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An Economic Assessment of the Cost of Cancer in Texas and the Benefits of the Cancer Prevention and Research Institute of Texas (CPRIT) and its Programs:

2016 Update

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Introduction

Cancer is among the leading causes of premature death, with a tragically high cost both in human and financial terms. Individuals, families, hospitals, state and local governments, insurance providers, and society as a whole bear the cost of suffering, treatment, loss of productivity, and mortality. Through research and prevention/screening, however, cancer incidence and severity can be notably reduced, providing relief in terms of health outcomes and quality of life, as well as the economy. Medical outlays can be decreased through earlier detection, and improving results benefit both patients and society as a whole through enhancing productivity of those affected by cancer. In addition, research activity, apart from its primary mission to drive fundamental breakthroughs, can serve as a catalyst for business development in related industries (such as biomedicine).

The Cancer Prevention and Research Institute of Texas (CPRIT) has been working to reduce the human and financial cost of cancer since 2010. CPRIT has helped attract leading cancer research scientists to Texas (including members of the prestigious National Academy of Sciences), funded research projects which have resulted in thousands of publications and a number of new patents, and provided grants for screening and related education which are improving access to lifesaving testing for some of the state's most vulnerable populations.

CPRIT is an Important Resource for Cancer Prevention, Screening, and Research

In addition to their positive effect on health and wellbeing, these activities generate sizable economic benefits. The Perryman Group (TPG) has quantified the cost of cancer in Texas and the economic benefits of CPRIT for several years. This report updates the findings from TPG's analysis utilizing the most recent data regarding cancer incidence and results to date from CPRIT grants, following the same general methodology and report structure to aid in comparisons of results across years.

- The cost of cancer in Texas as traditionally measured is estimated to be \$34.9 billion in 2016 (about \$3.6 billion higher than in 2015), with total economic losses (including spinoff effects) of an estimated \$83.8 billion in output and over 879,800 jobs.
- The current total annual impact of all CPRIT operations, prevention/screening and research programs (including initial outlays and multiplier effects) includes \$773.2 million in output (real gross product) in 2016 as well as 11,346 jobs. When all secondary benefits are considered, these values rise to almost \$8.0 billion in output and over 79,000 jobs.
- This incremental business activity generates taxes for the State and local
 governments. For Texas, annual tax receipts associated with CPRIT grants and
 programs (including downstream effects) total \$361.4 million in 2016; local public
 entities receive \$166.9 million. Over the ten-year life of the current commitment,
 these gross incremental taxes are expected to total just under \$4.8 billion for the



State and almost \$2.3 billion for local governments. The net incremental taxes (which nets out the potential benefits of other typical uses of State funds) over the ten-year period) include nearly \$4.5 billion to the State and almost \$2.1 billion to local governments.

- If funding for CPRIT is not renewed, the net cumulative economic losses over the initial 10 years of not being funded include an estimated \$117.2 billion in lost gross product and some 1,100,761 lost person-years of employment, as well as billions in foregone tax receipts to the State and local governments.
- These results are explained more fully in subsequent sections and the Appendices to this report.

In State Tax Receipts as of the 10th Year of Operation

In Local Government Tax Receipts as of the 10th Year of Operation

(assuming stabilized levels of awards)

(assuming stabilized levels of awards)

Source: The Perryman Group

\$1.87

\$0.86



Report Approach

An approach consistent to prior years was used where possible in this 2016 update along with some significant additions made possible by the accumulation of information over time. At present, the initial CPRIT grants have been in place for more than six years. Recipients have reported progress, hiring, matching funds, and other key performance metrics. Firms have also located to Texas as a result of CPRIT efforts. This information was used in assessing the economic impacts related to research to the extent possible and, as in last year's update, were used to validate model results. The major components of The Perryman Group's analysis include the following:

The **economic cost of cancer** in terms of Texas business activity including losses stemming from treatment, morbidity, and mortality as well as the associated spillover effects are initially estimated. Data regarding the numbers of Texans with cancer and the associated costs for direct medical expenses, morbidity costs, and mortality are the subject of reports by entities such as the National Institutes of Health, the American Cancer Society, the National Cancer Institute (Centers for Disease Control (CDC)), and the Texas Cancer Registry (Texas Department of State Health Services). The projected costs of cancer treatment in 2020 and an estimated breakout of cancer expenditures by payer in 2015 are also given: both of these elements are newer features of the report which were included for the first time in the 2015 edition.

The **overall effect of CPRIT operations** on business activity in Texas (including multiplier effects) is estimated using input data regarding direct expenditures and operations employment at the Institute.

The **positive economic benefits of CPRIT-supported cancer prevention and screening programs** are also assessed, including both the increase in business activity due to the screenings themselves and the associated benefits from improved health. The effects of matching funds generated by CPRIT programs were also included. As of last year, this aspect of the analysis made use of extensive updates of prior underlying research on the rates of return to prevention and screening efforts, thus resulting in somewhat greater measured effects than in earlier years.

Economic returns on research supported by the Institute (including the effects related to the specific outlays, actual and anticipated recruitment efforts for high quality scholars in relevant areas, typical returns on medical research investments, and spinoff companies that surface from such endeavors) were also evaluated. Again, associated matching funds are also incorporated into the analysis.

Some illustrative scenarios related to **potential economic development and social gains** stemming from the Institute's role as a catalyst for incremental business activity are provided, as well as others demonstrating the economic value of increased quality of life, longevity, and productivity from improved outcomes.

The economic impact of not continuing CPRIT operations and initiatives beyond its original ten-year period is also evaluated. This projection reveals notable potential losses if CPRIT and its programs are not extended. When examined on a dynamic basis, CPRIT generates State revenues well in excess of its costs, thus providing a strong fiscal rationale for its continuation. The Appendices provide a detailed discussion of all aspects of the report, including methodology and disaggregated results.



The Economic Cost of Cancer in Texas

Cancer affects the longevity, quality of life, and finances of individuals suffering with the illness. Costs associated with cancer include direct medical outlays for treatment and care as well as indirect costs such as disease-related work disability or premature mortality. Prevention, early detection, effective treatment, and medical advances to minimize the consequences of the disease are vital national and, indeed, global priorities.

Millions of Americans are Dealing with Cancer

Despite advances in many aspects of cancer prevention and treatment, the number of Americans diagnosed with the disease remains very high. One factor in the recent upward trend is the aging of the US population, as cancer incidence increases among older age groups.

