

Regional Needs Assessment

REGION 7

PREVENTION RESOURCE CENTER

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Executive Summary

The Regional Needs Assessment (RNA) contains information collected by the Prevention Resource Center in Region 7 (PRC 7) with the Brazos Valley Council on Alcohol and Substance Abuse (BVCASA) and the Texas Department of State Health Services (DSHS). The RNA provides stakeholders (i.e., policymakers, health care workers, and interested residents) in the state, PRC and community at large, with a comprehensive view about the trends, outcomes and consequences associated with drug and alcohol use within the region and across the state. The RNA enables stakeholders to engage in long-term strategic prevention planning relative to the needs of the community. This RNA also serves as a template for sharing information with stakeholders in the future. Finally, this RNA will influence the development of a Regional Data Repository (RDR) which will function as part of a state data repository.

In this RNA, members of the PRC 7 sought to provide a descriptive account of Central Texas based on multiple datasets to address the following questions: What do we know from datasets? And what could be perceived as a concern from data? As datasets were examined, several concerns were made visible by illustrating county level extremes (e.g., the highest percentage in dropout rate), including:

- Perceptions of marijuana as harmful have decreased among college students and adolescents.
- Alcohol and Marijuana were the primary substances for which people sought DSHS treatment.
- There were more drug arrests than arrests related to alcohol.
- There are more prescriptions than people (1.3 prescriptions per person).
- Social support association score for region 7 were greater than the state average score.
- The number of homeless kids per school for region 7 is lower than the state average per school.

Determining needs of communities requires both a scientific and thoughtful approach. It would be negligent for the authors to present data describing conditions for communities or the state without also offering insight about contextual values inherent within those communities or the state. For, although communities can be described with numbers and percentages, they also contain residents with a fluid set of collective experiences, lifestyles, histories, traditions, and expectations. While Texas is a cultural, geographical, and social experience of diversity for many residents; the state is also culturally similar across its many community types (i.e., rural, suburban, city, and region). There are ubiquitous hallmarks within Texas many inhabitants see as familiar sentries in the farming and ranching communities of rural west Texas, the suburbs of Dallas/Fort Worth, the inner-city of Houston, or the Rio Grande Valley. While each of these communities is wonderfully unique in composition, most of them are united by a cultural pride, a commercialized branding rooted in folklore; the residents of Texas are part of a rugged and hard-working tapestry. The five point star, Austin stone, and Dairy Queen are but a handful of iconic imagery likely to be experienced by residents in the communities found across the extensive landscape of Texas.

Given the various distinctions between community types, it would be easy to see how trends may present differently amongst the regions of Texas. For example, some stakeholders might assume border regions are plagued more by drug cartels. However, it should be noted that the activity of these cartels plagues many of the more interior regions as well, as these regions are integral to the supply and trade routes of these powerful cartels (see Texas DPS Threat Overview, 2013). Some stakeholders might also assume suburban and inner-city community types with more treatment centers for substance abuse have higher drug use rates, based on the likelihood of individuals to remain in a given community after concluding treatment and the high recidivism rate of addiction. Again, these would be assumptions, the nature of which may be verified or refuted through empirical investigation. Hence, a

needs assessment would be an appropriate place to start. It is not the aim of this document, however, to imply causality between substance and prevalence rates and the contextual values in community types. Broader implications of meaning or etiology with relation to data are not addressed in this assessment.

The information presented in this assessment has been acquired by a team of regional evaluators through local and state entities, and compared with information from state and national datasets. Secondary information, taken from local surveys, focus groups, and interviews allows for participation by residents in the community, whose expertise lends a local voice to identified issues. It is the intent of the authors for the reader to ascertain standardized measures of substance use-related trends, with an understanding of the explicit contextual values of the communities within Region 7. The information obtained and presented can be used by community, region, and state level stakeholders to better understand the needs and serve residents within Region 7.

Introduction

The Department of State Health Services (DSHS), Substance Abuse & Mental Health Services Administration (SAMHSA), funds approximately 188 school and community-based programs statewide to prevent the use and consequences of alcohol, tobacco and other drugs (ATOD) among Texas youth and families.

These programs provide evidence-based curricula and effective prevention strategies identified by SAMHSA's Center for Substance Abuse Prevention (CSAP).

The Strategic Prevention Framework provided by CSAP guides many prevention activities in Texas. In 2004, Texas received a state incentive grant from CSAP to implement the Strategic Prevention Framework in close collaboration with local communities in order to tailor services to meet local needs for substance abuse prevention. This prevention framework provides a continuum of services that target the three classifications of prevention activities under the Institute of Medicine (IOM), which are universal, selective, and indicated.

The Department of State Health Services Substance Abuse Services funds Prevention Resource Centers (PRCs) across the state of Texas. These centers are part of a larger network of youth prevention programs providing direct prevention education to youth in schools and the community, as well as community coalitions that focus on implementing effective environmental strategies. This network of substance abuse prevention services work to improve the welfare of Texans by discouraging and reducing substance use and abuse. Their work provides valuable resources to enhance and improve our state's prevention services aimed to address our state's three prevention priorities to reduce: (1) underage



drinking; (2) marijuana use; and (3) non-medical prescription drug abuse. These priorities are outlined in the Texas Behavioral Health Strategic Plan developed in 2012.

Prevention Resource Centers

There are eleven regional Prevention Resource Centers (PRCs) servicing the State of Texas. Each PRC acts as the central data repository and substance abuse prevention training liaison for their region. Data collection efforts carried out by PRC are focused on the state's prevention priorities of alcohol (underage drinking), marijuana, and prescription drug use, as well as other illicit drugs.

Our Purpose

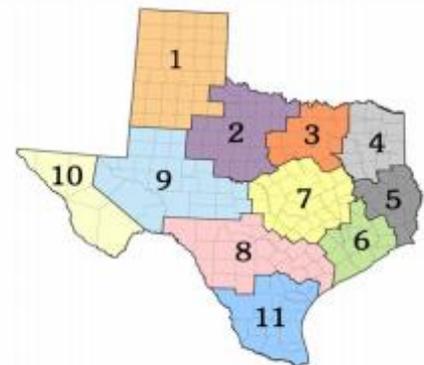
Prevention Resource Centers have four fundamental objectives related to services provided to partner agencies and the community in general: (1) collect data relevant to ATOD use among adolescents and adults and share findings with community partners via the Regional Needs Assessment, presentations, and data reports, (2) ensure sustainability of a Regional Epidemiological Workgroup focused on identifying strategies related to data collection, gaps in data, and prevention needs, (3) coordinate regional prevention trainings and conduct media awareness activities related to risks and consequences of ATOD use, and (4) provide tobacco education to retailers to encourage compliance with state law and reduce sales to minors.

What Evaluators Do

Regional PRC Evaluators are primarily tasked with developing data collection strategies and tools, performing data analysis, and disseminating findings to the community. Data collection strategies are developed around drug use risk and protective factors, consumption data, and related consequences. Along with the Community Liaison and Tobacco Specialists, PRC Evaluators engage in building collaborative partnerships with key community members who aid in securing access to information.

How We Help the Community

PRCs provide technical assistance and consultation to providers, community groups and other stakeholders related to data collection activities for the data repository. PRCs also contribute to the increase in stakeholders' knowledge and understanding of the populations they serve, improve programs, and make data-driven decisions. Additionally, the program provides a way to identify community strengths as well as gaps in services and areas of improvement.



Our Regions

Current areas serviced by a Prevention Resource Center are:

Region 1	Panhandle and South Plains
Region 2	Northwest Texas
Region 3	Dallas/Fort Worth Metroplex
Region 4	Upper East Texas
Region 5	Southeast Texas

Region 6	Gulf Coast
Region 7	Central Texas
Region 8	Upper South Texas
Region 9	West Texas
Region 10	Upper Rio Grande
Region 11	Rio Grande Valley/Lower South Texas

Conceptual Framework of This Report

As one reads through this document, two guiding concepts will appear throughout the report: a focus on the youth population, and the use of an empirical approach from a public health framework. For the purpose of strategic prevention planning related to drug and alcohol use among youth populations, this report is based on three main aspects: risk and protective factors, consumption patterns, and consequences of drug use.

Adolescence

According to the National Institute on Drug Abuse, there is a higher likelihood for people to begin abusing drugs—including tobacco, alcohol, and illegal and prescription drugs—during adolescence and young adulthood. The teenage years are a critical period of vulnerability to substance use disorders given that the brain is still developing and some brain areas are less mature than others.

The Texas Department of State Health Services posits a traditional definition of adolescence as ages 13-17 (Texas Administrative Code 441, rule 25). However, The World Health Organization (WHO) and American Psychological Association both define adolescence as the period of age from 10-19. WHO identifies adolescence as the period in human growth and development that represents one of the critical transitions in the life span and is characterized by a tremendous pace in growth and change that is second only to that of infancy. Behavior patterns that are established during this process, such as drug use or nonuse and sexual risk taking or protection, can have long-lasting positive and negative effects on future health and well-being.

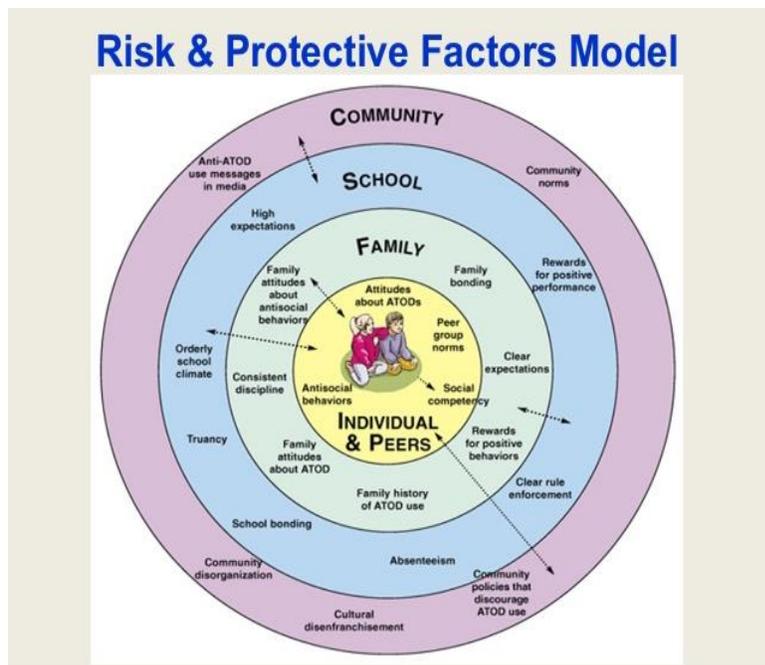
The information presented in this RNA is comprised of regional and state data, which generally define adolescence as ages 10 through 17-19. The data reviewed here has been mined from multiple sources and will therefore consist of varying demographic subsets of age. Some domains of youth data conclude with ages 17, 18 or 19, while others combine “adolescent” and “young adult” to conclude with age 21.

Epidemiology

As established by the Substance Abuse and Mental Health Services Administration, epidemiology helps prevention professionals identify and analyze community patterns of substance misuse and the various factors that influence behavior. Epidemiology is the theoretical framework for which this document evaluates the impact of drug and alcohol use on the public at large. Meaning ‘to study what is of the people’, epidemiology frames drug and alcohol use as a public health concern that is both preventable and treatable. According to the World Health Organization, “Epidemiology is the study of the distribution and determinants of health-related states or events (including disease), and the application of this study to the control of diseases and other health problems.”

The Substance Abuse Mental Health Services Administration has also adopted the epi-framework for the purpose of surveying and monitoring systems which currently provide indicators regarding the use of drugs and alcohol nationally. Ultimately, the WHO, SAMHSA, and several other organizations are endeavoring to create an ongoing systematic infrastructure (such as a repository) that will enable effective analysis and strategic planning for the nation's disease burden, while identifying demographics at risk and evaluating appropriate policy implementation for prevention and treatment.

Risk and Protective Factors



For many years, the prevalent belief was rooted in the notion that the physical properties of drugs and alcohol were the primary determinant of addiction; however, the individual's environmental and biological attributions play a distinguished role in the potential for the development of addiction. More than 20 years of research has examined the characteristics of effective prevention programs. One component shared by effective programs is a focus on risk and protective factors that influence drug use among adolescents.

Protective factors are characteristics that decrease an individual's risk for a

substance abuse disorder, such as: strong and positive family bonds, parental monitoring of children's activities and peers, and clear rules of conduct that are consistently enforced within the family. Risk factors increase the likelihood of substance abuse problems, such as: chaotic home environments, history of parental abuse of substances or mental illnesses, poverty levels, and failure in school performance. Risk and protective factors are classified under four main domains: community, school, family, and individual/peers.

Consumption Patterns and Consequences

Consequences and consumption patterns share a complex relationship; they are deeply intertwined and often occur in the context of other factors such as lifestyle, culture, or education level. It is a challenging task to determine if consumption of alcohol and other drugs has led to a consequence, or if a seemingly apparent consequence has resulted due to consumption of a substance. This report examines rates of consumption among adolescents and related consequences in the context of their cyclical relationship; it is not the intention of this report to infer causality between consumption patterns and consequences.

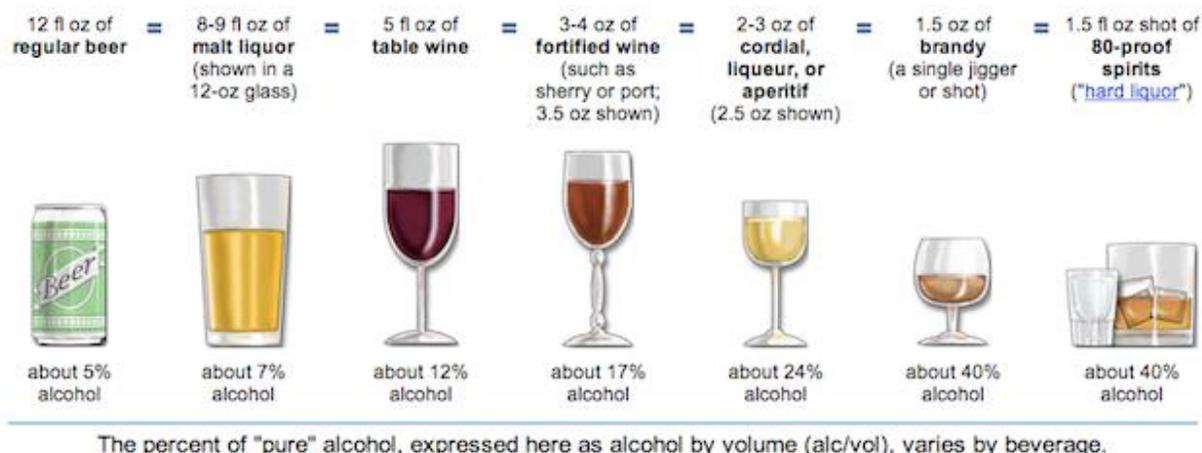
Consumption Patterns Defined

SAMHSA defines Consumption as "the use and high-risk use of alcohol, tobacco, and illicit drugs. Consumption includes patterns of use of alcohol, tobacco, and illicit drugs, including initiation of use,

regular or typical use, and high-risk use.” Some examples of consumption factors for alcohol include terms of frequency, behaviors, and trends, such as current use (within the previous 30 days), current binge drinking, heavy drinking, age of initial use, drinking and driving, alcohol consumption during pregnancy, and per capita sales. Consumption factors associated with illicit drugs may include route of administration such as intravenous use and needle sharing.

The concept also encompasses standardization of substance unit, duration of use, route of administration, and intensity of use. Understanding the measurement of the substance consumed plays a vital role in consumption rates. With alcohol, for instance, beverages are available in various sizes and by volume of alcohol. Variation occurs between beer, wine and distilled spirits, and, within each of those categories, the percentage of the pure alcohol may vary. Consequently, a unit of alcohol must be standardized in order to derive meaningful and accurate relationships between consumption patterns and consequences.

The National Institute on Alcohol Abuse and Alcoholism defines the “drink” as half an ounce of alcohol, or 12 ounces of beer, a 5 ounce glass of wine, or 1.5 ounce shot of distilled spirits. With regard to intake,



the NIAAA has also established a rubric for understanding the spectrum of consuming alcoholic beverages. Binge drinking has historically been operationalized as more than five drinks within a conclusive episode of drinking. The NIAAA (2004) defines it further as the drinking behaviors that raise an individual’s Blood Alcohol Concentration (BAC) up to or above the level of .08gm%, which is typically 5 or more drinks for men, and 4 or more for women, within a two hour time span. Risky drinking, on the other hand, is predicated by a lower BAC over longer spans of time, while “benders” are considered two or more days of sustained heavy drinking.

Consequences

For the purpose of the RNA, consequences are defined as adverse social, health, and safety problems or outcomes associated with alcohol and other drugs use. Consequences include events such as mortality, morbidity, violence, crime, health problems, academic failure, and other undesired events for which alcohol and/or drugs are clearly and consistently involved. Although a specific substance may not be the single cause of a consequence, measureable evidence must support a link to alcohol and/or drugs as a contributing factor to the consequence.

The World Health Organization estimates alcohol use as the world's third leading risk factor for loss of healthy life, and that the world disease burden attributed to alcohol is greater than that for tobacco and illicit drugs. In addition, stakeholders and policymakers have a vested interest in the monetary costs associated with substance-related consequences. State and regional level data related to consequences of alcohol and other drug use are summarized in later sections of this report.

Stakeholders

Potential readers of this document include stakeholders from a variety of disciplines such as substance use prevention and treatment providers; medical providers; school districts and higher education; substance use prevention community coalitions; city, county, and state leaders; and community members interested in increasing their knowledge of public health factors related to drug consumption. The information presented in this report aims to contribute to program planning, evidence-based decision making, and community education.

The executive summary found at the beginning of this report will provide highlights of the report for those seeking a brief overview. Since readers of this report will come from a variety of professional fields with varying definitions of concepts related to substance abuse prevention, a description of definitions can be found in the section titled "Key Concepts." The core of the report focuses on substance use risk and protective factors, consumption patterns, and consequences.

Report Purpose and Methods

This needs assessment was developed to provide relevant substance abuse prevention data related to adolescents throughout the state. Specifically, this regional assessment serves the following purposes:

- To discover patterns of substance use among adolescents and monitor changes in substance use trends over time;
- To identify gaps in data where critical substance abuse information is missing;
- To determine regional differences and disparities throughout the state;
- To identify substance use issues that are unique to specific communities and regions in the state;
- To provide a comprehensive resource tool for local providers to design relevant, data-driven prevention and intervention programs targeted to needs;
- To provide data to local providers to support their grant-writing activities and provide justification for funding requests;
- To assist policy-makers in program planning and policy decisions regarding substance abuse prevention, intervention, and treatment in the state of Texas.

Methodology

The state evaluator and the regional evaluators collected primary and secondary data at the county, regional, and state levels between September 1, 2015 and May 30, 2016. The state evaluator met with

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the regional evaluators at a statewide conference in September 2016 to discuss the expectations of the regional needs assessment for the third year.

Between September 2015 and June 2016, the state evaluator met with regional evaluators via bi-weekly conference calls to discuss the criteria for processing and collecting data. The information was primarily gathered through established secondary sources including federal and state government agencies. In addition, region-specific data collected through local law enforcement, community coalitions, school districts and local-level governments are included to address the unique regional needs of the community. Additionally, qualitative data was collected through primary sources such as surveys and focus groups conducted with stakeholders and participants at the regional level.

Primary and secondary data sources were identified when developing the methodology behind this document. Readers can expect to find information from the American Community Survey, Texas Department of Public Safety, Texas School Survey of Drug and Alcohol Use, and the Community Commons, among others. Also, adults and youth in the region were selected as primary sources.

Quantitative Data Selection

Relevant data elements were determined and reliable data sources were identified through a collaborative process among the team of regional evaluators and with support from resources provided by the Southwest Regional Center for Applied Prevention Technologies (CAPT). The following were **criterion for selection**:

- For the purpose of this Regional Needs Assessment, the Regional Evaluators and the Statewide Prevention Evaluator chose secondary data sources as the main resource for this document based on the following criteria:
- **Relevance:** The data source provides an appropriate measure of substance use consumption, consequence, and related risk and protective factors.
- **Timeliness:** Our attempt is to provide the most recent data available (within the last five years); however, older data might be provided for comparison purposes.
- **Methodologically sound:** Data that used well-documented methodology with valid and reliable data collection tools.
- **Representative:** We chose data that most accurately reflects the target population in Texas and across the eleven human services regions.
- **Accuracy:** Data is an accurate measure of the associated indicator.

Qualitative Data Selection (each region to work on this section depending on their work completed)

Focus Groups

Asking individuals in the community what they see related to alcohol and drug trends or patterns, involved identifying individuals in key roles. For example, law enforcement individuals provide a description of what is encountered while on duty. The same can be said of individuals in roles involving close contact with alcohol and drug related activity (e.g., hospital workers).

Interviews

The use of focus groups was not used in the traditionally sense of coordinating and organizing a focus group session by inviting stakeholders to discuss issues in the community. Rather, the

approach was to ask questions during organization meetings. By participating and attending meetings throughout the region, we were able to talk with stakeholders expressing concerns for their communities and possessing information about alcohol and drug use in their community.

Surveys

Surveys originating from the Prevention Resource Center (PRC) were not heavily relied on for gaining descriptive information of the region. Rather, state and federal survey information was collected to build a descriptive account of the region. Local surveying and data collection was used to support or inform the construction of our knowledge base.

Demographic Overview

The Prevention Resource Center 7 works to assess and collect information on the 30 counties within Region 7. The region is aligned to the Texas Department of Health and Human Services Region 7. Offices for the PRC 7 are located in Bryan Texas and situated in the Brazos Valley Council on Alcohol and Substance Abuse (BVCASA). Region 7 is also known as Central Texas by the Texas Department of State Health Services.

According to DSHS, the urban-rural designation for 17 of the 30 counties was rural. Further county urban-rural labeling can be found in Appendix B. The classification of counties as wet, partially wet, and dry determine the counties legal status related to sales of alcoholic beverages. For example, wet means all sales of alcoholic beverage are legal everywhere in the county while dry means no sales of alcoholic beverages in the county are legal. Partially wet counties can include dry counties that have a couple wet cities or counties that regulate the sale of alcohol prohibiting the sale of alcohol on certain days or what percentage of alcohol in a drink is sold in grocery stores. As of June 2014, the Texas Alcoholic Beverage Commission has recorded the following 4 counties as wet: Brazos, Fayette, San Saba, and Washington. There are no dry counties in Region 7, which means the other 26 counties are considered partially wet.



State Demographics by Region

The state of Texas demographic section will describe statewide conditions for the following categories: Population, Age, Race, Ethnicity, Languages, Concentrations of Populations, and General Socioeconomics, which includes: Average Wages by County, Household Composition, Employment Rates, Industry, TANF Recipients, Food Stamp Recipients, and Free School Lunch Recipients. This section will also highlight some of the regions of the state that may be identified as priority populations in terms of higher needs related to demographic and socio-economic status indicators. A priority population may be defined by demographic factors such as age, gender, race/ethnicity, income level, education attainment or grade level, or health care coverage status; disparities among demographic factors should be identified¹.

Population

Texas is a state of vast land area and a rapidly growing population. Compared to the U.S. as a whole, Texas' 2015 population estimate of 27,469,114 people ranks it as the second-most populous state, behind California's 39,144,818, and Texas ranks as the second-fastest growing state with a 2010-2015 growth change of 9.24%, behind only North Dakota at 12.54%, well ahead of the national growth rate of 4.10%¹. Below in Table 1 are the regional components of Texas' significant population increases during the 2010-2015 period. Note that Region 6 (Houston and surrounding counties) leads the growth component, followed Midland-Odessa area of Region 9 and that of Austin and surrounding counties in Region 7.

TABLE 1 - REGIONAL POPULATION AND PERCENT CHANGE, 2010-2015

Region	2010 Population	2015 Population Estimate	Growth (+/-)	Percent
1	839,736	868,300	28,564	3.40%
2	550,422	550,041	(381)	-0.07%
3	6,733,271	7,418,525	685,254	10.18%
4	1,111,701	1,133,629	21,928	1.97%
5	767,306	775,006	7,700	1.00%
6	6,087,210	6,826,772	739,562	12.15%
7	2,948,316	3,294,790	346,474	11.75%
8	2,604,657	2,866,126	261,469	10.04%
9	571,870	639,189	67,319	11.77%
10	825,912	859,385	33,473	4.05%
11	2,105,704	2,237,351	131,647	6.25%
Texas	25,146,105	27,469,114	2,323,009	9.24%
U.S.	308,758,105	321,418,820	12,660,715	4.1%

Age and Sex

Texas' population is significantly younger than the United States as whole. In the categories of teen-aged youth (0-19 years of age), Texas stands at 29.3% while the U.S. is 25.8%. The younger population is also

¹ U.S. Census Bureau, 2015 Population, Population Change, and Components of Change.

revealed in the category of persons 65 years and over, where Texas has fewer in that group (11.8%) than the U.S. at 14.5%.²

TABLE 2 - REGIONAL POPULATION BY AGE CATEGORY

Region	Population 0-19	Percent	Population 65+	Percent
1	257,260	29.2%	117,297	13.3%
2	146,676	26.0%	95,632	17.0%
3	2,118,676	29.3%	777,568	10.8%
4	300,659	26.1%	199,394	17.3%
5	208,746	26.4%	128,501	16.2%
6	1,927,254	29.3%	678,720	10.3%
7	900,633	28.1%	363,486	11.4%
8	799,191	28.7%	373,269	13.4%
9	175,219	29.1%	81,331	13.5%
10	279,754	31.6%	102,419	11.6%
11	772,692	33.8%	266,081	11.7%
Texas	7,886,760	29.3%	3,183,698	11.8%
U.S.	82,135,602.00	25.8%	46,243,211	14.5%

Race and Ethnicity

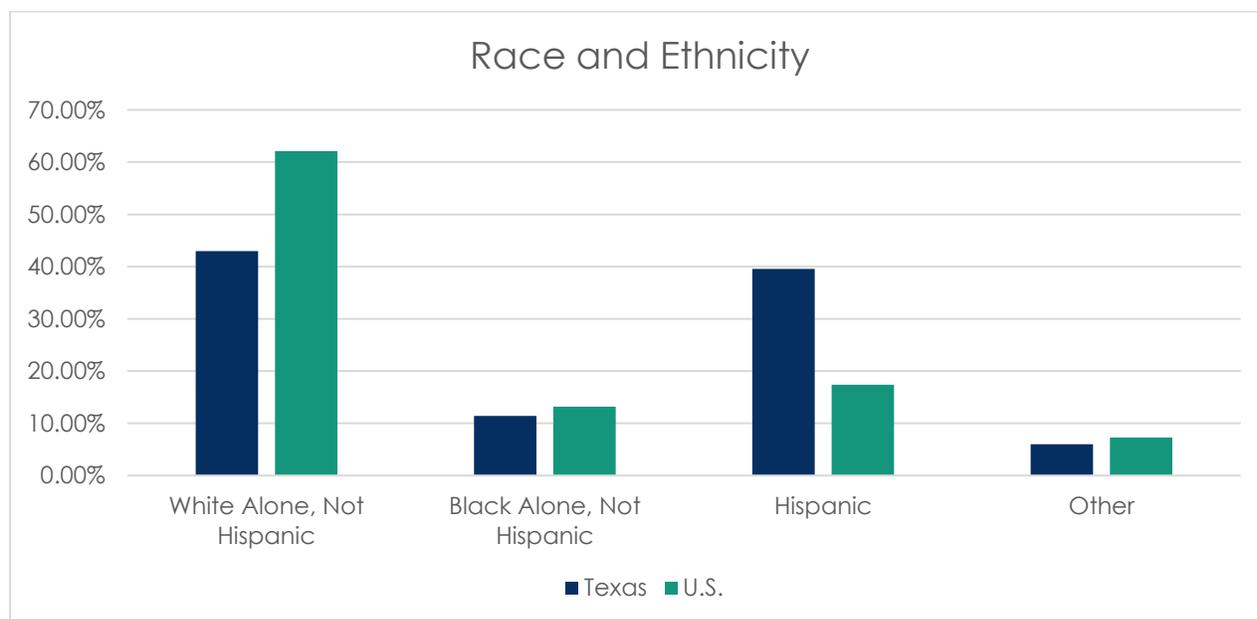
Texas is an increasingly diverse state with a strong Hispanic representation. The table below shows the racial and ethnic make-up of Texas’ population, which is represented by slightly fewer black and other races and significantly higher Hispanic or Latino population.³ The Hispanic population is concentrated in region 11 and region 10, which are the regions with the highest percent of Hispanics.

² Texas State Data Center, 2015 Population Projections, and U.S. Census Bureau, 2014 Annual Estimates of Population.

³ Texas State Data Center, 2015 Population Projections, and U.S. Census Bureau, 2015 Annual Estimates of Population.

TABLE 3 - REGIONAL POPULATION BY RACE AND ETHNICITY

Region	White Alone, Not Hispanic	Black Alone	Hispanic	Other
1	54.39%	5.29%	36.70%	3.62%
2	69.33%	5.94%	21.44%	3.29%
3	48.96%	14.38%	28.81%	7.85%
4	66.82%	15.36%	14.99%	2.83%
5	62.18%	19.95%	14.44%	3.43%
6	37.49%	16.62%	37.27%	8.62%
7	55.18%	9.75%	28.70%	6.38%
8	35.19%	5.56%	55.53%	3.71%
9	47.17%	4.15%	46.30%	2.37%
10	12.61%	2.45%	82.74%	2.20%
11	13.48%	1.04%	84.01%	1.47%
Texas	42.99%	11.44%	39.56%	6.01%
U.S.	62.10%	13.20%	17.40%	7.30%



Languages

Texas has a significantly higher number of residents that are foreign born (16.5%) than the U.S. as a whole (13.1%). As a result, there are also significantly higher numbers of the population (ages 5+, 2010-2014) that report a “language other than English is spoken at home,” with Texas at 34.9% compared to 20.9% nationally.⁴ Another similar indicator is the population with limited English proficiency (LEP). In Texas, it is much higher at 14.22% of the population versus 8.60% for the U.S. Persons are considered to have limited English proficiency they indicated that they spoke a language other than English, and if they

⁴ U.S. Census Bureau: State and County QuickFacts. 2014 Vintage.

spoke English less than "very well," measured as a percentage of the population aged 5 or older.⁵ Note the significantly higher percentages in the border counties surrounding the El Paso (Region 10) and Brownsville (Region 11) metro areas.

TABLE 4 - REGIONAL LIMITED ENGLISH PROFICIENCY

Region	Persons 5+ in Household	Numebr 5+ with LEP	Percent 5+ with LEP
1	789,750	69,948	8.86%
2	514,095	26,457	5.15%
3	6,495,307	843,803	12.99%
4	1,048,689	56,541	5.39%
5	719,756	39320	5.46%
6	5,885,315	987,163	16.77%
7	2,873,636	264,024	9.19%
8	2,516,577	299,357	11.90%
9	550,027	65,133	11.84%
10	780,139	240,145	30.78%
11	1,977,989	543,369	27.47%
Texas	24,151,279	3,435,260	14.22%
United States	294,133,388	25,305,204	8.60%

Concentrations of Populations

Texas’ land area of 268,580.82 square miles places it as the 2nd largest state, behind Alaska’s vast 663,267.26 square miles. Texas 96.3 persons per square mile (density) is very close to the national average of 87.3, with New Jersey (1195.5) and Alaska (1.2) representing the highest and lowest density.⁶

Also, Table 5 below contains the 2010 Census designations of populations by urban and rural status. To qualify as an urban area, the territory identified according to criteria must encompass at least 2,500 people, at least 1,500 of which reside outside institutional group quarters. Areas adjacent to urban areas and cores are also designated as urban when they are non-residential, but contain urban land uses, or when they contain low population, but link outlying densely settled territory with the densely settled core.

"Rural" areas consist of all territory, population, and housing units located outside UAs and UCs. Geographic entities, such as metropolitan areas, counties, minor civil divisions, places, and census tracts, often contain both urban and rural territory, population, and housing units.

TABLE 5 - REGIONAL URBAN AND RURAL POPULATIONS

Region	2010 Population	Urban	Urban Percent	Rural	Rural Percent
1	839,586	649,052	77.31%	190,534	22.69%
2	550,250	354,892	64.50%	195,358	35.50%
3	6,733,179	6,100,919	90.61%	632,260	9.39%

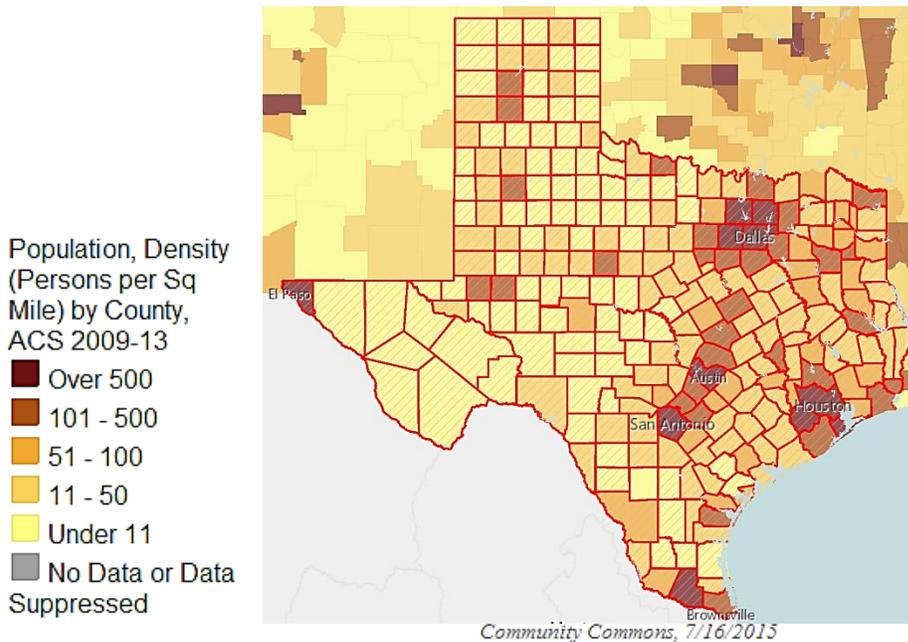
⁵ U.S. Census Bureau, American Community Survey. 2010-14.

⁶ U.S. Census Bureau: State and County QuickFacts. Last Revised: Thursday, 28-May-2015. (See Appendix A, Table 2.)

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4	1,111,696	542,818	48.83%	568,878	51.17%
5	767,222	432,088	56.32%	335,134	43.68%
6	6,087,133	5,625,713	92.42%	461,420	7.58%
7	2,948,364	2,309,329	78.33%	639,035	21.67%
8	2,604,647	2,143,709	82.30%	460,938	17.70%
9	571,871	451,190	78.90%	120,681	21.10%
10	825,913	793,905	96.12%	32,008	3.88%
11	2,105,700	1,894,424	89.97%	211,276	10.03%
Texas	25,145,561	21,298,039	84.70%	3,847,522	15.30%
United States	312,471,327	252,746,527	80.89%	59,724,800	19.11%

¹ *Assessment, Prioritization, and Priority Populations.* (2016, July 27) Retrieved from Community Health Improvement Resources. Missouri Department of Health and Senior Services. http://health.mo.gov/data/InterventionMICA/AssessmentPrioritization_5.html



State Socioeconomics by Region

Approximating general socioeconomic status for the State of Texas has led to describing several components of socioeconomic status. The RNA provides descriptive information for average wages, household composition in relation to single-parent households, employment rates, and industry.

Average Wages

In Texas, the average weekly wage was \$842.10 (including federal). Excluding federal wages, the average weekly wage was 833.40. The employment numbers in Texas were 11,388,114 (including federal) and 11,197,863 (excluding federal). The total wages amounted to \$156,873,914,181 (including federal) and \$153,542,103,331 (excluding federal).

Per Capita Income

County	Per Capita Income 2014
Bastrop	\$30,383
Bell	\$40,007
Blanco	\$57,949
Bosque	\$38,229
Brazos	\$32,740
Burleson	\$40,097
Burnet	\$43,688
Caldwell	\$29,283
Coryell	\$32,678
Falls	\$33,517
Fayette	\$47,200
Freestone	\$36,255
Grimes	\$34,996
Hamilton	\$50,220
Hays	\$34,959
Hill	\$36,121
Lampasas	\$46,618
Lee	\$43,241
Leon	\$40,093
Limestone	\$33,551
Llano	\$39,508
Madison	\$31,177
Mclennon	\$35,467
Milam	\$37,276
Mills	\$35,472
Robertson	\$44,251
San Saba	\$34,718
Travis	\$54,145
Washington	\$49,365
Williamson	\$38,938
Region 7 Average	\$39,405
Data source: U.S. Bureau of Economic Analysis. CA1-3. http://www.txcip.org/tac/census/morecountyinfo.php?MORE=1011	
Data year: 2014	

One of the most important factors related to risk for, and protection from, substance abuse is the ability to provide for the necessities of life. One of the indicators that measures this is per capita income, or the mean money income received in the past 12 months computed for every man, woman, and child in a geographic area, according to the Census Bureau. It is derived by dividing the total income of all people 15 years old and over in a geographic area by the total population in that area. In Texas, the per capita income (2014 dollars, 2010-2014 data) is \$26,512. This is significantly lower than the U.S. per capita income measure of \$28,554.⁷ Table 6 below features the higher per capita income

⁷ U.S. Census Bureau, American Community Survey. 2010-14.

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Regions 3, 6 and 7 associated with the metro areas of Dallas/Fort Worth, Houston and Austin, respectively. Regions 11, 10, and 5 present with the lowest per capita income in comparison to the rest of the regions in the State.

TABLE 6 - REGIONAL PER CAPITA INCOME

Region	Total Population	Total Income (\$)	Per Capita Income (\$)
1	852,813	\$20,063,979,988	\$23,527
2	549,812	\$12,414,759,612	\$22,580
3	7,012,720	\$206,705,337,504	\$29,476
4	1,121,471	\$25,454,054,744	\$22,697
5	770,091	\$17,240,982,928	\$22,388
6	6,371,624	\$186,909,543,360	\$29,335
7	3,091,787	\$87,291,704,328	\$28,233
8	2,709,360	\$67,011,716,504	\$24,733
9	596,648	\$16,002,279,536	\$26,820
10	848,562	\$15,931,207,356	\$18,774
11	2,167,145	\$36,746,206,204	\$16,956
Texas	26,092,032	\$691,771,801,600	\$26,512
U.S.	314,107,072	\$8,969,237,037,056	\$28,554

Household Composition and Conditions

Another way to gain a basic understanding of stresses to the family unit is the composition of the household. One basic indicator is the number of persons per household. Texas has a greater number of persons per household (2.83, 2010-2014) than the U.S. as a whole (2.63).⁸ The Community Commons report defines an overcrowded unit as one that has more than one occupant per room. Information related to the percent of overcrowded housing is presented below. This indicator is relevant as housing conditions are associated with a wide range of health conditions and increased risk for diseases. Region 11 has the highest percent of population living in an overcrowded unit.

