data for the 2005 report were derived from J. Peach and J. Williams. 2003. "Population Dynamics of the U.S.-Mexican Border Region." Unpublished, forthcoming SCERP Monograph. San Diego: SCERP/SDSU Press</p>
Time Period	2005–2030
Units	Population
Notes	<p>Population projections from 2006–2009 and 2011–2014 are linear estimates based on 2005 and 2010 projections</p> <p>2005 and 2010 population data from the U.S. Census (by U.S. county) and INEGI (by Mexico municipality) correspond to the counties and municipalities used in the 2003 Peach and Williams study as reported in <i>State of the Border Region, 2005</i>.</p>

	2005	2010	2015	2020	2025	2030
Census Population Data (U.S. and Mexico; 2005)	13,003,165	14,060,075				

	2005	2010	2015	2020	2025	2030
Projection: Low Scenario (U.S. and Mexico)	12,584,937	13,312,630	14,021,368	14,691,553	15,317,581	15,902,460
Projection: Medium Scenario (U.S. and Mexico)	13,107,883	14,288,252	15,522,489	16,794,655	18,117,365	19,493,083
Projection: High Scenario (U.S. and Mexico)	13,282,191	14,907,140	16,710,412	18,681,857	20,880,608	23,354,106

Indicator	Census and Projected Border Region Population (U.S.): 2005-2010
Description	Trend in U.S. Census data for 2005–2008 compared to 2005–2010 population projections
Sources	<p>U.S. Data (2005–2015): U.S. Census, County Population Estimates: Annual Estimates of the Resident Population for U.S. Border Counties (CA, AZ, NM, and TX) http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=PEP_2015_PEPANNRES&src=pt</p> <p>Population Projections (2005–2030; U.S. only): <i>Data Tables for the State of the Border Region Indicators Report, 2005</i>: http://www.epa.gov/Border2012/docs/bitf_table.pdf; data for the 2005 report were derived from J. Peach and J. Williams. 2003. "Population Dynamics of the U.S.-Mexican Border Region." Unpublished, forthcoming SCERP Monograph. San Diego: SCERP/SDSU Press</p>
Time Period	2005-2015
Units	Population
Notes	<p>For comparison purposes, 2005–2015 population data from the U.S. Census (by U.S. county) correspond to the counties used in the 2003 Peach and Williams study as reported in <i>State of the Border Region, 2005</i>.</p> <p>Population projections from 2006–2009 and 2011–2014 are linear estimates based on 2005 and 2010 projections.</p>

	2005	2006	2007	2008	2009	2010
U.S. Census data	6,777,636	6,870,077	6,971,462	7,090,380	7,124,299	7,313,750
Projection: Low Scenario (U.S. only)	6,511,751	6,553,389	6,595,027	6,636,666	6,678,304	6,719,943
Projection: Medium Scenario (U.S. only)	6,740,217	6,819,892	6,899,567	6,979,243	7,058,918	7,138,594

	2005	2006	2007	2008	2009	2010
Projection: High Scenario (US only)	6,816,370	6,934,020	7,051,670	7,169,320	7,286,970	7,404,621

<i>Contd.</i>	2011	2012	2013	2014	2015
U.S. Census data	7,437,121	7,517,284	7,576,798	7,647,286	7,703,931
Projection: Low Scenario (U.S. only)	6,760,057	6,800,171	6,840,286	6,880,400	6,920,514
Projection: Medium Scenario (U.S. only)	7,220,585	7,302,576	7,384,568	7,466,559	7,548,550
Projection: High Scenario (U.S. only)	7,531,673	7,658,725	7,785,777	7,912,829	8,039,881