- The American Cancer Society estimates that there will be about 1,685,210 new cases of cancer (841,390 male and 843,820 female) and 595,690 deaths from cancer (314,290 male and 281,400 female) in the US in 2016. The number of new cases expected in 2016 is higher than the number for 2015 due to a large increase in cases for women as the male estimates are slightly lower than in 2015. The expected cancer deaths shows a modest increase over 2015.¹
- In Texas, a total of 116,690 new cases of cancer are expected in 2016, with 39,450 cancer deaths projected.² Compared to the American Cancer Society estimates for 2015, slightly more cases (about 3,000) and deaths (about 900) are expected in 2016. As with the nation, cancer remains the second leading cause of death in the state after cardiovascular disease.³

Cancer Costs are also Rising

Apart from the extremely high human cost, cancer causes economic harms to affected individuals, businesses, and society as a whole through shortened life spans, lost productivity, increased health care expenditures, and premature mortality.

• The direct medical costs and morbidity and mortality losses (as traditionally measured) in the state totaled an estimated \$34.9 billion in 2016, up notably from \$31.3 billion in 2015 and \$32.4 billion two years ago (according to TPG's update of existing information from the National Institutes of Health⁴ and a study of costs in

¹ Cancer facts & figures 2016. (2016). American Cancer Society.

² Cancer facts & figures 2016. (2016). American Cancer Society.

³ Cancer facts & figures 2016. (2016). American Cancer Society.

⁴ The National Institutes of Health (NIH) estimated the total overall cost of cancer in 2010 (the latest year for which such information is available) to be \$263.8 billion including direct medical costs of \$102.8 billion (including the total of all health expenditures), indirect morbidity costs (the cost of lost productivity due to illness) of \$20.9 billion, and indirect mortality costs



Texas.⁵ In 2010, cancer treatment costs in Texas were \$11.5 billion in current dollars and \$12.6 billion in constant 2016 dollars. By 2020, treatment costs are expected to be \$18.5 billion in current dollars (a 61.4 % rise) and \$17.0 billion in constant 2016 dollars (a 35.0% increase). The projected rates of increase at the national level are even higher.

Cancer Treatment Costs Affect both the Private Sector and the Public Sector

Costs of cancer treatment are covered by private insurance companies, social programs such as Medicare and Medicaid, and by the patients themselves.

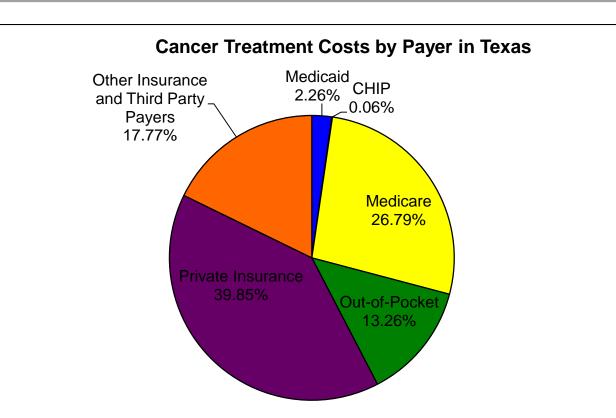
- The Perryman Group estimates that the cost of cancer treatment to private insurance companies in 2015 was just under \$5.5 billion.
- The cost of treating cancer in Texas paid through Medicaid in 2015 was \$308.9 million.
- The CHIP program spent some \$8.2 million treating cancer in 2015.
- Costs of cancer treatment to Medicare totaled an estimated \$3.7 billion.
- The cost of treating cancer to other third party payers in 2015 was determined to be just over \$2.4 billion.
- The out-of-pocket cost to cancer patients in 2015 was approximately \$1.8 billion.⁶

⁽the cost of lost productivity due to premature death) of \$140.1 billion. See *Cancer facts & figures 2011*. (2011). American Cancer Society.

⁵ A study directed by the Texas Department of State Health Services (DSHS) and conducted by scholars at the University of Texas Medical Branch (UTMB) found that the total cost of cancer in the state was roughly \$21.9 billion in 2007, with \$10.0 billion in direct medical costs and \$11.8 billion in indirect costs from lost productivity due to cancer morbidity and mortality. See Philips, B.U., et al. (2009, March). *The cost of cancer in Texas 2007*. Department of Preventive Medicine and Community Health; Texas Medical Branch at Galveston.

⁶ Medicaid and CHIP cancer expenditure data from AHQP Claims Universe, Texas Medicaid and Healthcare Partnership (TMHP); Enc_Best Picture Universe, TMHP; prepared by Strategic Decision Support, Texas Health and Human Services Commission, August 2016. All other expenditures are approximations by The Perryman Group based on best available data.





Source: Medicaid and CHIP cancer expenditure data from AHQP Claims Universe, Texas Medicaid and Healthcare Partnership (TMHP); Enc_Best Picture Universe, TMHP; prepared by Strategic Decision Support, Texas Health and Human Services Commission, August 2016. All other expenditures are approximations by The Perryman Group based on best available data.

The Cost of Cancer Goes Beyond Initial Effects

Several studies have clearly portrayed the very large economic losses associated with cancer. While many of these are excellent analyses, they fail to capture numerous "multiplier" effects associated with the disease and, thus, represent only a portion of the overall toll on business activity (only the initial effect of the various categories of cost).

- Several years ago, The Perryman Group developed a more comprehensive measure of the cost of cancer which includes losses stemming from treatment, morbidity, and mortality as well as the associated foregone spillover effects.
- Most studies of cancer costs reflect only the initial effect of direct medical outlays for treatment and care and indirect costs such as disease-related work disability or premature mortality are not included. However, these losses, in turn, generate further reductions in business activity. This more comprehensive measure is quantified in the approach utilized by The Perryman Group.



Measuring Economic Impacts

Any economic stimulus, whether positive (such as direct spending, investments, or corporate activity) or negative (such as lost productivity due to disease) generates multiplier effects throughout the economy. In this instance, economic costs of cancer include not only the initial incidence of costs, but also the subsequent rounds of economic activity which are forgone. Economic benefits of cancer research and prevention/screening activities include, among others, increased research spending, commercialization of discoveries, enhanced screening programs, and higher productivity stemming from better health outcomes. (These channels of benefits are described within the report and the accompanying Appendices.) Once the direct stimulus was quantified, the associated multiplier effects were measured.