TABLE 7 - REGIONAL HOUSING CONDITIONS

Region	Total Households	Total Occupied Housing Units	Overcrowded Housing Units	% of Housing Units Overcrowded
1	219,977	263,520	11,739	4.45
2	126,251	177,775	4,935	2.78
3	1,885,207	1,808,092	112,394	6.22
4	267,054	330,486	14,660	4.44
5	181,057	213,909	8,707	4.07
6	1,722,230	1,467,564	113,200	7.71
7	752,154	894,120	39,920	4.46

⁸ U.S. Census Bureau, American Community Survey. 2010-14.

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8	703,721	762,019	44,070	5.78
9	157,358	180,319	9,008	5
10	244,547	221,461	17,542	7.92
11	673,940	581,640	68,111	11.71
Texas	6,933,496	6,909,687	444,709	6.44
U.S.	73,019,542	90,364,208	3,852,710	4.26

Also children in single-parent households are statistically at greater risk for adverse health outcomes such as mental health problems (including substance abuse, depression, and suicide) and unhealthy behaviors such as smoking and excessive alcohol use. Self-reported health has been shown to be worse among lone parents (male and female) than for parents living as couples, even when controlling for socioeconomic characteristics. Mortality risk is also higher among lone parents. Children in single-parent households are at greater risk of severe morbidity and all-cause mortality than their peers in two-parent households. As indicated in Table 7 below, several regions bear the societal pressure of more single-parent households than others.⁹

TABLE 8 - REGIONAL HOUSEHOLD COMPOSITION

Region	Single Parent Households	Total Households	Percent Households	Single Parent
1	74,594	219,977		33.91%
2	43,740	126,251		34.65%
3	600,317	1,885,207		31.84%
4	93,278	267,054		34.93%
5	70,844	181,057		39.13%
6	557,876	1,722,230		32.39%
7	235,257	752,154		31.28%
8	249,542	703,721		35.46%
9	52,470	157,358		33.34%
10	88,429	244,547		36.16%
11	248,553	673,940		36.88%
Texas	2,314,900	6,933,496		33.39%
U.S.	24,537,900	73,019,542		33.60%

Employment Rates

Texas generally enjoys a substantially more favorable employment climate than most states, as previously evidenced in part by the population growth figures. This indicator is relevant because unemployment creates financial instability and barriers to access including insurance coverage, health services, healthy food, and other necessities that contribute to poor health status. The latest data from the Bureau of Labor Statistics (BLS, April 2016) indicates that Texas currently holds an April 2016 unemployment rate of 4.2%, while the nation as a whole sits at 4.7%. The current rate of 4.2% represents

⁹ U.S. Census Bureau, American Community Survey. 2010-14.

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a 0.1% increase from April 2015. The rates by region are indicated below, with Regions 3 and 1 in the metro Austin and Panhandle areas having the least current unemployment.¹⁰

TABLE 9 - REGIONAL EMPLOYMENT RATES

Region	Labor Force	Number Employed	Number Unemployed	Unemployment Rate
1	419,920	406,118	13802	3.3%
2	240,701	230,916	9785	4.1%
3	3,817,091	3,682,390	134,701	3.5%
4	504,920	480,735	24185	4.8%
5	324,390	305,323	19067	5.9%
6	3,339,025	3,178,131	160894	4.8%
7	1,667,407	1,613,950	53,457	3.2%
8	1,341,361	1,290,956	50405	3.8%
9	307,732	292,266	15466	5.0%
10	359,309	342,895	16414	4.6%
11	935,605	873,072	62533	6.7%
Texas	13,257,468	12,696,755	560,713	4.2%
U.S.	159,624,372	152,082,706	7,541,666	4.7%

Industry

When compared to the U.S., Texas firms employ roughly the same proportions of workers by industry type. The data in the chart below indicates that Texas has a slightly more “blue collar” workforce, with marginally fewer management and business employees and slightly more mining, construction and similar labor force types. Region 7 (Austin area) and Region 3 (Dallas/Ft. Worth area) pace the state for white collar, high-tech industries.¹¹

TABLE 10 - REGIONAL EMPLOYMENT BY INDUSTRY TYPE

Region	Civilian employed population 16+	Management, business, science, arts	Service	Sales and office	Natural resources, construction, maintenance	Production, transportation, and material moving
1	394,362	30.73%	19.02%	24.18%	12.94%	13.12%
2	228,357	29.97%	19.93%	23.94%	12.86%	13.31%
3	3,374,570	37.38%	16.07%	25.31%	9.51%	11.73%
4	463,091	28.20%	18.71%	23.71%	13.48%	15.89%
5	302,876	28.00%	19.30%	23.00%	14.24%	15.45%
6	2,977,406	36.35%	16.71%	23.61%	11.08%	12.25%
7	1,451,071	39.71%	17.50%	24.18%	9.64%	8.97%

¹⁰ U.S. Bureau of Labor Statistics, Local Area Unemployment Statistics Information and Analysis, April 2016. Rates are seasonally adjusted.

¹¹ Series S2406: Occupation by Class of Worker for the Civilian Employed Population 16 Years and Over. U.S. Census Bureau, American Community Survey. 2010-14.

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8	1,197,426	33.48%	19.37%	25.58%	10.91%	10.66%
9	269,715	27.70%	16.34%	24.40%	17.09%	14.46%
10	330,951	29.63%	21.41%	26.48%	9.90%	12.59%
11	819,185	26.90%	23.42%	25.26%	12.87%	11.55%
Texas	11,809,010	34.88%	17.77%	24.59%	10.94%	11.82%
U.S.	143,435,233	36.42%	18.16%	24.36%	8.98%	12.09%

TANF Recipients

This indicator reports the percentage recipients per 100,000 populations receiving public assistance income. Public assistance income includes general assistance and Temporary Assistance to Needy Families (TANF). Separate payments received for hospital or other medical care (vendor payments) is excluded. This does not include Supplemental Security Income (SSI) or noncash benefits such as Food Stamps. The percentage of households in Texas who receive public assistance income of this type varies significantly from county to county, but the rates in Regions 11 and 10 are higher than the state rate of 242.27 per 100K population.¹² There is no U.S. calculation available for this measure.

TABLE 11 - REGIONAL TANF RECIPIENTS PER 100K POPULATION

Region	2015 Population	2015 TANF Recipients	Recipients Per 100K Population
1	882,775	1,523	172.52
2	563,104	1,272	225.89
3	7,225,438	9,898	136.99
4	1,152,494	1,965	170.50
5	792,109	1,390	175.48
6	6,575,370	8,668	131.83
7	3,210,292	4,119	128.31
8	2,776,839	4,088	147.22
9	601,840	780	129.60
10	883,702	3,863	437.14
11	2,283,153	27,368	1198.69
Texas	26,947,116	65,286	242.27

SNAP Recipients

Another estimate of instability in providing for basic needs is the estimated percentage of households receiving the Supplemental Nutrition Assistance Program (SNAP) benefits. This indicator is relevant because it assesses vulnerable populations which are more likely to have multiple health access, health status, and social support needs; when combined with poverty data, providers can use this measure to identify gaps in eligibility and enrolment. The number of recipients per 100K population in Texas is highest in Regions 11, 10 and 5.¹³

¹² Texas Health and Human Services Commission, TANF Recipients by County, December 2015.

¹³ Texas Health and Human Services Commission, SNAP Recipients by County, December 2015.

TABLE 12 - REGIONAL SNAP RECIPIENTS PER 100K POPULATION

Region	2015 Population	Number of SNAP Recipients	Recipients Per 100K Population
1	880,203	115,693	13,143.90
2	563,104	76,555	13,595.18
3	7,225,438	850,614	11,772.49
4	1,152,494	165,803	14,386.45
5	792,109	127,457	16,090.84
6	6,575,370	849,699	12,922.45
7	3,199,811	338,074	10,565.44
8	2,787,320	432,505	15,516.88
9	601,840	69,078	11,477.80
10	886,274	189,491	21,380.63
11	2,283,153	591,670	25,914.60
Texas	26,947,116	3,806,639	14,126.33

Free and Reduced-Price School Lunch Recipients

The National School Lunch Program is a federally assisted meal program operating in public and nonprofit private schools and residential child care institutions. Children from families with incomes at or below 130 percent of the poverty level are eligible for free meals. Those with incomes between 130 percent and 185 percent of the poverty level are eligible for reduced-price meals, for which students can be charged no more than 40 cents.

Total student counts and counts for students eligible for free and reduced price lunches are acquired for the school year 2013-2014 from the NCES Common Core of Data (CCD) Public School Universe Survey. School-level data is summarized to the county, state, and national levels for reporting purposes. Texas reports that of the total student population, 60.08% are eligible to receive the school meal benefit, which is greater than the U.S. rate of 52.35%. The regional percentages vary greatly from a high in Region 10 to a low in Region 2. The regional percentages vary greatly with region 10 and region 11 having the highest eligible population.¹⁴

TABLE 8 - REGIONAL SCHOOL LUNCH ASSISTANCE

Region	Total Students	Number Free/Reduced Price Lunch Eligible	Percent Free/Reduced Price Lunch Eligible
1	512,729	293,229	57.19%
2	229,556	123,627	53.85%
3	1,004,629	554,721	55.22%
4	196,361	108,819	55.42%
5	155,512	100,401	64.56%

¹⁴ National Center for Education Statistics, NCES Common Core of Data. 2013-14.

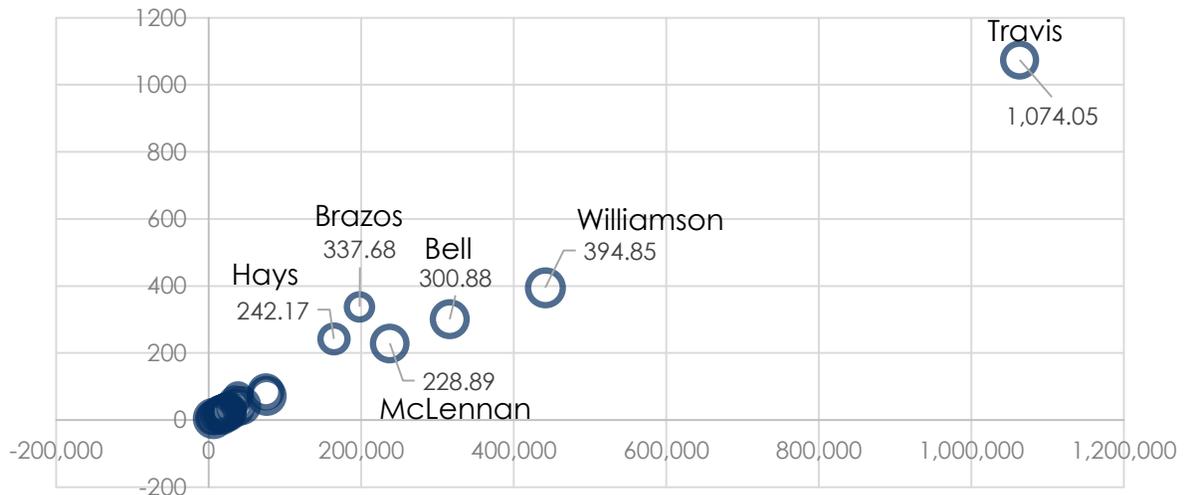
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6	1,181,436	708715	59.99%
7	315,751	192,759	61.05%
8	498,551	306,658	61.51%
9	399,449	219,950	55.06%
10	184,051	137,773	74.86%
11	471,000	345,435	73.34%
Texas	5,149,025	3,092,087	60.08%
U.S.	50,195,195	26,012,902	52.35%

Regional Demographics

Most of the population in Region 7 can be found in the following counties: Travis, Williamson, Bell, Brazos, McLennan and Hays. Of the 6 counties mentioned, five are closely positioned to Interstate Highway (IH) 35. Brazos County is the only county mentioned outside the IH 35 route.

Population Density per County (Per Square Mile)



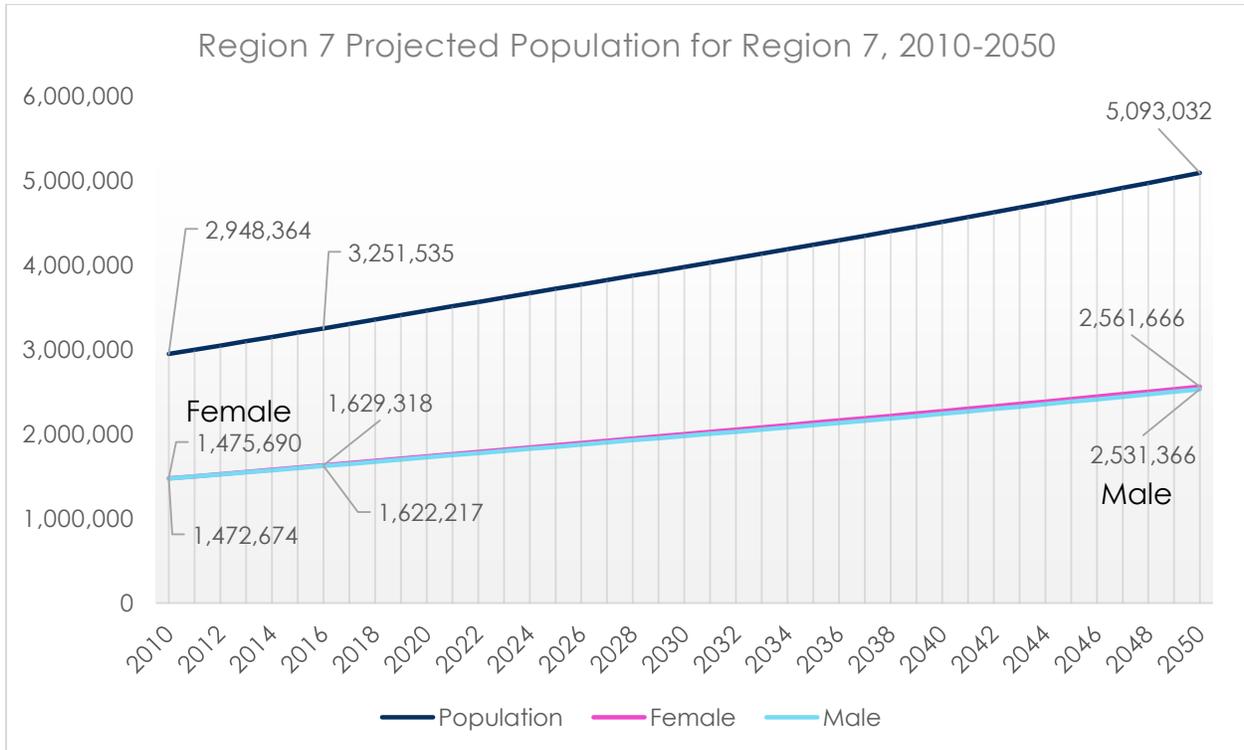
The proportion of land to population in Region 7 is presented in the above figure to illustrate that large amounts of land are still available for the growing population in the region. The potential for further housing development is indicated in the figure as the trajectory of the population density is closer to population rather than land area. This suggests people in the region are living in concentrated areas. In the table below comparisons of Region 7 totals for population, population density and land area are provided. These values indicate Region 7 or Central Texas has plenty of room for future growth and development. In fact, most of the Region 7 land area has considerable potential for economic gain in relation to the Texas Triangle (a megaregion anchored by Houston, Dallas-Fort Worth, Austin, and San Antonio).

Population Density of Region 7 Compared to Texas and U.S.			
Report Area	Total Population	Population Density*	Total Land Area**
Region 7	3,025,901	118.48	25,540
Texas	25,639,372	261,162.44	98.17
United States	311,536,591	3,530,997.60	88.23

Note. *=per square mile; **=unit in square miles. American Community Survey 2009-2013.

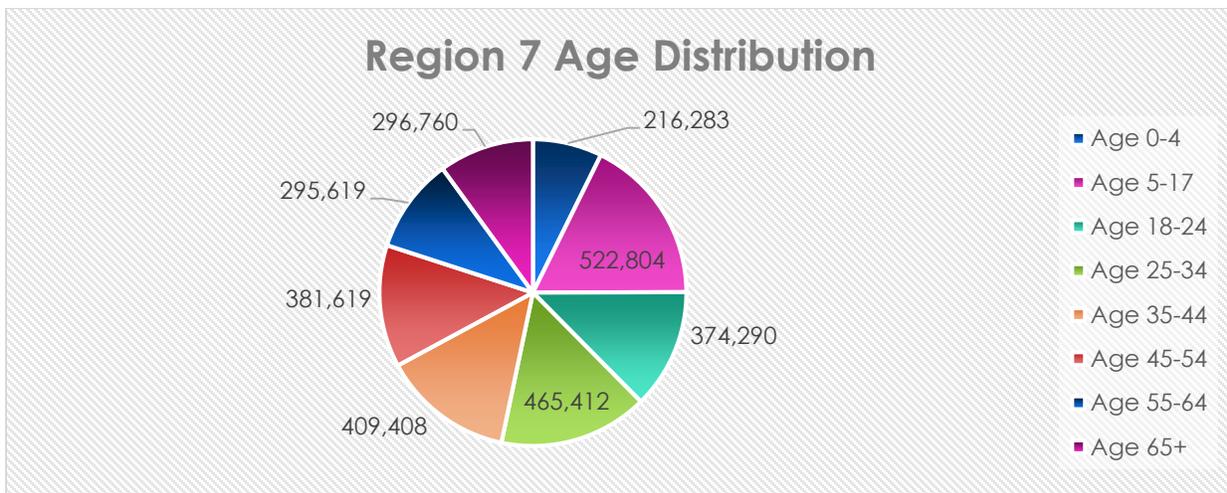
Population

The population for PRC7 in 2012 was 2,962,195 with a population density of 115.98. While PRC 7 has a total land area (square miles) of 25,540.27, the 2013 estimates for the region reflect a 118.48 population density with a 3,025,901 total population. The Texas 2012 population density was 96.53 while the United States had a population density of 87.55. For 2013, increases in population on land area for Texas rose to a population density of 98.17 and a population density of 88.23 for the United States.



Age

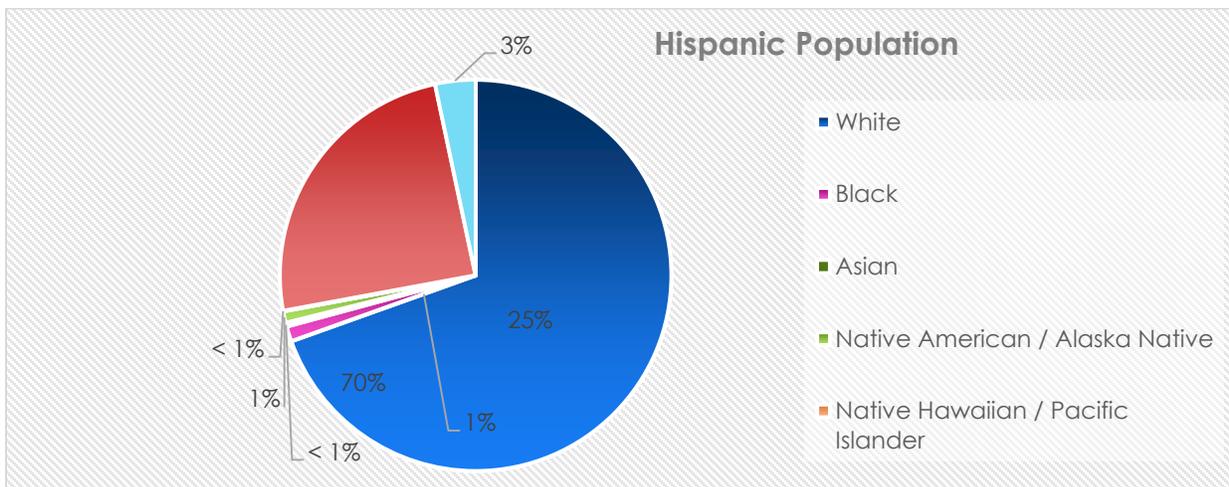
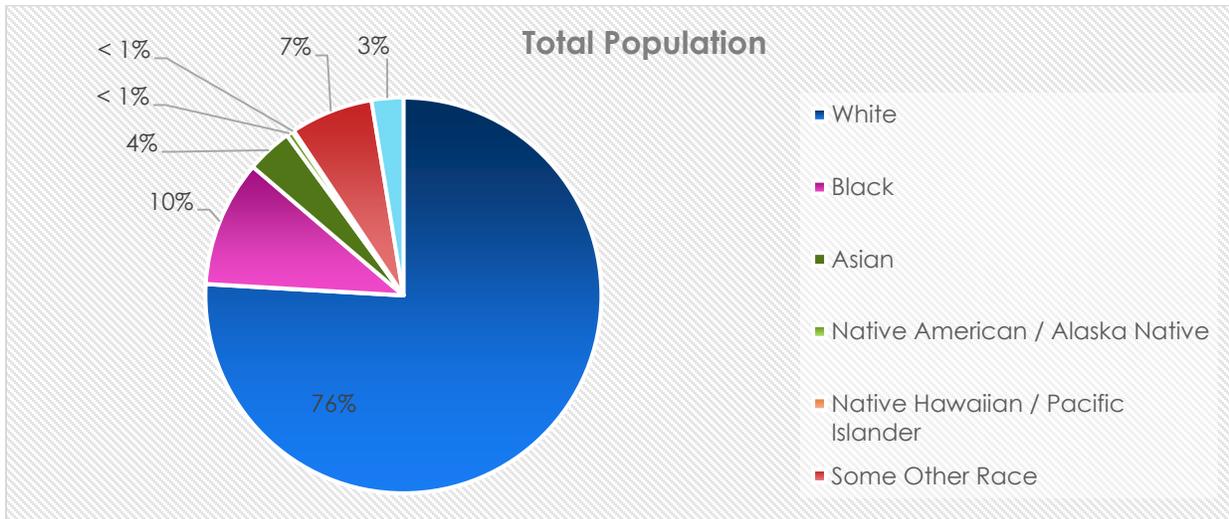
Most of the Texas population is in the age category of 5-17 years of age.



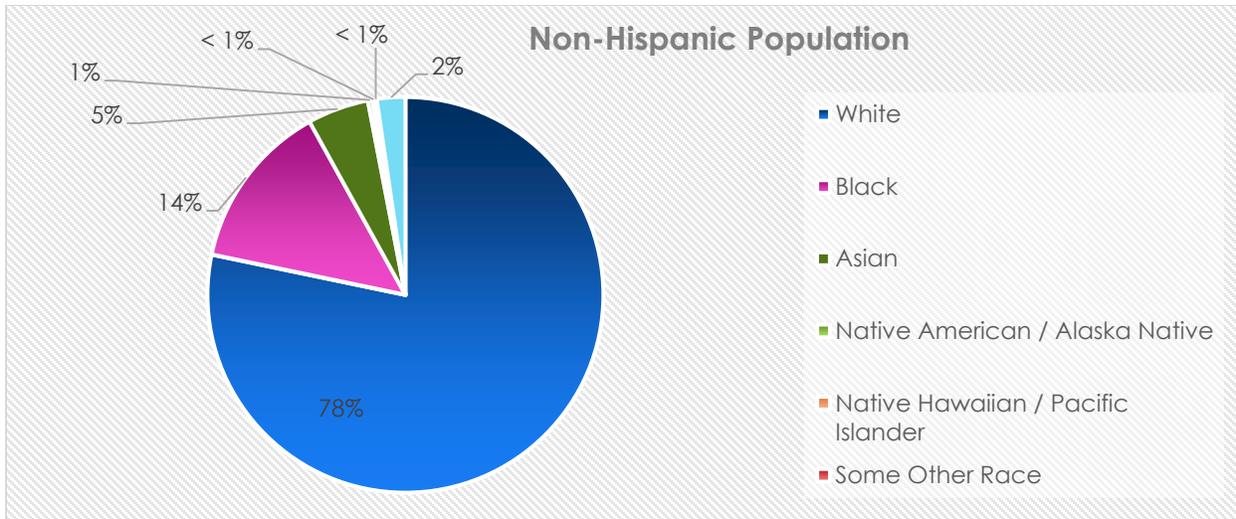
Source. US Census Bureau, American Community Survey: 2008-12.

Race

The total population in relation to race is graphically illustrated in three different pie charts. The first chart displays the total population in Region 7 and how they break into the seven race categories listed. The second chart shows the population percentage difference when the Hispanic population is taken from the total population. Then, the Hispanic population is assessed on how they see themselves in the listed race categories. The last pie chart provides a Non-Hispanic population amount.

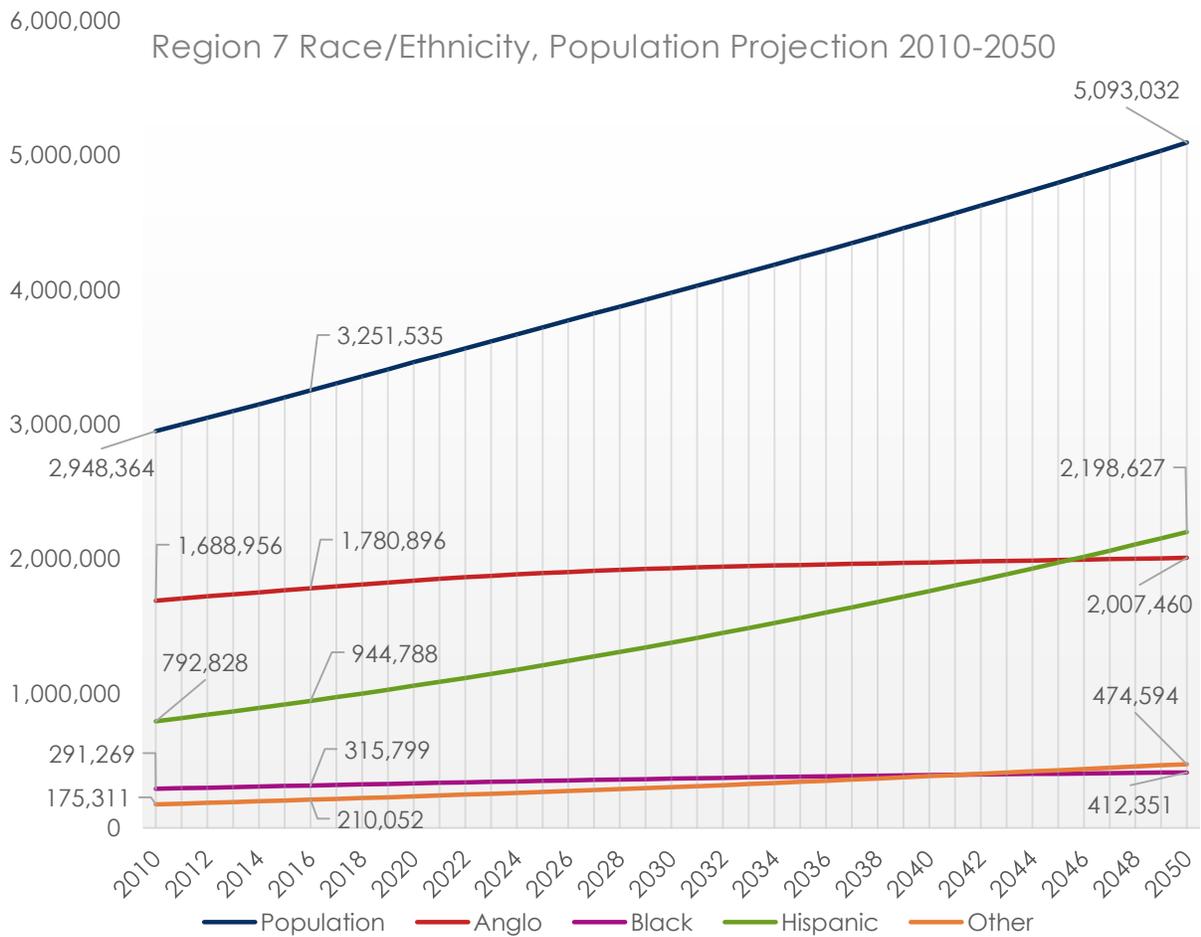


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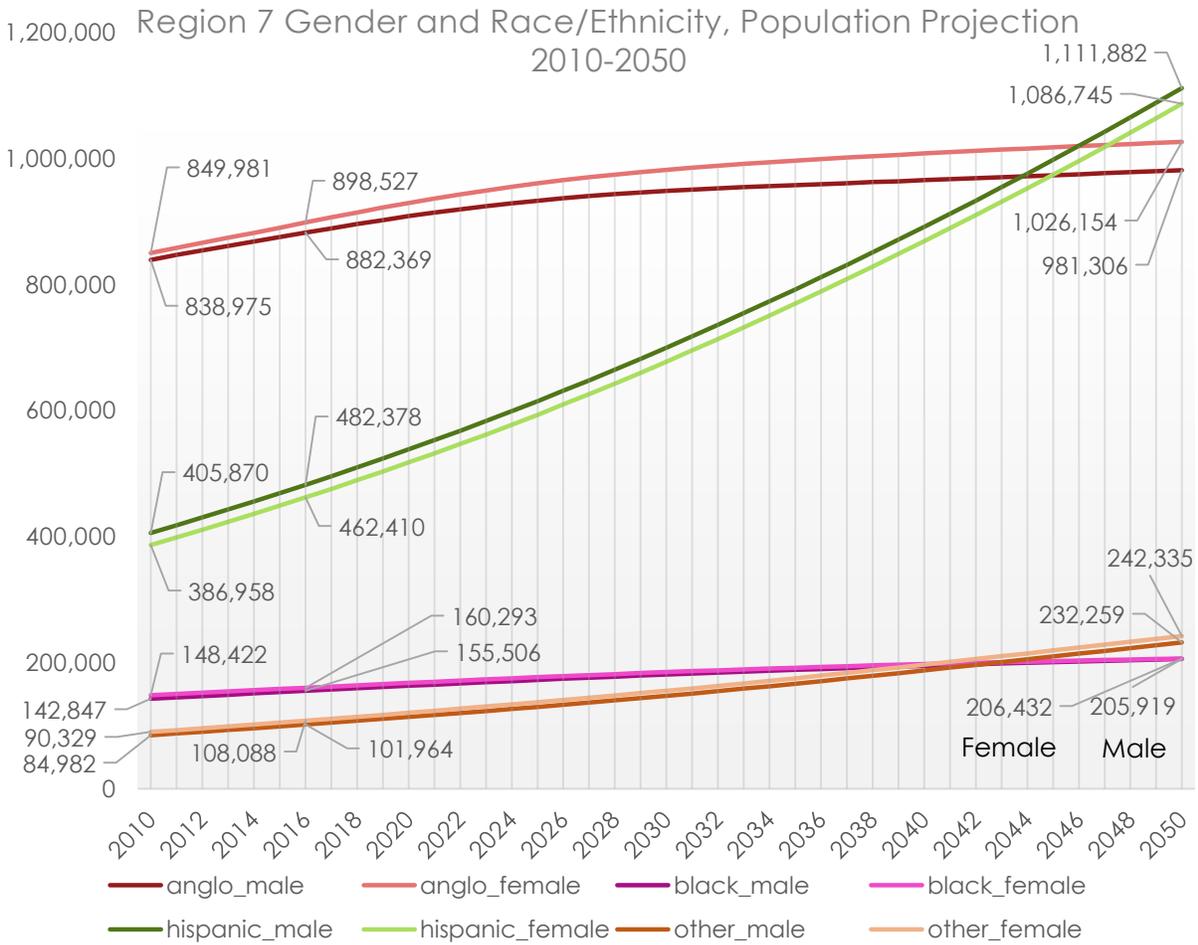


Ethnicity

Using the Texas State Data Center projections on population from 2010 to 2050, the next figures provides information on race/ethnicity and gender in Region 7.



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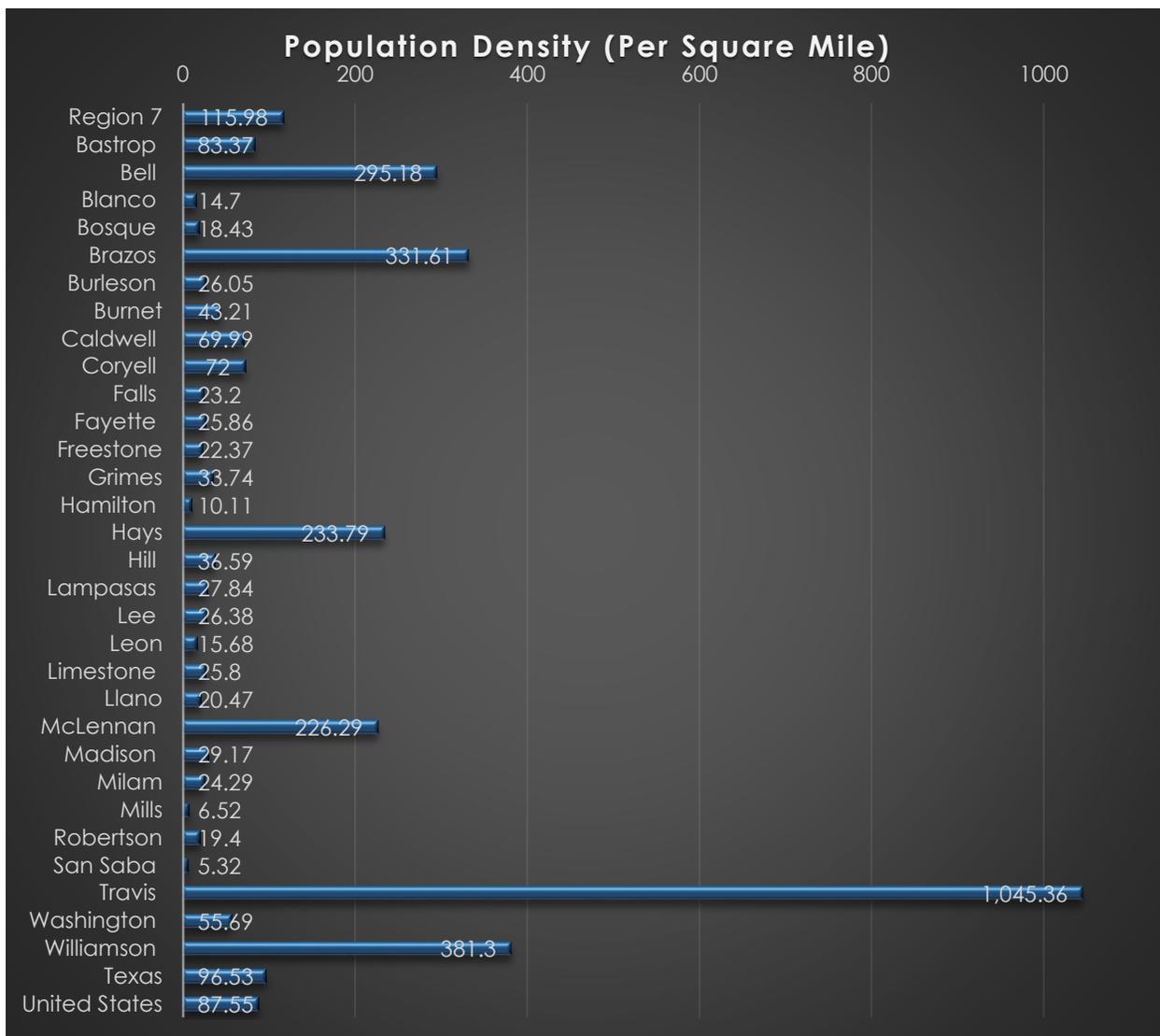


Languages

The rising population of English language learners (ELL) is also a concern in Central Texas because language can serve as a barrier to services. In this report, ELL population is tied to limited English proficient individuals. The inability to speak English can relate to barriers in healthcare access, provider communications, and health literacy or education. Results from the American Community Survey (2012) demonstrated that Region 7 had a population of 252,828 (9.21%) individuals whom were age 5 and older with limited English proficiency. Limited English proficiency was determined by individuals age 5 and older who speak a language other than English at home and responded that they speak English less than “very well.” The top three counties with the highest percentage of limited English proficient individuals were located in Travis (13.81%; $n=132,396$), Limestone (11.97%, $n=2,613$), and Bastrop (9.71%; $n=6,710$).

Concentrations of Populations

Population density (per square mile) among Region 7 counties vary. The counties with the highest population density include: Travis, Williamson, and Brazos. The figure below displays the population density values across the region.



The percentage of the population in-migration in Region 7, according to the American Community Survey (from 2011 estimates), was 10.37% (295,994 of 2,853,455). The population mobility (geographic) was assessed by changes in residence within a one year period, excluding individuals moving from one household to another in the same county. Only individuals leaving their county residence for another, from outside their state of residence, or from abroad were counted toward in-migration estimates. The three counties with the highest in-migration percentages in Region 7 were Coryell (16.79%, $n=12,505$), Brazos (15.25%, $n=29,157$), and Hays (13.56%, $n=21,252$).

General Socioeconomics

Lemstra et al. (2008) conducted a meta-analysis of marijuana and alcohol use in adolescents (aged 10-15) by socio-economic status (SES). They concluded that “lower SES adolescents have higher rates of marijuana and alcohol risk behavior than higher SES adolescents. Observing the implication of what Lemstra et al. (2008) described, poverty measures for Region 7 can help identify at-risk counties.

Average Wages by County

In the table below, we see higher employment in Bell and McLennan counties. Higher average weekly wages exist in Travis, Lee, and Leon Counties.

