

Estimating the Economic Impact of Nonattainment for San Antonio MSA

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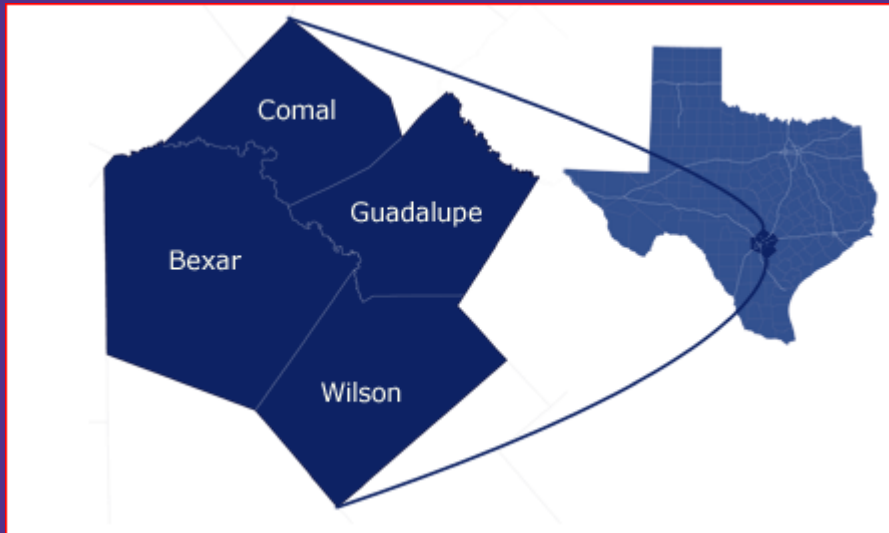
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Basic Facts

- ▶ Current population is 2.4 million in MSA (2010 Census)
- ▶ Includes Bexar, Comal, Wilson, Atascosa, Medina, Kendall and Guadalupe counties.
- ▶ Population continues to grow with cities such as New Braunfels listed as one of fastest growing communities in country
- ▶ Certain zip codes in San Antonio are seeing home purchases among highest in country.
- ▶ Anticipated that within next 25 years population will grow by 1 million in the MSA
- ▶ Recent data from Texas Data Center at UTSA tells us that Hispanics in general a young and growing population in Texas.

Nonattainment per EPA standards

- ▶ EPA established new ozone levels in October 2015 at 75 ppm
- ▶ North Texas - Dallas-Fort Worth and Houston-Brazoria-Galveston have been in noncompliance with EPA standards for number of year
- ▶ San Antonio MSA was designated as in nonattainment but its degree of nonattainment remains undetermined.



- ▶ City, county, and regional councils of government are preparing for new restrictions

Specific concerns

- ▶ Ozone emerges from the mixing of various sources, temperatures, etc.
- ▶ The key factors are NO_x and VOC.
- ▶ Largest sources of these emissions include industry, transport, and biogenic
- ▶ In the case of this MSA, the largest contributing sources are humans and their vehicles.

Key Questions

- ▶ What are the likely impacts on individual businesses and the overall economy of rules and regulations designed to bring the MSA back into compliance?
- ▶ Which rules and regulations are we concerned about:
- ▶ New construction, improvement to existing facilities, transportation plans, biogenic sources.

Health Concerns – Hispanic Populations

- ▶ Final step in analysis
- ▶ In collaboration with UTHSC - SA
- ▶ Question: How does Ozone impact on K-12 attendance and outcomes.
- ▶ UTHSCSA currently developing a strategy for measuring impacts.

How - Point Source Emissions

- ▶ Economic Impact analysis will use IMPLAN - Impact Analysis for Planning and Analysis managed by MIG group.
- ▶ Data required - amount of business investment and/or number of jobs, etc. for key industries in key sectors
- ▶ Sectors are identified by NAICS
- ▶ Key industries are identified by
 - ▶ (1) Input from key stakeholders
 - ▶ (2) Inventory of emissions from TCEQ
 - ▶ (3) Business media reports of new or expanding activities


Examples of Data for Point Source Emissions

Top 10 Air Polluters in San Antonio

County	Company	NOx	VOC	Total
Bexar	CPS Energy	6,859	103	6,962
Atascosa	San Miguel Electric Cooperative	2,671	62	2,733
Comal	CEMEX Construction Materials South	2,295	22	2,317
Bexar	Alamo Cement Company	2,247	36	2,283
Comal	TXI Operations LP	790	51	841
Bexar	Capital Aggregates Inc	577	96	673
Guadalupe	Guadalupe Power Partners LP	437	9	446
Bexar	Toyota Motor MFG Texas Inc	19	406	425
Comal	Lhoist North Americ of Texas LTD	356	5	361
Bexar	Southwest Research institute	165	59	224

Source: Alamo Area Council of Governments

IMPLAN ANALYSIS



www.IMPLAN.com

Model Information

Model Year: 2014
 Gross Regional Product: \$93,992,191,642
 Total Personal Income: \$75,330,460,000
 Total Employment: 1,110,159

Number of Industries: 387
 Land Area (Square Miles): 1,247
 Area Count: 1

Population: 1,855,866
 Total Households: 653,882
 Average Household Income: \$115,205

Trade Flows Method: Trade Flows Model
 Model Status: Study Area
 Multiplier Specification: Type SAM

Areas in the Model

Texas Bexar County

Gross Regional Product [Export to Excel](#)

Value Added		Final Demand	
Employee Compensation:	\$50,634,962,628	Households:	\$62,129,131,827
Proprietor Income:	\$9,072,915,010	State/Local Government:	\$11,673,196,769
Other Property Type Income:	\$26,511,371,816	Federal Government:	\$18,753,109,785
Tax on Production and Import:	\$7,772,942,187	Capital:	\$20,509,566,674
		Exports:	Not Yet Estimated
		Imports:	Not Yet Estimated
		Institutional Sales:	(\$2,851,806,794)
Total Value Added:	\$93,992,191,642	Total Final Demand:	Not Yet Estimated

Economic Indicators

Shannon-Weaver Diversity Index: 0.72737

Top Ten Industries [View By: Employment](#)

Sector	Description	Employment	Labor Income	Output
534	* Employment and payroll of local govt, e...	60,162	\$3,500,360,000	\$4,147,708,000
440	Real estate	41,434	\$749,487,400	\$5,772,482,000
502	Limited-service restaurants	39,288	\$759,314,800	\$3,229,688,000
536	* Employment and payroll of federal govt,...	36,621	\$3,290,738,000	\$4,865,057,000
501	Full-service restaurants	36,278	\$833,013,800	\$1,703,505,000
395	Wholesale trade	31,422	\$2,489,493,000	\$7,543,198,000
535	* Employment and payroll of federal govt,...	28,823	\$3,014,933,000	\$4,056,539,000
464	Employment services	26,692	\$822,826,600	\$1,489,068,000
480	Home health care services	25,706	\$713,887,400	\$849,582,800
482	Hospitals	22,964	\$1,612,708,000	\$3,105,689,000

On-Road Source - Mobile

- ▶ Data sources: San Antonio regional office of Texas Department of Transportation for vehicles on road
- ▶ Texas Transportation Institute - Urban Mobility study
- ▶ US Department of Transportation data on roads
- ▶ Local government transit and transportation authorities
- ▶ All data resources will require interviews and/or surveys.

Emission Trends per AACOG/TCEQ

