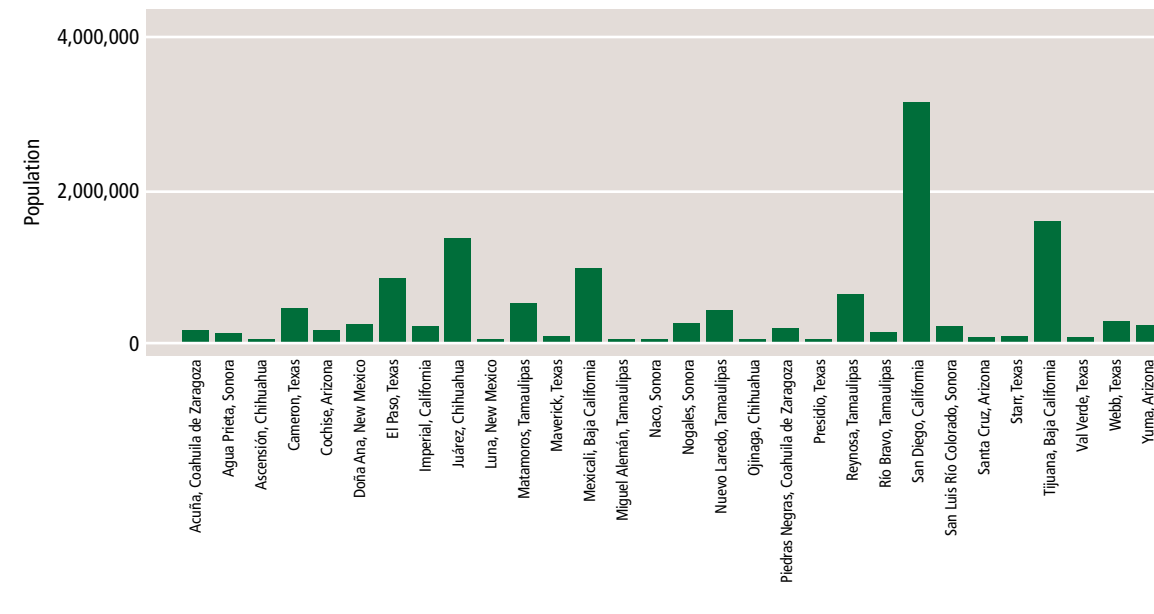
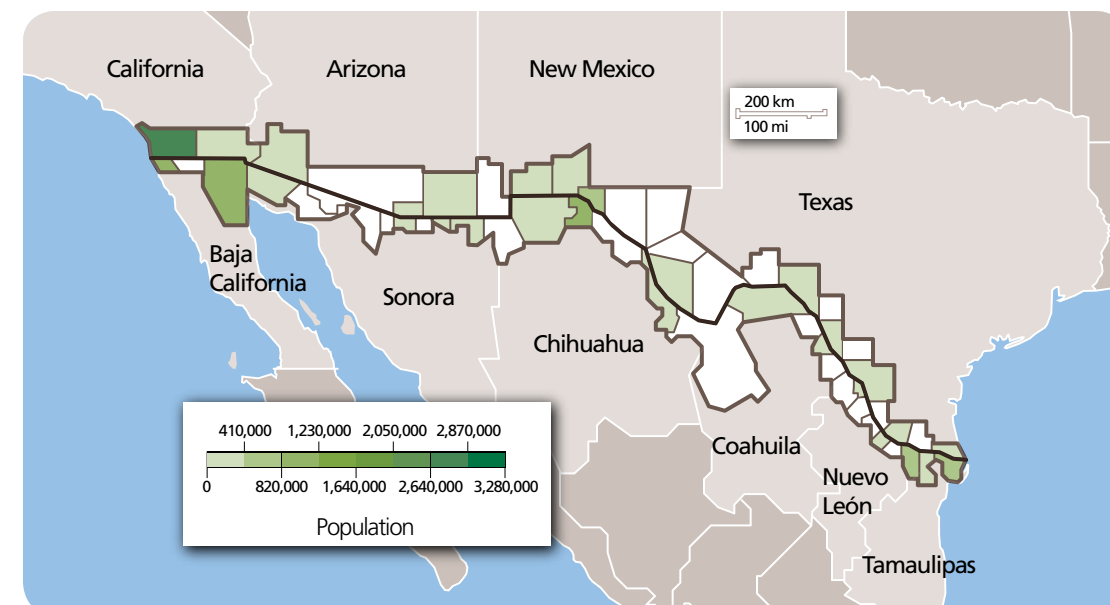