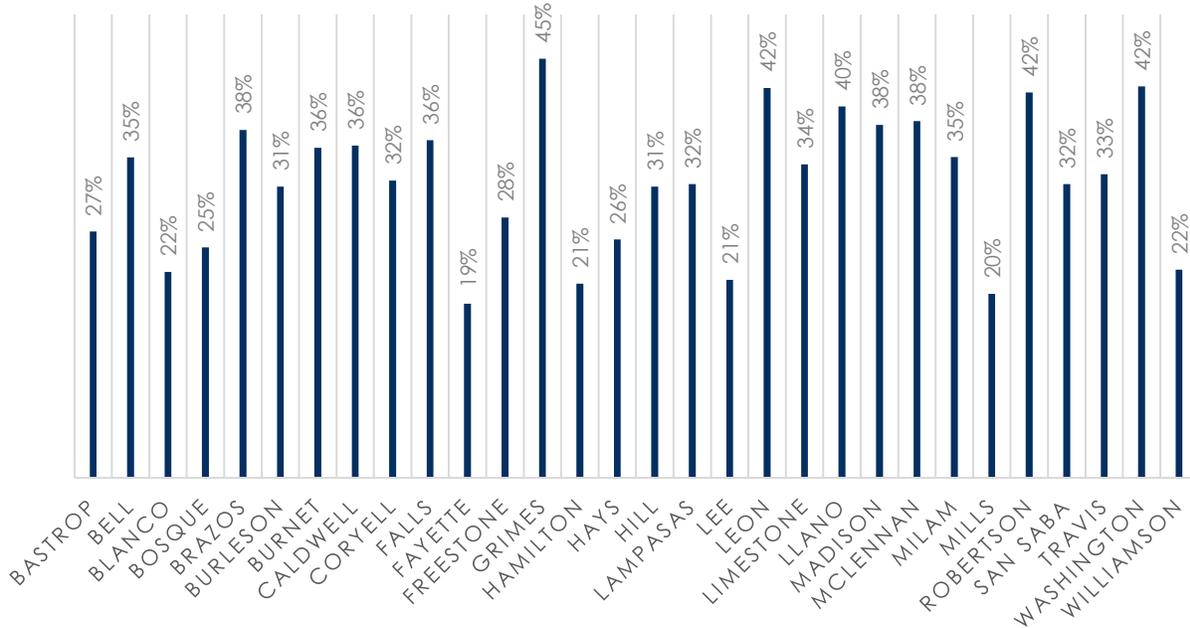
County	Employment	Total (Including Federal)	
		Wages	AWW
Bastrop	15,846	\$149,654,837	\$726.49
Bell	112,608	\$1,178,088,801	\$804.76
Blanco	2,965	\$32,299,760	\$838.07
Bosque	3,814	\$39,657,625	\$799.91
Brazos	99,371	\$997,572,171	\$772.22
Burleson	4,253	\$47,235,133	\$854.40
Burnet	13,508	\$143,485,472	\$817.12
Caldwell	8,211	\$79,895,823	\$748.49
Coryell	14,968	\$123,265,183	\$633.49
Falls	3,031	\$27,836,754	\$706.54
Fayette	9,551	\$104,168,979	\$838.94
Freestone	5,915	\$70,614,150	\$918.32
Grimes	8,535	\$109,889,603	\$990.36
Hamilton	2,578	\$22,132,664	\$660.40
Hays	59,884	\$571,312,900	\$733.87
Hill	9,634	\$96,497,763	\$770.49
Lampasas	4,572	\$37,843,917	\$636.76
Lee	7,269	\$98,523,549	\$1,042.61
Leon	5,776	\$77,336,746	\$1,029.95
Limestone	8,563	\$80,231,741	\$720.71
Llano	4,363	\$38,091,090	\$671.63
Madison	5,007	\$44,090,116	\$677.36
McLennan	106,148	\$1,148,710,874	\$832.44
Milam	5,677	\$66,689,349	\$903.69
Mills	1,361	\$11,113,103	\$627.95
Robertson	3,947	\$46,296,292	\$902.34
San Saba	1,613	\$12,938,080	\$617.01
Travis	667,437	\$10,152,693,762	\$1,170.11
Washington	15,392	\$157,642,397	\$787.83
Williamson	147,604	\$1,843,042,197	\$960.49

Source. Quarterly Census of Employment and Wages. AWW=Average Weekly Wage

Household Composition

More single-parent households with children exist in Grimes (45%), Leon (42%), Robertson (42%), and Washington (42%) Counties, as displayed in the preceding figure.

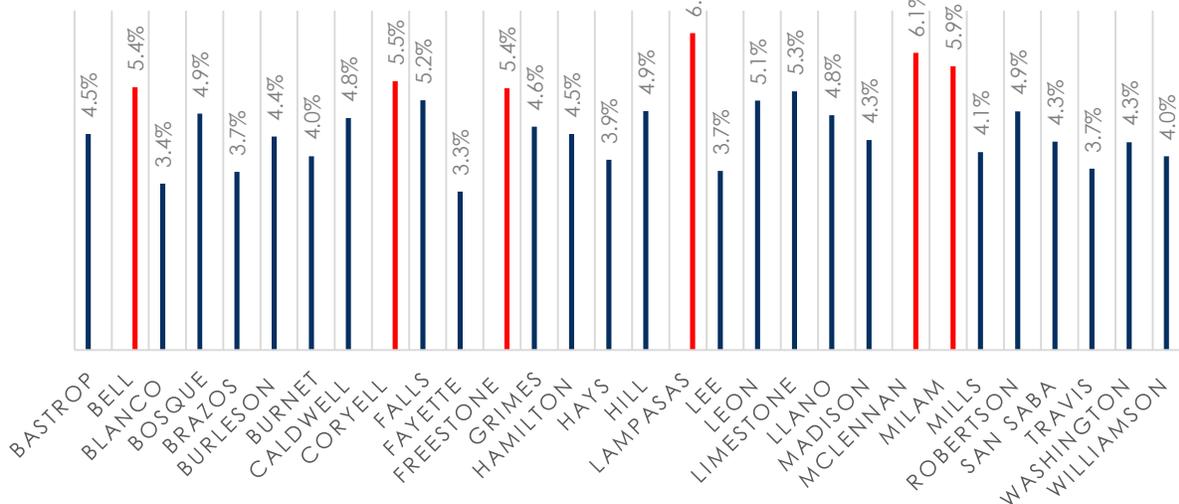
PERCENT OF CHILDREN IN SINGLE-PARENT HOUSEHOLDS



Employment Rates

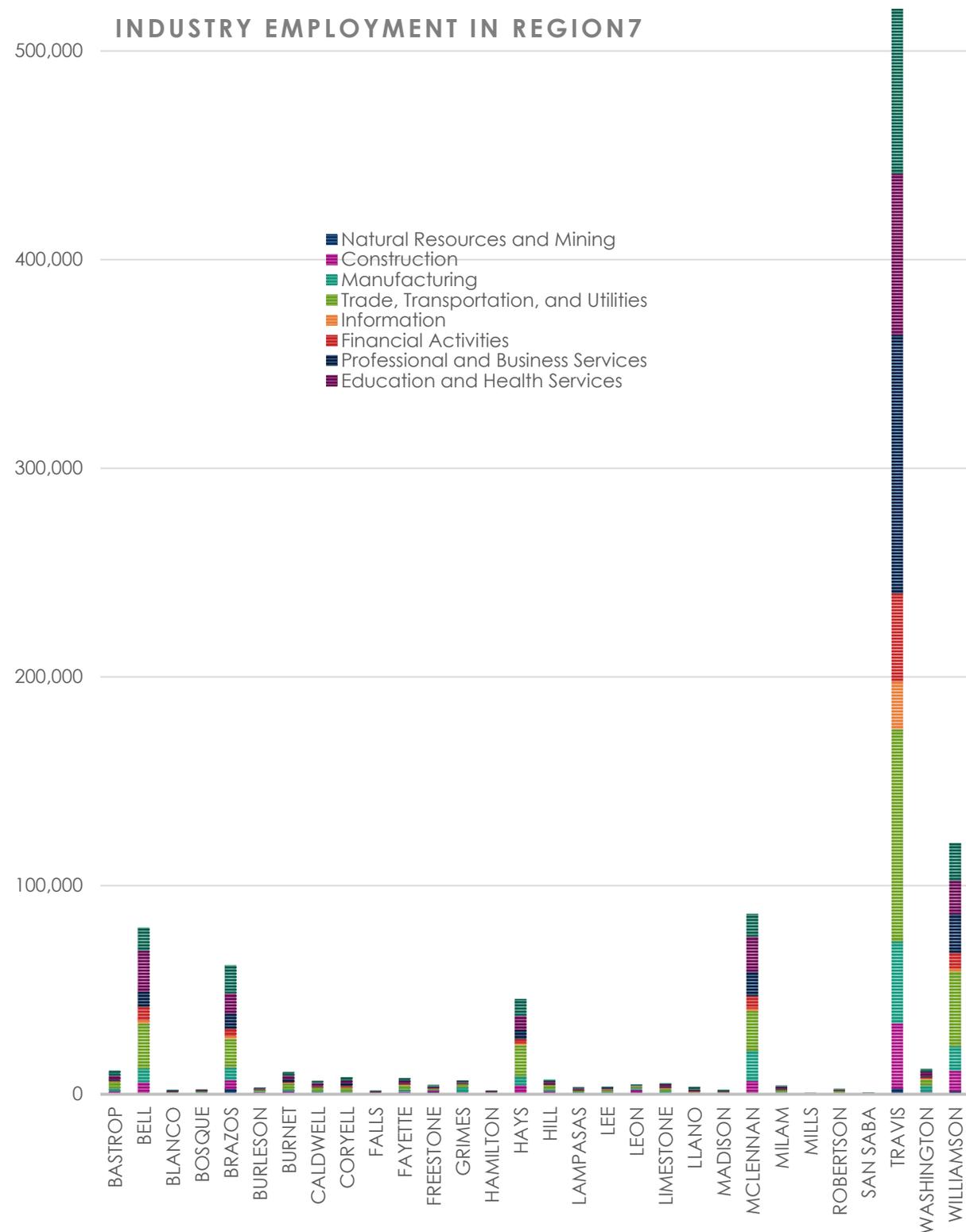
In Region 7, between March 2014 and April 2015, the labor force consisted of 21,059,936 individuals. Of the Region 7 labor force, 20,193,161 individuals were employed. At the same time, the number of individuals unemployed was 866,775. As a result, the unemployment rate in Region 7 was 4.1%, which was lower than the State (4.8%) and the nation (5.4%). In the figure below counties in red are those equal or greater than the nation’s unemployment rate.

UNEMPLOYMENT RATE, MARCH 2014-APRIL 2015



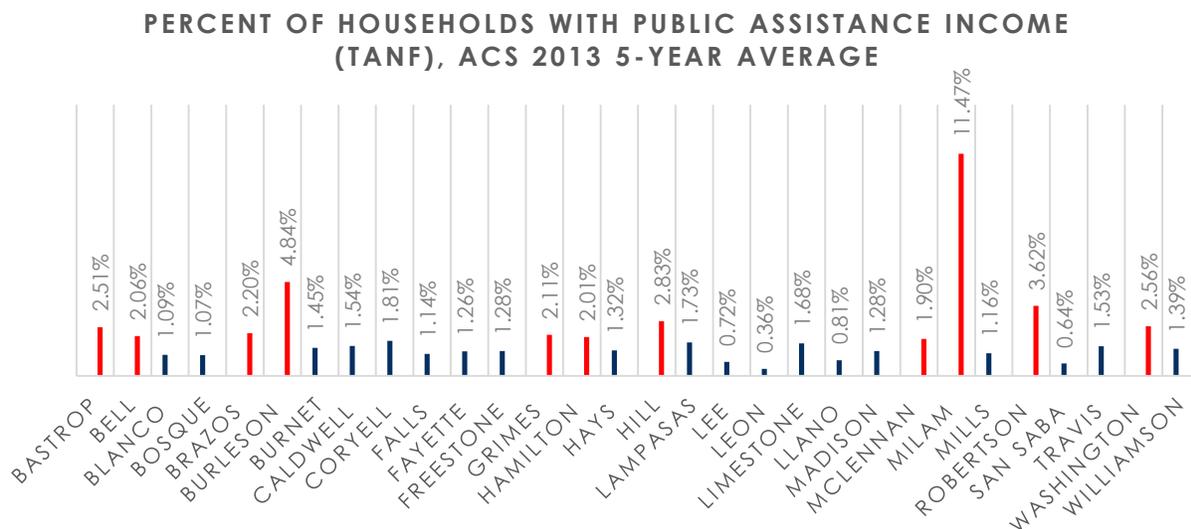
Industry

The combined growth of industries is highest among Travis and Williamson Counties, as observed in the preceding figure.



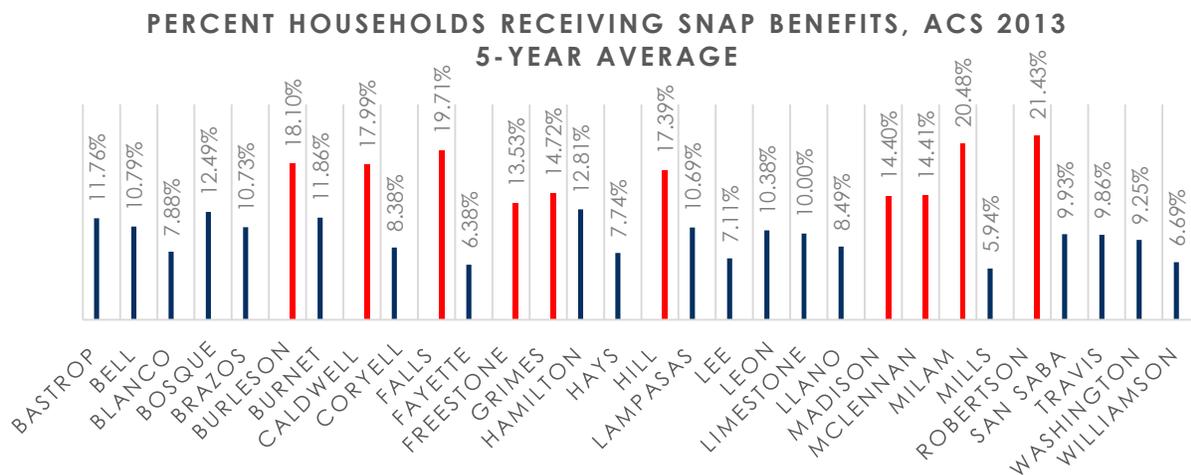
TANF Recipients

In Region 7, there were 1,093,074 total households recorded from the American Community Survey (2013, 5-year average). Of the total households, 19,341 were households with public assistance income. The 5-year average percent of households with public assistance income in Region 7, as a result, is 1.77%. Region 7 has a lower percent of households with public assistance income compared to the State (1.84%) and the nation (2.82%). In the figure below counties in red illustrate percentages above the State average.



Food Stamp Recipients

In Region 7, there were 1,093,074 total households recorded from the American Community Survey (2013, 5-year average). Of the total households, 112,705 were households receiving Supplemental Nutrition Assistance Program (SNAP) benefits. The 5-year average percent of households receiving SNAP benefits in Region 7, as a result, is 10.31%. Region 7 has a lower percent of households receiving SNAP benefits compared to the State (13.20%) and the nation (12.40%). In the figure below counties in red illustrate percentages above the State average.

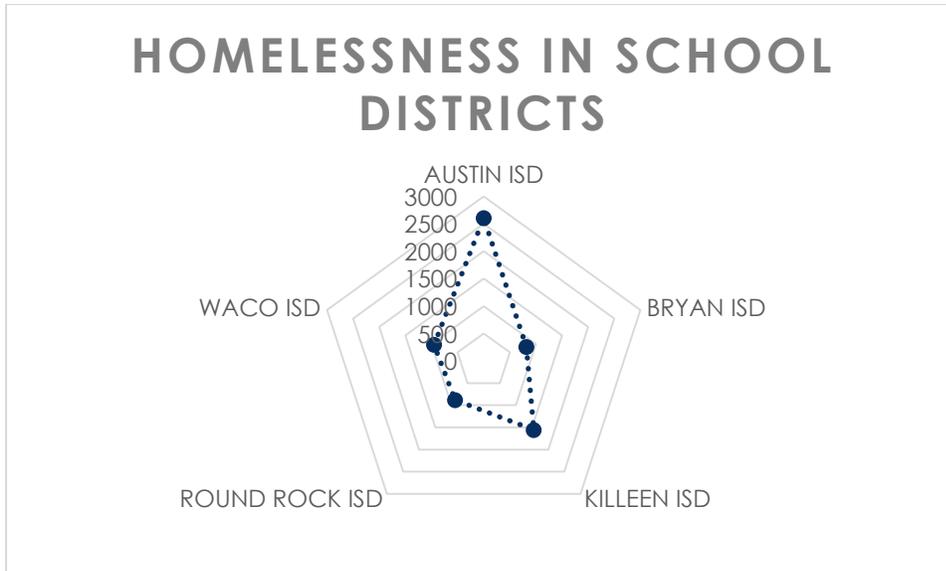


Free School Lunch Recipients

Region 7 had a 53% student population that qualified for total free and reduced lunch during the 2011-12 school year. The counties with the most students qualifying for total free and reduced lunch are Falls (77.3%, 1904 students), Madison (71%, 1851 students), and Bastrop (68.8%, 9175 students).

Homeless Students

In the school year 2014-2015 Texas had around 112,489 kids identify as homeless about 13,459 of those kids were in Region 7. The school districts with the most homeless kids were Austin ISD, Waco ISD, Killeen ISD, Bryan ISD, and Round Rock ISD (see figure below).



Environmental Risk Factors

Education

Courtesy of CommunityCommons.org – Educational Attainment shows the distribution of educational attainment levels in Region 7. Educational attainment is calculated for persons over 25, and is an average for the period from 2009 to 2013. In the Table below, Falls County has the highest percent of individuals without a high school diploma, followed by Robertson and Burleson counties.

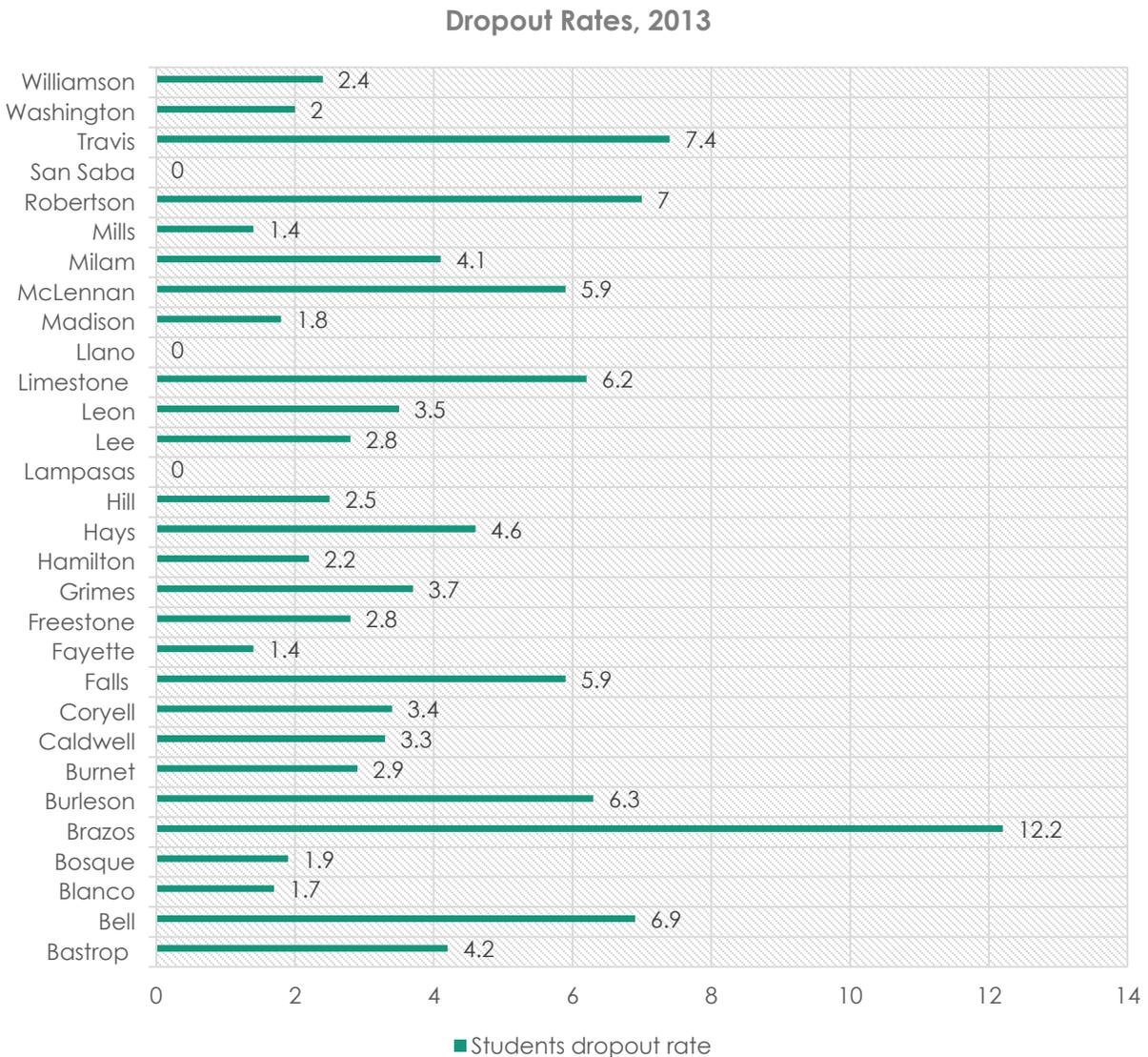
Report Area	Percent No High School Diploma	Percent High School Only	Percent Some College	Percent Associates Degree	Percent Bachelor's Degree	Percent Graduate or Professional Degree
Region 7	13.5	23.6	22.9	7.0	21.6	11.4
Bastrop	19.6	32.2	24.7	7.3	11.3	4.9
Bell	10.5	29.6	28.2	10.1	14.2	7.4
Blanco	13.0	30.6	25.2	4.4	18.7	8.0
Bosque	18.0	34.2	26.5	5.9	10.7	4.8
Brazos	15.0	20.9	20.2	5.2	20.9	17.9
Burleson	22.3	38.0	24.2	3.9	8.2	3.4

2016 Regional Needs Assessment

Burnet	15.8	31.6	25.4	5.3	15.1	6.9
Caldwell	21.0	37.6	20.1	5.6	11.5	4.2
Coryell	12.5	31.7	30.7	9.9	10.1	5.1
Falls	25.6	38.2	21.4	4.0	7.3	3.5
Fayette	19.9	36.6	21.1	5.7	12.7	4.1
Freestone	21.2	34.5	25.2	7.4	8.6	3.1
Grimes	21.5	37.3	23.5	6.6	7.4	3.7
Hamilton	18.3	34.5	23.7	5.8	13.3	4.5
Hays	10.7	21.4	24.3	6.9	25.8	10.9
Hill	21.3	30.7	25.3	7.9	10.4	4.4
Lampasas	14.0	28.0	29.1	9.1	13.0	6.8
Lee	18.4	37.4	21.8	6.7	10.8	5.0
Leon	17.1	35.6	27.3	5.2	10.3	4.5
Limestone	20.7	37.7	22.4	6.8	9.2	3.2
Llano	13.3	26.7	28.0	6.6	18.2	7.2
McLennan	17.7	28.3	23.0	9.4	14.3	7.5
Madison	21.3	37.9	22.3	6.1	9.3	3.2
Milam	18.8	39.5	21.5	5.8	10.5	3.9
Mills	18.5	30.1	22.5	7.0	15.3	6.7
Robertson	23.7	37.2	20.1	3.2	11.2	4.6
San Saba	19.0	36.0	28.1	3.8	10.2	2.9
Travis	13.0	16.9	19.6	5.6	28.6	16.3
Washington	19.1	29.3	19.8	8.3	17.3	6.2
Williamson	8.01	20.6	25.2	8.2	26.4	11.6
Texas	18.8	25.3	22.7	6.5	17.7	8.9
United States	14.0	28.1	21.3	7.8	18.1	10.8
Source. US Census Bureau, American Community Survey. 2009-13.						

Dropout Rates

From the figure below, Brazos County had the highest dropout rate in 2013, followed by Travis and Bell Counties. San Saba, Llano, and Lampasas Counties had a zero dropout rate.



Youth Suspensions/Expulsions

Related to youth suspensions, data from the Texas Education Agency (TEA) on discipline rates per 1,000 student population by county is provided. From the Table below, there are higher student discipline rates in Burleson (301.3), Caldwell (294.0), and Grimes (292.9) Counties. As for incident rates, the counties with the highest rates were Caldwell (834.1), Burleson (790.8), and Bell (674.9) Counties.

County	Student Pop. 2013-14	Students Disciplined	No. of Incidents	Student Discipline Rate	Incident Rate
Bastrop	15373	3827	8034	248.9	522.6
Bell	67774	17696	45743	261.1	674.9

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Blanco	1670	231	428	138.3	256.3
Bosque	2926	186	339	63.6	115.9
Brazos	27961	5466	13337	195.5	477.0
Burleson	2834	854	2241	301.3	790.8
Burnet	7240	1279	2773	176.7	383.0
Caldwell	6578	1934	5487	294.0	834.1
Coryell	11807	1999	4159	169.3	352.2
Falls	2353	563	1079	239.3	458.6
Fayette	3670	543	1173	148.0	319.6
Freestone	3638	361	527	99.2	144.9
Grimes	4339	1271	2847	292.9	656.1
Hamilton	1320	165	309	125.0	234.1
Hays	31118	4769	9477	153.3	304.6
Hill	6494	1164	2127	179.2	327.5
Lampasas	3705	791	1536	213.5	414.6
Lee	2994	541	1050	180.7	350.7
Leon	3049	326	603	106.9	197.8
Limestone	4101	924	1886	225.3	459.9
Llano	1829	441	1022	241.1	558.8
Madison	2588	488	907	188.6	350.5
McLennan	46328	11910	29446	257.1	635.6
Milam	4576	609	1038	133.1	226.8
Mills	845	70	205	82.8	242.6
Robertson	3225	464	772	143.9	239.4
San Saba	978	49	79	50.1	80.8
Travis	156082	23579	48986	151.1	313.8
Washington	5308	1023	2354	192.7	443.5
Williamson	105947	10398	20268	98.1	191.3

Of the TEA discipline rates related to alcohol and drugs, the following counties had the highest drugs/alcohol student rates: Lampasas (27.3), Bastrop (23.0), and Llano (22.4). Additionally, the same three counties have the three highest drugs/alcohol incident rate. Llano had a 40.5 drugs/alcohol incident rate, while Lampasas and Bastrop each had 28.6 and 24.2 drugs/alcohol incident rates.

County	Drugs/Alcohol - Students	Drugs/Alcohol - Incidents	Drugs/Alcohol Student Rate	Drugs/Alcohol Incident Rate
Bastrop	354	372	23.0	24.2
Bell	577	642	8.5	9.5
Blanco	14	16	8.4	9.6
Bosque	0	6	0.0	2.1
Brazos	368	431	13.2	15.4
Burleson	0	0	0.0	0.0
Burnet	108	127	14.9	17.5
Caldwell	87	129	13.2	19.6
Coryell	89	109	7.5	9.2
Falls	0	0	0.0	0.0
Fayette	7	7	1.9	1.9
Freestone	18	19	4.9	5.2
Grimes	10	39	2.3	9.0

Hamilton	0	0	0.0	0.0
Hays	418	449	13.4	14.4
Hill	33	39	5.1	6.0
Lampasas	101	106	27.3	28.6
Lee	15	19	5.0	6.3
Leon	7	10	2.3	3.3
Limestone	12	12	2.9	2.9
Llano	41	74	22.4	40.5
Madison	20	20	7.7	7.7
McLennan	389	481	8.4	10.4
Milam	28	29	6.1	6.3
Mills	0	0	0.0	0.0
Robertson	6	6	1.9	1.9
San Saba	0	0	0.0	0.0
Travis	2193	2478	14.1	15.9
Washington	16	16	3.0	3.0
Williamson	1071	1228	10.1	11.6

Criminal Activity

Property Crime

The table below displays the amount of offenses and arrests known to law enforcement from 2015 as well as the number of property crime dispositions in 2015. All arrest and offense numbers were acquired from the sheriff's office and all case disposition numbers were acquired from the Texas office of court administration's court activity reporting and directory system.

County	Property Crime Offenses	Property Crime Arrests	Dispositions
BASTROP	1579	273	1814
BELL	9312	1474	8506
BLANCO	104	22	50
BOSQUE	105	28	451
BRAZOS	5841	1170	5206
BURLESON	197	87	1532
BURNET	647	154	878
CALDWELL	679	123	1530
CORYELL	1265	371	2824
FALLS	169	29	448
FAYETTE	321	68	558
FREESTONE	200	31	836
GRIMES	463	94	529
HAMILTON	130	39	102
HAYS	3637	1048	4516
HILL	738	136	1745
LAMPASAS	350	70	440
LEE	226	56	689
LEON	255	8	1158
LIMESTONE	595	177	1098

2016 Regional Needs Assessment

LLANO	244	30	600
MADISON	285	28	102
MCLENNAN	7619	2278	9018
MILAM	524	96	656
MILLS	40	5	380
ROBERTSON	246	74	438
SAN SABA	36	5	29
TRAVIS	41326	4730	43703
WASHINGTON	534	200	1151
WILLIAMSON	6307	1360	9769
Region 7	83974	14264	100756

Domestic/Child Abuse

The value for confirmed victims of child abuse/neglect per 1,000 children was highest in San Saba (38.8), Llano (26.1), and Falls (19.9). Looking at the ratio between total CPS completed investigations and confirmed CPS investigations, the counties with the highest percent were Blanco (42.2%), San Saba (37.9%), and Milam (32.0%).

County	Child Population	Confirmed Victims of Child Abuse/Neglect	Confirmed Victims of Child Abuse/Neglect per 1,000 Children	Total CPS Completed Investigations	Confirmed CPS Investigations	Percent Investigations Confirmed
Bastrop	21,379	291	13.6	668	176	26.3%
Bell	98,721	1,046	10.6	3,160	664	21.0%
Blanco	2,278	29	12.7	45	19	42.2%
Bosque	4,089	55	13.5	141	35	24.8%
Brazos	47,729	308	6.5	976	195	20.0%
Burleson	4,140	70	16.9	167	40	24.0%
Burnet	10,299	172	16.7	409	113	27.6%
Caldwell	10,317	122	11.8	335	83	24.8%
Coryell	22,926	259	11.3	681	162	23.8%
Falls	3,876	77	19.9	129	26	20.2%
Fayette	5,417	38	7.0	123	27	22.0%
Freestone	4,646	39	8.4	135	21	15.6%
Grimes	6,105	81	13.3	171	48	28.1%
Hamilton	1,789	14	7.8	59	11	18.6%
Hays	47,624	378	7.9	938	227	24.2%
Hill	8,734	133	15.2	278	85	30.6%
Lampasas	4,923	92	18.7	181	47	26.0%
Lee	4,076	46	11.3	116	28	24.1%
Leon	3,867	48	12.4	119	29	24.4%
Limestone	5,653	81	14.3	193	51	26.4%
Llano	3,144	82	26.1	186	53	28.5%
Madison	3,082	22	7.1	88	15	17.0%

2016 Regional Needs Assessment

McLennan	61,080	884	14.5	2,055	548	26.7%
Milam	6,366	95	14.9	197	63	32.0%
Mills	1,153	9	7.8	41	7	17.1%
Robertson	4,243	24	5.7	99	17	17.2%
San Saba	1,212	47	38.8	58	22	37.9%
Travis	274,241	2,157	7.9	7,151	1,434	20.1%
Washington	7,696	79	10.3	183	49	26.8%
Williamson	137,516	731	5.3	2,241	457	20.4%
STATEWIDE	7,266,760	66,572	9.2	168,164	40,369	24.0%

Violent Crime and Sexual Assault

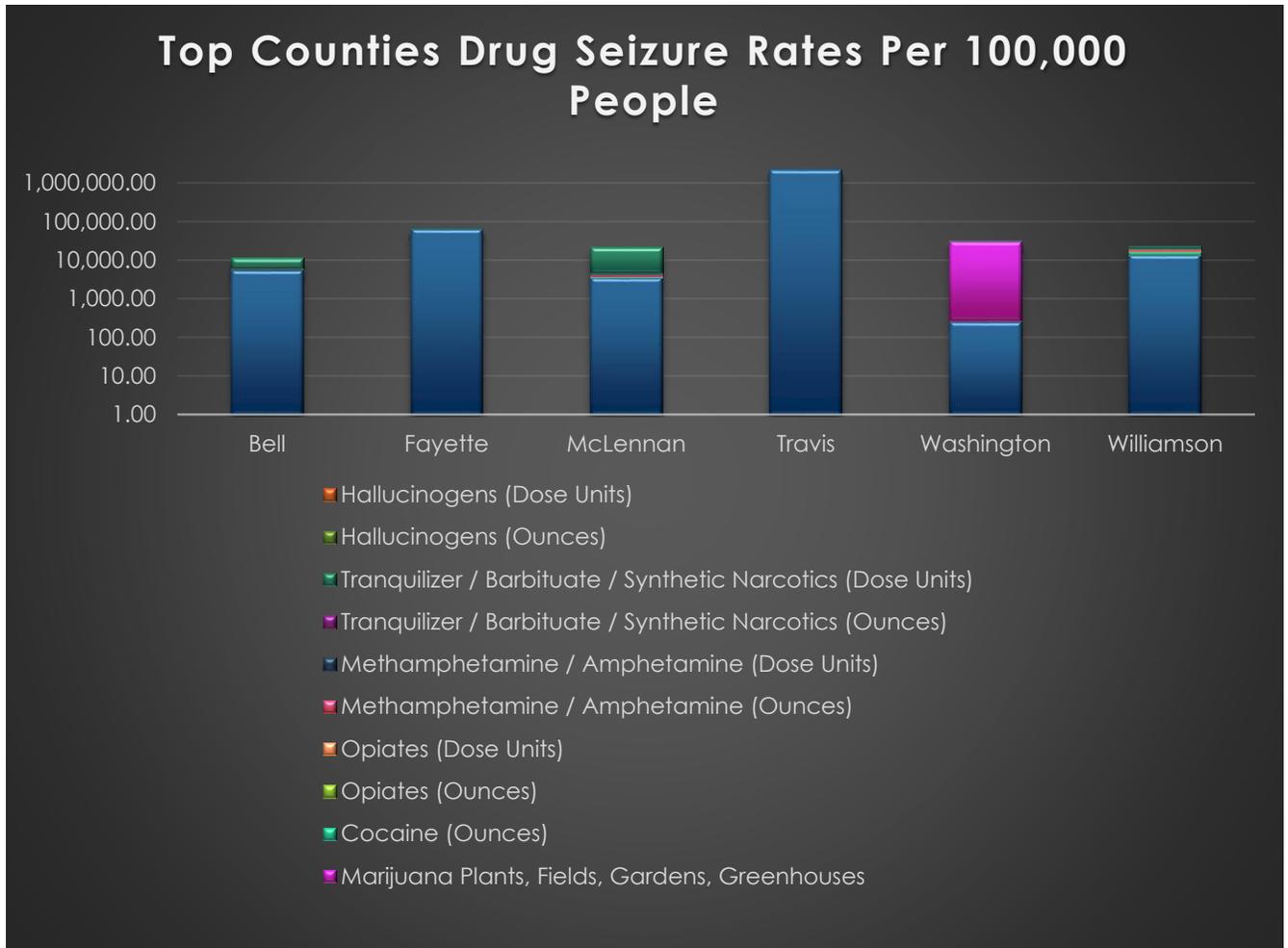
The table below displays the amount of offenses and arrests known to law enforcement from 2015 as well as the number of violent crime dispositions in 2015.

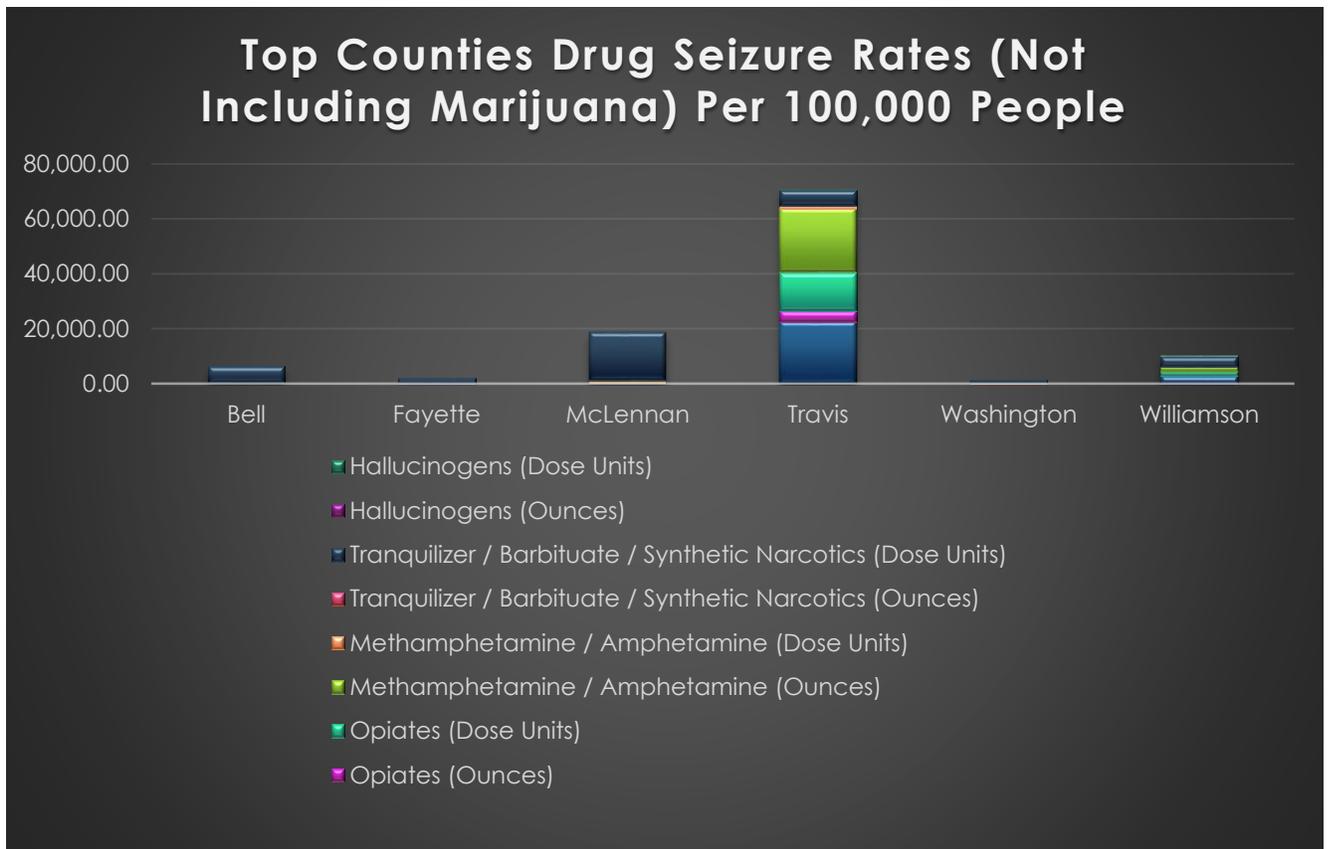
County	Violent Crime Offenses	Violent Crime Arrests	Violent & Sexual Crime Dispositions
BASTROP	272	77	1014
BELL	1254	195	9307
BLANCO	9	10	50
BOSQUE	9	10	259
BRAZOS	692	270	2904
BURLESON	37	26	224
BURNET	104	29	490
CALDWELL	89	31	1428
CORYELL	152	75	1445
FALLS	34	19	343
FAYETTE	58	27	461
FREESTONE	24	13	376
GRIMES	90	40	246
HAMILTON	9	37	92
HAYS	460	166	3275
HILL	78	58	986
LAMPASAS	25	7	370
LEE	38	15	553
LEON	17	18	382
LIMESTONE	79	46	521
LLANO	14	26	346
MADISON	40	27	80
MCLENNAN	1034	482	5142
MILAM	53	32	478
MILLS	0	0	310
ROBERTSON	31	23	213
SAN SABA	5	5	52
TRAVIS	4314	1417	34009
WASHINGTON	86	33	459
WILLIAMSON	611	223	6401
Region 7	9718	3437	72216

Drug Seizures/Trafficking

Among the 30 counties in Region 7 the table below is the summation of drug seizures (2014) in Region 7. The counties that had the highest rates of drug seized to general population were Bell, Fayette, McLennan, Travis, Washington, and Williamson are graphed in the figure below (Excluding ounces of marijuana seized in Travis county which was .