Indicator	Comparison of Population Projections (Mexico): 2005–2030
Description	Comparison of current official Mexican population projections and 2005–2030 population projections used in the State of the Border Region 2005 report
Sources	Mexico data: Consejo Nacional de Población (CONAPO): "Población total de los municipios a mitad de año, 2005-2030": http://www.conapo.gob.mx/index.php?option=com_content&view=article&id=36&Itemid=234 Population Projections (2005–2030; Mexico only): <i>Data Tables for the State of the Border Region Indicators Report, 2005</i> : http://www.epa.gov/Border2012/docs/bitf_table.pdf ; data for the 2005 report were derived from J. Peach and J. Williams. 2003. "Population Dynamics of the U.S.-Mexican Border Region." Unpublished, forthcoming SCERP Monograph. San Diego: SCERP/SDSU Press
Time Period	2005–2030
Units	Population
Notes	For comparison purposes, population data from CONAPO (by Mexico municipality) correspond to the municipalities used in the 2003 Peach and Williams study as reported in <i>State of the Border Region, 2005</i> .

	2005	2010	2015	2020	2025	2030
CONAPO Population Projections	6,222,757	6,934,007	7,624,387	8,299,322	8,950,276	9,558,069
Projection: Low Scenario (Mexico only)	6,073,186	6,592,687	7,100,854	7,583,145	8,041,775	8,493,641
Projection: Medium Scenario (Mexico only)	6,367,666	7,149,658	7,973,939	8,832,999	9,737,879	10,702,834
Projection: High Scenario (Mexico only)	6,465,821	7,502,519	8,670,531	9,979,160	11,471,957	13,194,562

Air

Indicator	Number of Days Exceeding Air Quality Standards in Border Monitoring Areas
Description	2006–2014 trend in days exceeding PM ₁₀ , PM _{2.5} and ozone standards at monitoring locations in five sister cities.
Sources	EPA Air Quality System (AQS) for sister-city air monitoring stations in U.S. and Mexico; provided by EPA Office of Air, Region 6 and Region 9
Time Period	2006–2014
Units	Number of days exceeding PM10, PM 2.5 or ozone standard
Notes	<p>Ozone standard used: 0.075 ppm (8-hour average). Note that the 2015 ozone NAAQS is not being used; it became effective December 28, 2015.</p> <p>PM₁₀ standard used: 150 µg/m³ (2008 24-hour average).</p> <p>PM_{2.5} standard used: 35 µg/m³ (24-hour average).</p> <p>The differences between data reported in the 2010 Report and the data presented in this update are:</p> <ul style="list-style-type: none"> • Data for the 2010 report included monitors within 100 kilometers of the border while current data includes all SLAMS monitors within U.S. border counties and Ciudad Juarez; • A previous NAAQS standard for ozone (0.08 ppm, 8-hours) was used in the 2010 report to determine exceedance days; • This report includes data for PM_{2.5}. The 2010 report did not. <p>The exceedances were calculated by totaling the number of days above the standard on any site within each monitoring area; exceptional events were included in the calculation, and multiple exceedances on the same day within each monitoring area were counted as one.</p> <p>Tijuana/San Diego, Mexicali/Imperial Valley, and Ciudad Juarez/El Paso monitoring areas have monitors in the U.S. and Mexico. However, the monitoring data from all cities in Mexico except Ciudad Juarez were not included in this report because they do not meet the quality assurance standards generally used for determining compliance with air quality standards in the U.S. The Secretaría de Protección al Ambiente in Baja California and Instituto Nacional de Ecología are actively working to address the issues identified.</p>

Tijuana/ San Diego	2006	2007	2008	2009	2010	2011	2012	2013	2014
O ₃	38	27	35	24	14	10	10	7	12
PM ₁₀	0	2	1	0	0	0	0	0	0
PM _{2.5}	3	17	3	3	0	0	2	2	1

Mexicali/ Imperial Valley	2006	2007	2008	2009	2010	2011	2012	2013	2014
0 ₃	33	27	13	19	15	15	18	15	8
PM ₁₀	3	2	0	5	0	1	3	4	5
PM _{2.5}	5	3	1	4	2	3	2	1	9

Nogales/ Nogales	2006	2007	2008	2009	2010	2011	2012	2013	2014
0 ₃	-	-	-	-	-	-	-	-	-
PM ₁₀	3	1	1	0	0	0	0	0	0
PM _{2.5}	3	0	2	1	1	0	0	0	0