The Perryman Group's input-output assessment model (the US Multi-Regional Impact Assessment System, which is described in further detail in the Appendices to this report) was developed by The Perryman Group some 35 years ago and has been consistently maintained and updated since that time; it has been used in hundreds of analyses for clients ranging from major corporations to government agencies. The system uses a variety of data (from surveys, industry information, and other sources) to describe the various goods and services (known as resources or inputs) required to produce another good/service. This process allows for estimation of the total economic impact (including multiplier effects) of CPRIT programs and related activity. An associated fiscal model allows for estimation of tax receipts to state and local entities. The submodels used in the current analysis reflect the specific industrial composition and characteristics of the Texas economy and its various counties, metropolitan areas, regions, and legislative districts.

These total economic effects are quantified for key measures of business activity:

- Total expenditures (or total spending) measure the dollars changing hands as a result of the economic stimulus.
- **Gross product** (or output) is production of goods and services that will come about in each area as a result of the activity. This measure is parallel to the gross domestic product numbers commonly reported by various media outlets and is a subset of total expenditures.
- **Personal income** is dollars that end up in the hands of people in the area; the vast majority of this aggregate derives from the earnings of employees, but payments such as interest and rents are also included.
- **Job gains** are expressed as (1) person-years of employment (one person working for one year) for temporary projects (such as construction of a facility) or cumulative assessments over time or (2) permanent jobs when evaluating ongoing annual effects.

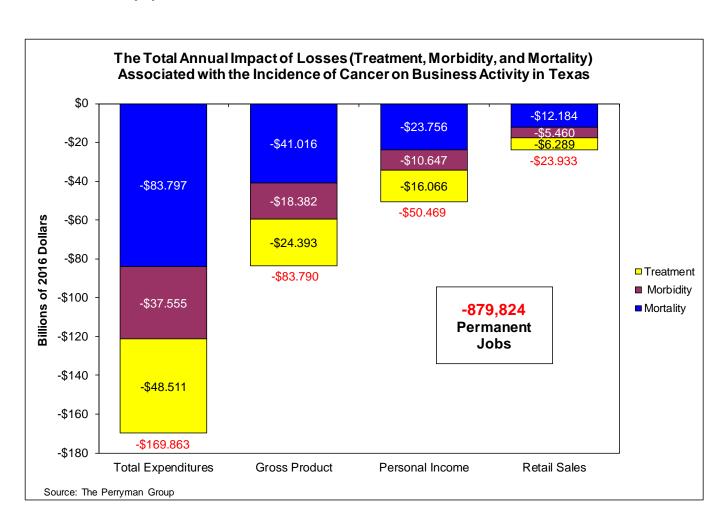
Dynamic State and local government revenue reflect tax receipts stemming from the increase in total economic activity. Monetary values were quantified on a constant (2016) basis, which eliminates inflationary effects and allows comparison across various time periods. See the Appendices to this report for additional information regarding the methods and assumptions used in this analysis.



Cancer Costs the Texas Economy \$169.9 Billion per Year

The Perryman Group's analysis indicates a total cost to the Texas economy of almost \$169.9 billion in reduced annual spending, \$83.8 billion in output losses per annum, and 879,800 lost jobs from cancer treatment, morbidity, and mortality and the associated spillover effects.

- These amounts represent an increase over last year's estimated total cost of \$156.8 billion in spending, \$77.3 billion in output, and 818,300 jobs. These totals represent approximately 5.6% of the total output of the Texas economy and 7.0% of employment).
- The yearly loss in State fiscal revenues (including Medicaid and CHIP and uncompensated care) is some \$6.7 billion, while losses to local governments include about \$2.9 billion per annum.
- Losses are spread across all regions of Texas, and are concentrated in the state's most populous areas.





COST OF CANCER BY COUNCIL OF GOVERNMENTS REGION

ECONOMIC COST OF CANCER INCLUDING DIRECT MEDICAL EXPENSES AND PREMATURE MORBIDITY AND MORTALITY



ANNUAL EFFECT ON BUSINESS ACTIVITY			
	GROSS PRODUCT	EMPLOYMENT	
	(Billions of 2015 Dollars)	(Permanent Jobs)	
Panhandle	(\$1.539)	(16,334)	
South Plains	(\$1.432)	(15,908)	
Nortex	(\$1.123)	(12,030)	
North Central Texas	(\$20.605)	(210,919)	
Ark-Tex	(\$1.224)	(14,367)	
East Texas	(\$4.122)	(44,302)	
West Central Texas	(\$1.588)	(17,095)	
Rio Grande	(\$2.624)	(28,404)	
Permian Basin	(\$1.451)	(14,779)	
Concho Valley	(\$0.667)	(7,116)	
Heart of Texas	(\$1.591)	(17,988)	
Capital Area	(\$4.351)	(47,910)	
Brazos Valley	(\$0.964)	(10,774)	
Deep East Texas	(\$1.797)	(20,916)	
South East Texas	(\$1.788)	(20,336)	
Houston-Galveston			
Area	(\$19.842)	(189,901)	
Golden Crescent	(\$0.830)	(8,966)	
Alamo Area	(\$7.956)	(87,631)	
South Texas	(\$0.607)	(6,743)	
Coastal Bend	(\$2.334)	(24,496)	
Lower Rio Grande			
Valley	(\$2.617)	(30,614)	
Texoma	(\$0.917)	(10,665)	
Central Texas	(\$1.344)	(16,025)	
Middle Rio Grande	(\$0.475)	(5,605)	
Border Region	(\$6.326)	(71,397)	
TOTAL STATE	(\$83.790)	(879,824)	

Note: Border Region includes Rio Grande, Terrell County, Middle Rio Grande, South Texas, and Lower Rio Grande Valley

Source: The Perryman Group



Screening and Prevention Can Yield Substantial Savings

It is far less expensive to screen for cancer and treat it in its early stages.

- Detecting and treating cancer in earlier stages not only improves outcomes, but can also cost less compared to treating cancer in its latter stages.
- Not only are treatment expenses likely to be lower for early-stage diagnoses, but also morbidity and mortality losses are reduced.
- The Perryman Group's analysis indicates that every \$1 spent through CPRIT for screening/prevention leads to \$21.89 in treatment cost savings and resulting economic benefits through earlier detection.⁷
- The Perryman Group's analysis also estimates that **every \$1** spent on screening/prevention saves \$1.86 in direct health spending.