Description	Ounces (Per 100,000 People)	Dose Units (Per 100,000 People)
Marijuana / Hashish (Ounces)	1363819	N/A
Marijuana Plants, Fields, Gardens, Greenhouses	19789	N/A
Cocaine	15934.4	N/A
Opiates	2612.32	9827
Methamphetamine / Amphetamine	15768.2	1391
Tranquilizer / Barbituate / Synthetic Narcotics	95	26228
Hallucinogens	674.723	4613
<i>Note.</i> Contact the PRC 7 for specific county level data from the Texas DPS drug seizures (2014).		

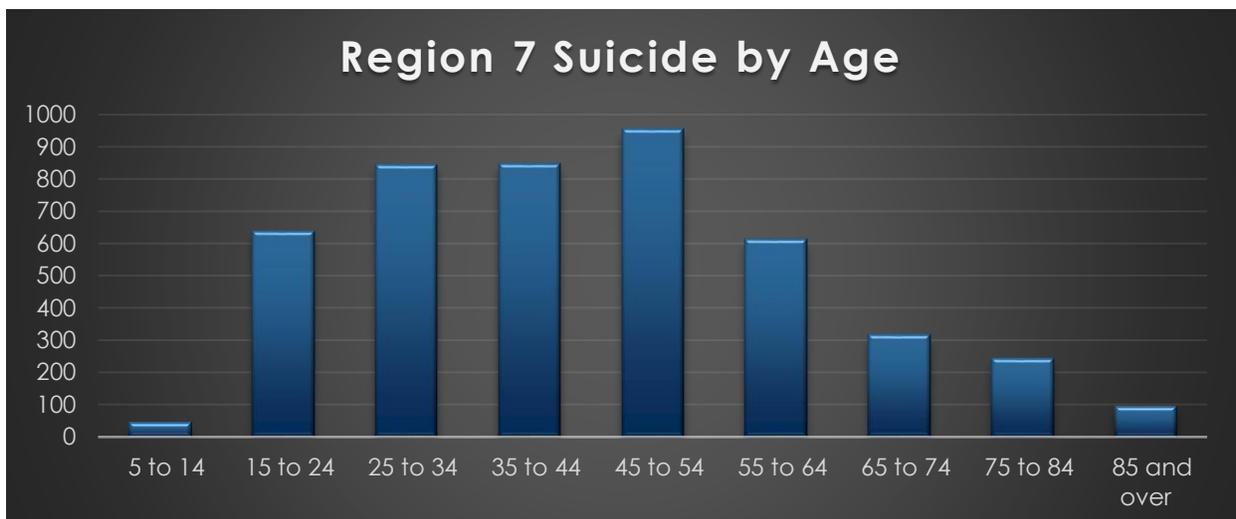


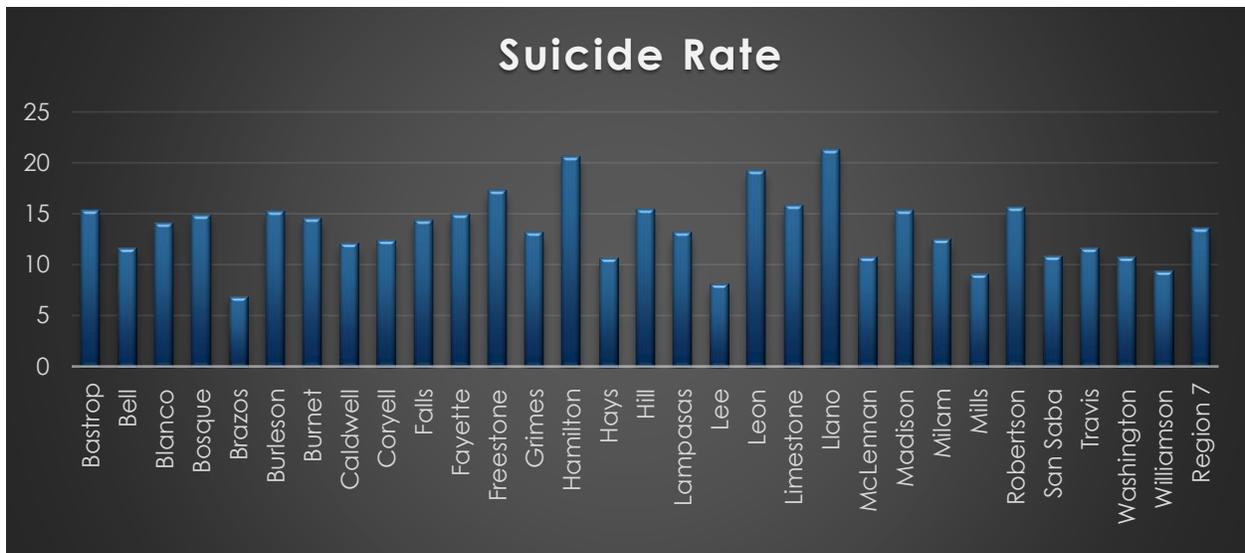


Mental Health

Suicide

In 2011, the death of 291 individuals by suicide occurred in Region 7. The ages that saw the most suicides were adults between 25 and 54 with the highest rates of suicide in adults aged 75 and older. The total number of suicide numbers illustrated below are from counties having 10 or more suicide cases between 1999 and 2013 was 4604 suicides with a rate of about 13.6.



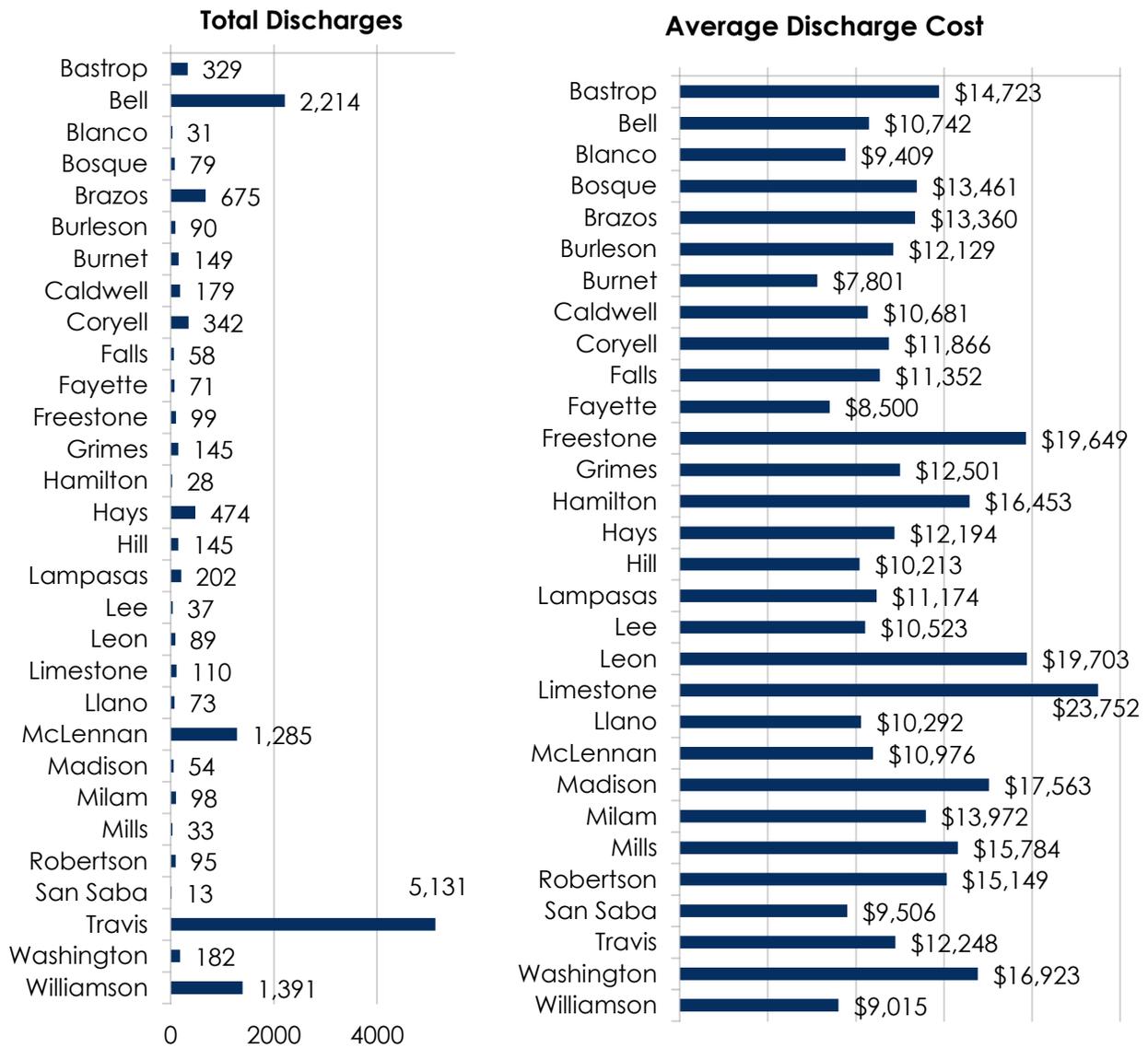


Supportive data from the Centers for Disease Control and Prevention, National Vital Statistics System: 2006-10 also reports similar results. For a population of 2,820,031, the average annual deaths from 2006 -2010 was 312 in Region 7. Additionally, the age-adjusted (adjusted to 2000 estimates) death rate for suicide (per 100,000 population) for Region 7 was 11.78. In comparison, Texas had a 10.99 rate while the U.S. was calculated to have a death rate at 11.57. The Healthy People 2020 Target seeks to observe suicide death rates below 10.20. Unfortunately, suicide death rates in Region 7 from 2006-10 and the most recent 2007-11 does not reflect any indication of dropping to the Healthy People 2020 Target suicide rate goal, especially with increasing suicide numbers reported annually.

Psychiatric Hospital Admissions

Data is showing in Region 7 there are a total of 13,901 hospital discharges, which have a total cost of \$391,614 and had an average rate per 1,000 at 4.38 (TX rate=4.5; U.S. rate = 4.8). Among the 30 counties in Region 7.

2016 Regional Needs Assessment



Reported Regional Psychiatric Hospital Discharges Rate per 1,000					
Bastrop	4.2	Fayette	2.8	Llano	3.7
Bell	6.8	Freestone	4.9	McLennan	5.4
Blanco	2.8	Grimes	5.3	Madison	3.9
Bosque	4.3	Hamilton	3.2	Milam	3.9
Brazos	3.3	Hays	2.8	Mills	6.7
Burleson	5.2	Hill	4.0	Robertson	5.6

2016 Regional Needs Assessment

Burnet	3.3	Lampasas	9.8	San Saba	2.1
Caldwell	4.5	Lee	2.2	Travis	4.8
Coryell	4.6	Leon	5.1	Washington	5.3
Falls	3.3	Limestone	4.6	Williamson	3.0
<i>Source.</i> MONARHQ 2012					

Substance abuse related disorder discharge, from MONARHQ, for Region 7 totaled 177 discharges with a mean cost of \$33,082 (Discharge per 1,000 rate = 0.06). The top three counties are listed in the table below.

Substance Related Disorder Discharges (Rate per 1,000)			
County	No. of Discharges	Rate of Discharge	Mean Costs
Travis	78	0.1	\$39,779
Bell	28	0.1	\$15,334
Williamson	26	0.1	\$37,400
<i>Source.</i> MONARHQ 2012			

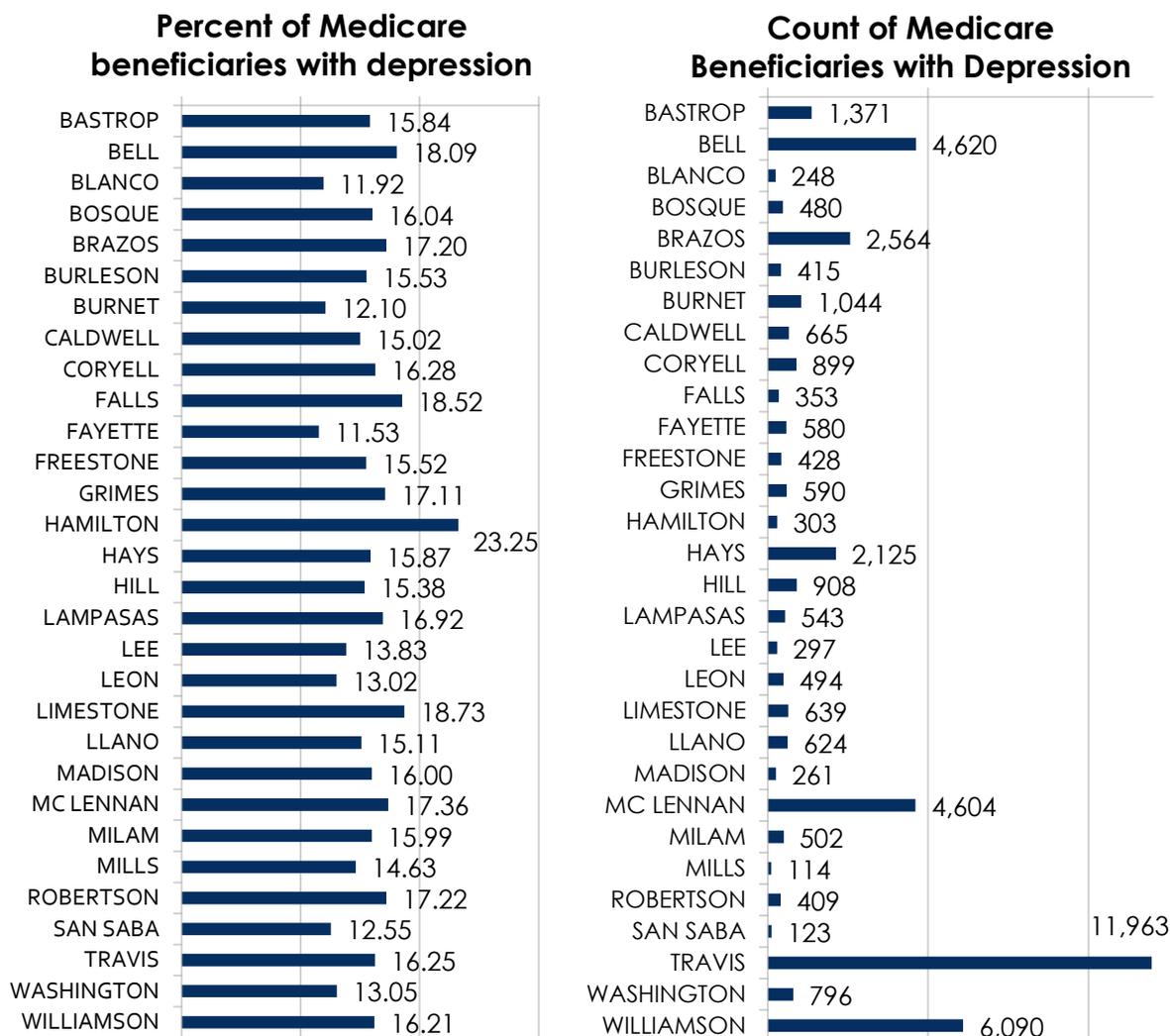
Adolescents Receiving SA Treatment

In Region 7, there were 472 substance abuse youth admissions recorded by DSHS (2014). These admissions represented 9.6% of total youth admissions. In the table below are totals for youth admissions that were more than 10 in total per county.

Substance Abuse Youth Admissions		
County	Marijuana/Hashish	Alcohol
Hays	19 (90.5%)	
McLennan	59 (92.2%)	
Travis	281 (91.8%)	10 (3.3%)
Williamson	83 (86.5%)	
<i>Source.</i> DSHS 2014, Substance Abuse Youth Admissions.		

Depression

In the figures below is data describing depression among older individuals.



Social Factors

Divorce

Data from the 2014 census bureau put the percent of population 15 years and older who are divorced for Texas at 10.9% percent. The counties with the highest divorce population were Llano (14.9%), Freestone (14.8%), and Hamilton (14%). The counties with the lowest divorce population were Brazos (7.2%), Blanco (9%), and Lee (9.5%).

Social Norms of Substance Consumption

Data from the Texas School Survey (TSS, 2014) for Region 7 is combined with Region 8. As a result, what follows are numbers from two regions. The data extracted from the TSS is presented below as best matching social norms of substance consumption.

Parental Approval/Consumption

TABLE A-13: HOW DO YOUR PARENTS FEEL ABOUT KIDS YOUR AGE DRINKING ALCOHOL?

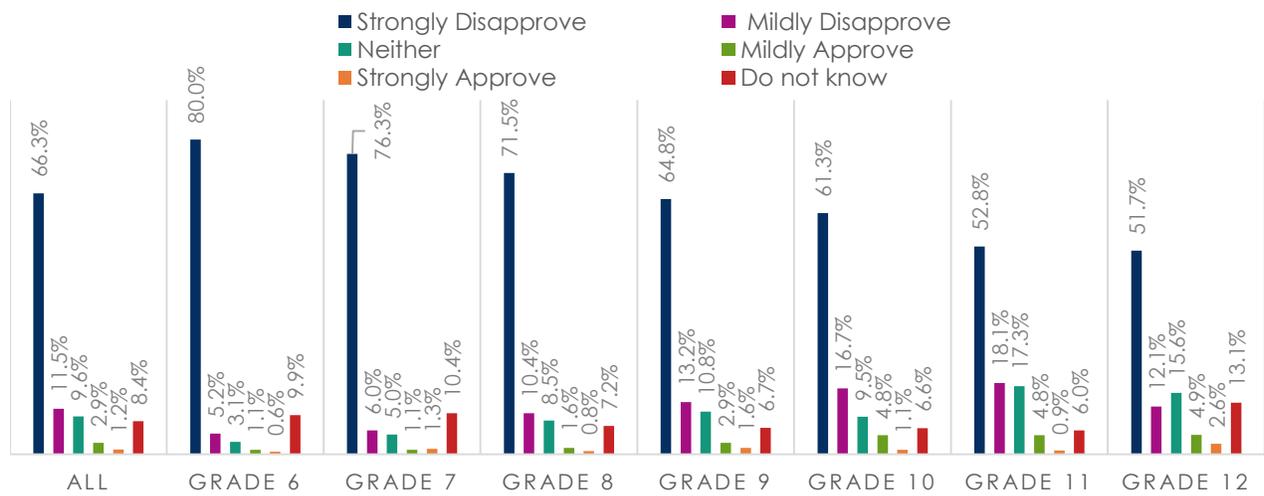


TABLE D-11: HOW DO YOUR PARENTS FEEL ABOUT KIDS YOUR AGE USING MARIJUANA?

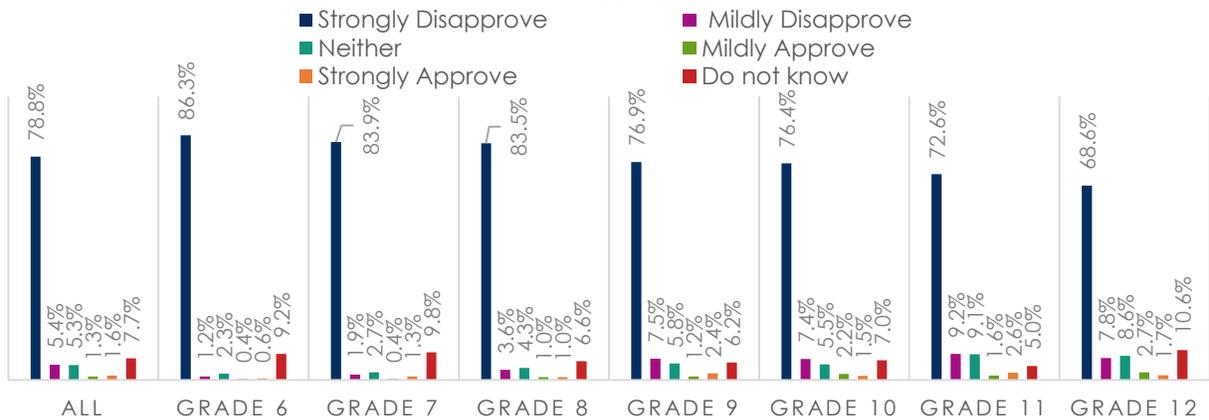
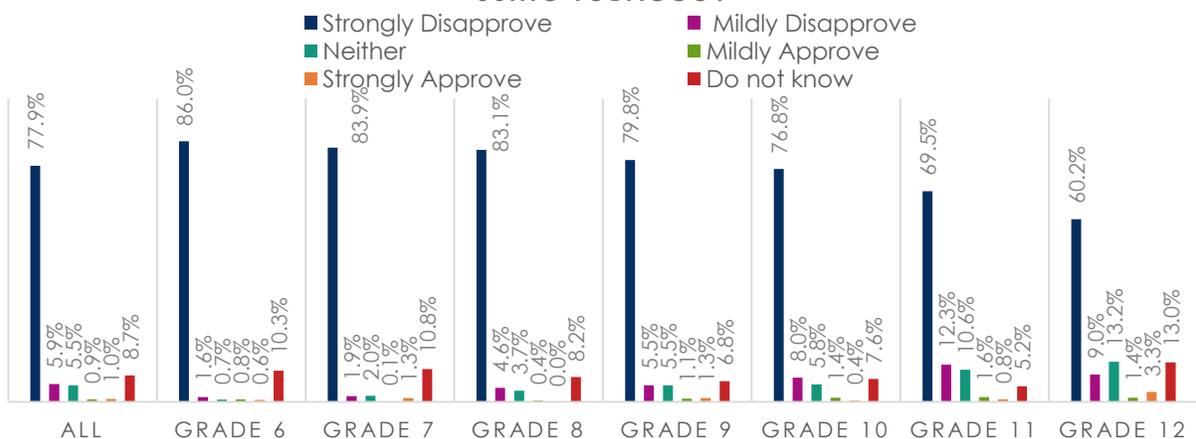
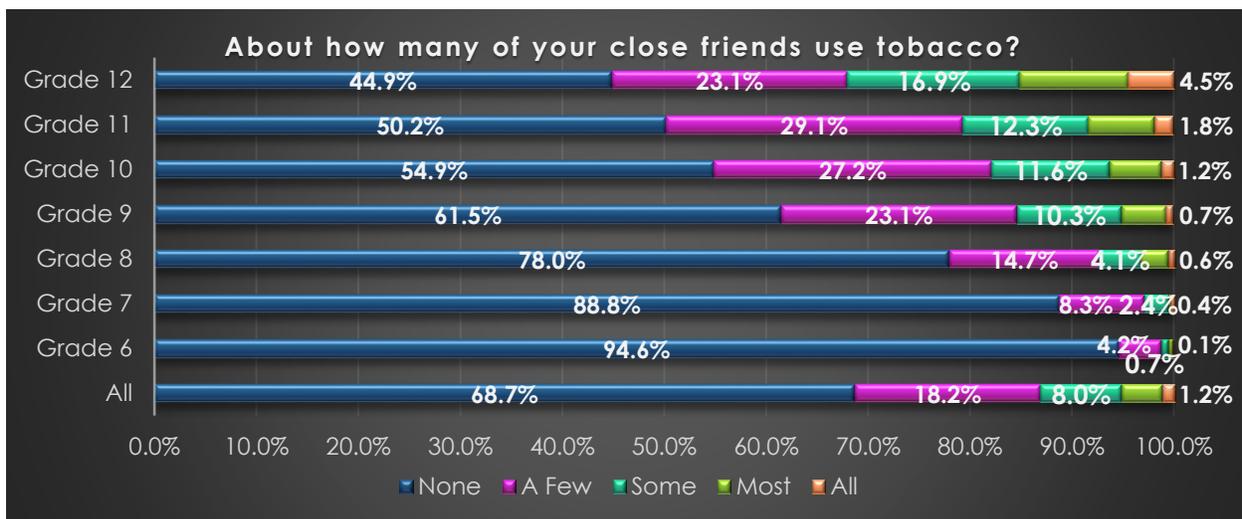
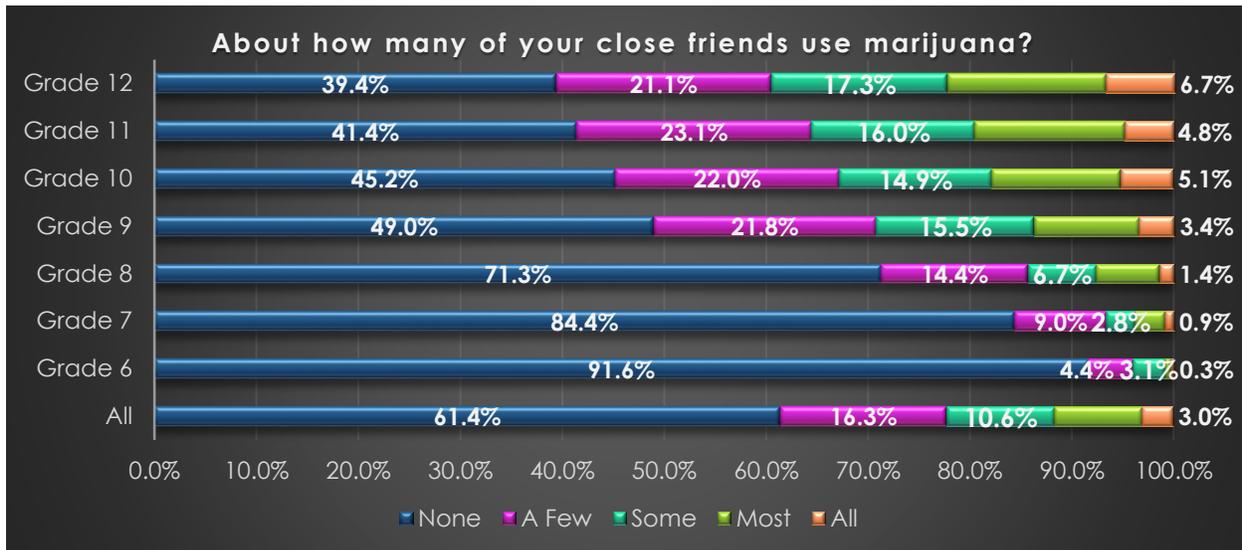
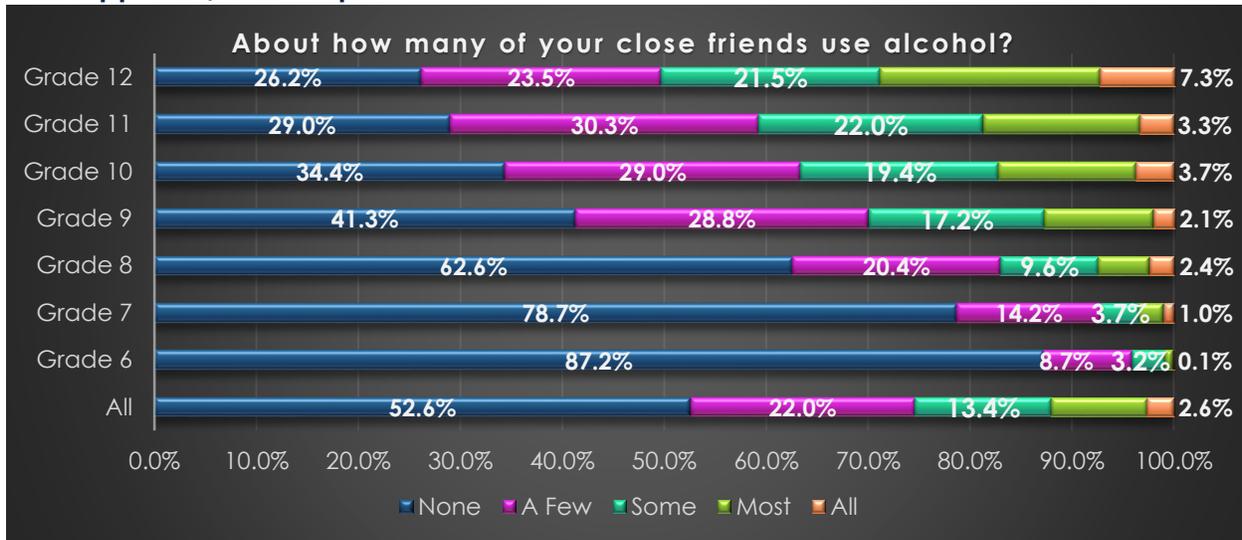


TABLE T-6: HOW DO YOUR PARENTS FEEL ABOUT KIDS YOUR AGE USING TOBACCO?



Peer Approval/Consumption

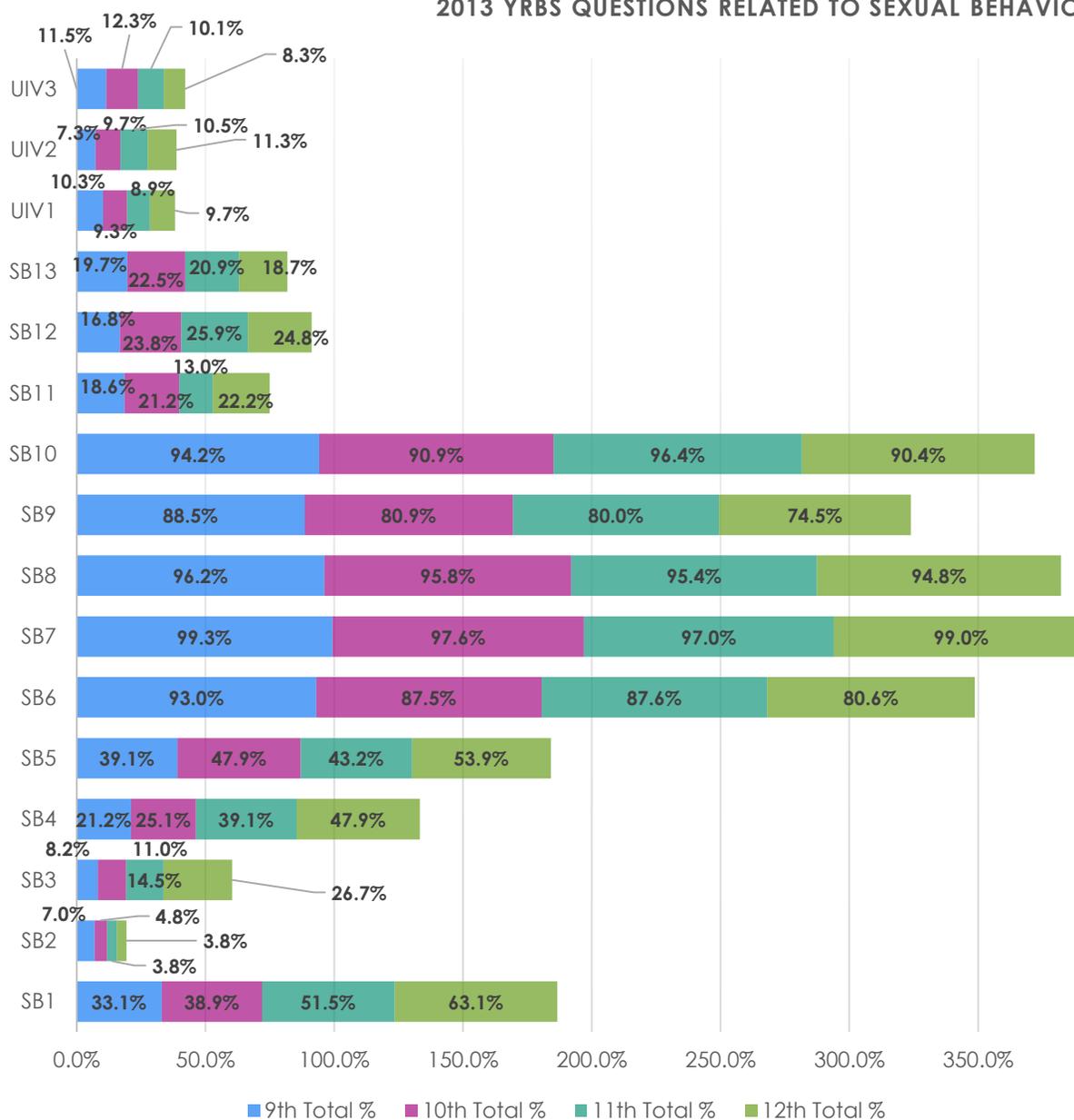


Adolescent Sexual Behavior

The Youth Risk Behavior Survey (YRBS) collects responses from high school students in Texas. For the year 2013 the following questions were asked:

Youth Risk Behavior Survey questions related to sexual behavior	Coded for proceeding figure
Sexual Behaviors (SB)	
Ever had sexual intercourse	SB1
Had sexual intercourse before age 13 years (for the first time)	SB2
Had sexual intercourse with four or more persons (during their life)	SB3
Were currently sexually active (sexual intercourse with at least one person during the 3 months before the survey)	SB4
Did not use a condom (during last sexual intercourse among students who were currently sexually active)	SB5
Did not use birth control pills (before last sexual intercourse to prevent pregnancy among students who were currently sexually active)	SB6
Did not use an IUD (e.g., Mirena or ParaGard) or implant (e.g., Implanon or Nexplanon) (before last sexual intercourse to prevent pregnancy among students who were currently sexually active)	SB7
Did not use a shot (e.g., Depo-Provera), patch (e.g., OrthoEvra), or birth control ring (e.g., NuvaRing) (before last sexual intercourse to prevent pregnancy among students who were currently sexually active)	SB8
Did not use birth control pills; an IUD or implant; or a shot, patch, or birth control ring (before last sexual intercourse to prevent pregnancy among students who were currently sexually active)	SB9
Did not use both a condom during and birth control pills; an IUD or implant; or a shot, patch, or birth control ring before last sexual intercourse (to prevent STD and pregnancy among students who were currently sexually active)	SB10
Did not use any method to prevent pregnancy (during last sexual intercourse among students who were currently sexually active)	SB11
Drank alcohol or used drugs before last sexual intercourse (among students who were currently sexually active)	SB12
Were never taught in school about AIDS or HIV infection	SB13
Unintentional Injuries and Violence (UIV)	
Were ever physically forced to have sexual intercourse (when they did not want to)	UIV1
Experienced physical dating violence (one or more times during the 12 months before the survey, including being hit, slammed into something, or injured with an object or weapon on purpose by someone they were dating or going out with among students who dated or went out with someone during the 12 months before the survey)	UIV2
Experienced sexual dating violence (one or more times during the 12 months before the survey, including kissing, touching, or being physically forced to have sexual intercourse when they did not want to by someone they were dating or going out with among students who dated or went out with someone during the 12 months before the survey)	UIV3

2013 YRBS QUESTIONS RELATED TO SEXUAL BEHAVIOR



The teen birth rate per 1,000 population of females aged 15-19 was 43.57 in Region 7. In the region, a total of 4,664 births occurred for mothers between 15 and 19. In comparison, Texas has a teen birth rate (per 1,000 population) of 55, while the national rate is 36.60. The three counties with the highest teen birth rate are Llano (70.40, n=28), Robertson (68.80, n=39), and Limestone (67.50, n=49).

Cultural Factors

Cultural factors influence decisions related to substance use. Many times, substance use is connected to accessibility. While misunderstanding or misbeliefs about a substance can also relate to cultural factors, a greater danger occurs when new habits or patterns for substance use connect themselves to culture.

Misunderstandings about Marijuana

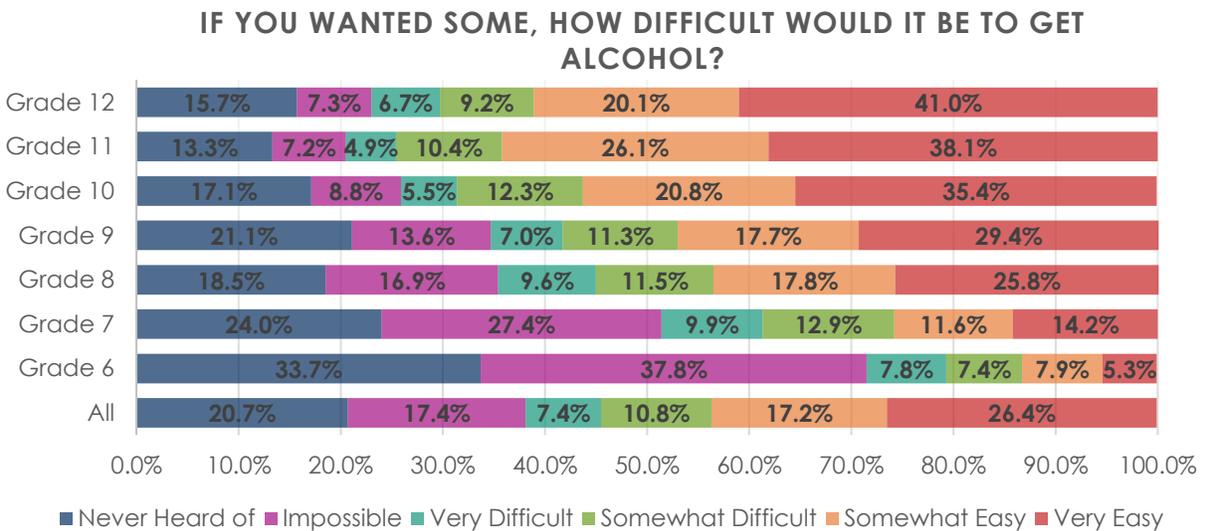
One misunderstanding concerning marijuana use is the difference between medical and recreational marijuana use. Recreational marijuana is commonly known to have more THC, while medical marijuana will have more Cannabidiol (CBD). The high from marijuana comes from THC. Another misunderstanding, especially among children, is that marijuana is legal in Texas as it is in Colorado or Washington.