## United States - Mexico Border Counties and Municipalities Population 2010



## United States - Mexico Border Geographic Distribution of Population 2010

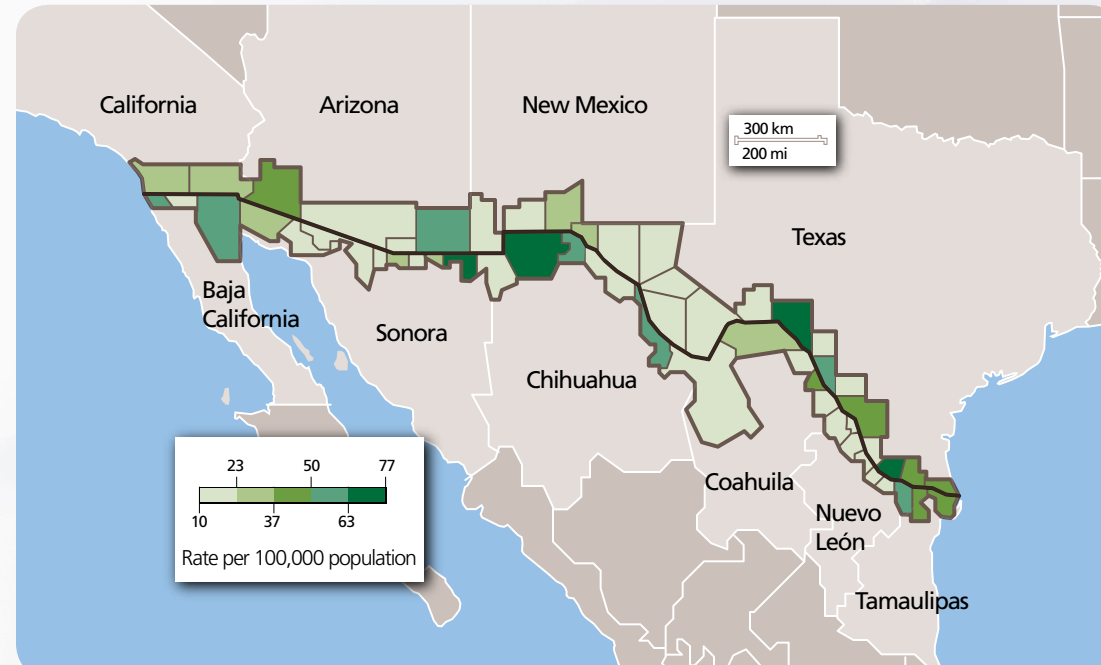


## Mortality Rates by Main Causes United States - Mexico Border Counties and Municipalities 2010

COUNTY/MUNICIPALITY	I. Communicable diseases and maternal, perinatal, and nutritional conditions		II. Noncommunicable diseases		III. External causes		TOTAL		
	Number	Rate per 100,000 pop.	Number	Rate per 100,000 pop.	Number	Rate per 100,000 pop.	Population	Number	Rate per 100,000 pop.
Acuña, Coahuila	48	35.1	433	316.6	65	47.5	136,755	546	399.3
Agua Prieta, Sonora	53	67.0	303	382.9	62	78.3	79,138	418	528.2
Ascensión, Chihuahua	17	70.9	88	367.0	66	275.3	23,975	171	713.2
Cameron, Texas	175	42.9	1,965	482.0	128	31.4	407,656	2,268	556.4
Ciudad Juárez, Chihuahua	744	55.9	5,019	376.8	4,327	324.8	1,332,131	10,090	757.4
Cochise, Arizona	66	50.1	1,047	795.4	111	84.3	131,627	1,224	929.9
Doña Ana, New Mexico	72	34.2	1,210	575.3	154	73.2	210,325	1,436	682.8
El Paso, Texas	260	32.4	3,970	494.1	304	37.8	803,506	4,534	564.3
Hidalgo, Texas	352	45.2	2,967	380.8	254	32.6	779,203	3,573	458.5
Imperial, California	52	29.8	837	479.2	60	34.4	174,667	949	543.3
Luna, New Mexico			250	995.4	22	87.6	25,115	272	1,083.0
Matamoros, Tamaulipas	217	44.4	1,648	336.9	291	59.5	489,193	2,156	440.7