Ciudad Juarez/ El Paso	2006	2007	2008	2009	2010	2011	2012	2013	2014
0 ₃	12	15	13	6	5	4	4	14	1
PM ₁₀	63	24	37	13	14	45	30	22	14
PM _{2.5}	1	7	12	3	6	5	4	8	3

Lower Rio Grande Valley	2006	2007	2008	2009	2010	2011	2012	2013	2014
0 ₃	0	0	1	0	0	0	0	1	0
PM ₁₀	4	3	2	0	0	0	0	0	0
PM _{2.5}	-	-	-	-	-	-	-	-	-

Water

Indicator	Number of Unserved Homes Connected to Safe Drinking Water through the Border Water Infrastructure Program
Description	Annual and cumulative number of homes in the U.S. and Mexico border region connected to safe drinking water since 2003 through U.S.-Mexico Border Water Infrastructure Program projects
Sources	EPA U.S.-Mexico Border Water Infrastructure Program EPA, "Border 2012: U.S. Mexico Environmental Program" and "U.S.-Mexico Environmental Program: Border 2012 – A Mid-Course refinement (2008–2012)" EPA U.S.-Mexico Border Program: National Water Program Performance Measure Results Reported Annually under the EPA National Water Program Strategic Plans for 2003–2008, 2006–2011 and 2011–2015 and the FY2010 Guidance
Time Period	2006–2015
Units	Number of connections. Data are reported for fiscal years.
Notes	Data are for Border Water Infrastructure Projects only.

Connections to Safe Drinking Water: 2006–2010

Fiscal Years:	2006	2007	2008	2009	2010
Annual Connections	22,458	1,276	5,162	1,584	21,650
Cumulative Connections	22,458	23,734	28,896	30,480	52,130

Connections to Safe Drinking Water: 2011–2015

Fiscal Years:	2011	2012	2013	2014	2015
Annual Connections	2,604	5,185	3,400	1,468	878
Cumulative Connections	54,734	59,919	63,319	64,787	65,665

Indicator	Number of Unserved Homes Connected to Wastewater Collection and Treatment Services through the Border Water Infrastructure Program
Description	Annual and cumulative number of homes in the U.S. and Mexico border region connected to wastewater collection and treatment services since 2003 through U.S.-Mexico Border Water Infrastructure Program projects
Sources	EPA U.S.-Mexico Border Water Infrastructure Program EPA, "Border 2012: U.S. Mexico Environmental Program" and "U.S.-Mexico Environmental Program: Border 2012 – A Mid-Course refinement (2008–2012)" EPA U.S.-Mexico Border Program: National Water Program Performance Measure Results Reported Annually under the EPA National Water Program Strategic Plans for 2003–2008, 2006–2011 and 2011–2015 and the FY2010 Guidance

Indicator	Number of Unserved Homes Connected to Wastewater Collection and Treatment Services through the Border Water Infrastructure Program
Time Period	2006–2015
Units	Number of connections. Data are reported for fiscal years
Notes	Data are for Border Water Infrastructure Projects only

Connections to Wastewater Collection and Treatment: 2006–2010

Fiscal Years:	2006	2007	2008	2009	2010
Annual Connections	30,195	73,475	31,686	43,594	75,175
Cumulative Connections	30,195	103,670	135,356	178,950	254,125

Connections to Wastewater Collection and Treatment: 2011–2015

Fiscal Years:	2011	2012	2013	2014	2015
Annual Connections	258,916	31,092	25,695	12,756	44,047
Cumulative Connections	513,041	544,133	569,828	582,584	626,631