Accessibility

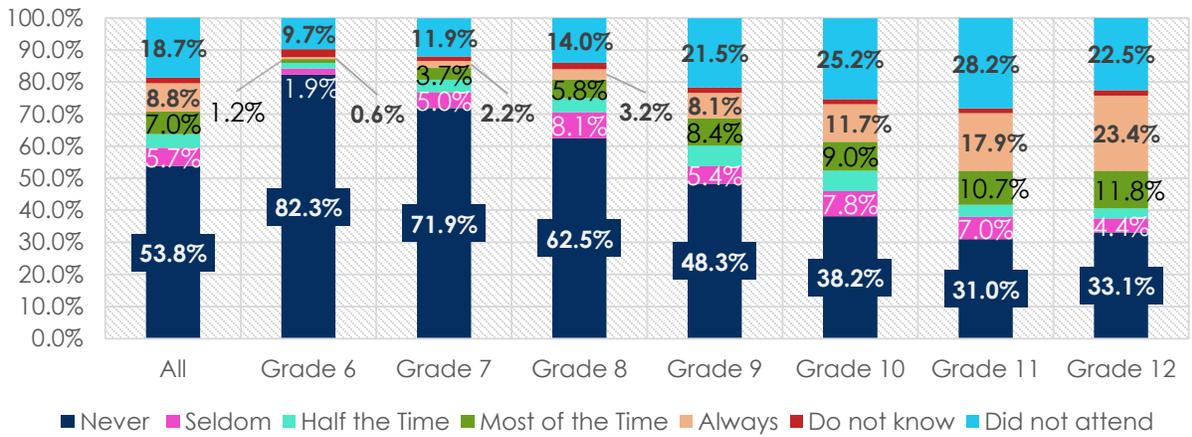
The ease of alcohol and drug accessibility for adolescents is a concern because of the potential to promote use at earlier ages. According to the Texas College Survey in 2015 12% of underage respondents have a fake ID and 22% of underage respondents were not carded at liquor stores, bars, or restaurants. However, the predominant method was through a friend who was over 21 with 74% of underage respondents reporting that that is how they acquired alcohol. The following figures provide insight into how students perceive their access to substances (TSS, 2014).

Perceived Access

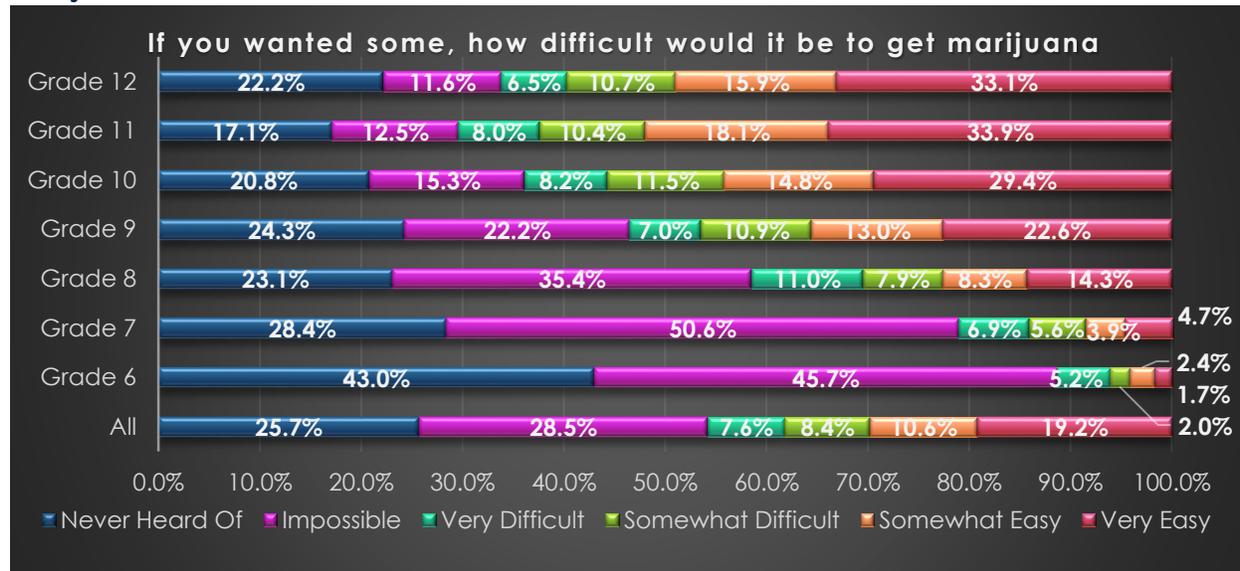
Alcohol

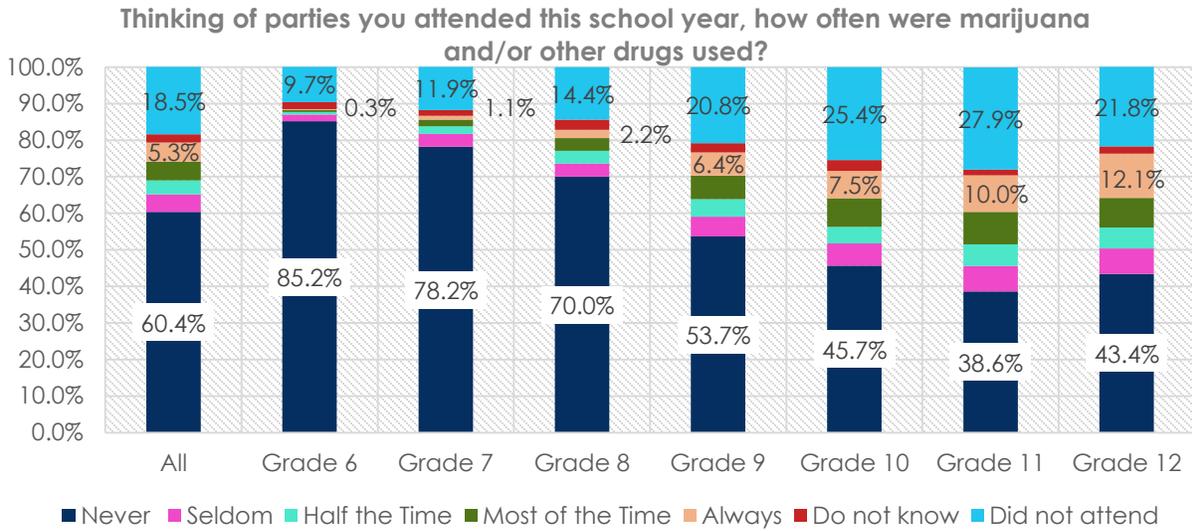


Thinking of parties you attended this school year, how often was alcohol used?



Marijuana





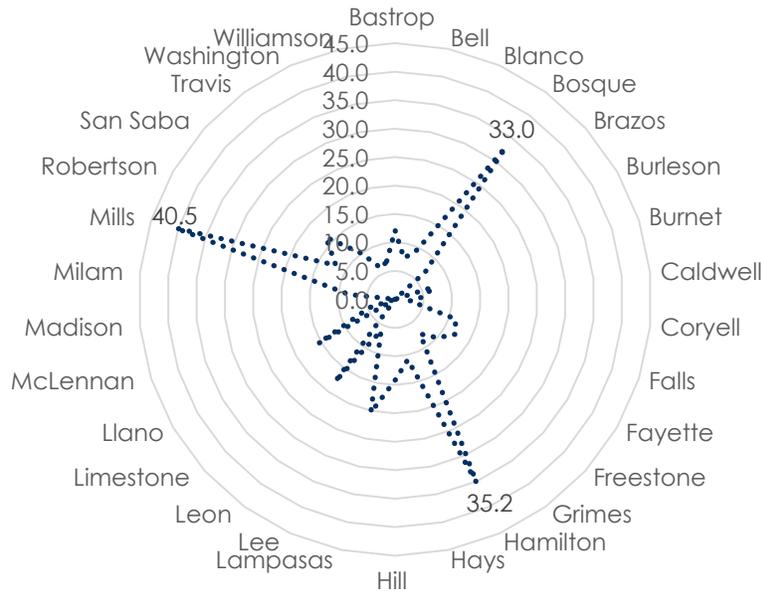
Prescription Drugs

Data on the accessibility of prescription drugs is limited. Yet, we know there are more prescriptions compared to the population in Region 7. Because prescriptions outnumber individuals in Region 7, there is a real danger in the accessibility of prescription drugs to adolescents. For more information, see Early Initiation of prescription drugs within the Regional Consumption Section.

Alcohol Access

In the figure below, access to alcohol in Region 7 is illustrated by county-level rates. The rates are calculated by the number of alcohol establishments divided by 100,000, as defined by North American Industry Classification System (NAICS) Code 445310. Alcohol establishments in this sample include those saleing beer, wine, and liquor. In the figure below, the three counties with the most access to alcohol based on the number of establishments are Mills, Hamilton, and Bosque counties.

ALCOHOL ACCESS BY VENDOR



Marijuana Access

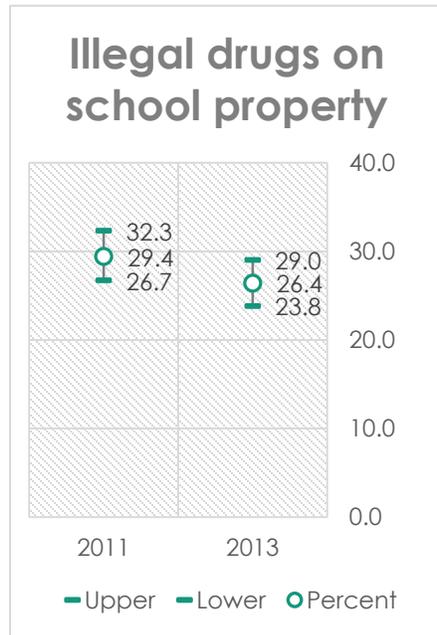
Although medical marijuana is not legalized in Texas, there are many advocates attesting to beneficial uses. However, the short-sightedness of marijuana use is the long-term health concerns. Other states in the US have legalized medical marijuana, while other states have legalized marijuana for recreational use, yet in Texas marijuana use is not allowed. Access to marijuana is mostly influenced from outside sources and will depend on law enforcement or marijuana decriminalization policies in order to reduce and control marijuana access.

Prescription Drugs Access

Access to prescription drugs is a growing trend in Texas and in Region 7. Coalitions have advocated that prescription pills be locked away and secured from potential abuse. Currently, there is one permanent prescription pill disposal box located in the Robertson County Sheriff's Office. Several prescription pill round-ups have occurred in the region to reduce access.

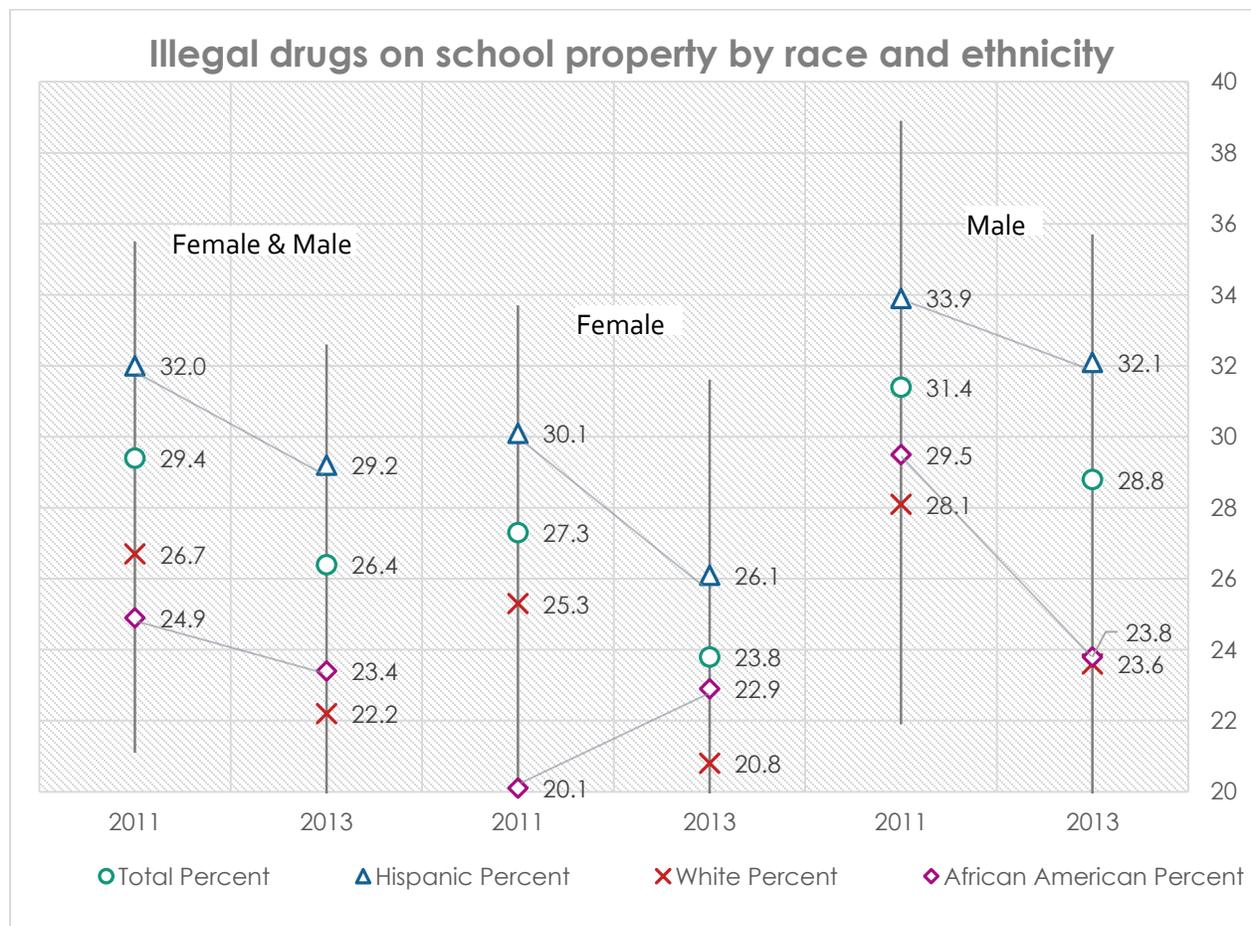
Illegal Drugs on School Property

The Youth Risk Behavior Survey (YRBS) 2013 and 2011 illustrates what we know about illegal drugs on school property. For Texas, only high school data is available; other states also include middle school data.



Texas high school students 9-12 were asked during the 12 months before the survey if they were offered, sold, or given an illegal drug on school property. As illustrated in the figure, there is a decline of student 9-12 responses from 2011 (29.4%, $n = 4130$) to 2013 (26.4, $n = 3120$), and the student sample includes all races and ethnicities. The additional upper and lower values are confidence limits also derived from the YRBS and serve as a range of possible values.

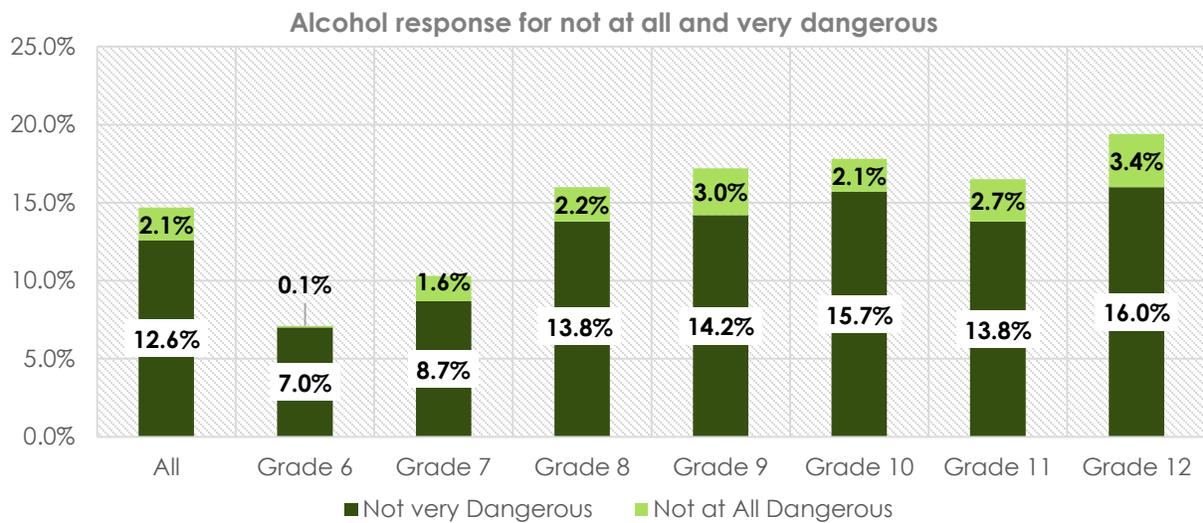
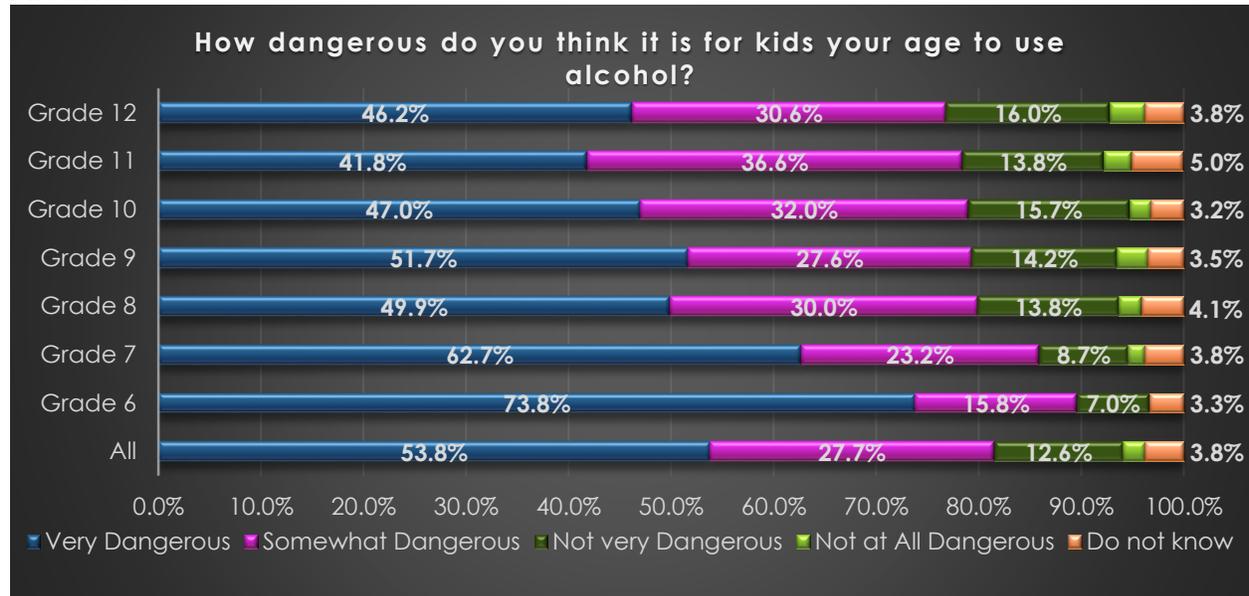
Across all races and ethnicities, when combining all high school grade levels together, from 2011 to 2013 YRBS responses for the offer, selling, giving of illegal drugs on school property has declined. However, the gap of decline is small among Hispanics and African Americans in the Female & Male 2011-2013 section of the figure. Furthermore, among African Americans, females had an increase related to illegal drugs on school property from 2011 to 2013 compared to male African Americans. Among Hispanics, the gap is smaller among Hispanic males compared to Hispanic females. For instance, see the next figure with race and ethnic comparisons.



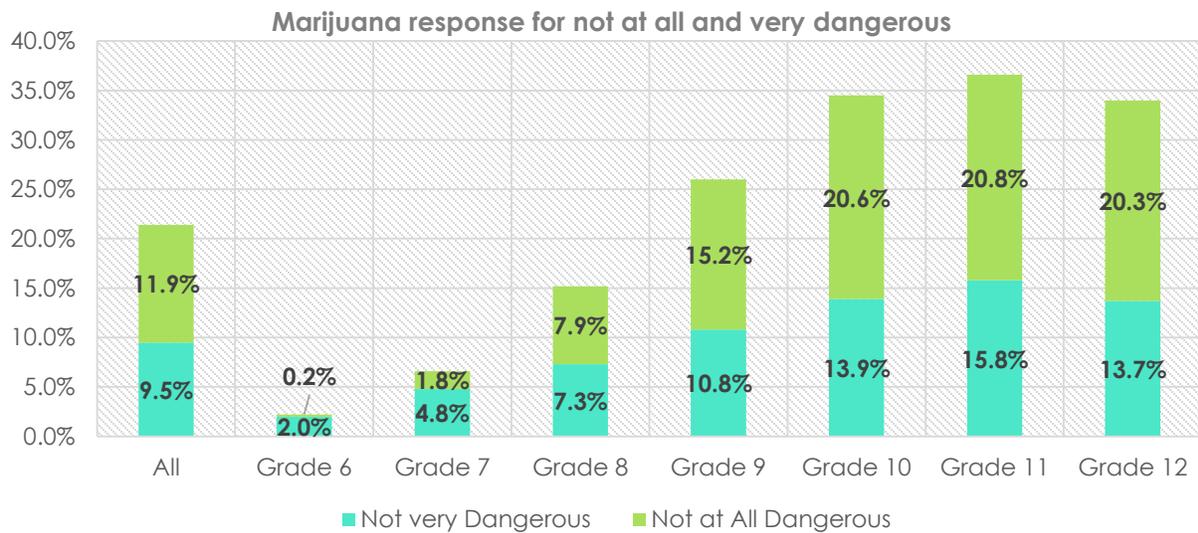
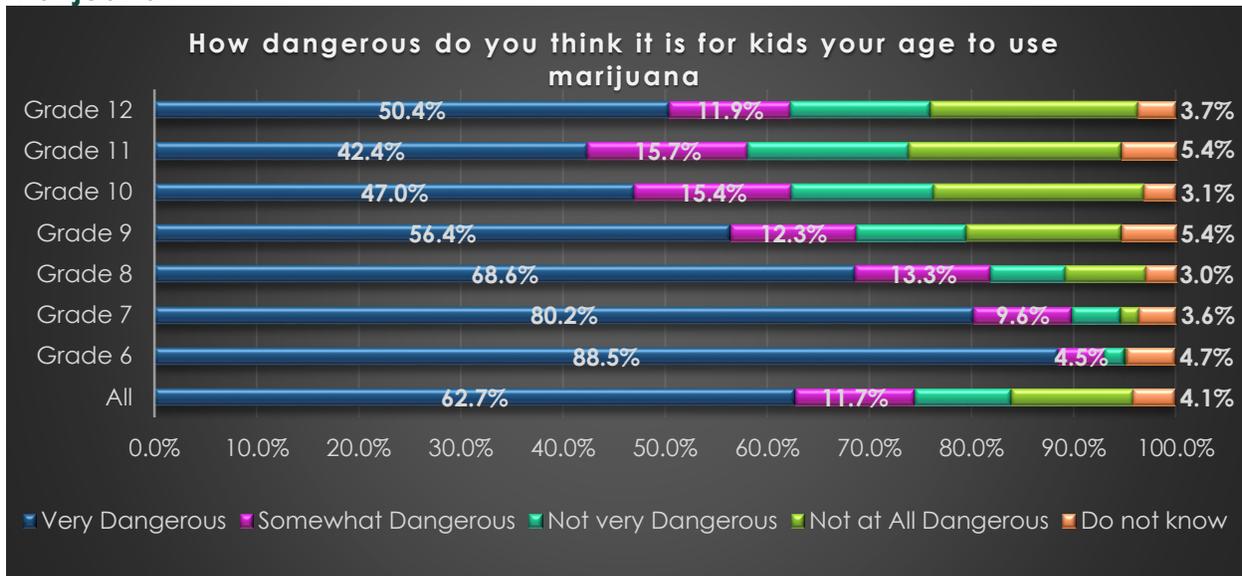
Perceived Risk of Harm

Results from the Texas School Survey for Alcohol and Drugs 2014 identifies the level of danger students (i.e., grades 6-12) associate with use of alcohol, marijuana, and prescription drugs. Region 7 and 8 results were combined according to the Public Policy Research Institute to improve sampling outcomes.

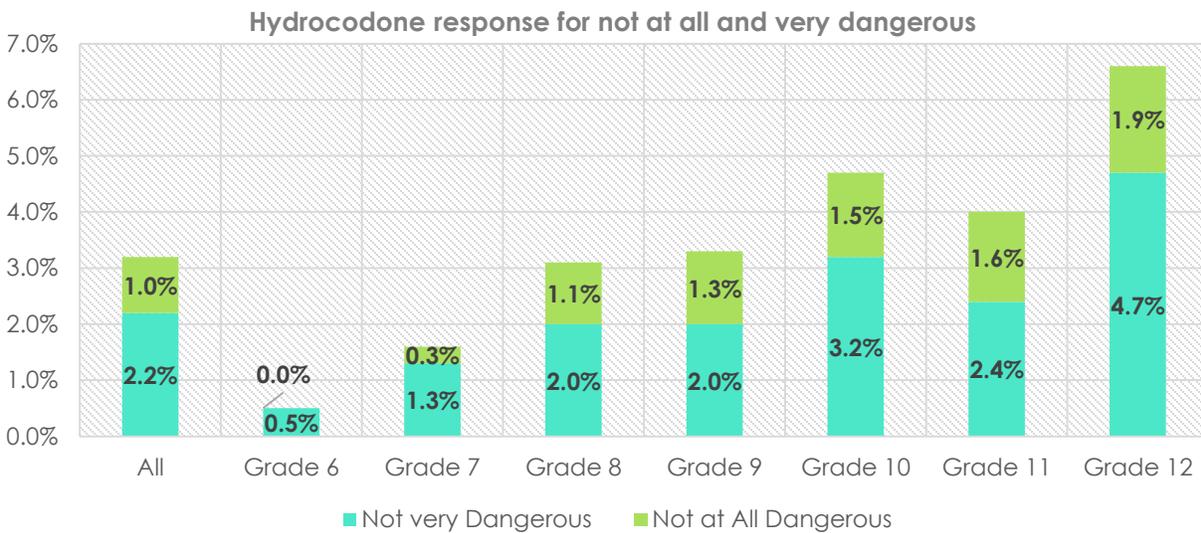
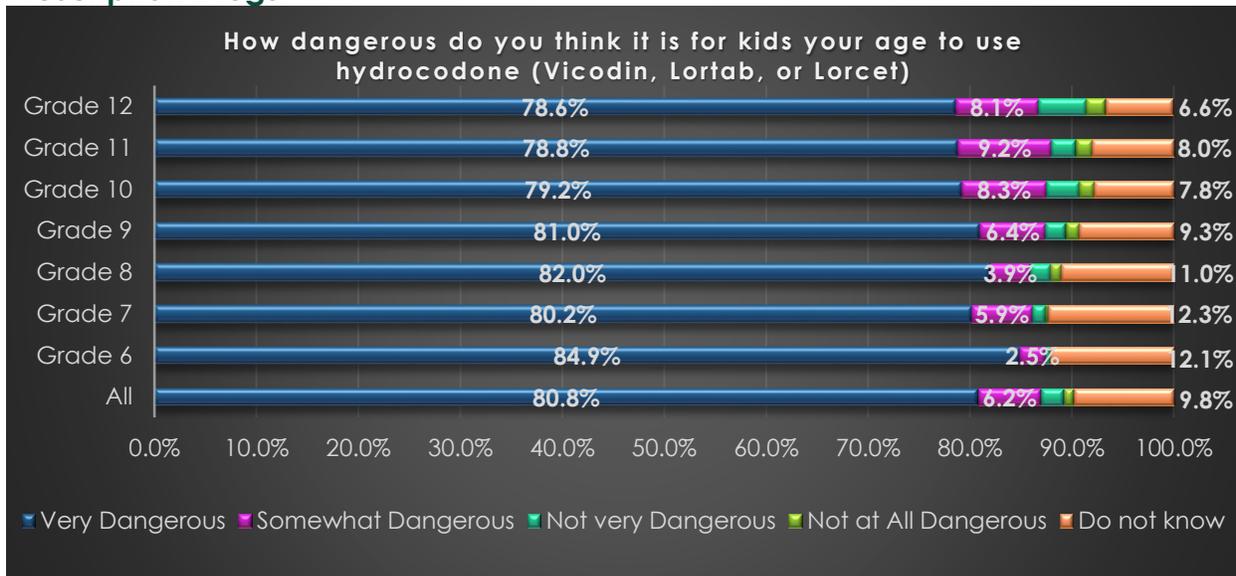
Alcohol



Marijuana

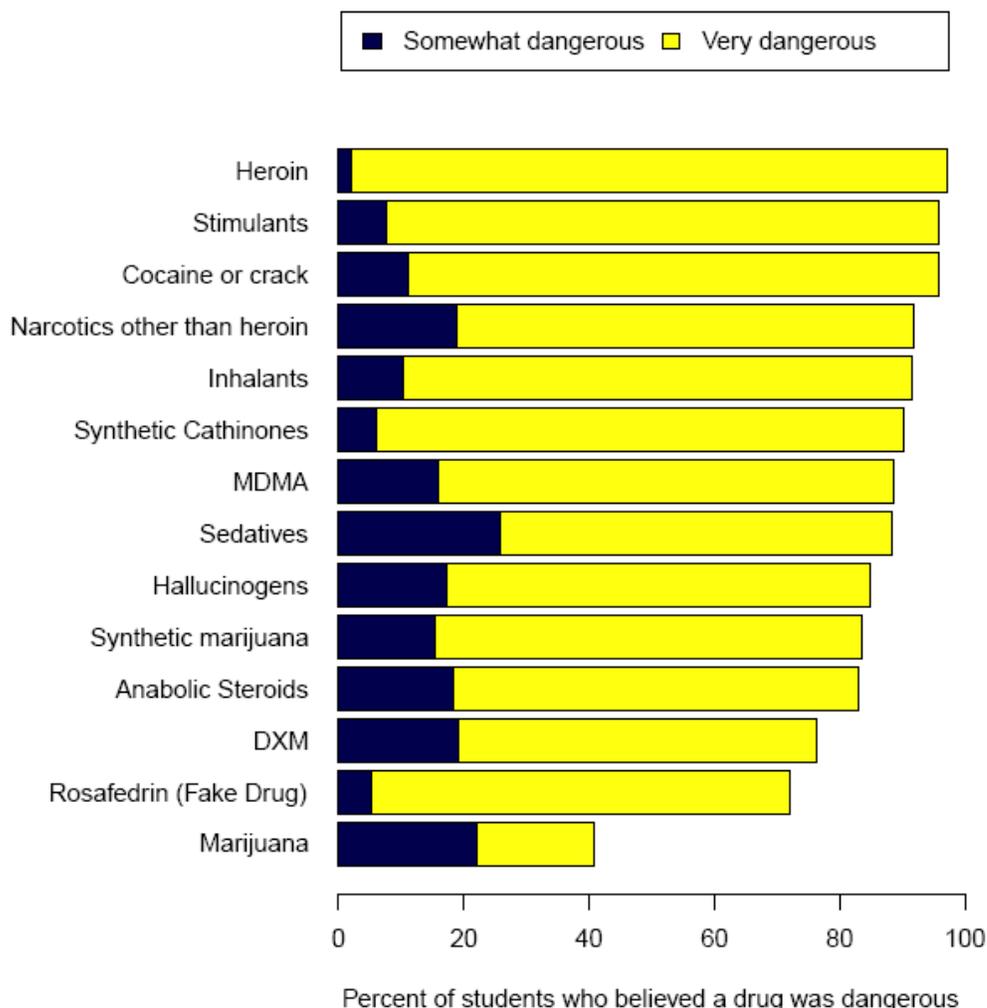


Prescription Drugs



College Students Perception of Harm

The 2015 Texas Survey of Substance Use among College Students or the Texas College Survey reported that for most drugs 80% of college students surveyed considered them to be dangerous with the exception of Marijuana and DXM. For Marijuana 41% of respondents considered it to be somewhat or very dangerous down 4% from 2013.



Regional Consumption

Alcohol

According to the Texas Drug Facts among Youth 2012, alcohol continues to be the most commonly used substance among secondary school students. Additionally, Maxwell (2013) has found this to be apparent from Texas School Survey (TSS) data. Students in grades 7-12, over time, illustrate a gradual decrease in alcohol use and binge drinking (see Table on next page). For younger students (grades 4-6), observations from the Texas School Survey data indicate a decrease of overall alcohol use from 2010 to 2012. For example, lifetime alcohol use for students in grades 4-6 decreased from 21.5 percent (2010) to 17.7 percent (2012). Further highlights from TSS data demonstrate that past-school-year alcohol use also followed this downward trend from 13.7 percent to 11.2 percent.

Age of and Early Initiation

Alcohol Initiation, Grades 6-12		
Area	Age of Initiation	Early Initiation (<13)
Texas	12.9	38.0%
Region 1 and 2	12.8	38.9%
Region 3	12.6	43.5%
Region 4	12.9	38.4%
Region 5 and 6	12.8	40.7%
Region 7 and 8	12.6	44.0%
Region 9 and 10	12.9	38.3%
Region 11	13.1	35.4%

Source. 2014 Texas School Survey (q21b)

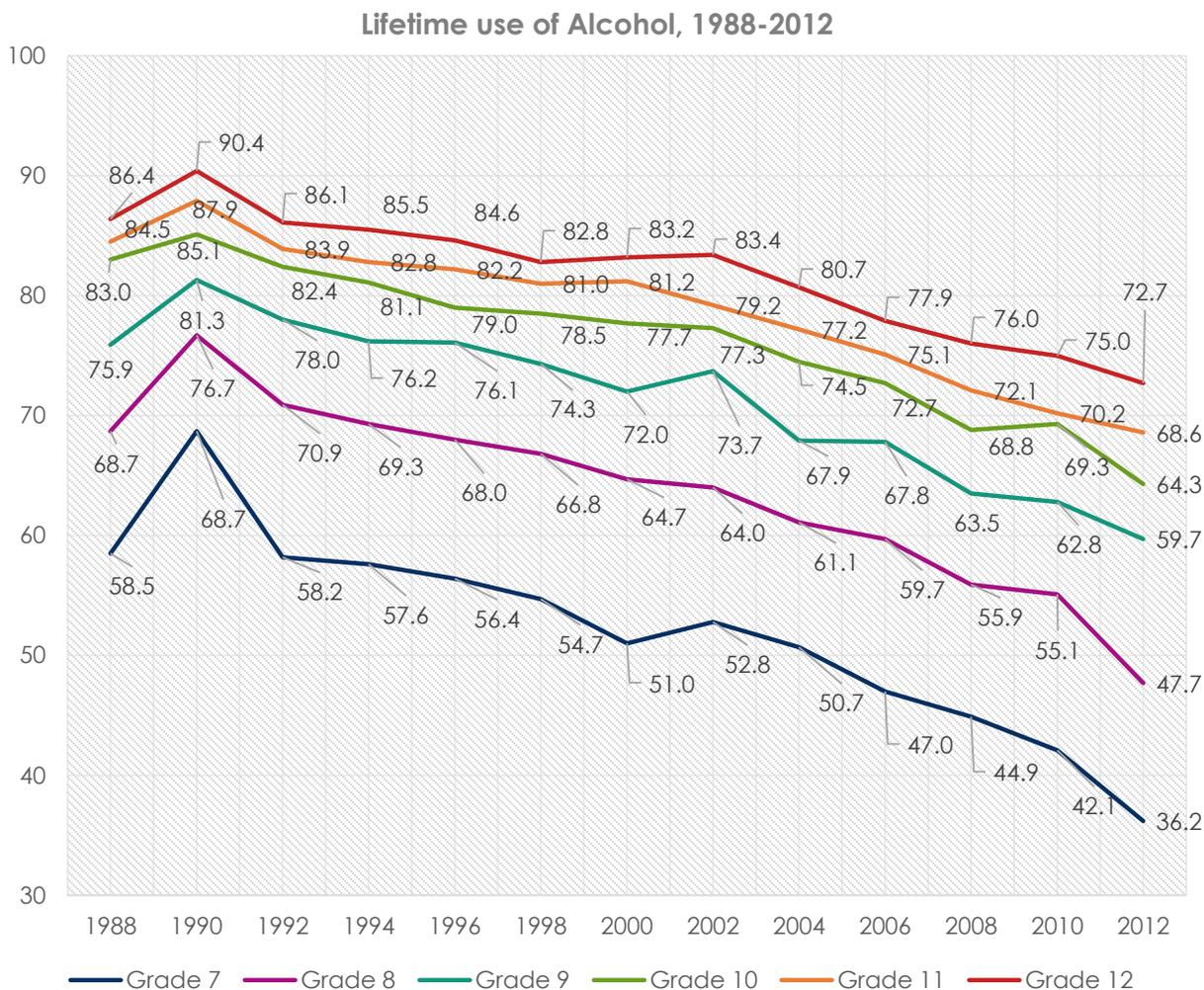
Current and Lifetime Use

Alcohol Consumption, Grades 6-12			
Area	Current Use, All Grades	Lifetime Use, All Grades	High-Risk Use*, All Grades
Texas	21.2%	50.5%	13.8%
Region 1 and 2	21.1%	51.3%	17.5%
Region 3	15.0%	40.0%	9.3%
Region 4	20.7%	49.6%	15.1%
Region 5 and 6	21.9%	51.9%	13.3%
Region 7 and 8	18.6%	45.7%	11.3%
Region 9 and 10	23.2%	51.9%	15.2%
Region 11	19.0%	43.7%	13.2%

Source. 2014 Texas School Survey (tA-1, tA-4). * =High-risk use is current (last 30 days) binge drinking (5 or more drinks).

Alcohol Consumption, Grades 12			
Area	Current Use, Grade 12	Lifetime Use, Grade 12	High-Risk Use*, Grade 12
Texas	32.7%	64.3%	23.5%
Region 1 and 2	35.6%	71.5%	33.0%
Region 3	25.6%	55.5%	17.9%
Region 4	35.8%	69.5%	30.3%
Region 5 and 6	36.3%	70.0%	26.4%
Region 7 and 8	33.6%	61.5%	21.0%
Region 9 and 10	39.8%	74.1%	30.9%
Region 11	33.4%	66.5%	23.7%

Source. 2014 Texas School Survey (tA-1, tA-4). * =High-risk use is current (last 30 days) binge drinking (5 or more drinks).