⁷ The reported benefits from screening and prevention are slightly lower than last year but still significantly higher than in earlier years based on recent and more comprehensive research which illustrates greater rates of return on prevention and screening than prior evidence. See, for example, Boland, Mairin and Joan Murphy, The Economic Argument for Prevention of Ill-health at Population Level, For Working Group on Public Health Policy Framework, May 2012.



The Economic Impact of CPRIT and its Programs

The overall effects of CPRIT and its various initiatives extend well beyond the initial stimulus and impacts business activity throughout the supply chain. Some of these benefits are quantified below.

CPRIT Investments Generate Economic Activity as Well as Progress toward New Discoveries

Even beyond the potentially life-changing influence of spending to reduce the incidence and severity of the disease, this **investment in research**, **screening**, **and related activities generates substantial economic impacts**. Moreover, the investment has the potential to reduce the cost of cancer through improving outcomes.

- Returns on investments in medical research include jobs created in the private sector, health care costs saved, the value of increased longevity, the value of reduced morbidity and disability, and the benefits of newer medicines and therapies.
- Job creation occurs not only directly through the scientists and staff in the research facilities, but also indirectly through the provision of business services needed by those institutions and other multiplier effects.
- Many studies over an extended period of time support the conclusion that investing
 in medical and cancer research can yield returns far in excess of initial outlays. Texas
 is already beginning to see tangible job gains and other benefits such as attracting
 top-tier research talent, external research funding, and commercialization of findings.

CPRIT Operations and Spending Were Linked to 11,346 Jobs in Texas in 2016

The direct outlays and related "multiplier" effects emanating from CPRIT operations and programs generated a sizable increase in business activity in Texas including \$773.2 million in output (gross product) and 11,346 jobs during fiscal year 2016.

- These economic benefits stem from operations, prevention and screening, and research programs. They are consistent with the results reported by grant recipients and other data available regarding CPRIT initiatives.
- Fiscal benefits are also significant, as noted in the table below.



The Current Impact of CPRIT Direct Operations, Prevention and Screening, and Research Programs on Texas Business Activity and Tax Receipts

(Monetary Values in Millions of Constant 2016 Dollars)

ECONOMIC BENEFITS

	Operations	Prevention & Screening	Research	TOTAL
Total Expenditures	\$28.1	\$100.6	\$1,356.2	\$1,484.9
Gross Product	\$14.2	\$54.8	\$704.2	\$773.2
Personal Income	\$9.8	\$38.3	\$487.8	\$535.9
Retail Sales	\$3.7	\$14.3	\$185.5	\$203.6
Employment (Permanent Jobs)	132	708	10,505	11,346
FISCAL BENEFITS				
State (Texas)	\$0.7	\$2.7	\$36.0	\$39.4
Local Governmental Entities Throughout the State	\$0.3	\$1.5	\$21.8	\$23.6
Note: Columns may not add to total due to rounding.				

Note: Columns may not add to total due to rounding.

Source: The Perryman Group

Secondary Benefits Enhance the Positive Effect of the Institute

Even beyond these substantial gains in business activity, CPRIT programs lead to secondary (downstream) benefits such as improved outcomes stemming from screening and prevention and research.

 Screening can help reduce cancer incidence and severity. TPG estimated the total annual net outcomes-related benefits from screening and prevention supported by CPRIT to be \$290.9 million in output (gross product) and 3,054 jobs in 2016 (on a net present value basis assuming typical outcomes from available academic studies⁸). Effects over 10 years are included in the Appendices to this report.

⁸ As noted above, although slightly less than last year due to somewhat lower direct spending, these estimates are notably higher than in prior years as a result of more specific recent research. See, for example, Boland, Mairin and Joan Murphy, The Economic Argument for Prevention of Ill-health at Population Level, For Working Group on Public Health Policy Framework, May 2012.



The economic benefits of CPRIT-funded research activity compound over time.
 Current estimates of these secondary effects stemming from research include \$6.9 billion in output and 64,674 jobs in 2016. These gains are expected to continue to grow substantially in future years as programs continue and benefits cumulate (as indicated in the Appendices).

The Overall Total Current Impact of CPRIT Operations (including Secondary Effects) Includes a Gain of Some 79,075 Jobs in Texas

Adding the economic benefits of CPRIT operations, prevention/screening programs, research, outcomes-based prevention/screening, and secondary research effects yields a total gross impact of the Institute's operations of over \$14.9 billion in annual spending.

- The current total annual impact of all operations, prevention/screening, and research programs (including initial outlays and downstream effects) associated with CPRIT on Texas business activity was found to be almost \$8.0 billion in output and 79,075 jobs.
 Fiscal benefits are also substantial, as noted in the table below.
- Because of the cumulative nature of research gains, these benefits increase over time. Even when other potential uses for State funding of CPRIT are considered, the net economic benefits remain substantial (as indicated in the Appendices). Over an extended time horizon, CPRIT and the research funding it provides will likely generate fiscal receipts totaling a substantial multiple of the commitment of public resources (in addition to the notable economic and health benefits).



The Overall Total Gross Annual Impact of CPRIT Operations, Prevention/Screening, and Research Programs on Texas Business Activity and Tax Receipts (Including Direct Outlays with Multiplier Effects as Well as Secondary Effects)

(Monetary Values in Millions of Constant 2016 Dollars)

ECONOMIC BENE	FITS*	
Total Expenditures		\$14,939.3
Gross Product		\$7,972.3
Personal Income		\$5,313.3
Retail Sales		\$2,035.1
Employment (Permanent Jobs)		79,075
FISCAL BENEFITS		
State (Texas)		\$361.4
Local Governmental Entities Throughout the State		\$166.9
*Based on budgeted Source: The Perryma	operations and reported awards in fiscal year 2016.	

CPRIT's Benefits Extend Beyond these Economic Effects

The ultimate goal of CPRIT is reducing cancer incidence and the associated high human and economic costs, and a major reduction in incidence/severity would yield substantial economic benefits. In addition, the research activity supported by CPRIT can serve as a catalyst for economic development.