Land

Indicator	Per-capita Municipal Solid Waste in U.S. Border States and Counties
Description	2007 to 2014 trend in per-capita solid waste disposal (for CA, AZ, and TX) or generation minus recycling and diversion (NM). Data covers entire border states (CA, AZ, NM) or just border counties (TX).
Sources	<p>California: (Per-capita waste): CalRecycle: "California's Statewide Per Resident, Per Employee, and Total Disposal Since 1989": http://www.calrecycle.ca.gov/lcentral/goalmeasure/disposalrate/graphs/disposal.htm</p> <p>Arizona: Waste: Arizona Department of Environmental Quality, Waste Programs Division: https://www.azdeq.gov/environ/waste/solid/</p> <p>Population: Arizona Office of Employment & Population Statistics: https://population.az.gov/population-estimates</p> <p>New Mexico: Waste: New Mexico Environment Department, Solid Waste Bureau: https://www.env.nm.gov/swb/AnnualReportsandForms.htm</p> <p>Population: University of New Mexico Bureau of Business & Economic Research: https://bber.unm.edu/demograp2.htm</p> <p>Texas: (Per-capita waste): Texas Commission on Environmental Quality, "Municipal Solid Waste in Texas: A Year in Review": http://www.tceq.state.tx.us/permitting/waste_permits/waste_planning/wp_swasteplan.html</p>
Time Period	2007-2014
Units	Kgs/person/day of municipal solid waste disposed (CA, AZ, TX) or generated minus recycling and diversion (NM)
Notes	<p>2016 interim report does not include data from 2010 report (nor the full time period covered in the 2010 report). The interim report has significant changes to the type of data included in the 2010 report (e.g., disposal versus generation) and has much more complete data across states.</p> <p>AZ and NM data converted to per-capita waste based on population data.</p>

	2007	2008	2009	2010	2011	2012	2013	2014
California (statewide, disposal)	2.59	2.31	2.04	2.04	2.00	1.95	2.00	2.04
New Mexico (statewide, generated minus recycling and diversion)	2.46	2.57	2.48	2.35	2.37	2.23	2.23	2.34
Arizona (statewide, disposal)	3.91	3.41	2.91	2.95	2.88	2.80	2.73	2.83
Texas (Border counties, disposal)	2.84	2.87	2.85	2.66	2.58	2.63	2.62	2.62

Units: Kg/person/day

Indicator	Per-Capita Municipal Solid Waste Generated in Mexican Border States
Description	Comparison of 2005 and 2012 per-capita daily solid waste generation for Mexico border states
Sources	<p>2012 Data: Waste: INECC/SEMARNAT, "Diagnóstico Básico para la Gestión Integral de los Residuos, 2012": http://www.inecc.gob.mx/descargas/dgcenica/diagnostico_basico_extenso_2012.pdf</p> <p>Population: CONAPO, "Población, 2006–2012": http://www.conapo.gob.mx/es/CONAPO/Poblacion_2006–2012</p> <p>2005 Data: BECC, "Diagnóstico de Infraestructura Ambiental Básica para el estado de [estado]" and 2010 <i>State of the Border Region</i> report</p>
Time Period	2005 and 2012
Units	Kg/person/day
Notes	Data are for border states, not the border region. 2005 data was included in 2010 border indicators report but not identified by year.

State	2005	2012
Tamaulipas	0.91	0.69
Nuevo Leon	1.13	0.70
Coahuila	0.86	0.70
Chihuahua	0.99	0.68
Sonora	0.86	1.42

State	2005	2012
Baja California	1.8	1.26

Units: kg/person/day

Indicator	Number of electronics refurbishers and recyclers in the border region certified to R2 or e-Stewards®
Description	Count of number of certified refurbishers and recycles in the border region
Sources	U.S. EPA, Office of Resource Conservation and Recovery
Time Period	2016
Units	Number of facilities