Maverick, Texas	33	60.6	248	455.4			54,462	281	516.0
Mexicali, Baja California	541	57.7	3,608	385.1	560	59.8	936,826	4,709	502.7
Miguel Alemán, Tamaulipas	7	25.9	100	370.2	98	362.8	27,015	205	758.8
Naco, Sonora	2	31.2	33	515.5	8	125.0	6,401	43	671.8
Nogales, Sonora	80	36.3	608	276.0	302	137.1	220,292	990	449.4
Nuevo Laredo, Tamaulipas	159	41.4	1,409	366.9	286	74.5	384,033	1,854	482.8
Ojinaga, Chihuahua	15	57.0	132	501.8	54	205.3	26,304	201	764.1
Piedras Negras, Coahuila	64	41.9	608	397.9	104	68.1	152,806	776	507.8
Presidio, Texas			26	330.2			7,873	26	330.2
Reynosa, Tamaulipas	326	53.5	1,883	309.3	393	64.5	608,891	2,602	427.3
Rio Bravo, Tamaulipas	45	38.1	416	351.8	62	52.4	118,259	523	442.2
San Diego, California	911	29.3	16,998	547.6	1,389	44.7	3,103,933	19,298	621.7
San Luis Rio Colorado, Sonora	63	35.3	716	401.4	100	56.1	178,380	879	492.8
Santa Cruz, Arizona			222	468.6	16	33.8	47,380	238	502.3
Starr, Texas	46	75.2	327	534.8	17	27.8	61,149	390	637.8
Tijuana, Baja California	895	57.4	4,665	299.1	1,827	117.1	1,559,683	7,387	473.6
Val Verde, Texas	31	63.3	276	563.5	21	42.9	48,983	328	669.6
Webb, Texas	103	41.0	975	388.0	114	45.4	251,284	1,192	474.4
Yuma, Arizona	83	42.2	1,135	576.8	89	45.2	196,786	1,307	664.2
<b>Total</b>	<b>5,460</b>	<b>43.4</b>	<b>54,122</b>	<b>430.1</b>	<b>11,284</b>	<b>89.7</b>	<b>12,584,031</b>	<b>70,866</b>	<b>563.1</b>