• If CPRIT's screening/prevention programs, research advances, and other initiatives reduce the incidence of cancer over time to equal the average of current levels observed in the five states with the lowest incidence and death rates, notable economic benefits would be realized. The Perryman Group estimates that the gains in Texas stemming from a substantial reduction in cancer incidence by 2040 would include \$12.7 billion in gross product and about 133,850 permanent jobs. Fiscal benefits of such a reduction in cancer incidence include an estimated \$715.0 million to the State each year and \$330.5 million to local government entities (in constant 2016 dollars). Moreover, these benefits do not include the obvious gains in quality of life and would not be restricted to Texas; they would bring better outcomes throughout the country and, indeed, the entire world.



- As of September 15, 2016, CPRIT had awarded 1070 grants totaling \$1,675,689,754. CPRIT has enjoyed a number of successes and its programs and grants are helping attract key researchers and companies to Texas. CPRIT's investments have played a critical role in connecting universities, researchers, private companies, hospitals, clinics, and physicians across the Texas in the battle against cancer. CPRIT has recruited 129 cancer researchers and their labs to Texas. CPRIT has also funded more than 1,000 college and graduate level medical students. CPRIT's efforts have resulted in 84 new clinical trials with almost 5,600 patients. CPRIT has at least one active prevention project in all but a few Texas counties which helps Texans all across the State. CPRIT has awarded 29 grants for product development totaling just under \$297 million. With matching funds, the total investment for research and development is \$445 million as well as \$1.28 billion in follow-on funding. In addition to helping save lives, these grants have the potential to generate significant returns to CPRIT as well. Recipients of CPRIT grants have also published over 3,000 findings and received or applied for hundreds of patents. 9
- The Institute's role as a potential catalyst for development of Texas' biomedical industries can help establish the Lone Star State as a center for such development. The economic gains from such economic development would be significant. The Perryman Group estimates that if Texas achieves a concentration in the biomedical industry (pharmaceuticals and medical equipment) by 2040 equivalent to that of the US, incremental gains would include \$18.7 billion in annual gross product and 172,770 jobs. If the state's concentration in the biomedical industry in 2040 reached a level equivalent to California, the incremental economic benefits would include \$25.4 billion in gross product each year and about 230,000 jobs.

Economic Effects of Not Extending CPRIT and Its Programs an Additional Ten Years

As has been illustrated, CPRIT plays a vital role in fighting cancer and generates substantial economic benefits to the state. The impact of not continuing CPRIT's programs with sustainable levels of funding for another 10 years beyond its initial mission would be significant.

 The Perryman Group estimates the anticipated gross cumulative ten-year losses of not extending CPRIT and all of its programs include almost \$125.0 billion in lost gross product and some 1,214,220 lost person-years of employment. The gross fiscal losses over ten years of not extending CPRIT and its programs include almost \$6.3 billion to the State and \$2.9 billion to local governments. Note that these losses do

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⁹ Achievements Report, September 2016, Cancer Prevention & Research Institute of Texas; CPRIT Overview, September 2016, Cancer Prevention & Research Institute of Texas.



- not include any offset for the residual effects of the initial decade of activity, as those will be enjoyed irrespective of whether the program is renewed.
- Even when other potential uses for State funding of CPRIT are considered, the net cumulative economic losses over the additional 10 years not being funded remain substantial. These net losses include \$117.2 billion in lost gross product and some 1,100,761 lost person-years of employment. The net fiscal losses are noted in the table.
- Given the magnitude of the losses from not extending CPRIT and its programs it is
 clear that CPRIT more than pays for itself and it is sound policy to extend CPRIT
 funding beyond the initial ten years. It should be noted that, while
 commercialization of discoveries is clearly a viable and important aspect of the
 overall initiative and can at times generate near-term returns, support of basic
 research brings greater long-term gains and should continue to be the major focus of
 CPRIT efforts. Attempts to substantially alter the priorities of the program would
 diminish its value in terms of human health, economic impact, and fiscal benefits.



The Anticipated Net Cumulative Ten-Year Losses from Not Extending CPRIT and All of Its Programs at Sustainable Levels of Funding for Another Ten Years on Texas Business Activity and Tax Receipts (Including Direct Outlays with Multiplier Effects as Well as Secondary Effects)

(Monetary Values in Billions of Constant 2016 Dollars)

ECONOMIC LOSS	ES*
Total Expenditures	(\$218.8)
Gross Product	(\$117.2)
Personal Income	(\$77.9)
Retail Sales	(\$29.8)
Employment (Person Years)	(1,100,761)
FISCAL LOSSES	
State (Texas)	(\$5.9)
Local Governmental Entities Throughout the State	(\$2.7)

^{*}Assumes CPRIT and its programs are not extended beyond the initial authorization. Losses are based on a comparison to the situation where CPRIT and all of its programs are continued for an additional ten years beyond the original authorization. All funding levels are sustained at the stabilized levels currently anticipated for the final year of the current program. Measured impacts do not include the residual benefits of the initial ten-year commitment, since those gains will accrue irrespective of whether or not the extension occurs.

Source: The Perryman Group



Conclusion

The Cancer Prevention and Research Institute of Texas Plays a Crucial Role in the War on Cancer

- Through its operations, screening/prevention efforts, and research programs, CPRIT is helping reduce the extremely high human and economic costs of cancer.
- CPRIT is also generating sizable economic stimulus including some \$8.0 billion in output (gross product) and 79,075 jobs in 2016 (when multiplier and secondary effects are included).
- Moreover, the Institute's efforts to improve outcomes related to cancer prevention and treatment can lead to a significant reduction in cancer incidence and severity over time and be a catalyst to biomedical development in Texas.

The Institute's Positive Impact Represents an Excellent Return on Fiscal Resources

- Research enabled by grants funded through CPRIT is already bearing fruit, with leading researchers as well as companies coming to the state, matching funds being attracted, and findings being published in leading journals. Empirical evidence shows that medical research and prevention programs can reduce cancer incidence and enhance outcomes.
- Reductions in treatment expenses, morbidity, and mortality stand to bring notable economic benefits.
- The economic activity stemming from CPRIT operations and programs generates tax receipts and reduced State expenditures for health care over time which exceed the investment of resources. The significance of CPRIT activities continues to expand and will only accelerate in the future, particularly if its mission is extended beyond the original authorization period.