College Student Alcohol Consumption

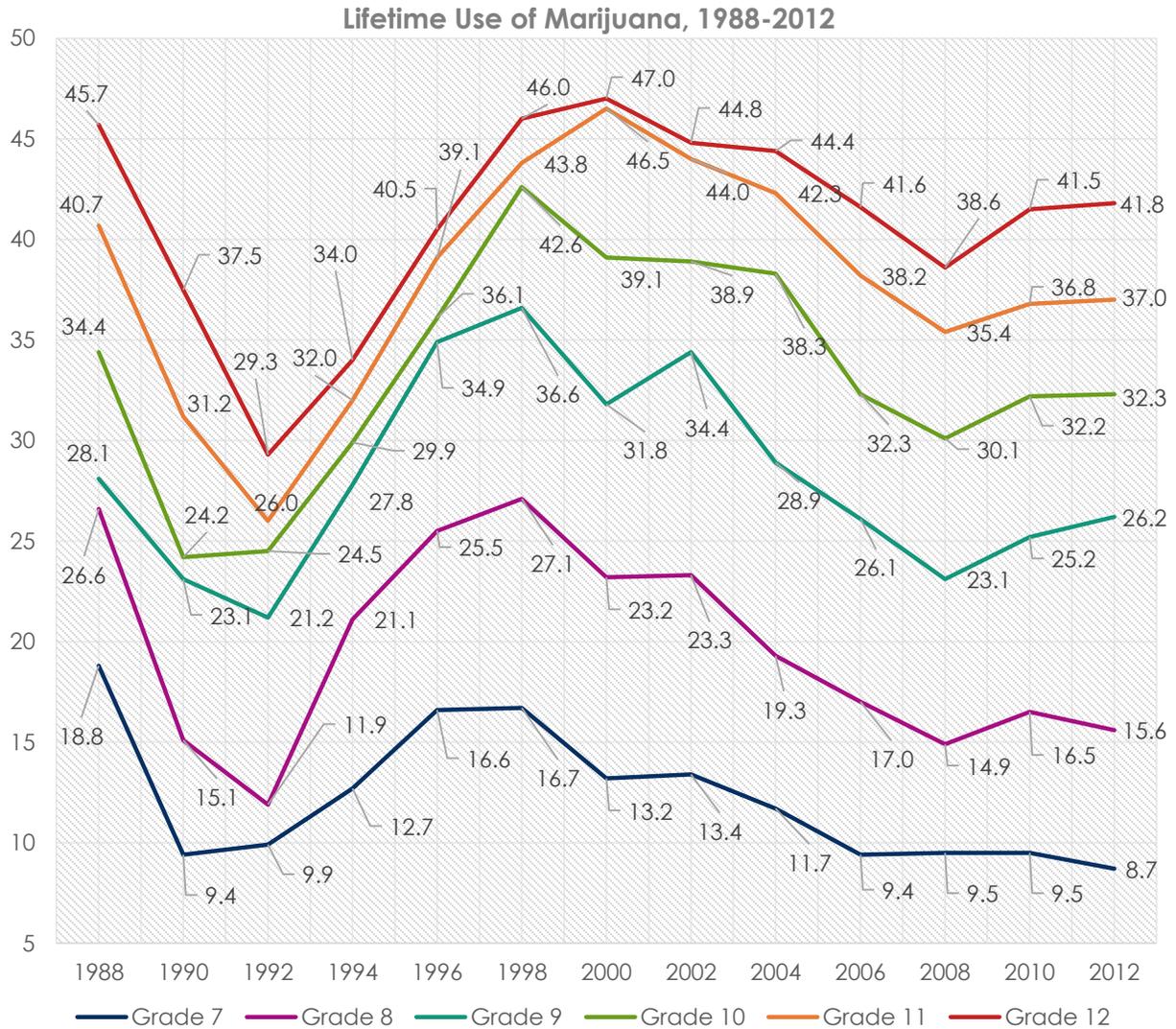
According to the Texas College Survey for 2015 around 82% of respondents have had alcohol in their lifetime, 76% have used alcohol in the past year and 61% in the past month. 16% of respondents abstain completely from alcohol, 41% of male respondents reported binge drinking in the past month while only 35% of female respondents did. The majority of students who reported drug use indicated that they continue to do drugs while 50% reported decreasing or stopping their use since starting college (down 13% from 2013) and 25% of students reported increasing their usage since starting college (up 5% from 2013).

Drug Usage by Texas College Students			
Drug	Lifetime Use	Past Year Use	Past Month Use
Alcohol	81.9%	75.8%	60.9%
Tobacco	55.0%	43.1%	25.7%
Inhalents	3.9%	1.3%	0.4%
DXM	7.3%	4.0%	1.8%

Marijuana	42.8%	29.8%	17.6%
Synthetic Marijuana	9.0%	1.1%	0.2%
Cocaine	8.8%	4.9%	2.1%
Stimulants	6.5%	3.9%	2.2%
Sedatives	12.1%	7.4%	3.0%
Hallucinogens	10.8%	5.7%	1.6%
Heroin	1.2%	0.3%	0.1%
Other Narcotics	11.2%	6.6%	2.1%
Steroids	1.0%	0.5%	0.2%
Bath Salts	1.1%	0.3%	0.1%
MDMA	9.5%	4.1%	1.1%

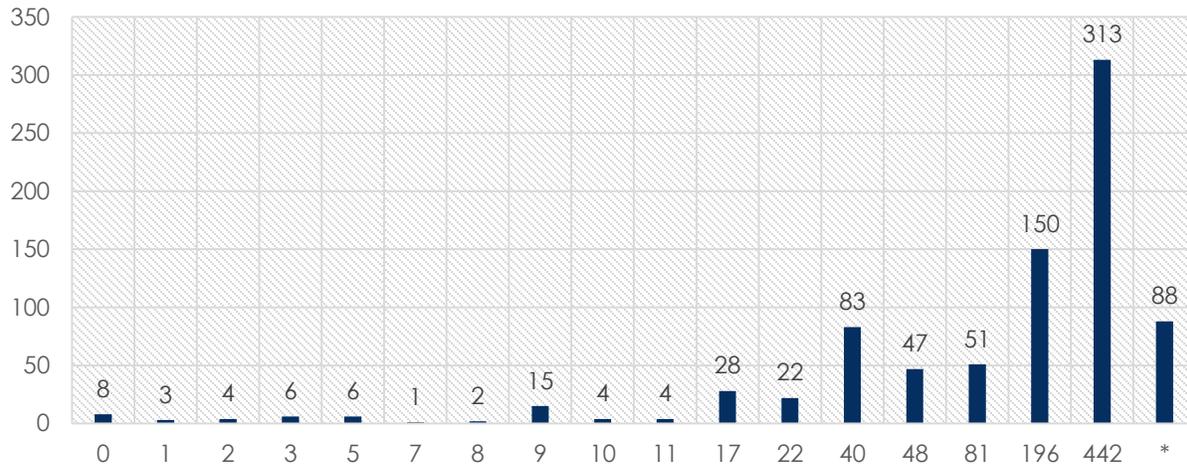
Marijuana

The most frequent age of initiation for marijuana use is 14 years old according to the Texas School Survey of Drug and Alcohol Use (2012). Early initiation of marijuana use among 7-12 graders was 6% (94,898). Also, 26.2 percent of students in grades 7-12 reported on the Texas School Survey (TSS 2012) that they had used marijuana at some point during their lives. The same result was found for students in 2010. Downward trends continue when observing student in grades 4-6. For example, lifetime marijuana use from 2010 to 2012 decreased from 1.9 percent to 1.7 percent with past-school year use dropping from 1.3 percent to 1.2 percent. Also, there was a decrease for students in grade 6 (3.8 percent to 3.2 percent).



During the September 2013 to May 2014 time span the number of new marijuana possession cases appeared in Region 7 courts. There was significant missing data for the month of May, yet in the span of 9 months there is continued new cases brought forth in Region 7 courts.

Sum of Sept to May 2014 Cases of Marijuana by Courts



Note. *=missing data

Marijuana edibles and vapor are new trends in marijuana use, especially in conjunction with the e-cigarette. As a result, marijuana in the form of oils, wax, and concentrates will become more prevalent, especially in promoting the presence of vapor shops across the region.

The consequences of marijuana legalization can lead to increased availability and the normalization of marijuana use. Following the legalization path would lead to further negative health consequences, especially among youth. A negative health aspect involving adolescent with chronic use can lead to dependence and addiction. Unfortunately, the legalization of marijuana will not solve the current public health challenges.

Age of and Early Initiation

Marijuana Initiation, Grades 6-12		
Area	Age of Initiation	Early Initiation (<13)
Texas	13.8	23.1%
Region 1 and 2	13.7	24.4%
Region 3	15.2	20.7%
Region 4	14.2	19.7%
Region 5 and 6	13.6	25.8%
Region 7 and 8	13.7	26.5%
Region 9 and 10	13.6	25.3%
Region 11	13.6	27.5%

Source. 2014 Texas School Survey (q21d).

Current and Lifetime Use

Marijuana Consumption, Grades 6-12				
Area	Current Use, All Grades	Lifetime Use, All Grades	Current Use, Grade 12	Lifetime Use, Grade 12
Texas*	9.1%	23.2%	15.2%	38.2%**
Region 1 and 2	7.9%	21.5%	14.7%	41.0%
Region 3	6.7%	16.6%	13.7%	34.2%
Region 4	5.9%	18.0%	15.5%	39.5%
Region 5 and 6	9.5%	23.9%	18.1%	41.4%**
Region 7 and 8	6.9%	19.2%	11.1%	35.0%
Region 9 and 10	9.5%	23.6%	18.2%	44.9%
Region 11	8.6%	21.5%	17.6%	40.0%

Source. 2014 Texas School Survey (tD-1). *=the State rate for all grades is grades 7-12, and regional rates are grades 6-12. **=Use 10th and 11th grade is equal to or grader than 12th grade.

Prescription Drugs

In 2011, the Executive Office of the President of the United States called the abuse of prescription drugs an epidemic. The 2011 Prescription Drug Abuse Prevention Plan further outlined four areas to focus on to reduce prescription drug abuse. The four areas focused on education, monitoring, proper medication disposal, and enforcement. Education on the dangers of abusing prescription drugs is needed for parents, youth, and patients. In addition, proper storage and disposal of prescription drugs is needed to prevent abuse of prescription drugs. Monitoring in Texas includes implementation of prescription drug monitoring programs. One such program already established in Texas is the Prescription Access in Texas (PAT).

In a report conducted by the Trust for American's Health (TFAH 2013), Texas was found to have the eighth lowest drug overdose mortality rate in the U.S. The 2010 mortality rate (per 100,000) for Texas was 9.6. A mortality rate of 9.6 is alarming for Texas because in 1999 the mortality rate (per 100,000) used to be 5.4. As a result, the rate change from 1999-2010 has increased by 78 percent. In fact, according to Lankenau et al. (2012) prescription opioids are the most abused among young adults.

Adolescents are at risk for prescription drug use. In fact, estimates from the TFAH indicates that one in four teens have abused or misused a prescription drug during their lifetime. As an example, Ritalin and Adderall use by students was one in eight (13 %). The nonmedical use of Viadin was another significant prescription drug used among high school students (one in twelve students used Viadin) as well as OxyContin (one in twenty high school students).

Top 17 Abused Prescription Drugs of 2013			
Prescription Drug	2012 Sales	2011 Sales	% change
OxyContin (Oxycodone HCl controlled-release)	2.695 billion	2.791 billion	-3.4%
Suboxone (buprenorphine HCl and naloxone) Sublingual Flim Subutex (buprenorphine HCl)	1.349 billion	1.228 billion	9.8%
Concerta (methylphenidate HCl)	1.073 billion	1.268 billion	-15.4%
Ambien (zolpidem tartrate)	670.6 million	661.1 million	1.4%
Ritalin/Focalin (methylphenidate HCl)	554 million	550 million	0.7%
Zoloft (Sertraline HCl)	541 million	573 million	-5.6%
Lunesta (Eszopiclone)	447.0 million*	420.1 million*	6.4%
Adderall XR (amphetamine/ dextroamphetamine)	429.0 million	532.8 million	-19.5%
Opana ER (oxymorphone HCl)	299.287 million	384.339 million	-22.1%
Xanax XR (alprazolam)	274 million	306 million	-10.5%
Klonopin/Rivotril (clonazepam)	194 million	211 million	-8.1%
Fentora (fentanyl citrate)	121 million ¹	186 million ¹	-34.9%
Percocet (oxycodone acetaminophen)	103.406 million	104.600 million	-1.1%
Ativan (lorazepam)	30 million ¹	25 million ¹	20.0%
Soma (carisoprodol)	27 million ¹	46 million ¹	-41.3%
Valium (diazepam)	8 million ¹	10 million ¹	-20%
Vicodin (hydrocodone bitartrate and acetaminophen)	-	168 million ¹	-

Source. Drugs.com and EvaluatePharma. *=2012-2013, 2011-2012 sales. 1 = sales from EvaluatePharma. List retrieved from <http://www.genengnews.com/insight-and-intelligence/top-17-abused-prescription-drugs-of-2013/77899961/?page=1>

Age of Initiation

The Age of Initiation for prescription drugs was not asked on the 2014 TSS. However, the prevalence of prescriptions in the region is an indication of prescription drug access. Because of the large amount of prescriptions relative to the 2014 population, the potential for youth to become involved with prescription drug abuse is a viable concern in Region 7.

Early Initiation

Adolescents initiating the use of prescription drugs are a real concern given that Region 7 has a high number of prescriptions compared to population. For example, in 2014 there were 3,589,960 prescriptions for a population of 3,148,709. The number of prescriptions to population in Region 7 is 8 prescriptions for 7 individuals. Of all 30 counties in Region 7, only three counties had more population compared to prescriptions (Bell, Brazos, and Coryell). Travis (1,202,860 prescriptions/1,094,126 population), Williamson (568,398 prescriptions/466,057 population), and McLennan (307,466 prescriptions/241,469 population) counties had the highest prescriptions to population ratio.

In addition, the amount of Schedule 2 prescriptions in Region 7 increases the likelihood of early initiation among adolescents abusing dangerous prescriptions. There were 1,770,742 scheduled 2 prescriptions in Region 7 among a 2014 population of 3,148,709. Schedule 2 prescriptions in Region 7, if viewed as a prescription per person, would translate to a rate of 14 out of every 25 individuals.

Schedule 2 drugs are defined as “drugs with a high potential for abuse, less abuse potential than Schedule I drugs, with use potentially leading to severe psychological or physical dependence. These drugs are considered dangerous” (DEA). Examples of Schedule 2 prescriptions are Combination products with less than 15 milligrams of hydrocodone per dosage unit (Vicodin), cocaine, methamphetamine, methadone, hydromorphone (Dilaudid), meperidine (Demerol), oxycodone (OxyContin), fentanyl, Dexedrine, Adderall, and Ritalin. In contrast, Schedule I drugs include heroin, lysergic acid diethylamide (LSD), marijuana (cannabis), 3,4-methylenedioxymethamphetamine (ecstasy), methaqualone, and peyote. These drugs are defined by the federal government “with no currently accepted medical use and a high potential for abuse. Schedule I drugs are the most dangerous drugs of all the drug schedules.

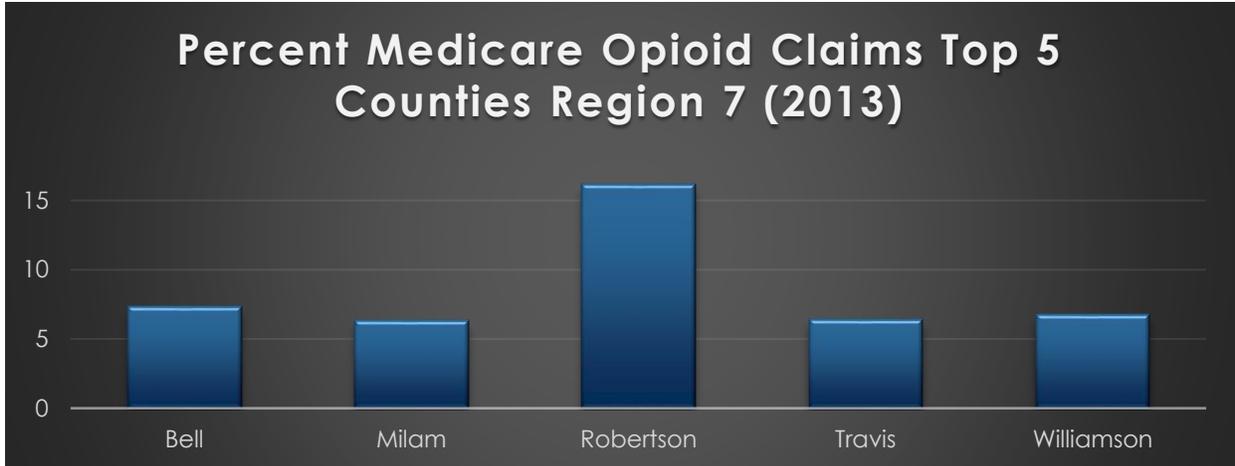
Current and Lifetime Use

When asked if students ever used prescription drugs in their lifetime, the Regions 7 and 8 outcome for students in grades 7-12 was 14.6%. Regions 7 and 8 are the top areas for students in grades 7-12 to self-report current use of prescription drugs (i.e., second in highest percent reported). Additionally, comparatively to lifetime use, Region 7 and 8 is tied with Region 4 (14.6%) and third in highest percent reported from students.

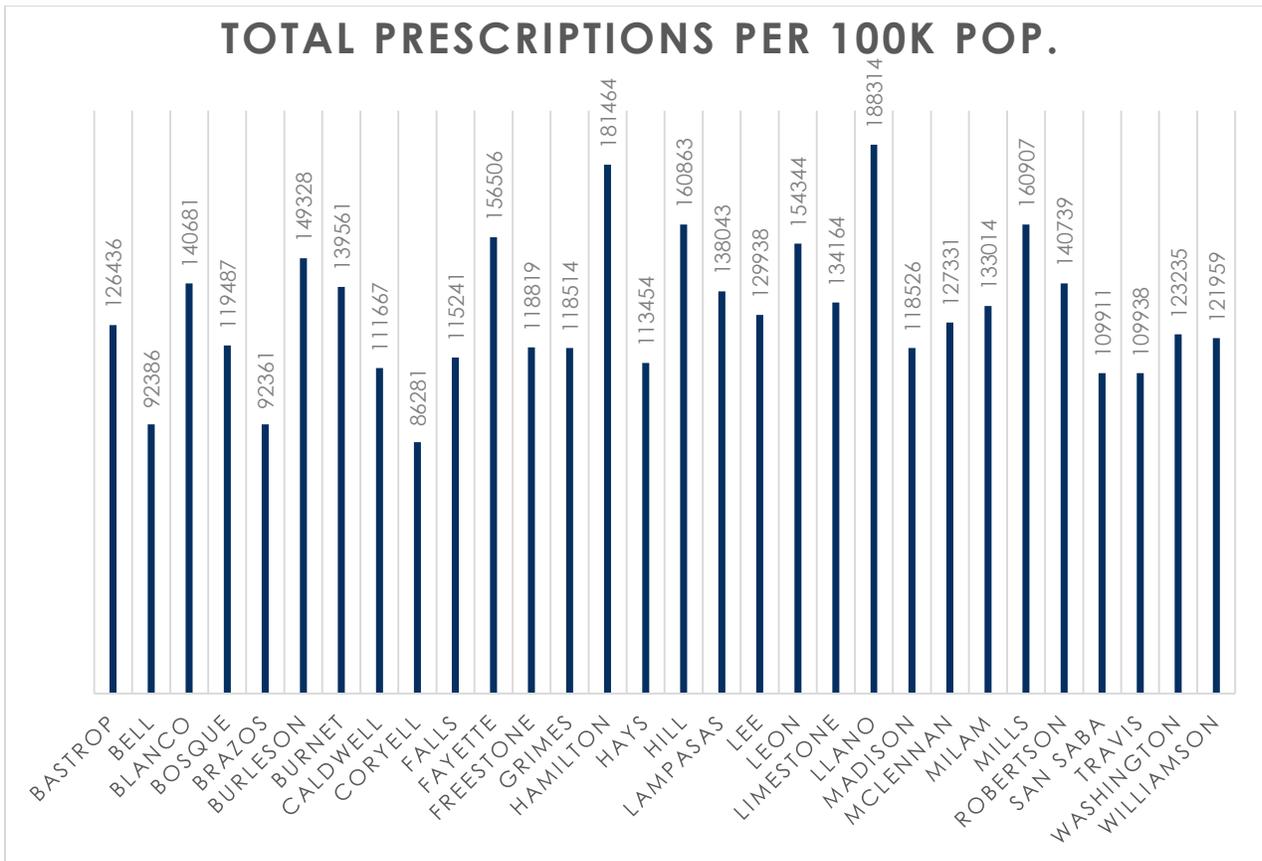
Prescription Drug Use, Grades 7-12		
Area	Current Use (past 30 days)	Lifetime Use (ever used)
Texas	7.3%	13.7%
Region 1 and 2	7.8%	15.4%
Region 3	6.4%	13.1%
Region 4	8.7%	14.6%
Region 5 and 6	7.7%	13.9%
Region 7 and 8	8.2%	14.6%
Region 9 and 10	7.6%	15.3%
Region 11	5.5%	11.0%

Source. 2014 Texas School Survey (q21d).

The state average percent of opioid Medicare claims to total claims for Texas is 5.79 and for region 7 it was 5.53. The county that had the highest percent in region 7 was Robertson at 16.16%. The below figure shows the top 5 highest in region 7.

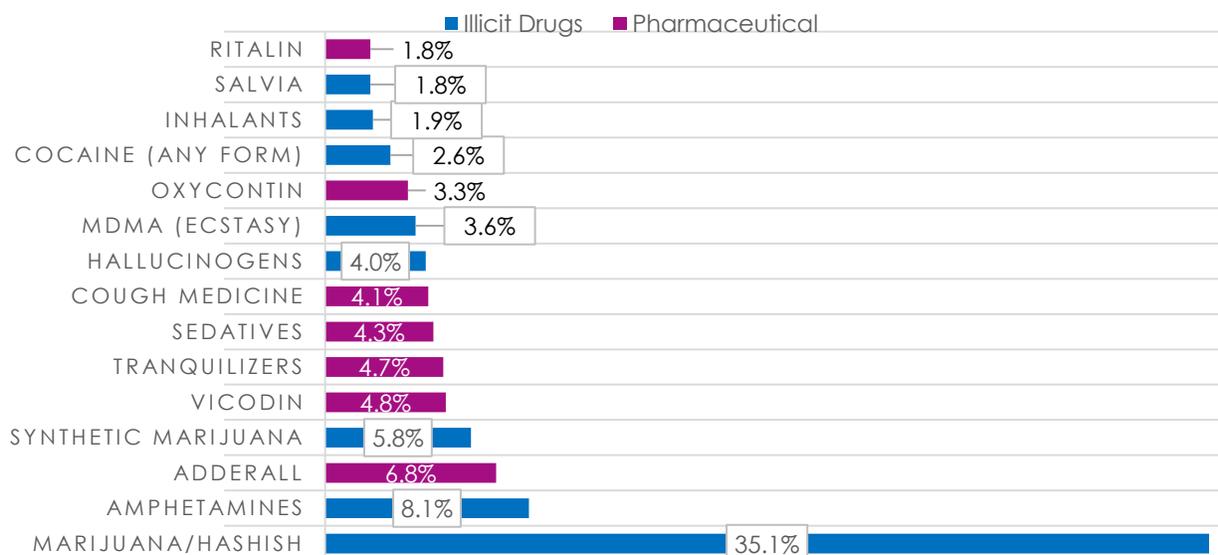


The figure below show the total number of prescriptions per 100,000 people.



Additional Data

PERCENT OF PAST-YEAR USE OF VARIOUS DRUGS AMONG 12TH GRADERS



Source. University of Michigan, 2014 Monitoring the Future Study

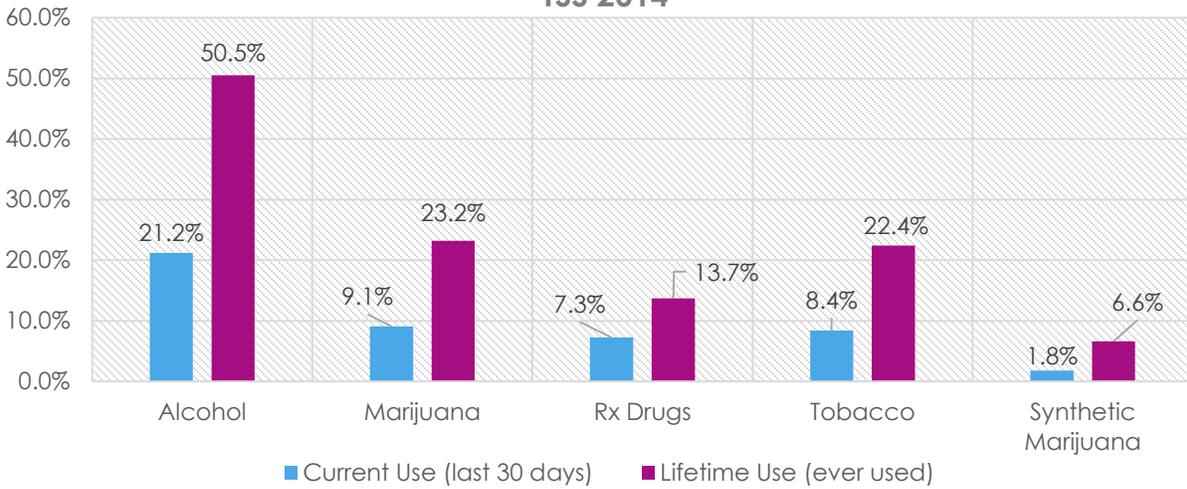
Emerging Trends

The description of emerging trends is guided by the following tables and figures describing substance use in Texas. Alcohol use among adolescents is still the number one concern. The second concern is marijuana use. Sporadic in use, the use of synthetic marijuana tends to make headlines during spring and summer. Also, related to marijuana use, the perceived risk of harm has steadily declined.

Texas Substance Comparison, Grades 7-12		
Substance	Current Use (last 30 days)	Lifetime Use (ever used)
Alcohol	21.2%	50.5%
Marijuana	9.1%	23.2%
Prescription Drugs	7.3%	13.7%
Synthetic Marijuana	1.8%	6.6%
Tobacco	8.4%	22.4%

Source. 2014 Texas School Survey.

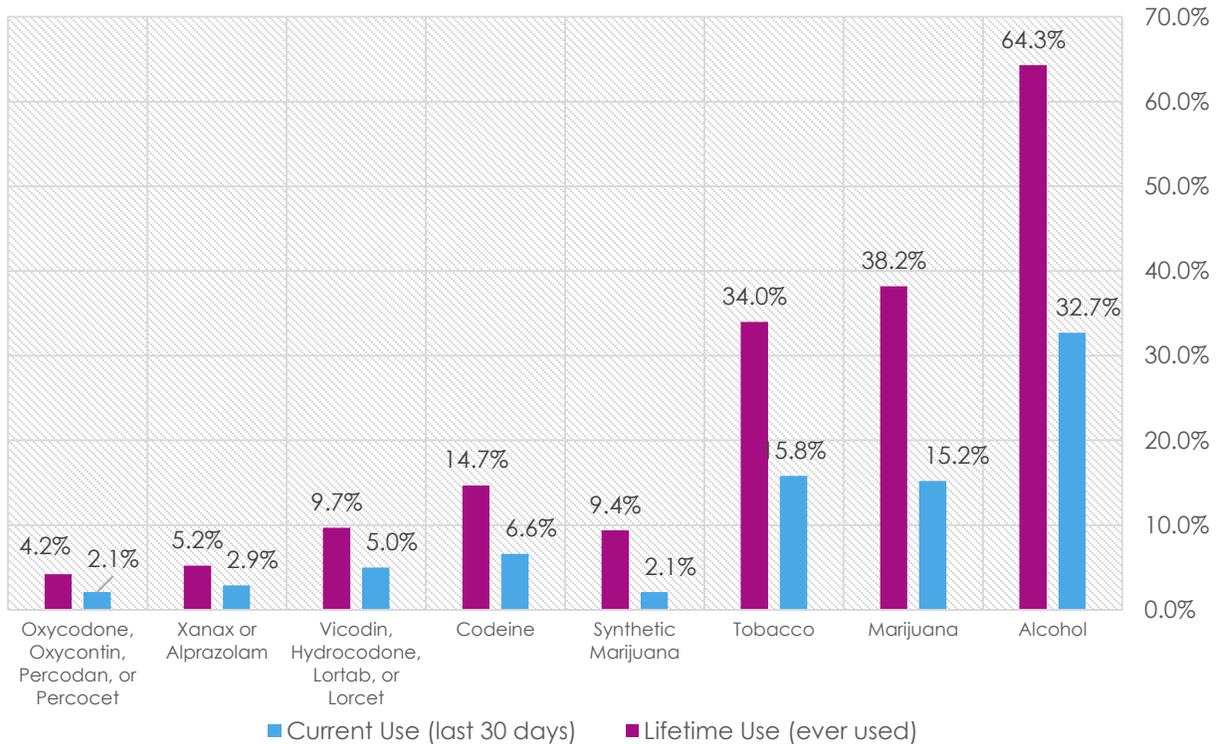
**Substance Comparison, Texas, Grades 7-12
TSS 2014**



Texas Substance Comparison, Grade 12		
Substance	Current Use (last 30 days)	Lifetime Use (ever used)
Alcohol	32.7%	64.3%
Marijuana	15.2%	38.2%
Synthetic Marijuana	2.1%	9.4%
Tobacco	15.8%	34.0%
Codeine	6.6%	14.7%
Vicodin, Hydrocodone, Lortab, or Lorcet	5.0%	9.7%
Xanax or Alprazolam	2.9%	5.2%
Oxycodone, Oxycontin, Percodan, or Percocet	2.1%	4.2%

Source. 2014 Texas School Survey.

**Texas Substance Comparison, Grade 12
TSS 2014**



Synthetic Cannabinoids

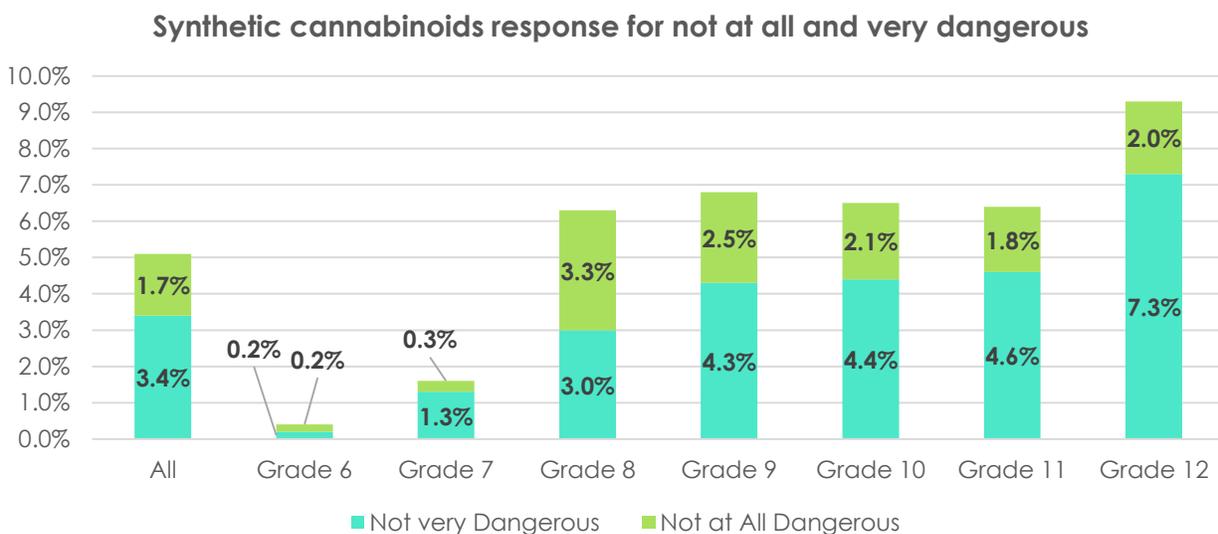
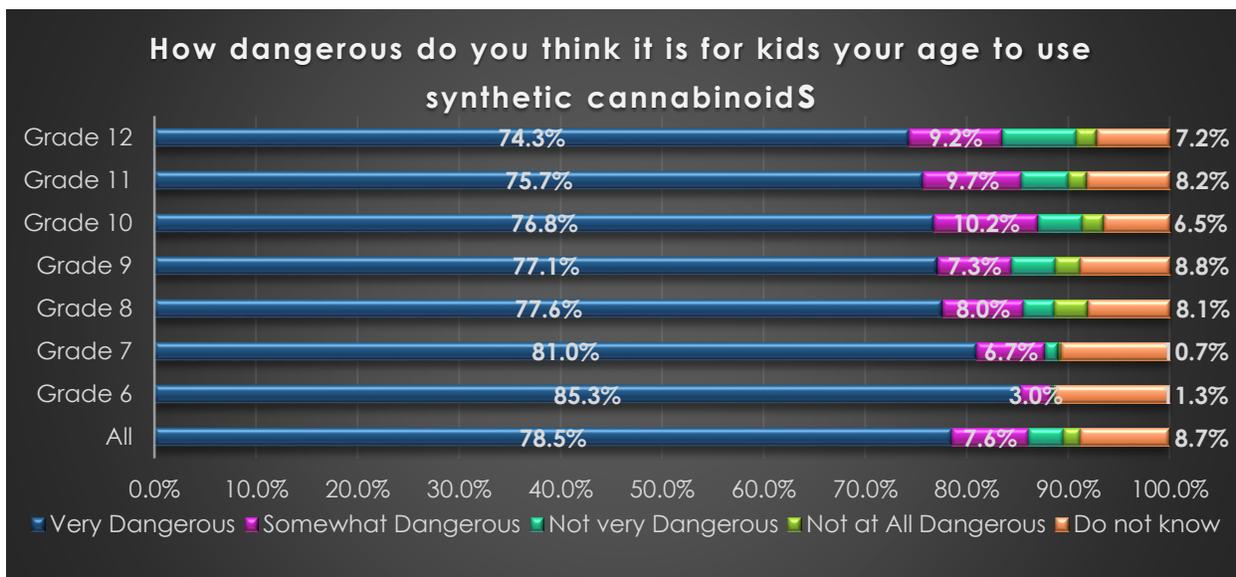
In Region 7, use of synthetic marijuana has been sporadic and inconsistent. Below are a series of figures describing use of synthetic cannabinoids by adolescents.

Synthetic Marijuana Consumption, Grades 6-12				
Area	Current Use, All Grades	Lifetime Use, All Grades	Current Use, Grade 12	Lifetime Use, Grade 12
Texas	1.8%	6.6%	2.1%	9.4%*
Region 1 and 2	1.5%	7.3%	3.0%	13.2%
Region 3	1.1%	3.8%	1.1%	6.4%*
Region 4	1.3%	6.9%	1.4%	12.1%*
Region 5 and 6	1.8%	6.3%	2.0%	9.5%*
Region 7 and 8	1.3%	5.5%	2.9%	9.4%
Region 9 and 10	2.3%	7.9%	3.5%	15.4%
Region 11	2.5%	7.6%	2.6%	10.5%*

Source. 2014 Texas School Survey (tD-1). * = Use 10th and 11th grade is equal to or grader than 12th grade.

Synthetic Marijuana Initiation, Grades 6-12		
Area	Age of Initiation	Early Initiation (<13)
Texas	14.2	14.7%
Region 1 and 2	14.2	11.6%
Region 3	14.1	15.7%
Region 4	14.5	9.8%
Region 5 and 6	14.2	14.9%
Region 7 and 8	14.2	18.3%
Region 9 and 10	14.0	16.5%
Region 11	14.1	18.9%

Source. 2014 Texas School Survey (q21L).



Synthetic Cathinoids

Bath salts were more prevalent in 2011. As recorded by the Texas Poison Center Network the number of bath salt cases have declined in Region 7. From the table that follows, only 11 counties in Region 7 had cases of synthetic cathinoids. An observable improvement is the decline in bath salt exposures in Travis County.

County	2010	2011	2012	2013	2014
Bastrop		1			
Bell	2	9	1	1	
Brazos				1	
Burleson		3		1	
Burnet		1			
Hays		1	1	1	
McLennan		2			
Milam					1
Travis		14	4	4	
Washington			1	1	
Williamson	2	2	4		
Total	4	33	11	9	1

Source. Annual number of synthetic cathinone (bath salts) exposures reported to the Texas Poison Center Network during 1/1/2010 to 11/30/2014. Counties not present did not have any reported.

BHO “Dabbing” and Consumables

Butane hash oil (BHO) or honey oil is a more condensed version of THC (component of marijuana providing the high) use. The practice of cooking BHO has led to individuals blowing up their homes and injuring themselves and those in proximity. BHO “dabbing” and consumables need marijuana and the table below provides an idea of possible BHO in Region 7.

Description	Solid Pounds	Solid Ounces	Solid Grams	Liquid Ounces	Dose Units	Items
Marijuana(Packaged)	166365	234	0	0	0	0
Hashish(Liquid Oil)	0	0	0	27	0	0
Hashish(Solid)	69	29	100	0	0	0
Total	166434	263	100	27	0	0

Source. 2013 Texas DPS Drug Seizures

E-Cigarettes/Vaping

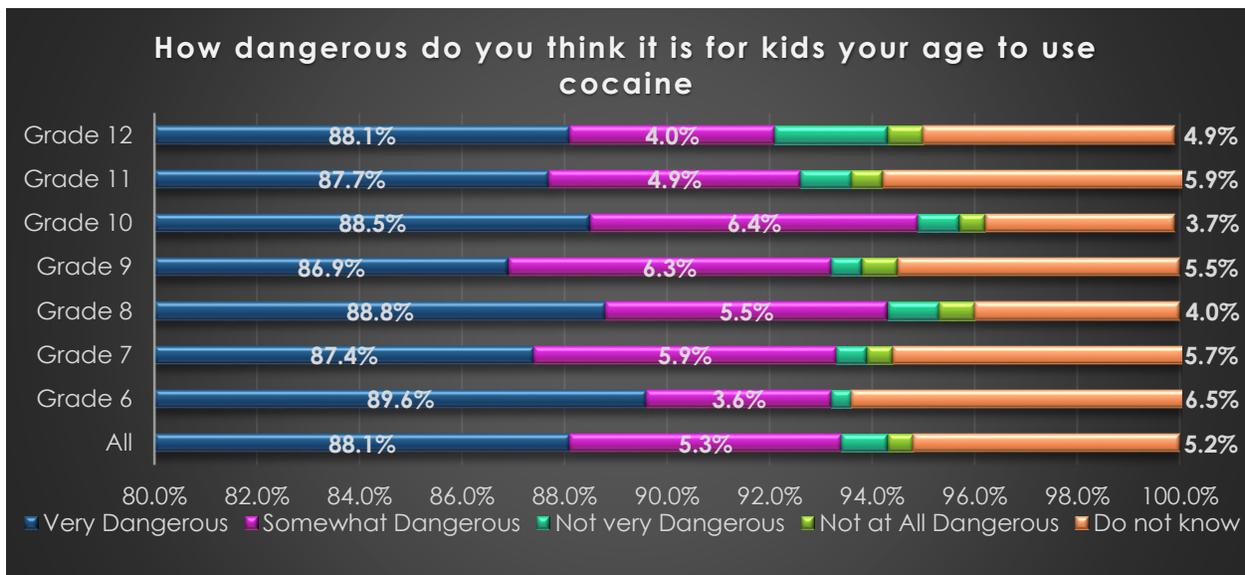
The use of e-cigarettes (e-cigs) is a new trend. In the table below, the Texas Poison Center Network (TPCN) received reports on electronic cigarette exposures from 2009-2014. Counties missing from the list in Region 7 are counties where no calls exist. From 2013 to 2014, the amount of e-cigs exposure increased by a multiple of 3 – an incredible jump in exposure among 14 counties in Region 7.