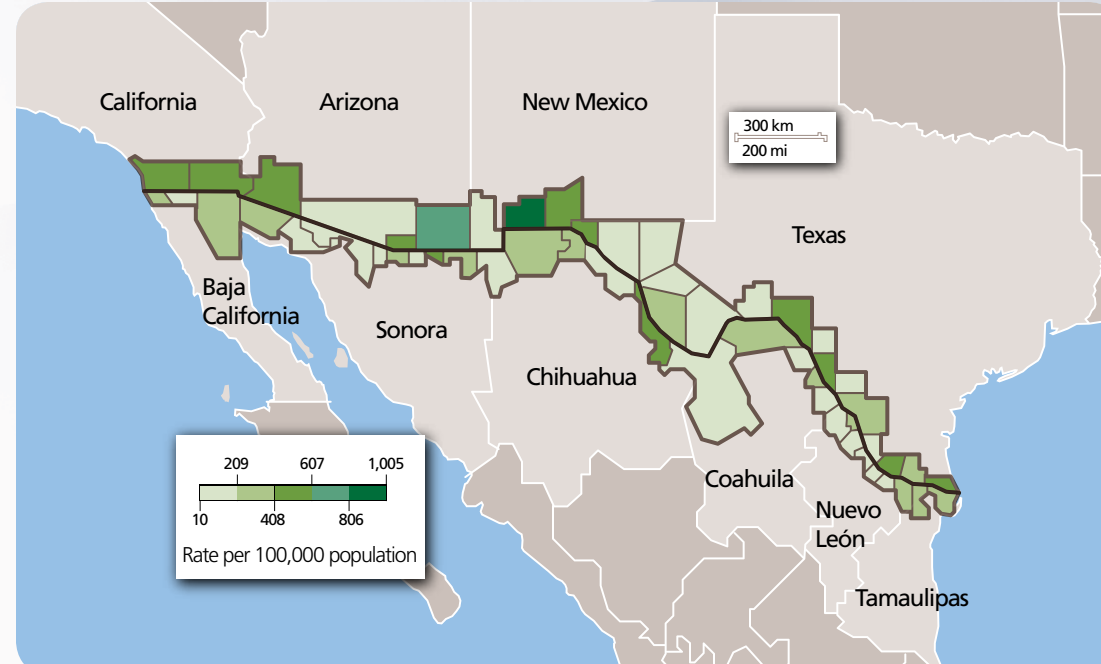
## Mortality Rate per 100,000 population in the United States - Mexico Border 2010

I. Communicable diseases and maternal, perinatal, and nutritional conditions



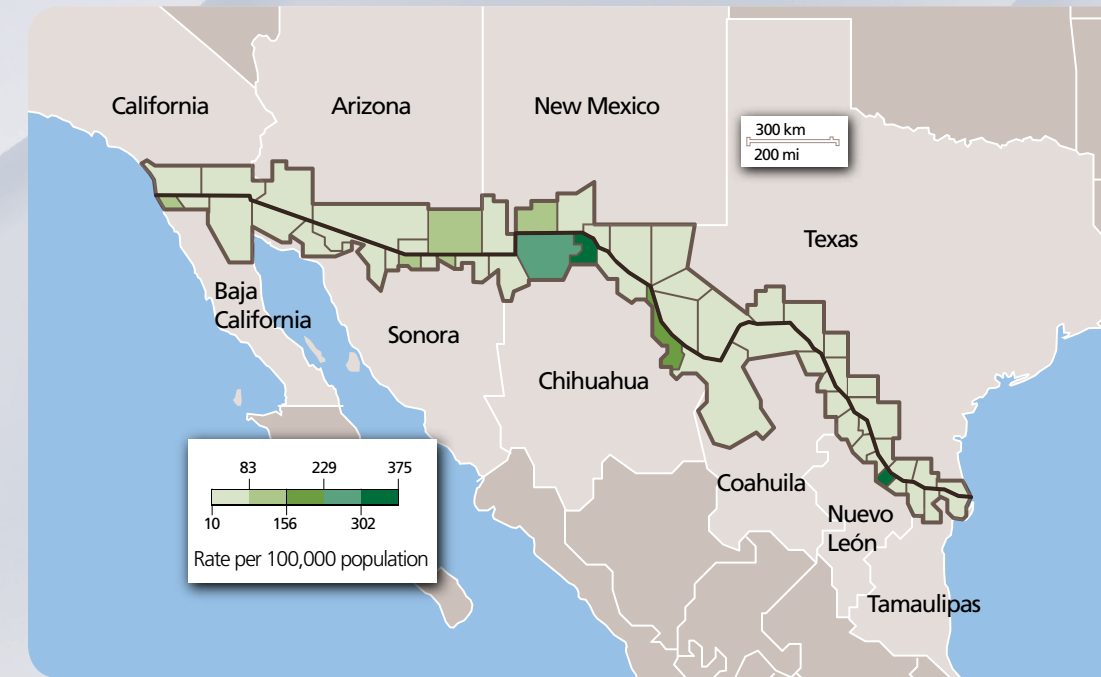
## Mortality Rate per 100,000 population in the United States - Mexico Border 2010