November 2016

An Economic Assessment of the Cost of Cancer in Texas and the Benefits of the Cancer Prevention and Research Institute of Texas (CPRIT) and its Programs:

2016 Update

APPENDICES

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Appendix A: About The Perryman Group

The Perryman Group (TPG) is an economic research and analysis firm based in Waco, Texas. The firm has more than 35 years of experience in assessing the economic impact of corporate expansions, regulatory changes, real estate developments, public policy initiatives, and myriad other factors affecting business activity. TPG has conducted hundreds of impact analyses for local areas, regions, and states throughout the United States. Impact studies have been performed for hundreds of clients including many of the largest corporations in the world, governmental entities at all levels (including 10 cabinet departments), educational institutions, major health care systems, utilities, and economic development organizations.

Dr. M. Ray Perryman, founder and President of the firm, developed the US Multi-Regional Impact Assessment System (USMRIAS—used in this study) in the early 1980s and has consistently maintained, expanded, and updated it since that time. The model has been used in hundreds of diverse applications and has an excellent reputation for reliability.

TPG has extensively analyzed the health care sector, including insurance, cost, affordability, and other areas relevant to the current analysis. The firm has analyzed the cost of cancer and the economic benefits of CPRIT for each of the past six years, as well as completing numerous other studies related to the cost of cancer and other diseases including diabetes, mental health disorders, and obesity.

From a public policy perspective, studies have been performed related to Medicaid and State Children's Health Insurance Program (SCHIP) coverage, wellness initiatives, obesity treatment, health care access, and funding for mental health and substance abuse. One recent study was published in the *Journal of Medical Economics*. The firm has also recently examined the health effects of both child maltreatment and hunger.

Moreover, the proprietary models developed and maintained by the firm have been used in the analysis of scores of major medical facilities. Representative examples include the Methodist Hospital, Parkland, University Health System, Menninger Clinic, Scott & White, M. D. Anderson Cancer Center (including an assessment of its contribution to improved outcomes and the resulting benefits), and the University of Kansas Cancer Center (including an investigation of the benefits of achieving the status of a Comprehensive Cancer Center). Similarly, they have been employed to evaluate educational institutions and specific instructional and research programs for the University of Texas (including, among others, the new Medical School under development in Austin), Texas A&M University, University of Texas Medical Branch, Baylor University, University of Texas Health Science Center at San Antonio, the Texas A&M University Health Science Center, and Baylor College of Medicine. Recent work related to long-term access to health care has resulted in Dr. M. Ray Perryman, founder and president of the firm, being named as an Honorary Fellow of the National Academy of Nursing, while an analysis of the economics of Medicaid expansion under the Affordable Care Act helped frame the debate over participation.



Appendix B: Methods Used

The Texas Econometric Model

The Texas Econometric Model was used in deriving baseline projections for economic activity and various costs, as well as in defining the growth parameters of the economic development scenarios. This Model is formulated in an internally consistent manner and is designed to permit the integration of relevant global, national, state, and local factors into the projection process. They are the result of more than 35 years of continuing research in econometrics, economic theory, statistical methods, and key policy issues and behavioral patterns, as well as intensive, ongoing study of all aspects of the global, US, and Texas economies.

The remainder of this Technical Explanation describes the forecasting process in a comprehensive manner, focusing on both the modeling and the supplemental analysis. The overall methodology, while certainly not ensuring perfect foresight, permits an enormous body of relevant information to impact the economic outlook in a systematic manner.

Model Logic and Structure

The expanded version of the Texas Econometric Model, developed and maintained by The Perryman Group, revolves around a core system which projects output, income, and employment by industry in a simultaneous manner. For purposes of illustration, it is useful to initially consider the employment functions. Essentially, employment within the system is a derived demand relationship obtained from a neo-Classical production function. The expressions are augmented to include dynamic temporal adjustments to changes in relative factor input costs, output and (implicitly) productivity, and technological progress over time. Thus, the typical equation includes output, the relative real cost of labor and capital, dynamic lag structures, and a technological adjustment parameter. The functional form is logarithmic, thus preserving the theoretical consistency with the neo-Classical formulation.

The income segment of the model is divided into wage and non-wage components. The wage equations, like their employment counterparts, are individually estimated at the three-digit North American Industry Classification System (NAICS) level of aggregation. Hence, income by place of work is measured for approximately 70 distinct production categories. The wage equations measure real compensation, with the form of the variable structure differing between "basic" and "non-basic."



The basic industries, comprised primarily of the various components of Mining, Agriculture, and Manufacturing, are export-oriented, i.e., they bring external dollars into the area and form the core of the economy. The production of these sectors typically flows into national and international markets; hence, the labor markets are influenced by conditions in areas beyond the borders of the particular region. Thus, real (inflation-adjusted) wages in the basic industry are expressed as a function of the corresponding national rates, as well as measures of local labor market conditions (the reciprocal of the unemployment rate), dynamic adjustment parameters, and ongoing trends.

The "non-basic" sectors are somewhat different in nature, as the strength of their labor markets is linked to the health of the local export sectors. Consequently, wages in these industries are related to those in the basic segment of the economy. The relationship also includes the local labor market measures contained in the basic wage equations.

Note that compensation rates in the export or basic sectors provide a key element of the interaction of the regional economies with national and international market phenomena, while the "non-basic" or local industries are strongly impacted by area production levels. Given the wage and employment equations, multiplicative identities in each industry provide expressions for total compensation; these totals may then be aggregated to determine aggregate wage and salary income. Simple linkage equations are then estimated for the calculation of personal income by place of work.

The non-labor aspects of personal income are modeled at the regional level using straightforward empirical expressions relating to national performance, dynamic responses, and evolving temporal patterns. In some instances (such as dividends, rents, and others) national variables (for example, interest rates) directly enter the forecasting system. These factors have numerous other implicit linkages into the system resulting from their simultaneous interaction with other phenomena in national and international markets which are explicitly included in various expressions.

The output or gross area product expressions are also developed at the three-digit NAICS level. Regional output for basic industries is linked to national performance in the relevant industries, local and national production in key related sectors, relative area and national labor costs in the industry, dynamic adjustment parameters, and ongoing changes in industrial interrelationships (driven by technological changes in production processes).