Certification Body	Facility	Address	City	State
R2, e-Stewards®	3R Network	Avenida Lopez Portillo S/N Parque Industrial	San Luis Rio Colorado	Sonora
R2, e-Stewards®	3R Network	Blvd. Lazaro Cardenas 4200 Int. No. A1	Villas del Colorado	Baja California
R2	AER Worldwide	1790 Commerce Park, Suite E	El Paso	TX
R2	Cali Resources, Inc	2310 Michael Faraday Drive	San Diego	CA
R2	ecoATM	10121 Barnes Canyon Rd	San Diego	CA
R2	Fortune Plastic & Metal	1119 Pendale Road	El Paso	TX
R2	Fortune Plastic & Metal	9102 Seguin Drive	Pharr	TX
R2	IMS Electronics Recycling Corporation	12455 Kerran Street; Suite 300	Poway	CA
R2	Innovative Applications Corporation	9565 Plaza Circle	El Paso	TX
R2	iQor Global Services de Mexico S.A. de C.V.	Blvd. Montebello 737 Parque Industrial Colonial	Reynosa	Tamaulipas
R2	Lexmark International SA de CV	Blvd. Independence 3550, Zona Industrial Lexmark	Juarez	Chihuahua
R2	Simba Recycling	2654 Vista Pacific Dr.	Oceanside	CA
R2	Technology Solutions and Services, S.A. de C.V.	Ave. Rosa Maria Yanar Fuentes #7050	Juarez	Chihuahua

Certification Body	Facility	Address	City	State
R2	Technology Solutions and Services, S.A. de C.V.	Carretera Mexicali Aeropuerto Km 17	Mexicali	Baja California
R2	Tex Mex Recycling	2801 Galveston	McAllen	TX
R2	Valutech Out Sourcing, S.A. de C.V.	Blvd. Manuel Gomez Morin #569	Mexicali	Baja California
R2	Valutech Out Sourcing, S.A. de C.V.	Calzada Gustavo Vildosola Castro No. 1849 Colonia Ex Ejido Coahuila. Delegacion Gonzalez Ortega	Mexicali	Baja California
R2	WSA Distributing	7222 Opportunity Rd	San Diego	CA
R2	ZRG, LLC	5910 Sea Lion Place #140	Carlsbad	CA

Enhance Joint Readiness for Environmental Response

Indicator	Number of Incident Notifications in the Border Region Received by the National Response Center (NRC)
Description	2003–2015 trend in incident notifications to NRC from U.S. border states and Mexico
Sources	2003–2009: U.S. National Response Center data provided by EPA, OSWER (2010) 2010: Presentation: Goal 4: Emergency Preparedness and Response, Tuesday, May 10 (08:40–09:10 hrs.), 3. Binational Incident Notification Process, Report on Notification of Emergencies & Exercises Completed by Mexico, Mexico Binational Notification (2010) 2011–2015: Subprocuraduría de Inspección Industrial, Procuraduría Federal de Protección al Ambiente. Cd. de México, Méx. Junio, 2016
Time Period	2003–2015
Units	Number of incident notifications
Notes	Data include all NRC notifications of incidents received from and delivered to the Joint Response Team components from 2003–2015. Filtered for incidents only; data do not include drills.

State	2003	2004	2005	2006	2007	2008	2009
California	283	331	315	434	442	468	515
Arizona	45	32	58	57	55	42	45
New Mexico	8	11	9	7	7	13	5
Texas	91	151	186	154	150	145	122
Total	428	529	571	664	661	672	690

State	2010	2011	2012	2013	2014	2015
California	525	429	403	343	245	300
Arizona	38	45	26	23	43	32
New Mexico	4	12	9	15	6	4
Texas	93	157	111	108	111	105
Total	660	25	20	87	26	35

Indicator	Number of Incident Notifications in the Border Region Received by COATEA/CENACOM
Description	2003–2015 trend in incident notifications to COATEA/CENACOM
Sources	<p>2003–2009: COATEA, 2010</p> <p>2010: Presentation: Goal 4: Emergency Preparedness and Response, Tuesday, May 10 (08:40–09:10 hrs.), 3. Binational Incident Notification Process, Report on Notification of Emergencies & Exercises Completed by Mexico, Mexico Binational Notification (2010)"</p> <p>2011–2012: Subprocuraduría de Inspección Industrial, Procuraduría Federal de Protección al Ambiente. Cd. de México, Méx. Junio, 2016</p> <p>2013–2015: Dirección de Administración de Emergencias, Dirección General de Protección Civil de la Secretaría de Gobernación. Cd. de México, Méx. Junio, 2017</p>
Time Period	2003–2015
Units	Number of incident notifications
Notes	Data are for emergencies reported by Mexico border sister cities and aggregated by state