II. Noncommunicable diseases



## Mortality Rate per 100,000 population in the United States - Mexico Border 2010

III. External causes of morbidity and mortality



## Main Sources and Technical Notes

### Selected municipalities from Mexico:

**Baja California:** Mexicali and Tijuana  
**Chihuahua:** Ascensión, Juárez and Ojinaga  
**Coahuila de Zaragoza:** Acuña and Piedras Negras  
**Sonora:** Agua Prieta, Naco, Nogales and San Luis Rio Colorado  
**Tamaulipas:** Matamoros, Miguel Alemán, Nuevo Laredo, Reynosa and Rio Bravo

### Selected counties from USA:

**Arizona:** Cochise, Santa Cruz and Yuma  
**California:** Imperial and San Diego  
**New Mexico:** Doña Ana and Luna  
**Texas:** Cameron, El Paso, Maverick, Presidio, Starr, Val Verde and Webb

### Population data sources

#### Data on Mexico (2010)

Instituto Nacional de Estadística y Geografía (INEGI). *Censo de Población y Vivienda 2010. Consulta interactiva de datos (cubos)*. [Internet]. Available from: [http://www.inegi.org.mx/sistemas/olap/Proyectos/bd/censos/cpv2010/PT.asp?s=est&c=27770&proy=cpv10\\_pt](http://www.inegi.org.mx/sistemas/olap/Proyectos/bd/censos/cpv2010/PT.asp?s=est&c=27770&proy=cpv10_pt).

#### Data on the United States (1990-2012)

U.S. Department of Health and Human Services, Centers for Disease Control and Prevention (CDC), National Center for Health Statistics (NCHS), Bridged-Race Population Estimates, United States, July 1st, resident population by state, county, age, sex, bridged-race, and Hispanic origin. Compiled from 1990-1999 bridged-race intercensal population estimates (released by NCHS on 7/26/2004); revised bridged-race 2000-2009 intercensal population estimates (released by NCHS on 10/26/2012); and bridged-race Vintage 2012 (2010-2012) postcensal population estimates (released by NCHS on 6/13/2013). Available from CDC WONDER online database: <http://wonder.cdc.gov/bridged-race-v2012.html>.

**Note:** Counties and Municipalities selection was based on high population, those included have more than 90% of United States-Mexico Border population.

### Mortality data sources

#### Data on Mexico

Secretaría de Salud de México, Dirección General de Información en Salud (DGIS) [website in Spanish]: <http://dgis.salud.gob.mx/> or <http://www.salud.gob.mx/>.

#### Data on the United States

Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 1999-2010. Available from: CDC WONDER online database (published in 2012). The data are from the Multiple Cause of Death Files, 1999-2010, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Available from: <http://wonder.cdc.gov/ucd-icd10.html>. Consulted on 29 August 2013.

**Note:** Data are not shown when they meet the criteria for confidentiality constraints. For more information: [http://wonder.cdc.gov/wonder/help/ucd.html#Assurance of Confidentiality](http://wonder.cdc.gov/wonder/help/ucd.html#Assurance%20of%20Confidentiality).

#### Technical note on the calculation of crude mortality rates:

The classification used in the Global Burden of Disease study has followed: diseases, injuries, and causes of disease are classified in three major groups: Group I, communicable diseases and maternal, perinatal, and nutritional conditions; Group II, noncommunicable diseases; [Translator's note: While the Global Burden of Disease does discuss NCDs at length, Group II does not include the word "chronic" (as stated in the Spanish file).] and Group III, injuries.

The ICD-10 codes used in the above groups are:

Group I: A00-B99, G00-G04, N70-N73, J00-J06, J10-J18, J20-J22, H65-H66, O00-O99, P00-P96, E00-E02, E40-E46, E50, D50-D53, D64.9, E51-64.