Output in the non-basic sectors is modeled as a function of basic production levels, output in related local support industries (if applicable), dynamic temporal adjustments, and ongoing patterns. The interindustry linkages are obtained from the input-output (impact assessment) system which is part of the overall integrated modeling structure maintained by The Perryman Group. Note that the dominant component of the econometric system involves the simultaneous estimation and projection of output, income, and employment at a disaggregated industrial level.

Several other components of the model are critical to the multi-regional forecasting process. The demographic module includes (1) a linkage equation between wage and salary (establishment) employment and household employment, (2) a labor force participation rate function, and (3) a complete age-cohort-survival population system with endogenous migration. Given household employment, labor force participation (which is a function



of economic conditions and evolving patterns of worker preferences), and the working age population (from the age-cohort-survival model), the unemployment rate and level become identities.

The population system uses Census information, fertility rates, and life tables to determine the "natural" changes in population by age group. Migration, the most difficult segment of population dynamics to track, is estimated in relation to relative regional and extra-regional economic conditions over time. Because evolving economic conditions determine migration in the system, population changes are allowed to interact simultaneously with overall economic conditions.

Retail sales is related to income, interest rates, dynamic adjustments, and patterns in consumer behavior on a store group basis. Inflation at the state level relates to national patterns, indicators of relative economic conditions, and ongoing trends.

A final significant segment of the forecasting system relates to real estate absorption and activity. The short-term demand for various types of property is determined by underlying economic and demographic factors, with short-term adjustments to reflect the current status of the pertinent building cycle. In some instances, this portion of the forecast requires integration with the Multi-Regional Industry-Occupation System which is maintained by The Perryman Group.

The overall Texas Econometric Model contains numerous additional specifications, and individual expressions are modified to reflect alternative lag structures, empirical properties of the estimates, simulation requirements, and similar phenomena. Nonetheless, the above synopsis offers a basic understanding of the overall structure and underlying logic of the system.

Model Simulation and Multi-Regional Structure

The initial phase of the simulation process is the execution of a standard non-linear algorithm for the state system and that of each of the individual sub-areas. The external assumptions are derived from scenarios developed through national and international models and extensive analysis by The Perryman Group.

Once the initial simulations are completed, they are merged into a single system with additive constraints and interregional flows. Using information on minimum regional requirements, import needs, export potential, and locations, it becomes possible to balance the various forecasts into a mathematically consistent set of results. This process is, in effect, a disciplining exercise with regard to the individual regional (including metropolitan and rural) systems. By compelling equilibrium across all regions and sectors, the algorithm ensures that the patterns in state activity are reasonable in light of smaller area dynamics and, conversely, that the regional outlooks are within plausible performance levels for the state as a whole.

The iterative simulation process has the additional property of imposing a global convergence criterion across the entire multi-regional system, with balance being achieved simultaneously on both a sectoral and a geographic



basis. This approach is particularly critical on non-linear dynamic systems, as independent simulations of individual systems often yield unstable, non-convergent outcomes.

It should be noted that the underlying data for the modeling and simulation process are frequently updated and revised by the various public and private entities compiling them. Whenever those modifications to the database occur, they bring corresponding changes to the structural parameter estimates of the various systems and the solutions to the simulation and forecasting system. The multi-regional version of the Texas Econometric Model is automatically re-estimated and simulated with each such data release, thus providing a constantly evolving and current assessment of state and local business activity.

The Final Forecast

The process described above is followed to produce the preliminary forecast. Through the comprehensive multiregional modeling and simulation process, a systematic analysis is generated which accounts for both historical patterns in economic performance and inter-relationships and best available information on the future course of pertinent external factors. While the best available techniques and data are employed in this effort, they are not capable of directly capturing "street sense," i.e., the contemporaneous and often non-quantifiable information that can materially affect economic outcomes. In order to provide a comprehensive approach to the prediction of business conditions, it is necessary to compile and assimilate extensive material regarding "what's happenin'" both across the state of Texas and elsewhere.

This critical aspect of the forecasting methodology includes activities such as (1) daily review of key financial and business publications and electronic information sites; (2) review of major newspapers in the state on a daily basis; (3) dozens of hours of direct telephone interviews with key business and political leaders in all parts of the state; (4) face-to-face discussions with representatives of major industry groups; and (5) frequent site visits to the various regions of the state. The insights arising from this "fact finding" are analyzed and evaluated for their effects on the likely course of the future activity.

Another vital information resource stems from the firm's ongoing interaction with key players in the international, domestic, and state economic scenes. Such activities include visiting with corporate groups on a regular basis and being regularly involved in the policy process at all levels. The firm is also an active participant in many major corporate relocations, economic development initiatives, and regulatory proceedings.

Once organized, this information is carefully assessed and, when appropriate, independently verified. The impact on specific communities and sectors that is distinct from what is captured by the econometric system is then factored into the forecast analysis. For example, the opening or closing of a major facility, particularly in a relatively small area, can cause a sudden change in business performance that will not be accounted for by either a modeling system based on historical relationships or expected (primarily national and international) factors.



The final step in the forecasting process is the integration of this material into the results in a logical and mathematically consistent manner. In some instances, this task is accomplished through "constant adjustment factors" which augment relevant equations. In other cases, anticipated changes in industrial structure or regulatory parameters are initially simulated within the context of the US Multi-Regional Impact Assessment System to estimate their ultimate effects by sector. Those findings are then factored into the simulation as constant adjustments on a distributed temporal basis. Once this scenario is formulated, the extended system is again balanced across regions and sectors through an iterative simulation algorithm analogous to that described in the preceding section.



The US Multi-Regional Impact Assessment System and Input Assumptions

The US Multi-Regional Impact Assessment System (USMRIAS) was developed by The Perryman Group more than 30 years ago and has been consistently maintained and updated since that time. This model has been used in hundreds of diverse applications across the country and has an excellent reputation for accuracy and credibility. The systems used in the current simulations reflect the unique industrial structures and characteristics of the Texas economy and the counties, metropolitan areas, legislative districts, and regions within the state.

The basic USMRIAS modeling technique is known as dynamic input-output analysis. This methodology essentially uses extensive survey data, industry information, and a variety of corroborative source materials to create a matrix describing the various goods and services (known as resources or inputs) required to produce one unit (a dollar's worth) of output for a given sector. Once the base information is compiled, it can be mathematically simulated to generate evaluations of the magnitude of successive rounds of activity involved in the overall production process. The first phase of the analysis involves determining the magnitude of the direct effects. The data sources and assumptions used in determining direct effects are described below.