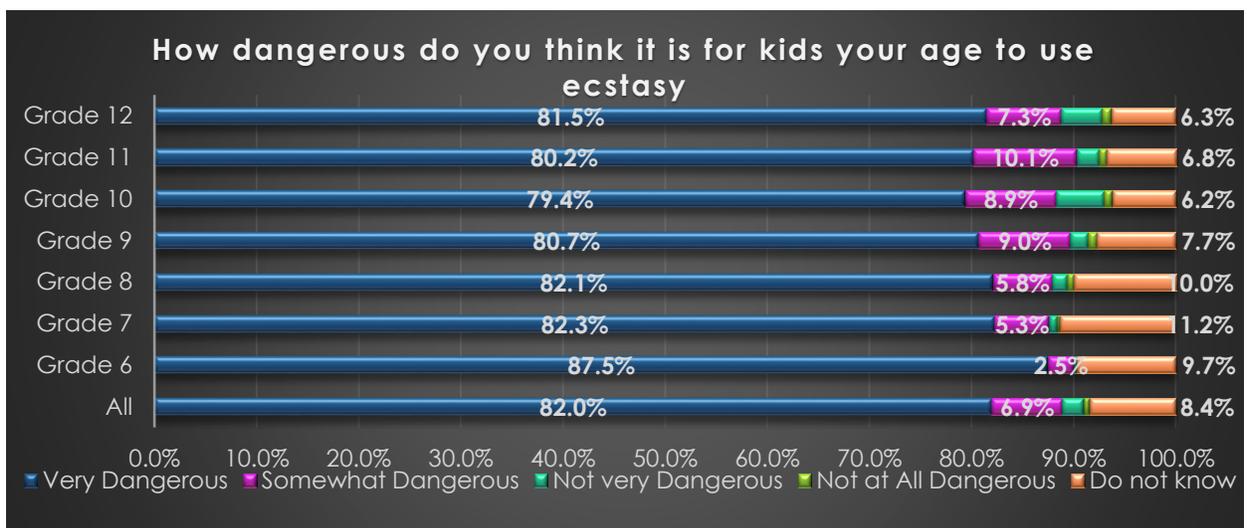
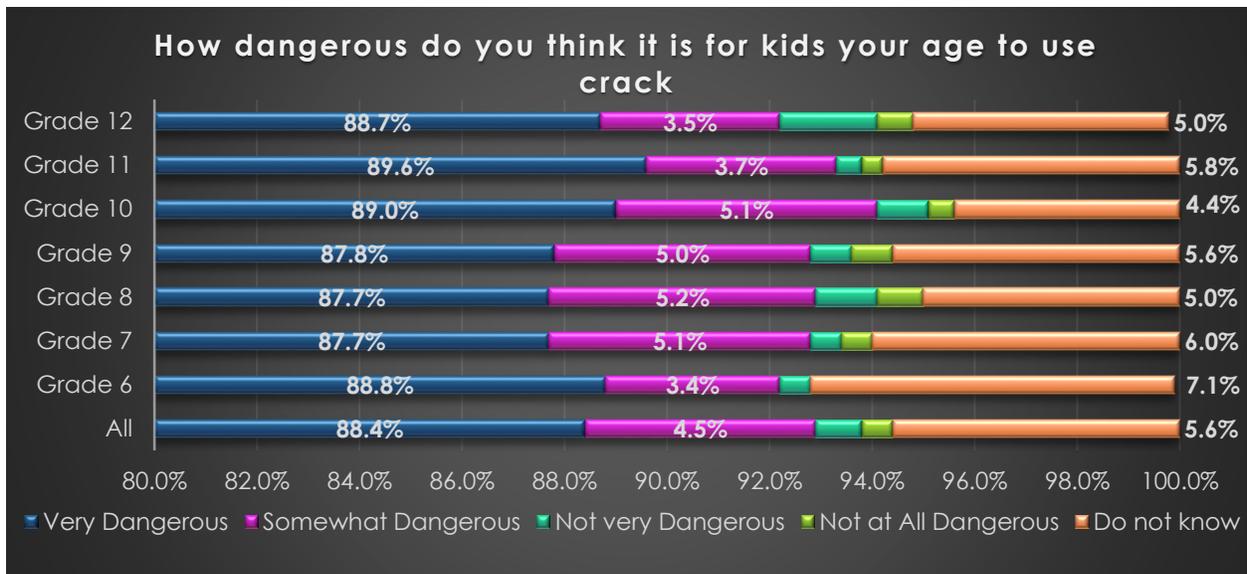
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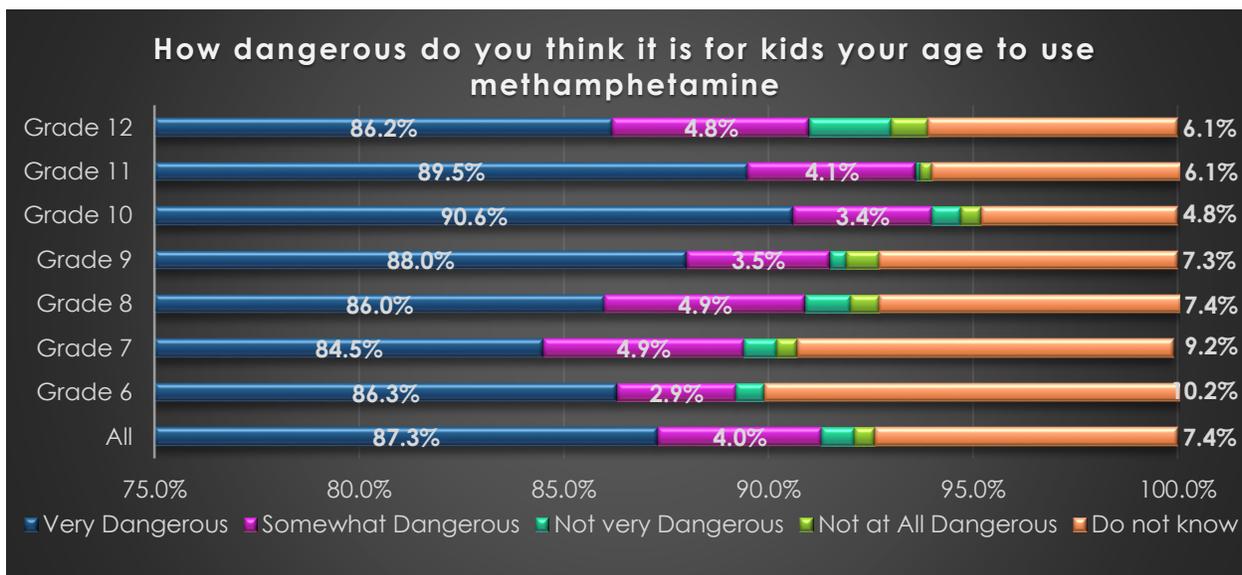
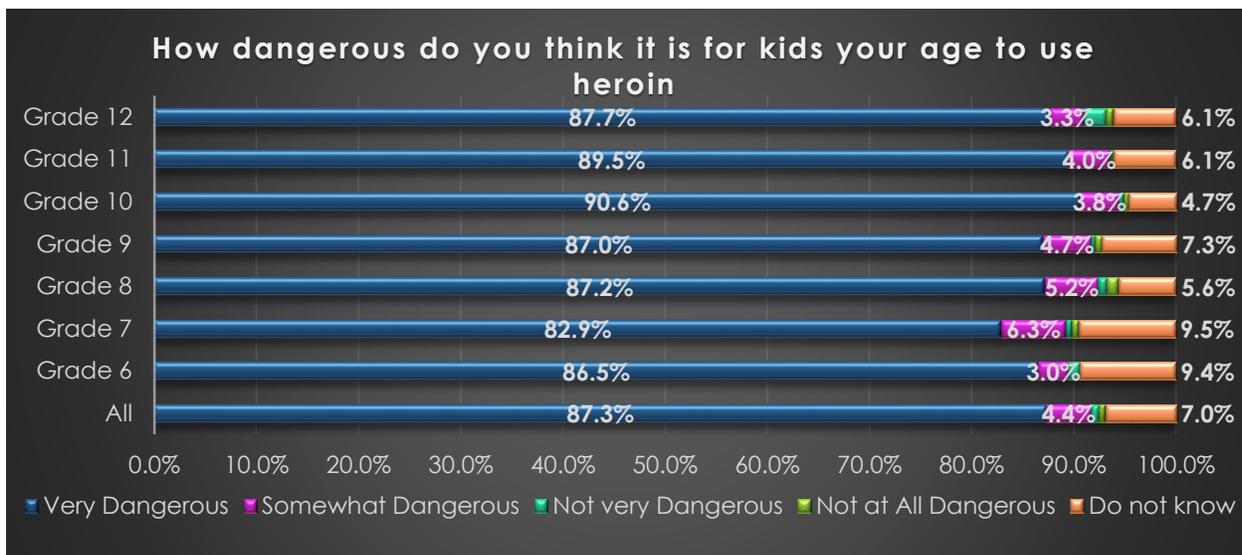
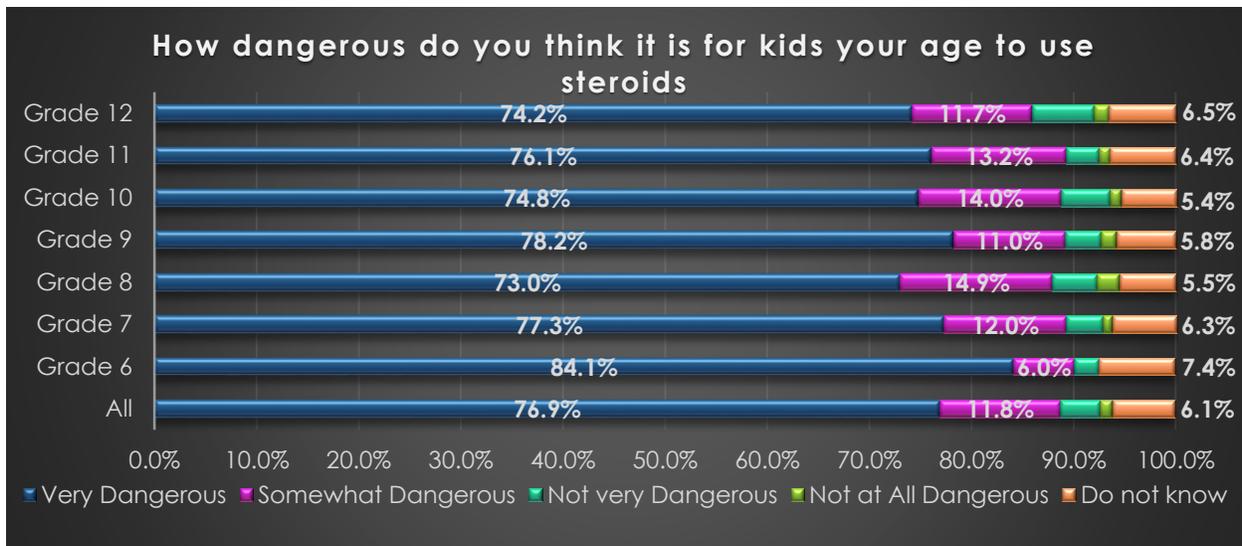
County	2010	2011	2012	2013	2014
Bastrop					2
Bell			1		4
Bosque				1	
Brazos		1			2
Burnet					2
Coryell				2	2
Hays				1	1
Hill					1
Madison					1
McLennan					4
Milam					1
Travis			3	6	13
Washington					1
Williamson			1	4	7
Total	0	1	5	14	41

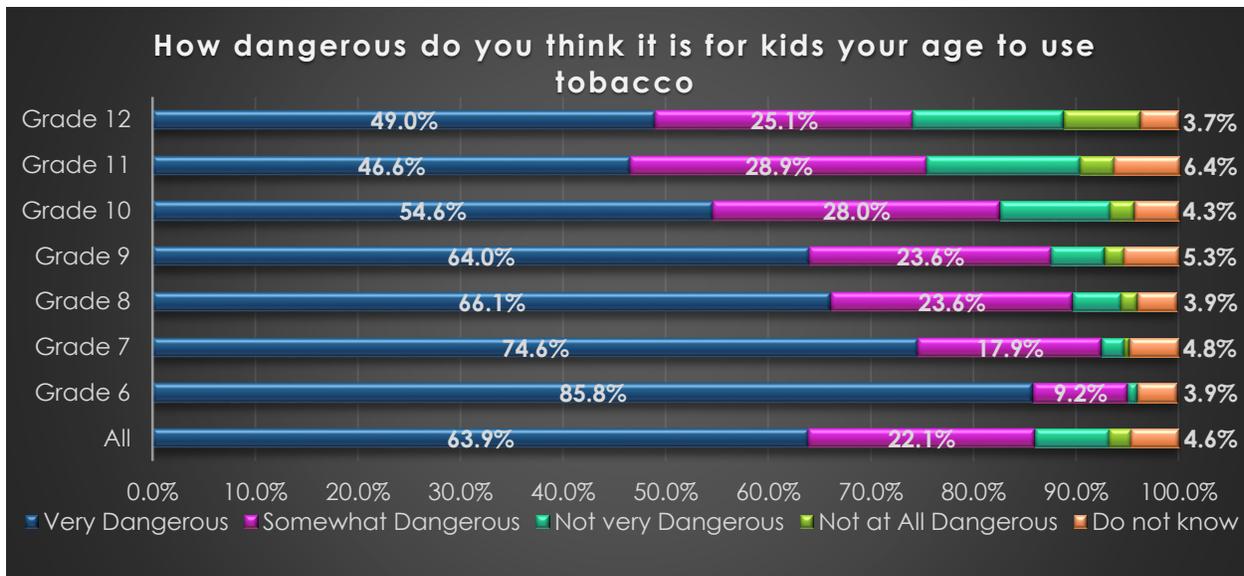
Other Substances

Taken from the Texas School Survey (TSS), how students felt about the following drugs helped to describe their thoughts.









Tobacco Consumption, Grades 6-12				
Area	Current Use, All Grades	Lifetime Use, All Grades	Current Use, Grade 12	Lifetime Use, Grade 12
Texas	8.4%	22.4%	15.8%	34.0%
Region 1 and 2	11.6%	28.6%	21.5%	49.6%
Region 3	6.2%	16.3%	14.6%	28.2%
Region 4	9.5%	25.3%	19.0%	41.5%
Region 5 and 6	7.0%	20.4%	14.9%	32.5%
Region 7 and 8	7.4%	19.4%	15.3%	32.5%
Region 9 and 10	9.4%	24.5%	20.3%	47.5%
Region 11	7.4%	19.8%	15.5%	37.5%

Source. 2014 Texas School Survey (tT-1).

Tobacco Initiation, Grades 6-12		
Area	Age of Initiation	Early Initiation (<13)
Texas	13.3	33.7%
Region 1 and 2	12.9	39.6%
Region 3	13.6	30.5%
Region 4	12.7	41.4%
Region 5 and 6	13.1	36.3%
Region 7 and 8	13.2	35.7%
Region 9 and 10	13.1	37.7%
Region 11	13.5	32.6%

Source. 2014 Texas School Survey (q21a).

Consequences

Overview of Consequences

Several consequences are associated with alcohol and drug use, including; death, incarceration, hospitalization, and lower SES status. Below is an attempt to describe consequences as a result of alcohol and substance abuse.

Mortality

Overdose Deaths

From the Texas Poison Center Network during 2010-2014 8 individuals died from synthetic cannabinoids and cathinones (see below table).

Medical outcome	Synthetic cannabinoid	%	Synthetic cathinone	%
No effect	151	5.4	21	3.5
Minor effect	615	22.0	78	13.0
Moderate effect	1146	41.0	290	48.3
Major effect	220	7.9	70	11.7
Death	4	0.1	4	0.7

Drug and Alcohol Related Fatalities

In the table below, Llano is observed to have the highest rate of death from alcohol and drug (UCD, 1999-2013).

County	Deaths	Population	Age-Adjusted Rate
Bastrop	178	1026127	16.51
Bell	451	4178664	12.18
Blanco	29	144829	15.96
Bosque	52	267123	18.5
Brazos	248	2644458	13.01
Burleson	36	253939	13.91
Burnet	112	597656	17.28
Caldwell	76	543379	14.23
Coryell	92	1112462	10.2
Falls	37	269690	13.7
Fayette	37	353099	9.81
Freestone	24	284295	8.12
Grimes	74	382952	17.73
Hamilton	13	124729	Unreliable
Hays	269	2007766	14.74
Hill	86	511348	16.83
Lampasas	37	287247	12.23
Lee	32	244407	12.52
Leon	44	242948	16.36
Limestone	50	343506	13.77
Llano	86	276380	29.88

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County	Deaths	Population	Age-Adjusted Rate
Madison	24	199753	12.72
McLennan	506	3385193	15.91
Milam	62	370596	16.03
Mills	Suppressed	73943	Suppressed
Robertson	41	245643	16.72
San Saba	13	90697	Unreliable
Travis	2519	14083823	18.67
Washington	64	482420	12.22
Williamson	594	5329861	11.53

Rural counties display (in the table below) higher DUI fatality rates. For example, Blanco (16.81), San Saba (16.28), and Fayette (15.29) are counties with higher DUI fatality rates. Looking into the crash rate, we observe that counties Blanco (218.56), Burleson (194.84), and Llano (155.01) are greater in rate. Of the two rates, Blanco appears twice and would be an area of interest for improvement.

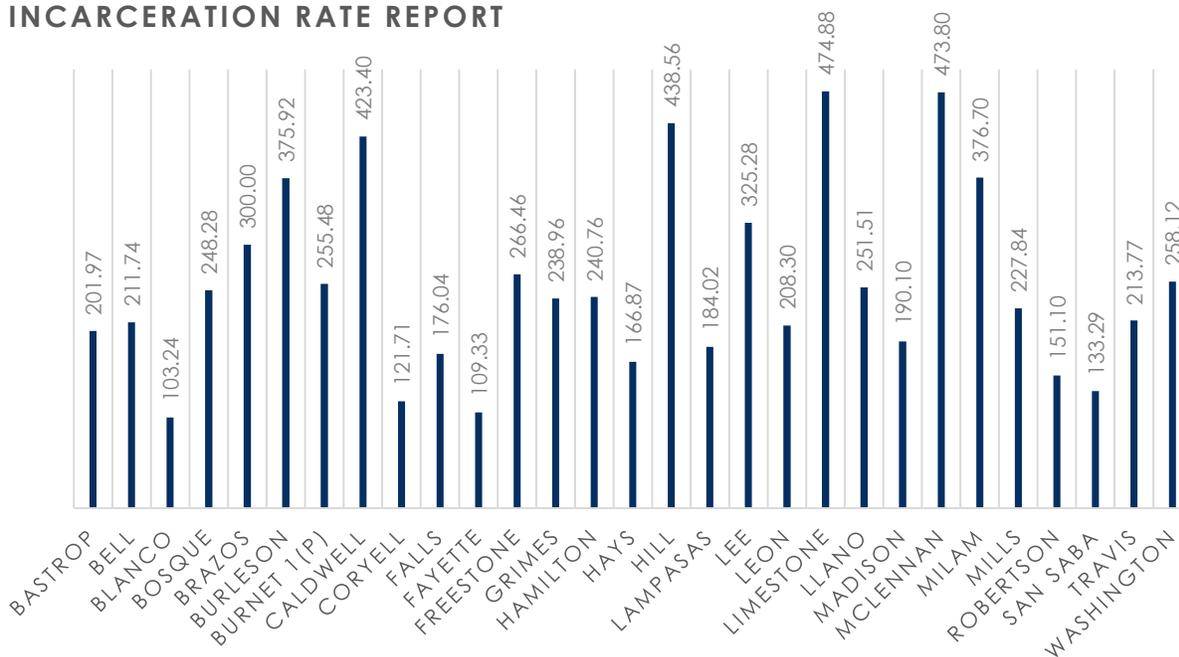
County	County Population 2010-14	Total DUI Crashes, 2010-14	Total DUI Fatalities, 2010-14	DUI Crash Rate per 100K, 2010-14	DUI Fatality Rate per 100K, 2010-14
Bastrop	383785	353	25	91.98	6.51
Bell	1613971	1504	67	93.19	4.15
Blanco	53531	117	9	218.56	16.81
Bosque	92050	90	8	97.77	8.69
Brazos	1003418	1093	16	108.93	1.59
Burleson	87249	170	10	194.84	11.46
Burnet	218396	306	16	140.11	7.33
Caldwell	196214	272	22	138.62	11.21
Coryell	387292	290	13	74.88	3.36
Falls	90339	79	5	87.45	5.53
Fayette	124224	157	19	126.38	15.29
Freestone	100463	145	3	144.33	2.99
Grimes	135698	202	10	148.86	7.37
Hamilton	42578	35	1	82.2	2.35
Hays	836521	1083	28	129.46	3.35
Hill	178140	207	18	116.2	10.1
Lampasas	100364	91	0	90.67	0
Lee	84402	119	9	140.99	10.66
Leon	85411	103	10	120.59	11.71
Limestone	118685	135	8	113.75	6.74
Llano	96770	150	8	155.01	8.27
Madison	69464	65	6	93.57	8.64
McLennan	1190932	1478	63	124.1	5.29

County	County Population 2010-14	Total DUI Crashes, 2010-14	Total DUI Fatalities, 2010-14	DUI Crash Rate per 100K, 2010-14	DUI Fatality Rate per 100K, 2010-14
Milam	125127	183	10	146.25	7.99
Mills	24691	25	3	101.25	12.15
Robertson	84736	127	13	149.88	15.34
San Saba	30721	36	5	117.18	16.28
Travis	5296170	7387	169	139.48	3.19
Washington	170746	222	10	130.02	5.86
Williamson	2221217	1285	57	57.85	2.57

Legal Consequences

For legal consequences, the incarceration rate for offenders is highest among the following counties: Limestone (474.88), McLennan (473.80), and Hill (438.56). The rates presented here come from the Texas Commission on Jail Standards, Incarceration rate report for March 2014 to February 2015. Also, the rates are based on 100,000 population amounts. The incarceration rate report provides a general estimate.

INCARCERATION RATE REPORT



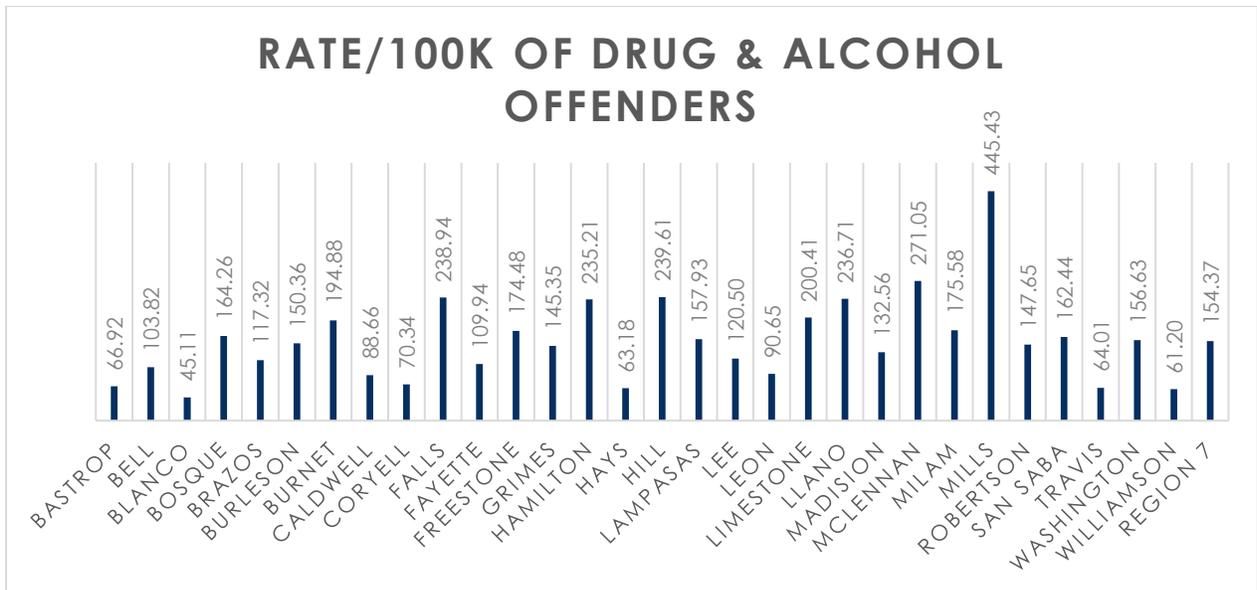
The table below shows the Region 7 case dispositions for drug related arrests.

County	Drug Crime Disposition	County	Drug Crime Disposition
Bastrop	2746	Lampasas	1591
Bell	13147	Lee	884
Blanco	240	Leon	1034
Bosque	944	Limestone	1553
Brazos	11635	Llano	1233
Burleson	1660	Madison	313

Burnet	1164	McLennan	13720
Caldwell	2665	Milam	1012
Coryell	2766	Mills	1341
Falls	1198	Robertson	637
Fayette	1141	San Saba	100
Freestone	814	Travis	81710
Grimes	640	Washington	2792
Hamilton	213	Williamson	22737
Hays	8573	Region 7	183330
Hill	3127		

Substance Use Criminal Charges

Listed below are the number of inmates serving alcohol and drug sentences divided by the population, and then multiplied by 100,000. The formulaic approach paints the picture that the highest rates occurs in Mills County (445.34). Next, we observe that McLennan County (271.05) and Llano (236.71) have the second and third highest rates for criminals serving alcohol and drug sentences. The three counties show inmates are placed or found in rural counties. This indicates monitoring of rural counties and the flow of drugs into urban counties should be considered.



Hospitalization and Treatment

Hospital Use due to AOD

In Region 7, there were 177 AOD discharges. This resulted in a mean cost of \$33,082 (MONAHRQ 2012 data). If we multiple the number of discharges by the mean cost we get a total of \$5,855,496.52. However, there are significant costs in several counties: Bell (\$15,334; 28 discharges), Brazos (\$21,087; 6 discharges), Coryell (\$40,297; 10 discharges), McLennan (\$23,233; 14 discharges), Travis (\$39,779; 78 discharges), and Williamson (\$37,400; 26 discharges). For other counties in Region 7, their data has been suppressed because for 5 discharges or less the data is protected.

Adolescent AOD-related ER Admits

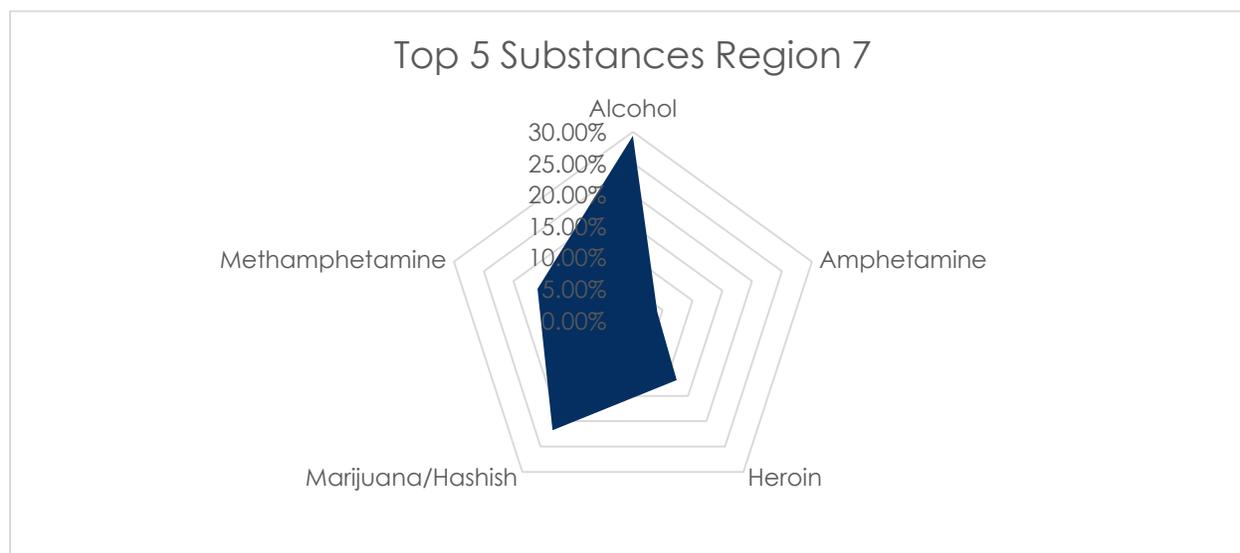
ER numbers were not determined. However, health professional express that they usually help with any bodily injury and do not necessary address substance use. As a result, a repeat substance abuser would keep coming to the ER if sustaining bodily injury.

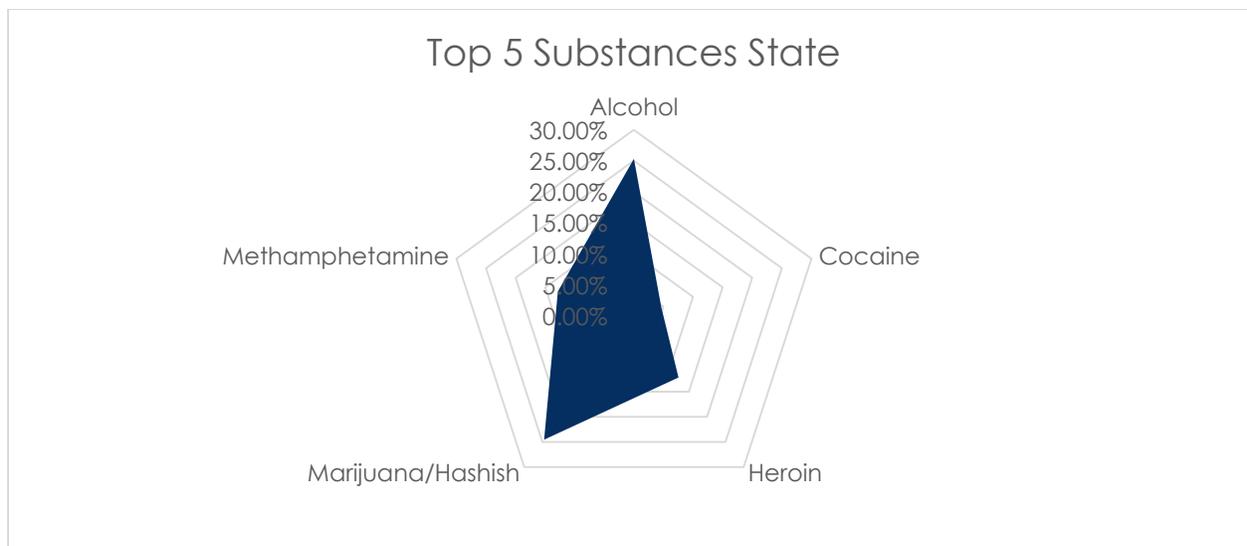
In Region 7, there were 196 cases of synthetic cannabinoid use. This represented a 7.4% regional use compared to the rest of the State. Region 7 had the fifth highest synthetic cannabinoid use in the State with a rate per 100,000 of 6.65. Also, data from the Texas Poison Center Network (TPCN), 2009-2014 indicates that 8 individuals died from synthetic cannabinoid and synthetic cathinone exposures. For synthetic cathinone use, Region 7 had 58 cases. This total made up 9.9% use of total State percentages; Region 7 had the fourth highest percentage in synthetic cathinone use.

Medical outcome	Synthetic cannabinoid	%	Synthetic cathinone	%
No effect	151	5.4	21	3.5
Minor effect	615	22.0	78	13.0
Moderate effect	1146	41.0	290	48.3
Major effect	220	7.9	70	11.7
Death	4	0.1	4	0.7
Not followed, judged as nontoxic exposure (clinical effects not expected)	1	0.0	1	0.2
Not followed, minimal clinical effects possible (no more than minor effect possible)	171	6.1	24	4.0
Unable to follow, judged as a potentially toxic exposure	452	16.2	102	17.0
Unrelated effect, the exposure was probably not responsible for the effect(s)	32	1.1	10	1.7
Total	2792		600	

Substance Abuse Treatment

In Region 7 518 adolescents (12-17) received DSHS treatment and 3,687 adults (18+). The majority of treatment in region 7 was for alcohol (1234 people) and marijuana use (916 people) followed by methamphetamine (672 people) and Heroin (500 people). Region 7 had slightly higher rates of individuals seeking alcohol and methamphetamine while the state had slightly higher rates for amphetamine and marijuana.





Economic Impacts

Underage Drinking/Drug Use

Problems related to the misuse of alcohol can cost the United States \$223.5 billion with \$18.82 billion of that coming from Texas (\$14.97 billion of that is attributed to binge drinking). That is \$1.99 per drink and \$748 per person in Texas. The Centers for Disease Control and Prevention has determined that almost three-quarters of the total cost for alcohol abuse is tied to binge drinking [2].

Average Cost of Treatment in Region

The average cost of treatment in Region 7 varies and are subject to change over time. However, some examples in the region include the following: Austin Recovery (Austin, TX)-\$8,850 per month; Burning Tree (Kaufman and Elgin, TX)-\$33,000 for a 3 month stay [3]; Christian Farms Treehouse Inc (Temple, TX)-intensive treatment for \$4,500 per month and supportive treatment for \$3,000 per month. For more precise estimates, evaluators need additional information.

Employability and College Admissions

Two very effective means for encouraging adolescents and youth to stay away from alcohol and drugs is employment and college admissions. Today's young people are concerned about getting a job or going to college. In Region 7 a media effort was used to address these two concerns. Current estimates indicate 3 out of 5 businesses drug test employees; we know marijuana remains in the human system for long periods of time. Therefore, the notion of not keeping or not receiving employment because of drug use connects with people. Most of the media efforts were concentrated in Greater Austin and the Brazos Valley.

Environmental Protective Factors

Overview of Protective Factors

Protective factors range in several different categories. In this section, the attempt is to begin identifying the protective factors by choosing apparent contributors.

Community Domain

The use of coalitions is the current method for reaching into communities to address issues of substance abuse. Alcohol and drugs are present everywhere and each community must be transparent in making issues of substance abuse known to all members of the community. Currently, there are 39 DSHS-funded coalitions in Texas. Of these 39 coalitions, 4 operate in Region 7. The presence of these coalitions serve as proactive factors in helping adolescents remain drug free.

Community Coalitions

In Region 7, according to Coalitions Texas, four DSHS-funded coalitions currently operate. These coalitions include the Voice Against Substance Abuse Coalition in Waco; the Community Alcohol and Substance Awareness Partnership (CASAP) in Bryan; the Hearne Zero Tolerance Youth Coalition in Hearne; and the LifeSteps Substance Abuse Prevention Coalition in Round Rock.

Regional Coalitions

A fifth coalition working in Region 7 is the Robertson County Community Coalition (RCCC). This coalition is financially supported through a drug free communities grant and works in partnership with the Hearne Zero Tolerance Youth Coalition. Together, both coalitions work with partners in Robertson County to address issues of alcohol abuse and drug use in the community.

Also, noteworthy, are the efforts of Texans Standing Tall (TST). This coalition is known for being leaders in producing reports and generating activities for awareness concerning underage drinking. One such report describes how the increase of an alcohol tax by 10 cents can dramatically change the health and economic status of residents in Texas. This coalition, however, is expanding to address state wide issues related to the dangers of substance abuse.

A final coalition of note is the Hays Caldwell Council on Alcohol and Substance Abuse. This coalition is involved in education and advocacy for better conditions free of substance abuse concerns is inspiring. They are well informed on their communities and knowledgeable about specific substance abuse struggle is present.

Treatment/Intervention Providers

Substance abuse and mental health treatment providers are centered in San Marcos, Austin, Georgetown, Belton, Waco, and Bryan/College Station. Most service providers are located in Austin. There are a few mental health providers located in areas such as Caldwell, Cameron, Hearne, Navasota, Killeen, Lampasas, Hamilton, and Liberty Hill counties. BVCASA (which serves Brazos, Burleson, Grimes, Leon, Madison, Robertson, and Washington counties) has adult and adolescent outpatient treatment services and has the pregnant-postpartum intervention providing intervention and HIV/AIDS services.

Organization	Services	Counties Served
MHMR authority of the Brazos Valley	<ul style="list-style-type: none"> • Veteran Services • Vocational Services for Disabled Individuals • Day Habilitation and Skill Building Services • Residential Services for Disabled Individuals • Health, Dental, and Nursing Services • Specialized Therapies (physical, occupational, etc...) 	<ul style="list-style-type: none"> • Brazos • Burleson • Grimes • Leon • Madison • Robertson • Washington

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	<ul style="list-style-type: none"> • Crisis services • Intake • Individual, Group, and Family Counseling • Skills training • Parent Support Groups • Psychiatric Evaluation, Medication Monitoring and Management • Patient and Family Education • Respite • Routine Case Management • Intensive Case Management with Wraparound Planning • Peer Support Services • Psychosocial Rehabilitation Services • Diagnostic Assessment 	
<p>Heart of Texas Region MHMR Center</p>	<ul style="list-style-type: none"> • Early Childhood Interventions • Veterans Services • Intellectual/Developmental Disabilities Services • Child/Adolescent Mental Health Services • Crisis Treatment Center • Mental Health Admissions • Crisis Hotline • Inpatient Psychiatric Hospitalization • Mobile Crisis Outreach Teams • Mental Health Case Management • Psychiatric Services • Rehabilitation/Counseling • Medication Coordination • Assertive Community Treatment • Independence Center • Mexia Peer Support Center • Supported Housing • Supported Employment Texas Correctional Office on Offenders with Medical or Mental Impairments (TCOOMMI) Services 	<ul style="list-style-type: none"> • Bosque • Falls • Freestone • Hill • Limestone • McLennan
<p>Central Counties Services</p>	<ul style="list-style-type: none"> • Crisis Hotline • Crisis Intervention • Screening • Intake • Routine Case Management • Skills Training • Psychiatric Services • Supported Employment • Supported housing • Counseling • Assertive Community Treatment (ACT) • Psychosocial Services 	<ul style="list-style-type: none"> • Bell • Coryell • Hamilton • Lampasas • Milam

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	<ul style="list-style-type: none"> • Respite • Day Programs • Children’s Mental health Services • YES Waiver • Early Childhood Intervention • Service Coordination • Behavior Supports • Home and Community Based Services • Day Habilitation • Veteran Services 	
<p>Bluebonnet Trails Community Services</p>	<ul style="list-style-type: none"> • Crisis Hotline • Psychiatric Services • Counseling • Case Management • Psychosocial Services • Supported Housing • Supported Employment • Peer Support • Respite • Mobile Crisis Outreach Team • Skills training • TCOOMMI Services • Referrals • Financial Support • Outreach-Screening-Assessment-Referral Services (OSAR) • Outpatient Services • Medical and Dental services • Peer Support Services • Veteran Services • Early Intervention for Babies and Toddlers • Early Childhood Intervention • Specialized Therapies (physical, occupational, etc...) • Community Supports 	<ul style="list-style-type: none"> • Bastrop • Burnet • Caldwell • Fayette • Gonzales • Guadalupe • Lee • Williamson
<p>Austin Travis County Integral Care</p>	<ul style="list-style-type: none"> • Crisis Hotline • Coommunity AIDS Resources and Education (C.A.R.E.) • E-Merge Program (behavioral health and integral care collaboration) • Jail Diversion Services • Substance Use Services • Integrated Care Clinics • Family Preservation Program • Early Childhood Intervention • First Steps Program (birth to age 3) Services • Intesnive Case Management • Juvenile Justice 	<ul style="list-style-type: none"> • Travis

2016 Regional Needs Assessment

	<ul style="list-style-type: none"> • Out-Patient Services • YES Waiver Medicaid program • Disability Employment Program • Individual Support Services for Disabled Individuals • Mental Health first Aid • Suicide Prevention • Tobacco Cessation Programs • Mobile Crisis Outreach • Psychiatric Services • Transitional Services 	
Center for Life Resources	<ul style="list-style-type: none"> • Crisis Hotline • Information & Referral • 24-Hour Crisis Services • Diagnostic Assessment • Symptom Management • Psychiatric Services • Client & Family Mental Health Education • Service Coordination • Community Living & Problem Solving Skills • Respite • Housing Assistance • Vocational Training & Employment Assistance • Family Support Services • Autism Services and Support Group • Case Management and Treatment Planning • Skills Training • Family Partner Support • Inpatient services • Wraparound Planning • Counseling • Nurturing Parenting Skills Training • School-Based Services • Nursing • Day Habilitation • Adaptive Aids • Residential Assistance • Supported Employment • Early Childhood Interventions • Inpatient and Outpatient Services • Veteran Services 	<ul style="list-style-type: none"> • Brown • Coleman • Comanche • Eastland • MucCulloch • Mills • San Saba
Hill Country Mental Health & Developmental Disabilities Centers	<ul style="list-style-type: none"> • Crisis Hotline • Skills training • Psychiatric Services • Peer Groups • Supported Employment • Supported Housing • Mental Health Crisis Support 	<ul style="list-style-type: none"> • Bandera • Blanco • Comal • Edwards • Gillespie • Hays • Kendall

	<ul style="list-style-type: none"> • Day Programs • Residential Services • Supported Home Living • Respite • Service Coordination • Vocational Services • Community Supports • Adult Outpatient Services • Ambulatory Detoxification Services • Early Childhood Intervention • Veteran Services • 1115 and YES waivers 	<ul style="list-style-type: none"> • Kerr • Kimble • Kinney • Llano • Mason • Medina • Menard • Real • Schleicher • Sutton • Uvalde • Val Verde
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Religion and Prevention

Although it’s powerful for youth to witness testimonies from their peers overcoming addictions, the data involved in such an occurrence lends itself to a rich qualitative nature. The transformative motivation and inspirational call to not get involved with drugs and alcohol after a testimony can have incredible influence over a community. Among religion options related to prevention is Celebrate Recovery, Alcoholics anonymous, Narcotics Anonymous, Al-Anon which aim to help with recovery and support. These organizations have several testimonies of being effective in helping those who are struggling with an addiction, yet clear numbers of how many individuals have recovered from an addiction and remain free from their addiction is not readily known.