Group II: C00-C97, D00-D48, D55-D64 (minus D 64.9), D65-D89, E03-E07, E10-E16, E20-E34, E65-E88, F01-F99, G06-G98, H00-H61, H68-H93, I00-I99, J30-I98, K00-K92, N00-N64, N75-N98, L00-L98, M00-M99, Q00-Q99.

Group III: V01-Y89.

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Also published in Spanish (2014) with the title: *Población y Mortalidad en la Frontera México-Estados Unidos: Serie de indicadores básicos de salud, 2013*.

# 2013

POPULATION AND MORTALITY AT THE UNITED STATES - MEXICO BORDER:

## BASIC HEALTH INDICATORS



## Preface

A priority task of US-Mexico Border Office of the Pan American Health Organization, Regional Office of World Health Organization (PAHO/WHO) is to cooperate in the study of the health situation of the border population by compiling, analyzing, and distributing relevant information. For more than two decades, the field office has been preparing a series of publications on mortality, health services, and the situation of certain diseases such as diabetes mellitus and tuberculosis.

Strengthening the capacity to analyze and disseminate information on living conditions that affect health has been a priority in all the countries of the Americas. This is especially important in the U.S.-Mexico border area due to the complex dynamics of demographic movements, the socio-cultural features of the area, and the differences between cities in the border states and between the two countries in terms of the social determinants of health.

This pamphlet on the basic health indicators for the U.S.-Mexico border contains quantitative information on mortality and uses the classification system adopted in reports on The Global Burden of Diseases. It also presents a geographical breakdown to more easily identify the main differences in the border area—in particular, between the main border counties. The purpose is for health authorities along the border to establish priorities and plan activities using this information to monitor regional situation of health changes.

The PAHO USMBO obtained the data presented here from U.S. and Mexico public domain sources. The presented data were prepared by PAHO staff at the field office on the U.S.-Mexico border. We hope this effort becomes a model for studying the health situation based on other indicators and that this, in turn, serves to increase the cross-border exchange and analysis of health information.