State (Border Region Cities only)	2003	2004	2005	2006	2007	2008	2009
Baja California	2	2	4	5	11	2	6
Sonora	1	7	6	4	12	7	3
Chihuahua	0	0	2	4	2	3	1
Coahuila	3	1	1	0	2	2	1
Nuevo León	1	1	1	0	0	3	0
Tamaulipas	25	20	5	15	16	25	17
Total	32	31	19	28	43	42	28

State	2010	2011	2012	2013	2014	2015
Baja California	7	8	6	16	6	5
Sonora	2	6	6	20	6	6
Chihuahua	3	1	3	14	5	2
Coahuila	0	3	0	7	0	1
Nuevo León	2	0	1	4	1	0
Tamaulipas	12	5	4	14	5	4
Total	26	12	11	40	13	15

Indicator	Binational Capacity Building and Training Events
Description	2001–2015 Trend in border region capacity building and training events
Source	U.S. EPA, SEMARNAT, Civil Protection. “U.S. Mexico Border 2020 Training Events, 2001–2015” (data file) supplemented with data file from PROFEPA
Time Period	2001–2015
Units	Number of capacity building and training activities in the border region
Notes	2010 report included only exercises (i.e., table top full scale; 2016 Interim Report also includes other capacity building and training (e.g., courses, workshops, etc.) Some activities include multiple sister cities; these are counted as one exercise.

	2001	2002	2003	2004	2005	2006	2007	2008
Events Reported by U.S.	4	6	5	9	3	2	0	7
Events Reported by Mexico	2	4	2	1	1	6	3	4
Total:	6	10	7	10	4	8	3	11

	2009	2010	2011	2012	2013	2014	2015
Events Reported by U.S.	12	14	16	17	21	4	10
Events Reported by Mexico	2	4	3	6	5	5	7
Total:	14	18	19	23	26	9	17

Environmental Performance through Compliance, Enforcement, Pollution Prevention, and Promotion of Environmental Stewardship

Indicator	Total Number of Facilities Regulated Under Federal Programs: U.S. and Mexico Border Region
Description	Total number of facilities in the border region regulated under federal U.S. and Mexico programs
Sources	<p>Mexico (2008): PROFEPA, "Programa Ambiental México – Estados Unidos: Frontera 2012; Meta # 6: Mejorar el desempeño ambiental mediante la aplicación y el cumplimiento de la ley, la prevención de la contaminación y la promoción de la gestión ambiental responsable," Presented at 2009 Border 2012 NCM Meeting</p> <p>Mexico (2016): PROFEPA</p> <p>U.S.: ECHO database (2010 and 2016)</p> <p>2016 Query parameters: Select DISTINCT REGISTRY_ID, FAC_NAME, FAC_STREET, FAC_CITY, FAC_STATE, FAC_EPA_REGION, ACTIVE_FLAG, FAC_US_MEX_BORDER_FLG, CAA, CWA, RCR, SDW, TRI, RMP, AIR_IDS, NPDES_IDS, RCRA_IDS, SDWA_IDS, TRI_IDS, RMP_IDS, GHG_IDS from ECHO_DFR.V_FACILITIES_SUMMARIES where FAC_US_MEX_BORDER_FLG='Y' -- and ACTIVE_FLAG='Y'; ORDER BY FAC_STATE, FAC_NAME</p>
Time Period	Mexico data are for 2008 and 2016; U.S. data are for 2010 and 2016
Units	Number of facilities in the border region regulated under federal programs
Notes	2016 U.S. facilities are categorized as “active” rather than “linked”