School Domain

YP Programs

Agencies providing youth prevention (YP) programs are empowered with local coalitions and the prevention resource center. Considering all YPs, along with coalitions and the regional prevention resource center, there are 9 agencies that contribute to youth prevention. According to DSHS, the following agencies are funded in Region 7 and work in some capacity toward youth prevention, if not directly: (1) Austin-Travis County MHMR and Austin Travis County Integral Care, (2) Brazos Valley Council on Alcohol and Substance Abuse, (3) Connections Individual and Family Services Inc., (4) Hays Caldwell Council on Alcohol and Drug Abuse, (5) Phoenix Houses of Texas, Inc., (6) Viable Options in Community Endeavors, (7) Williamson Council on Alcohol and Drugs, dba LifeSteps, (8) Youth and Family Alliance, and (9) YWCA of Greater Austin. However, there are several noteworthy agencies working in Region 7, such as Texans Standing Tall and the Heart of Texas MHMR working to develop a Waco ROSC.

Students Receiving AOD Education in School

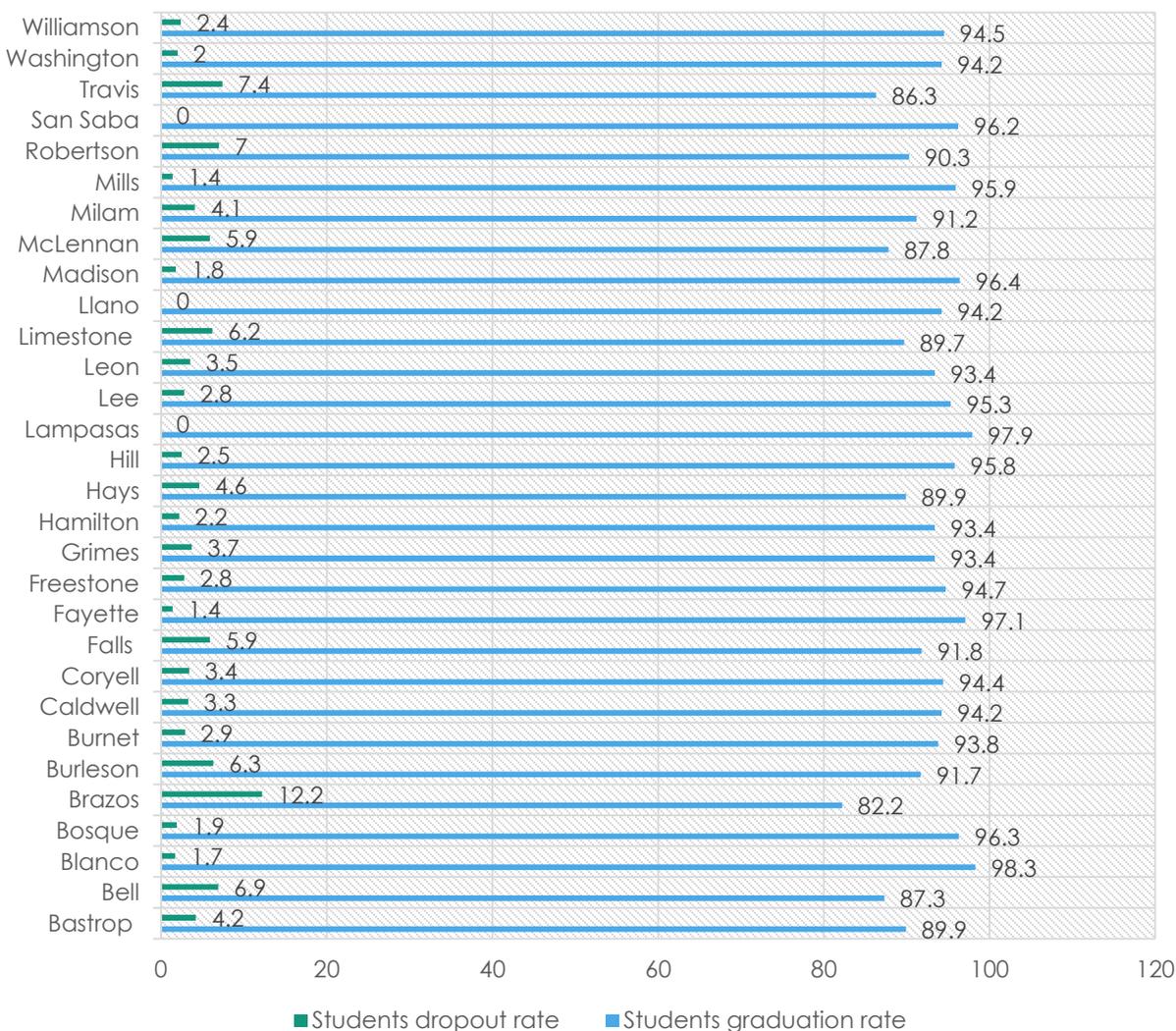
Although students across Texas and in Region 7 receive education about the dangers of alcohol and other drugs, complete data collection is still needed. From the Brazos Valley Council on Alcohol and Substance Abuse (BVCASA), 1310 students receive education about the danger of alcohol and other drugs. All of these students are from Education Service Center 6. Further data collection and inquiry is needed to identify more students receiving education.

Academic Achievement

In the figure below graduation rates are compared to dropout rates. Early in this report, we described the dropout rates and witnessed the highest dropout rate in Brazos County. Also, in the below figure, we see

the relationship between graduation and dropout rates since Brazos County has the lowest graduation rate. The highest graduation rates are in Blanco (98.3), Lampasas (97.9), and Fayette (97.1).

Graduation and Dropout Rates, 2013

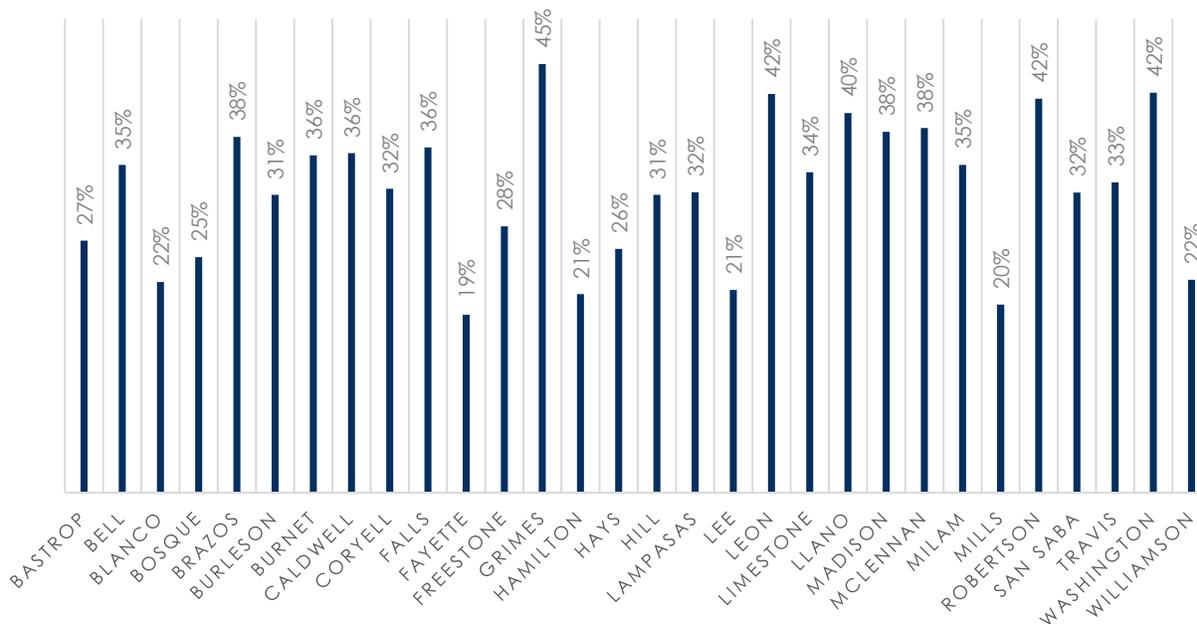


Family Domain

Parental/Social Support

According to a 2012 SAMHSA study [4], “more than 10 percent of U.S. children live with a parent with alcohol problems”. Additionally, 32% of children in Region 7 are in single-parent households. As a specific example, Grimes County leads all Region 7 counties in having the highest percentage (45%) of children living in single-parent households. In contrast, Fayette County has the lowest percentage of children living in single-parent households (19%).

PERCENT OF CHILDREN IN SINGLE-PARENT HOUSEHOLDS



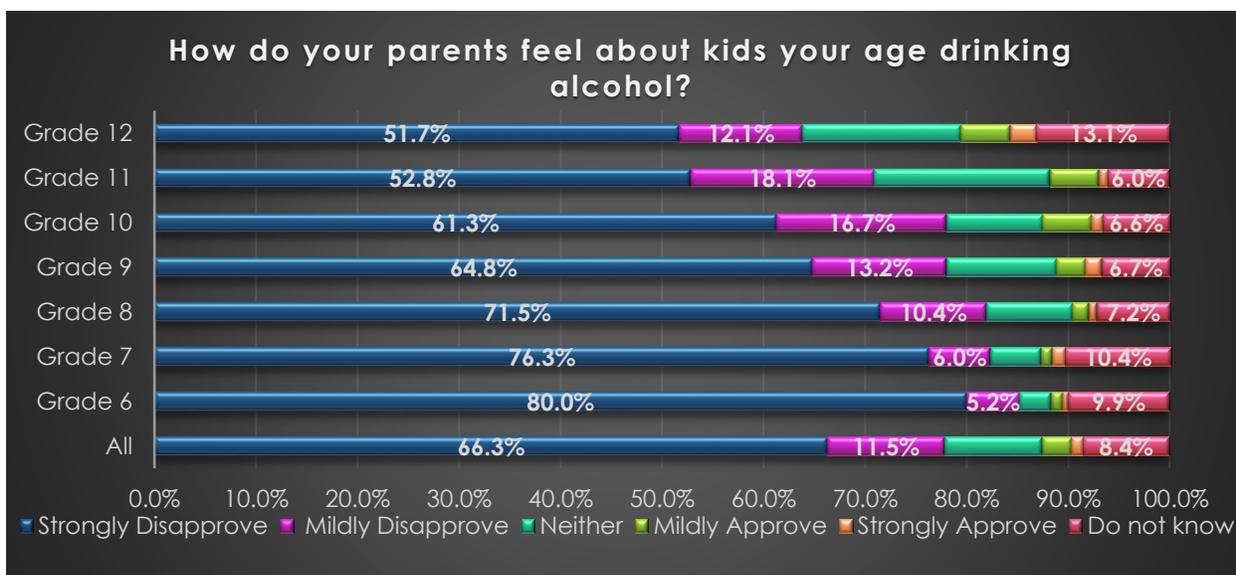
In terms of social support, members of Region 7 work to identify and support social associations in the region. Associations identified include civic organizations, bowling centers, golf clubs, fitness centers, sports organizations, religious organizations, political organizations, labor organizations, business organizations and professional organizations. We further identify social associations in terms of the number of associations per 10,000 residents as sourced from the North American Industry Classification System (2013). In Region 7, the association rate is 13.26 with comparative information indicating Williamson County having the lowest association rate (6.0) and Hamilton County having the highest rate (21.7).

Social Association Rates					
Area	Association Rate	Region 7 Counties	Association Rate	Region 7 Counties	Association Rate
Texas	7.8	Bastrop	9	Hill	11.5
Region 7	13.26	Bell	8.2	Lampasas	13.8
		Blanco	13.1	Lee	13.2
		Bosque	16.2	Leon	18.5
		Brazos	8.4	Limestone	11.1
		Burleson	14	Llano	14.9
		Burnet	13.2	Madison	10.2
		Caldwell	9.7	McLennan	12
		Coryell	7.3	Milam	17
		Falls	16	Mills	18.3
		Fayette	21	Robertson	16.4
		Freestone	13.2	San Saba	18.3
		Grimes	8.6	Travis	12.1
		Hamilton	21.7	Washington	17.6

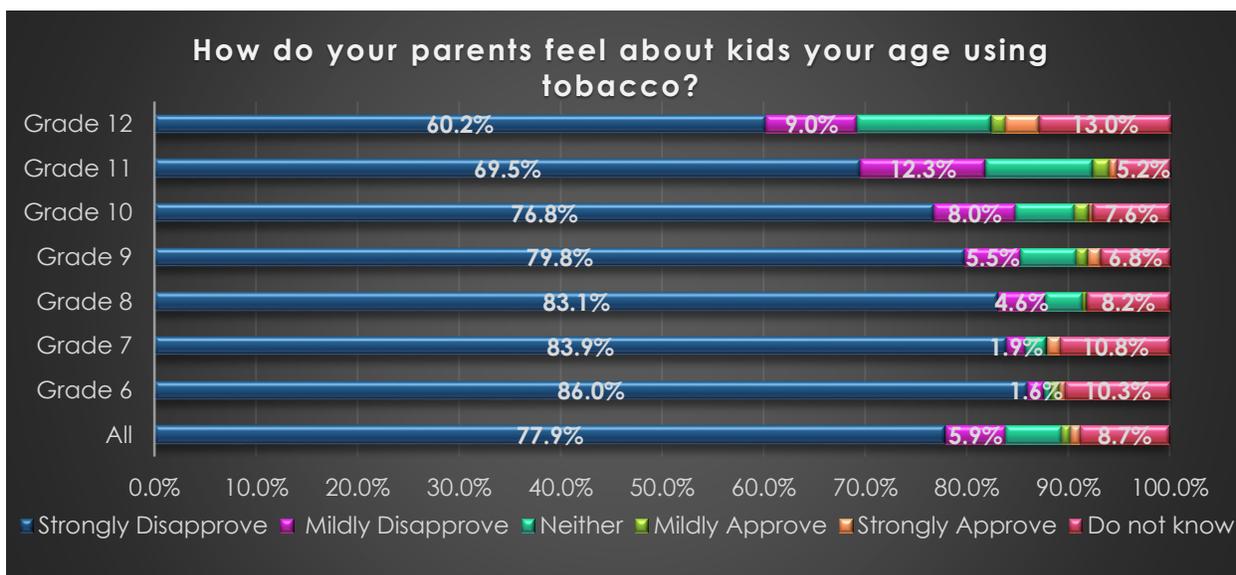
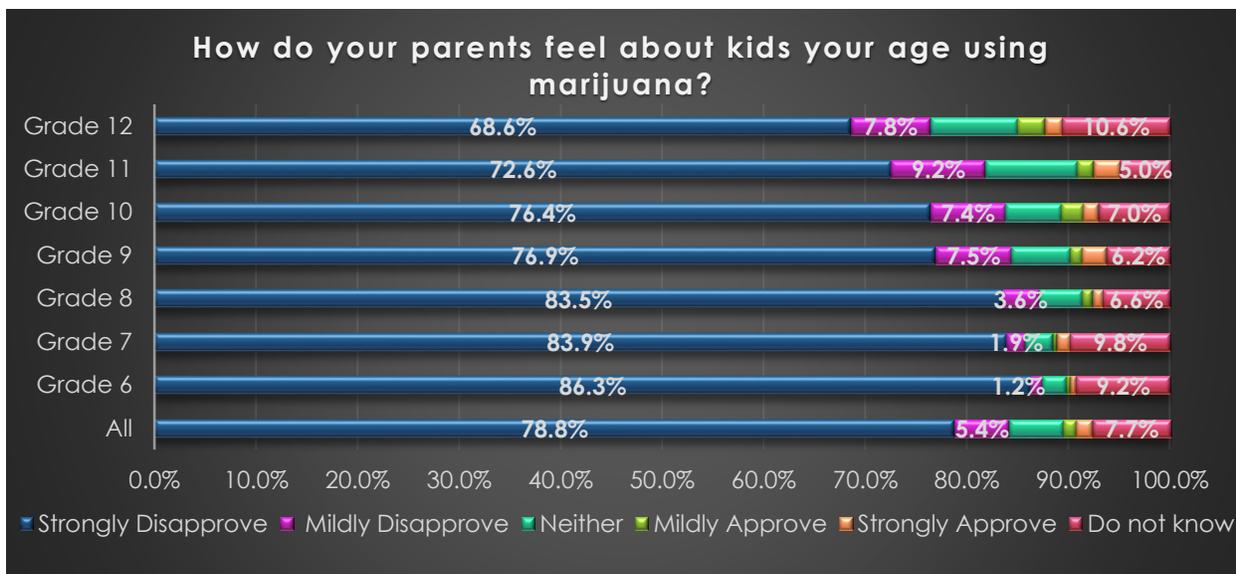
Social Association Rates					
		Hays	7	Williamson	6.2
<i>Source.</i> North American Industry Classification System, 2013					

Parental Attitudes toward Alcohol and Drug Consumption

Parental attitudes toward alcohol and drug use influence decisions made by youth and adolescents. For example, in one meeting from the LifeSteps Coalition (Round Rock, TX), a high school student organization introduced – SOS, Students Opposing Substances. The SOS organization worked to establish an agreement between students and parents that parental drug testing of students only occurred after spending time with other students. Students described this method as a way to not give into peer pressure and to inform parents of students’ choices in peers. Strengthening the parent-student relationships is important for describing current struggles of both parties. Below are a series of questions asked of students filling out the Texas School Survey.



Region 7 and 8 data were combined to provide an estimate of how parents feel about kids grade 6-12 using alcohol, marijuana, and tobacco.



Students Talking to Parents about ATOD

Youth prevention (YP) services provide a unique opportunity for students to start the conversation with parents about alcohol and drug use. There are several YP programs in Region 7, yet data collection methods and psychometric evaluation of instruments is required. Data from some YP services have undergone rigorous data quality measures to yield reliable results for informing policy makers and stakeholders.

Individual Domain

Life Skills Learned in YP Programs

Youth Prevention Programs occur in Region 7, yet exact data from youth prevention is still not incorporated or evaluated for feasibility in the RNA. We know youth prevention programs are required to inform evidenced based practices. With that said, more work is needed to identify how impact life

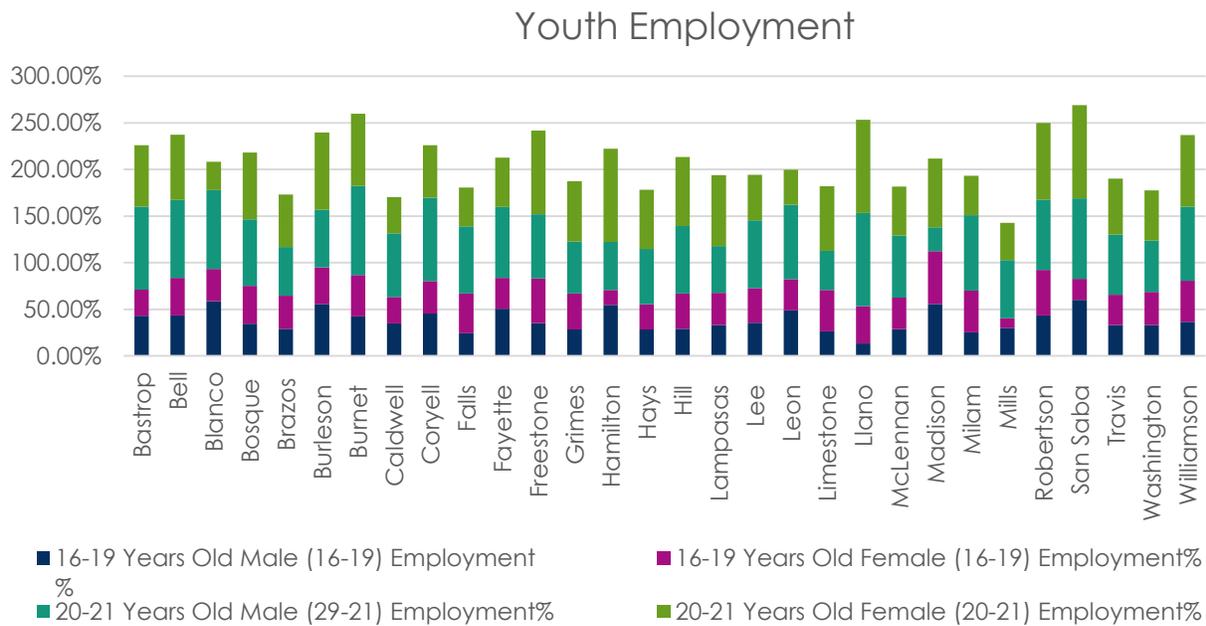
skills learned in YP programs have reshaped the community. For example, there is evidence that resiliency progra have helped youth overcome difficult circumstances and succeed by going to college.

Mental Health and Family Recovery Services

Mental health and family recovery services continue to expand and meet the changing needs of mental health first aid in the classroom. For example, Austin Integral Care has offered services to educators because of increased incidences of violence among youth in schools. In fact, the ACE study demonstrated that students no longer feel safe in schools.

Youth Employment

The percentage of youth working can create a positive factor in reducing drug use. For example, Llano County had the lowest employment for males, 16-19 years of age (13.35%). For females, 16-19 years of age, the county with the lowest employment was Mills (10.08%). For males, 20-21 years of age, the county with the lowest employment was Madison (25.57%). As for females, 20-21 years of age, the county with the lowest employment was Blanco. Other specific percentages can be found in Appendix B. From the figure below, San Saba and Burnet Counties have the most youth employed.



Youth Perception of Access

Illustrated in Accessibility, youth easily gain access to alcohol, marijuana, and prescription drugs. Therefore, the use of youth prevention programs becomes vital in helping youth decide drugs are not for them. Our cause as prevention professionals also comes into the picture, because youth have access “in a sense” to whatever they want. Our message about the dangers of alcohol and drug use becomes a priority and the cost for prevention becomes that more necessary. As we continue to limit access, helping youth be aware of the real life dangers in alcohol and drug use remains important.

Youth Perception of Risk and Harm

Illustrated in Perceived Risk of Harm section, youth tend to develop the belief that alcohol and prescription drugs are not dangerous. That trend is seen by observing the increased “not harmful” perspective of students from grades 6 to 12. For students in grade 12, the largest numbers occur for youth perceiving low risk in relation to alcohol and prescription drug use. For marijuana use, however, the largest numbers occur with students in grades 10 and 11. This suggests high school prevention programs talking about marijuana have been influenced youth in grade 12.

Trends of Declining Substance Use

Although there is indication of downward trends related to alcohol and drugs over time, the sporadic spikes of synthetic marijuana use has led to an increase in concern across communities and changes in community and user behaviors. For example, quick and sudden spikes in synthetic marijuana use have been driven by employers’ effort to drug test employees. Community stakeholders offer the possibility that marijuana users seek synthetic marijuana to get the same high and pass drug test.

Region in Focus

Gaps in Services

There are many opportunities for improvement concerning the services of Region 7. A growing issue in Region 7 is the language barrier. Not all service providers can help the Spanish-speaking population, this becomes more apparent in rural areas where services are already limited (e.g., San Saba County). The access to services (e.g., detox facility) are also lacking in rural areas. Finally, navigating the healthcare system is a challenge for many individuals living in Region 7.

Gaps in Data

Gaps exist in county-level data collection efforts across the region. In addition, as efforts are made to unify counties in data collection, gathering data in Spanish becomes apparent. The need to support local communities in collecting data remains a constant effort; especially as regional needs assessments attempt to tie into relevance at the local level. Stakeholders in the community have expressed that data become more local or specific to their community.

A significant source of surveying across the region is conducted through the Public Policy Research Institute. For the most part, drug and alcohol data collected from adolescents throughout the region is short of rich and detailed regional assessment, especially at the county-level. There are a number of coalitions assessing their community needs, but data outcomes are not representative for the region. Community-level data reporting can be collected for our evaluation and study of variables and factors at work, but more region-wide data collection is necessary. As a result, existing data is currently the only way to begin assessing and estimating the effects of alcohol, marijuana, and prescription drug use in the region. Therefore, continued encouragement and support for community-level efforts in the region is required. Further community-level activity is necessary to translate community data to a regional-level assessment. Expanding community data gathering efforts allows members of the region to develop county-level assessments and relational connections to neighboring counties.

The evaluation of certain seasonal occurrences are also necessary. For example, times related to the numerical value of 420 are commonly used in marijuana activity. The numerical value 420 can mean April 20th or the times 4:20pm or 4:20am. Also, the term “420 friendly” is sometimes used in online social

media settings as an indication of being open to marijuana use. In addition to marijuana activity, alcohol use generally increases during holidays (e.g., New Year's Eve). However, instruments (e.g., surveys) are needed to measure spikes in alcohol abuse to address this issue in the following years.

Regional Partners

Many regional partners support the efforts of the Prevention Resource Center 7. For example, the willingness of Huston-Tillotson University to foster epidemiological work on their campus has been an asset in describing the current nature of tobacco, alcohol, and drug use in Region 7. Public schools and districts have been vital in providing necessary education to students concerning the dangers of alcohol and drug use. Likewise, coalitions have been instrumental in prompting local change in communities. Though we are many people working for the same cause, we should continue in our work to identify others doing the same work and build stronger relationships.

Regional Successes

Region 7 has one permanent box for individuals to drop off unwanted prescribed medicine: Robertson Co. Sheriff's Office, 113 W. Decherd St., Franklin, Texas 77856; 979-828-3299. Additionally, a recent single event for prescription drug collection was conducted in the region. At this event, members of the PRC collected over a ton of prescription pills across 3 different collection sites (Washington, Brazos, and Robertson counties). Also, through the efforts of CVS/pharmacy and The Partnership at Drugfree.org, another site for the collection of prescription drugs, MedReturn, was created. In region 7, the collection site is located at the following: San Marcos Police Department, 630 E. Hopkins, San Marcos, TX 78666.

Several individuals involved in policy making at the city and college level in Region 7 are now discussing and developing policies related to the use of e-cigarettes in public establishments. For example, Baylor University has created policy disallowing e-cigarettes on-campus. The same discussion is occurring at the community-level as tobacco-free individuals have expressed discomfort when in close proximity to users of e-cigarettes.

Due to the presences of numerous public and private universities, Region 7 is enriched with access to academic scholars. These scholars have been instrumental in forming an epidemiological workgroup to address issues of marijuana use, prescription drug abuse, and underage drinking among adolescents. A second epidemiological workgroup is currently working to address issues related to tobacco use. Having multiple epidemiological workgroups help foster the scientific investigation of alcohol and substance abuse issues in Central Texas. Finally, the work and efforts of several coalitions in the area have been vital in addressing issues of marijuana use, underage drinking, and the status of prescription drug abuse in Region 7. A key aspect of the coalition in Central Texas has been the willingness of members to participate with the Prevention Resource Center and to contribute information from their experiences.

Conclusion

Although efforts to make people in region 7 think twice about using marijuana has led to resistance, the PRC continues to address misconceptions about marijuana use through directed media activities. One such activity utilized billboards in the Austin area to remind the public of the dangers associated with alcohol and substance abuse. Strong and negative public reaction toward the billboards concerning anti-marijuana messages served to inform the PRC where to strategically begin dialogues and work to eliminate misconceptions about marijuana use. Although preventive alcohol and prescription drug

messages did not spark activity from the Austin public further, work by members of the PRC with nearby coalitions is being conducted to begin understanding root causes for issues in this densely populated region (especially in the form of an epidemiological workgroup).

Key Findings

The following key findings can be said of Region 7:

- Perceptions of marijuana as harmful have decreased among college students and adolescents.
- Alcohol and Marijuana were the primary substances for which people sought DSHS treatment.
- There were more drug arrests than arrests related to alcohol.
- There are more prescriptions than people (1.3 prescriptions per person).
- Social support association score for region 7 were greater than the state average score.
- The number of homeless kids per school for region 7 is lower than the state average per school.

Moving Forward

Prevention activities in Region 7 to address underage drinking, marijuana use, and prescription drug abuse are still important for stakeholders. Education for youth is needed to change perceptions about the dangers of alcohol and drugs. Similarly, we believe key findings should direct our actions as we continue moving forward in addressing alcohol and drug use in our region.

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[2] Centers for Disease Control and Prevention. Excessive drinking costs U.S. \$223.5 billion. Available at: <http://www.cdc.gov/features/alcoholconsumption/>

[3] Lee, J. The costs of drug rehab. Retrieved from <http://www.choosehelp.com/topics/drug-rehab/the-costs-of-drug-rehab>

[4] SAMHSA. Data spotlight: Over 7 million children live with a parent with alcohol problems. 2012. Available at: <http://media.samhsa.gov/data/spotlight/Spot061ChildrenOfAlcoholics2012.pdf>

Appendix A

PRC Region	Counties
1: Panhandle and South Plains	Armstrong, Bailey, Briscoe, Carson, Castro, Childress, Cochran, Collingsworth, Crosby, Dallam, Deaf Smith, Dickens, Donley, Floyd, Garza, Gray, Hale, Hall, Hansford, Hartley, Hemphill, Hockley, Hutchinson, King, Lamb, Lipscomb, Lubbock, Lynn, Moore, Motley, Ochiltree, Oldham, Parmer, Potter, Randall, Roberts, Sherman, Swisher, Terry, Wheeler, and Yoakum (41)

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2: Northwest Texas	Archer, Baylor, Brown, Callahan, Clay, Coleman, Comanche, Cottle, Eastland, Fisher, Foard, Hardeman, Haskell, Jack, Jones, Kent, Knox, Mitchell, Montague, Nolan, Runnels, Scurry, Shackelford, Stonewall, Stephens, Taylor, Throckmorton, Wichita, Wilbarger, and Young (30)
3: Dallas/Fort Worth Metroplex	Collin, Cooke, Dallas, Denton, Ellis, Erath, Fannin, Grayson, Hood, Hunt, Johnson, Kaufman, Navarro, Palo Pinto, Parker, Rockwall, Somervell, Tarrant, and Wise (19)
4: Upper East Texas	Anderson, Bowie, Camp, Cass, Cherokee, Delta, Franklin, Gregg, Harrison, Henderson, Hopkins, Lamar, Marion, Morris, Panola, Rains, Red River, Rusk, Smith, Titus, Upshur, Van Zandt, and Wood (23)
6: Gulf Coast	Austin, Brazoria, Chambers, Colorado, FortBend, Galveston, Harris, Liberty, Matagorda, Montgomery, Walker, Waller, and Wharton (13)
7: Central Texas	Bastrop, Bell, Blanco, Bosque, Brazos, Burleson, Burnet, Caldwell, Coryell, Falls, Fayette, Freestone, Grimes, Hamilton, Hays, Hill, Lampasas, Lee, Leon, Limestone, Llano, Madison, McLennan, Milam, Mills, Robertson, San Saba, Travis, Washington, and Williamson (30)
11: Rio Grande Valley/Lower South Texas	Aransas, Bee, Brooks, Cameron, Duval, Hidalgo, Jim Hogg, Jim Wells, Kenedy, Kleberg, Live Oak, McMullen, Nueces, Refugio, San Patricio, Starr, Webb, Willacy, and Zapata (19)
<p><i>Note.</i> PRC stands for Prevention Resource Center and the number in parenthesis is the total number of counties in that particular region.</p>	

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Appendix B

County	16-19 Years Old		20-21 Years Old	
	Male (16-19) Employment%	Female (16-19) Employment%	Male (20-21) Employment%	Female (20-21) Employment%

	16-19 Years Old		20-21 Years Old	
Bastrop	43.06%	27.88%	89.01%	66.10%
Bell	43.33%	40.39%	83.52%	69.87%
Blanco	58.81%	34.52%	84.35%	30.37%
Bosque	34.60%	40.50%	71.19%	71.74%
Brazos	28.99%	35.73%	51.97%	56.44%
Burleson	55.53%	39.48%	61.69%	82.76%
Burnet	42.47%	44.37%	95.45%	77.45%
Caldwell	35.03%	28.08%	68.37%	38.93%
Coryell	45.37%	35.03%	89.09%	56.53%
Falls	24.29%	42.61%	71.89%	41.84%
Fayette	50.51%	33.28%	76.00%	52.78%
Freestone	35.10%	47.93%	68.79%	89.89%
Grimes	28.33%	38.50%	55.58%	64.93%
Hamilton	54.75%	15.85%	51.69%	100.00%
Hays	28.27%	27.09%	59.43%	63.54%
Hill	29.07%	37.93%	72.45%	73.73%
Lampasas	33.22%	34.54%	50.00%	76.12%
Lee	35.56%	37.13%	72.86%	48.82%
Leon	48.77%	33.41%	80.00%	37.50%
Limestone	26.51%	44.15%	42.00%	69.43%
Llano	13.35%	39.89%	100.00%	100.00%
McLennan	28.67%	33.91%	66.35%	52.52%
Madison	55.66%	56.65%	25.57%	73.81%
Milam	25.23%	44.67%	80.90%	42.55%
Mills	30.25%	10.08%	62.50%	40.00%
Robertson	43.26%	48.81%	75.55%	82.25%
San Saba	60.10%	22.67%	86.11%	100.00%
Travis	33.22%	32.29%	64.55%	60.16%
Washington	33.29%	35.42%	55.03%	53.82%
Williamson	36.51%	43.96%	79.77%	76.70%

Glossary of Terms

30 Day Use

The percentage of people who have used a substance in the 30 days before they participated in the survey.

Adolescent

An individual between the ages of 12 and 17 years.

Age-adjustment

Age-adjustment is a statistical process applied to rates of disease, death, injuries or other health outcomes allowing communities with different age structures to be compared

ATOD

Alcohol, tobacco, and other drugs.

Crude Mortality Rate	the mortality rate from all causes of death for a population during a specific time period
DSHS	Department of State Health Services
Epidemiology	Epidemiology is concerned with the distribution and determinants of health and diseases, sickness, injuries, disabilities, and death in populations.
Evaluation	Systematic application of scientific and statistical procedures for measuring program conceptualization, design, implementation, and utility; making comparisons based on these measurements; and the use of the resulting information to optimize program outcomes.
Incidence	A measure of the risk for new substance abuse cases within the region.
PRC	Prevention Resource Center
Prevalence	The proportion of the population within the region found to already have a certain substance abuse problem.
Protective Factor	Conditions or attributes (skills, strengths, resources, supports or coping strategies) in individuals, families, communities or the larger society that help people deal more effectively with stressful events and mitigate or eliminate risk in families and communities.
Risk Factor	Conditions, behaviors, or attributes in individuals, families, communities or the larger society that contribute to or increase the risk in families and communities.
SPF	Strategic Prevention Framework. The idea behind the SPF is to use findings from public health research along with evidence-based prevention programs to build capacity and sustainable prevention. This, in turn, promotes resilience and decreases risk factors in individuals, families, and communities.
Substance Abuse	When alcohol or drug use adversely affects the health of the user or when the use of a substance imposes social and personal costs. Abuse might be used to describe the behavior of a woman who has four glasses of wine one evening and wakes up the next day with a hangover.
Substance Misuse	The use of a substance for a purpose not consistent with legal or medical guidelines. This term often describes the use of a prescription drug in a way that varies from the medical direction, such as taking more than the prescribed amount of a drug or using someone else's prescribed drug for medical or recreational use.
Substance Use	The consumption of low and/or infrequent doses of alcohol and other drugs such that damaging consequences may be rare or minor. Substance use might include an occasional glass of wine or beer with dinner, or the legal use of prescription medication as directed by a doctor to relieve pain or to treat a behavioral health disorder.

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SUD	Substance Use Disorder
TPII	Texas Prevention Impact Index
TSS	Texas Student Survey
VOICES	Volunteers Offering Involvement in Communities to Expand Services. Essentially, VOICES is a community coalition dedicated to create positive changes in attitudes, behaviors, and policies to prevent and reduce at-risk behavior in youth. They focus on changes in alcohol, marijuana, and prescription drugs.
YRBS	Youth Risk Behavior Surveillance Survey

ⁱ *Assessment, Prioritization, and Priority Populations.* (2016, July 27) Retrieved from Community Health Improvement Resources. Missouri Department of Health and Senior Services. http://health.mo.gov/data/InterventionMICA/AssessmentPrioritization_5.html