*Isaías Daniel Gutiérrez, M.D., M.P.H.*  
Chief, PAHO USMBO

# Population by Age Group United States - Mexico Border Counties and Municipalities 2010

County/ Municipality	0-04 Years			05-09 Years			10-14 Years			15-19 Years			20-24 Years			25-29 Years			30-34 Years			35-39 Years			40-44 Years			45-49 Years			50-54 Years			55-59 Years			60-64 Years			65-69 Years			70-74 Years			75-79 Years			80-84 Years			85+ Years			Age not specified			TOTAL						
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total																			
Acuña, Coahuila de Zaragoza	7,216	7,048	14,264	7,878	7,541	15,419	7,437	7,219	14,656	6,725	6,581	13,306	5,482	5,724	11,206	5,398	5,649	11,047	5,942	6,131	12,073	5,713	5,780	11,493	4,516	4,285	8,801	3,136	3,240	6,376	2,453	2,490	4,943	1,790	1,778	3,568	1,344	1,387	2,731	906	968	1,874	634	738	1,372	456	419	875	203	272	475	165	202	367	956	953	1,909	136,755						
Agua Prieta, Sonora	4,209	4,022	8,231	4,510	4,294	8,804	4,393	4,184	8,577	4,018	3,808	7,826	3,506	3,358	6,864	3,053	3,089	6,142	3,221	3,221	6,442	3,201	3,095	6,296	2,610	2,408	5,018	1,993	1,959	3,952	1,612	1,626	3,238	1,173	1,094	2,267	762	827	1,589	609	625	1,234	406	425	831	253	308	561	136	174	310	92	142	234	360	362	722	79,138						
Ascensión, Chihuahua	1,319	1,335	2,654	1,278	1,304	2,582	1,216	1,239	2,455	1,203	1,115	2,318	1,002	917	1,919	871	845	1,716	787	727	1,514	670	766	1,436	700	601	1,301	609	608	1,217	483	427	910	366	328	694	284	256	540	263	188	451	180	142	322	98	98	196	59	47	106	34	37	71	785	788	1,573	23,975						
Cameron, Texas	18,317	17,528	35,845	19,425	18,936	38,361	19,388	18,336	37,724	18,221	17,428	35,649	13,291	13,566	26,857	12,365	13,479	25,844	12,198	13,852	26,050	12,527	14,561	27,088	11,472	13,348	24,820	10,950	12,751	23,701	10,532	11,975	22,507	9,305	11,019	20,324	8,360	9,315	17,675	6,270	7,391	13,661	5,057	6,096	11,153	3,824	5,052	8,876	2,673	3,767	6,440	1,924	3,157	5,081							407,656			
Ciudad Juárez, Chihuahua	67,884	65,941	133,825	70,088	67,275	137,363	64,030	62,024	126,054	59,847	58,819	118,666	53,787	53,771	107,558	51,446	51,657	103,103	53,308	53,140	106,448	55,159	53,787	108,946	44,853	43,826	88,679	33,675	33,673	67,348	25,291	26,897	52,188	17,215	18,747	35,962	12,711	14,842	27,553	9,164	10,802	19,966	6,575	7,803	14,378	4,002	4,959	8,961	2,214	3,066	5,280	1,452	2,442	3,894	32,990	32,969	65,959	1,332,131						
Cochise, Arizona	4,407	4,101	8,508	4,169	4,023	8,192	4,195	4,038	8,233	4,932	4,244	9,176	4,575	3,589	8,164	4,919	3,989	8,908	4,016	3,572	7,588	3,863	3,402	7,265	3,789	3,627	7,416	4,242	4,180	8,422	4,403	4,793	9,196	4,373	4,624	8,997	4,245	4,480	8,725	3,635	3,892	7,527	2,949	2,916	5,865	2,066	2,100	4,166	1,375	1,550	2,925	913	1,441	2,354								131,627		
Doña Ana, New Mexico	7,899	7,669	15,568	7,735	7,531	15,266	7,709	7,598	15,307	9,228	9,069	18,297	9,695	9,393	19,088	7,775	7,329	15,104	6,270	6,286	12,556	5,629	6,168	11,797	5,514	6,228	11,742	6,410	7,087	13,497	6,262	7,020	13,282	5,774	6,312	12,086	5,144	5,515	10,659	3,912	4,219	8,131	3,176	3,416	6,592	2,341	2,583	4,924	1,605	2,054	3,659	1,051	1,719	2,770								210,325		
El Paso, Texas	32,897	31,724	64,621	33,601	32,622	66,223	34,723	33,282	68,005	35,633	33,872	69,505	32,372	30,070	62,442	28,234	28,284	56,518	24,147	26,209	50,356	25,505	28,306	53,811	24,345	26,852	51,197	24,577	27,645	52,222	23,495	26,720	50,215	19,433	22,398	41,831	15,855	18,002	33,857	10,889	13,644	24,533	8,618	11,314	19,932	6,682	9,503	16,185	4,831	7,615	12,446	3,412	6,195	9,607							803,506			