State/Region	Mexico Border States: 2008	Mexico Border States: 2016	U.S. Border Region: 2010	U.S. Border Region 2016
Baja California	2,678	5,930		
Sonora	467	1,611		
Chihuahua	715	4,174		
Coahuila	512	934		
Nuevo Leon	434	256		
Tamaulipas	1,407	3,364		
California			3,750	4,328
Arizona			400	660
New Mexico			250	306
Texas			995	1,214

Indicator	Number of State and Federal Inspections for Federal Programs in the U.S. Border Region
Description	2002–2015 trend in inspections under federal programs for border region facilities, by U.S. State
Sources	2002–2009 data: EPA, OECA (2010) 2010–2011 data: EPA, ECHO (2015)—queried August 2015 2012–2015 data: EPA, ECHO (2016)—queried May 2016
Time Period	2002–2015 (calendar year)
Units	Number of inspections
Notes	<p>2010 data from ECHO (2015) is incomplete.</p> <p>2010–2015 data (ECHO 2015 and 2016) includes local inspections for CA and AZ (under delegated programs) as well as state and federal.</p> <p>ECHO (2016): Includes CAA, CWA, EPCRA, FIFRA, RCRA, SDWA, TSCA Query parameters: Select DISTINCT f.REGISTRY_ID, f.FAC_NAME, f.FAC_STREET, f.FAC_CITY, f.FAC_STATE, f.ACTIVE_FLAG, i.STATUTE, i.INSPECTION_TYPE_DESC, i.INSPECTION_TYPE_CODE, i.LEAD_AGENCY, i.INSPECTION_DATE from ECHO_DFR.V_FACILITIES_SUMMARIES f, ECHO_DFR.COMPLIANCE_MONITOR_HISTORIES i where f.REGISTRY_ID=i.REGISTRY_ID and f.FAC_US_MEX_BORDER_FLG='Y' and i.INSPECTION_DATE is not null ORDER BY i.INSPECTION_DATE;</p> <p>ECHO (2015): Includes CAA, CWA, EPCRA, FIFRA, RCRA, SDWA, TSCA Query parameters: Select DISTINCT f.REGISTRY_ID, f.FAC_NAME, f.FAC_STREET, f.FAC_CITY, f.FAC_STATE, f.ACTIVE_FLAG, i.STATUTE, i.INSPECTION_TYPE_DESC, i.INSPECTION_TYPE_CODE, i.LEAD_AGENCY, i.INSPECTION_DATE from ECHO_DFR.V_FACILITIES_SUMMARIES f, ECHO_DFR.COMPLIANCE_MONITOR_HISTORIES i where f.REGISTRY_ID=i.REGISTRY_ID and f.FAC_US_MEX_BORDER_FLG='Y' and i.INSPECTION_DATE is not null ORDER BY i.INSPECTION_DATE</p> <p>2002–2009 data: Facility records qualify for inclusion based on:</p> <ul style="list-style-type: none"> • The FRS US Mexico Border Flag = "Y", and • CAA: has a link to an AFS ID number; or • CWA-PCS: has a link to PCS State code = AZ; or • CWA-ICP: has a link to ICIS-NPDES facility interest state code = CA, NM, TX; or • RCRA: has a link to a RCRAInfo handler which is a TSDF, LQG, SQG, CESQG, and/or transporter; or • Other: has a link to an ICIS inspection activity not related to the CAA, CWA-NPDES, or RCRA programs. • Obvious duplicate records between AFS, PCS, ICP, RCR and ICI were deleted; others will result in double counting the action(s).