Hidalgo, Texas	37,710	36,991	74,701	39,423	38,173	77,596	37,834	36,290	74,124	35,278	34,426	69,704	28,223	28,598	56,821	26,696	27,993	54,689	25,784	28,136	53,920	25,813	28,448	54,261	22,991	25,505	48,496	20,526	22,190	42,716	17,840	20,186	38,026	15,017	17,639	32,656	13,249	15,369	28,618	10,172	11,920	22,092	8,194	9,783	17,977	6,466	7,770	14,236	4,590	5,834	10,424	3,329	4,817	8,146							779,203			
Imperial, California	6,867	6,646	13,513	7,036	6,819	13,855	7,598	6,952	14,550	7,708	7,324	15,032	7,201	5,974	13,175	6,983	5,460	12,443	6,521	5,133	11,654	6,023	5,305	11,328	6,038	5,528	11,566	5,738	5,671	11,409	5,535	5,602	11,137	4,473	4,838	9,311	3,566	3,884	7,450	2,465	2,934	5,399	2,106	2,330	4,436	1,633	1,987	3,620	1,258	1,498	2,756	818	1,215	2,033								174,667		
Luna, New Mexico	928	892	1,820	919	844	1,763	939	911	1,850	954	979	1,933	737	710	1,447	711	646	1,357	623	621	1,244	598	645	1,243	693	701	1,394	738	732	1,470	701	846	1,547	759	755	1,514	768	841	1,609	694	765	1,459	656	582	1,238	530	523	1,053	320	356	676	219	279	498							25,115			
Matamoros, Tamaulipas	23,966	23,086	47,052	24,879	24,276	49,155	24,293	23,074	47,367	23,601	23,092	46,693	20,584	20,901	41,485	18,707	19,590	38,297	19,229	19,993	39,222	19,442	20,479	39,921	16,884	17,618	34,502	13,293	13,312	26,605	10,376	10,554	20,930	7,069	7,560	14,629	5,290	6,168	11,458	3,663	4,362	8,025	2,732	3,543	6,275	1,783	2,208	3,991	1,075	1,455	2,530	786	1,215	2,001	4,582	4,473	9,055	489,193						
Maverick, Texas	2,422	2,338	4,760	2,576	2,478	5,054	2,698	2,528	5,226	2,633	2,515	5,148	1,979	1,735	3,714	1,646	1,633	3,279	1,518	1,670	3,188	1,615	1,926	3,541	1,613	1,773	3,386	1,541	1,626	3,167	1,402	1,612	3,014	1,329	1,569	2,898	1,053	1,262	2,315	801	1,006	1,807	662	777	1,439	485	629	1,114	374	483	857	207	348	555							54,462			
Mexicali, Baja California	42,315	40,665	82,980	44,363	42,745	87,108	44,838	42,840	87,678	44,008	41,967	85,975	42,051	40,449	82,500	38,186	36,784	74,970	38,058	36,852	74,910	39,455	37,567	77,022	32,084	30,652	62,736	26,316	25,913	52,229	21,640	22,254	43,894	15,915	16,217	32,132	11,775	12,975	24,750	8,294	9,317	17,611	6,268	7,059	13,327	4,003	4,609	8,612	2,430	2,946	5,376	1,708	2,366	4,074	9,496	9,446	18,942	936,826						
Miguel Alemán, Tamaulipas	1,125	1,126	2,251	1,178	1,201	2,379	1,342	1,336	2,678	1,268	1,291	2,559	1,106	1,148	2,254	984	1,070	2,054	991	1,035	2,026	1,108	1,083	2,191	964	871	1,835	853	778	1,631	629	620	1,249	476	437	913	402	370	772	290	333	623	224	263	487	162	157	319	67	105	172	57	81	138	241	243	484							27,015
Naco, Sonora	353	373	726	370	347	717	360	341	701	330	296	626	281	263	544	216	245	461	222	227	449	221	220	441	193	186	379	182	167	349	143	143	286	107	95	202	77	82	159	82	55	137	50	46	96	23	29	52	15	33	48	10	11	21	3	4	7	6,401						
Nogales, Sonora	12,280	11,897	24,177	12,286	11,929	24,215	11,516	10,949	22,465	9,772	9,917	19,689	9,210	8,874	18,084	9,653	9,467	19,120	10,441	10,081	20,522	9,789	8,933	18,722	7,348	6,896	14,244	5,196	4,983	10,179	3,975	4,099	8,074	2,958	3,177	6,135	1,991	2,074	4,065	1,233	1,375	2,608	803	997	1,800	486	686	1,172	275	454	729	208	358	566	1,875	1,851	3,726	220,292						
Nuevo Laredo, Tamaulipas	19,136	18,500	37																																																													