State Border Region	2002	2003	2004	2005	2006	2007	2008	2009
CA	39	341	446	201	193	288	213	99
AZ	11	49	117	63	79	66	61	48
NM	10	36	54	64	55	66	28	29
TX	42	240	273	187	174	223	223	220

State Border Region	2010*	2011	2012	2013	2014	2015
CA	203	315	244	271	322	298
AZ	105	143	154	133	138	125
NM	42	60	71	63	52	52
TX	187	336	370	268	334	176

*data is incomplete

Indicator	Number of Federal Inspections in the Mexico Border Region
Description	2003–2015 trend in inspections for federally regulated facilities in the border region, by Mexican State
Sources	2010–2015 data: Subprocuraduría de Inspección Industrial, Procuraduría Federal de Protección al Ambiente. Cd. de México, Méx. 2009 data and review of 2003–2008 data: PROFEPA (2010) 2003–2008 data: PROFEPA, "Programa Ambiental México – Estados Unidos: Frontera 2012; Meta # 6: Mejorar el desempeño ambiental mediante la aplicación y el cumplimiento de la ley, la prevención de la contaminación y la promoción de la gestión ambiental responsable," Presented at 2009 Border 2012 NCM Meeting
Time Period	2003–2015
Units	Visits per year
Notes	Data are for border region (franja fronteriza).

State Border Region	2003	2004	2005	2006	2007	2008	2009
Baja California	231	210	254	233	242	322	209
Sonora	41	56	76	69	88	76	93
Chihuahua	115	123	94	97	113	252	139
Coahuila	63	41	39	52	76	100	71
Nuevo Leon	104	68	65	83	64	25	81
Tamaulipas	193	222	205	179	206	249	200
Grand Total	747	720	733	713	789	1024	793

State Border Region	2010	2011	2012	2013	2014	2015
Baja California	268	294	204	222	282	305
Sonora	99	39	47	38	54	43
Chihuahua	241	100	130	130	163	104
Coahuila	55	47	29	39	30	47
Nuevo Leon	15	9	5	4	9	7
Tamaulipas	184	128	117	121	140	80
Grand Total	862	617	532	554	678	586

Indicator	Pollution Reduction from Federal Enforcement Actions in the U.S. Border Region
Description	2004–2014 trend in pollution reductions from enforcement actions under federal programs, by U.S. State
Sources	EPA, ECHO (2016)—queried May 2016
Time Period	2004–2015 (calendar year)
Units	Pounds of pollution (in millions)
Notes	<ul style="list-style-type: none"> • Data are from ECHO data - copy of ICIS FE&C Environmental Impacts for enforcement conclusions linked to Mexico Border facilities • Data were updated from ICIS on May 7, 2016 • SQL logic was revised over prior year data retrievals due to ECHO_DFR table data being incomplete. • Deleted columns linking to facilities (kept FAC_STATE) to remove duplicates due to a single settlement addressing multiple facilities • Deleted columns not needed to summarize pollutant reduction quantities • Added (calendar) YEAR column based on SETTLEMENT ENTERED DATE • Added STD UNITS column based on POLLUTANT UNIT CODE to normalize codes (subjectively applied) • Added SORT KEY to separate less meaningful/less used units (value = 1 or 2; subjectively applied; did not perform unit conversions, e.g., kg to pounds, or drum to gallons) • Pivot table is based on AVERAGE ANNUAL VALUES where SORT KEY = 1 <p>Conversions used:</p> <ul style="list-style-type: none"> • 1 gallon = 7 pounds (average for oils)

	2004	2005	2006	2007	2008	2009
CA	280,000	25,829	23,034	140,000	0	1,135,120
AZ	0	5,000	1,977,850	0	0	0
NM	118	3,732,012	4,395,453	3,973,929	9,564	54,000
TX	1,005,671	80,336,566	105,000	0	0	0
Total	1,285,789	84,099,407	6,501,337	4,113,929	9,564	1,189,120

Annual pounds (includes gallons converted to pounds)

	2010	2011	2012	2013	2014	2015
CA	22,912,974	0	753,360	0	0	76,888
AZ	0	0	0	2,125,536	2,596	311,920
NM	0	1,260	160,000	20	142,000	0
TX	4,149,061	1,897,000	8,885,087	67,705	9,529,352	4,607,834
Total	27,062,035	1,898,260	9,798,447	2,193,261	9,673,948	4,996,642

Annual pounds (includes gallons converted to pounds)