Cost of Cancer

The cost of cancer includes direct medical outlays for treatment and care and indirect costs such as diseaserelated work disability or premature mortality. Most studies of cancer costs reflect only the initial effect of the various categories of cost. However, these losses, in turn, generate further reductions in business activity. This more comprehensive measure was the approach utilized by The Perryman Group. An important source of input data is the Texas Cancer Registry, which includes information regarding treatment costs and income losses attributable to morbidity and mortality. Though this is an excellent source of the necessary input data, it is characterized by a significant time lag. In order to assess the full economic effects as of 2016, TPG updated these estimates using a projection model based on population growth and composition, overall inflation, and heath care costs. Patterns in mortality and morbidity were also updated using recent data from the American Cancer Society. This segment of the analysis indicates that the annual direct medical costs and morbidity and mortality losses associated with cancer within the state are now estimated to total more than \$34.9 billion, up from \$31.3 billion last year and an increase of 59.4% since 2007, the base year of the original Texas cancer cost study conducted by researchers from the University of Texas Medical Branch (UTMB). The Perryman Group also estimated the projected treatment cost of cancer in 2020 and how much it is expected to increase from 2010. Additionally, a breakout of the expenditures on cancer in 2015 by payer is provided. The cancer expenditures by Medicaid and CHIP were provided by Strategic Decision Support, Texas Health and Human Services based on data from AHQP Claims Universe, Texas Medicaid and Healthcare Partnership. All other cancer expenditures (private insurance, Medicare, other third-party payers, and out-of-pocket to patients) are approximations by The Perryman Group based on the best available data.



Because the treatment cost component represents a loss to various payers, there is a "multiplier" effect if these funds could be redeployed into business activity. To estimate the direct inputs for this segment of the analysis, the actual outlays are allocated based on the current incidence of health care spending across more than 500 industrial and consumer categories utilizing the direct requirements matrix from the USMRIAS.

The mortality and morbidity estimates TPG used include productivity assumptions reflecting historical patterns and future projections from the baseline forecast of the Texas Econometric Model. Average compensation (rather than per-capita) was used to better capture any disparity between state and national earning patterns. Because the values were computed in terms of lost income, they do not reflect the full extent of the losses to the economy. Foregone income necessarily means that production, spending, employment, and other measures of economic activity are also foregone. These aggregates were measured using relevant coefficients to capture the relationships among the pertinent variables, as well as data from the Regional Economic Information System of the US Department of Commerce. Because the original approach captures these overall income effects, there are no additional "multiplier" calculations applied to this segment of the analysis, with the exception of the induced spending derived from the higher earnings. The direct values in this category were assumed to follow standard consumer purchasing patterns for Texas as identified by ACCRA and the US Department of Labor.

An important element of this segment of the analysis was allocating cancer costs to various geographic areas. The regional allocations of various categories of direct effects were accomplished based on health spending, cancer incidence, and cancer mortality rates at the county level. The relevant information was obtained from the US Department of Commerce and the National Cancer Institute. The county-level submodels of the USMRIAS reflect the unique industrial composition and characteristics of each county and multi-county area analyzed. They also capture spillover effects across regions.

CPRIT Program Benefits

In determining the **benefits of CPRIT** programs, The Perryman Group utilized input information regarding employment and expenditure levels at the Institute.

In the case of the **cancer-related health costs saved through screening programs**, The Perryman Group utilized available studies of the returns on investment in cancer prevention and screening (including leveraged funds from other sources). These studies also formed the basis for estimates of the potential improvement in outcomes. TPG then used standard measures of productivity and worklife to obtain the likely incremental economic activity associated with reducing the incidence/severity of cancer through early detection. Because returns on direct spending for prevention and screening programs were estimated based on available studies of such returns, they are unlikely to be specific to Texas or the exact programs offered by the Institute and will be subject to some range of error. (The impacts in this year's report are slightly lower than last year but still significantly higher than in previous years due to recent and more specific research showing higher rates of return



from screening and prevention than in the past.) Results to date were incorporated to the extent possible in estimating these economic benefits.

Returns on investments in medical research include jobs created in the private sector, health care costs saved, the value of increased longevity, the value of reduced morbidity and disability, and the benefits of newer medicines and therapies. Job creation occurs not only directly through the scientists and staff in the research facilities, but also indirectly through the provision of business services needed by those institutions and other multiplier effects. Additionally, revenues from licensing and royalty streams are economic gains generated by research and development facilities. Attracting matching funds further enhances these economic benefits. Although reporting on job creation is incomplete, the actual results to date are generally consistent with the estimates derived from the models.

TPG calculated the magnitude of these **secondary effects** based on typical annual rates of return to health-related research, the addition of new researchers each year, and standard patterns in spinoff companies from research outlays (fully adjusted for attrition). Spinoff firms from these investments were estimated using information from the Association of University Technology Managers (AUTM) which was fully adjusted for attrition, as well as data from the US Department of Commerce regarding typical firm size (excluding large pharmaceutical manufacturers). This information was fully updated for the current analysis. Available program data to date is highly consistent with these estimates.

The Perryman Group also estimated the outcomes-based economic benefits of CPRIT's programs (such as reduced morbidity and mortality). An important aspect of CPRIT's spending on prevention and screening programs is the reduced incidence and severity of cancer cases through earlier detection, and many studies have demonstrated the secondary or downstream benefits of such programs in terms of reduced health care costs, morbidity, and mortality.

For the **secondary impact of CPRIT research**, The Perryman Group measured the positive economic effects of research activities beyond the initial stimulus. Research leads to better cancer outcomes (and, thus, lower costs), spinoff activity, and the attraction of top researchers (and associated grant inflows). Many studies over an extended period of time support the conclusion that investing in medical and cancer research can yield returns far in excess of initial outlays. The Perryman Group utilized studies of the relationship between research and reduced treatment costs (as well as reduced morbidity and mortality) to estimate the positive economic outcomes in these areas stemming from the Institute's research support.

In addition, the economic benefits of new cancer-related therapeutics, diagnostics, and devices are estimated based on available empirical analyses of typical rates of return. Direct investments from other sources, including annual rates of federal R&D expenditures, are also quantified. Estimates of spinoff firms were derived through information sources such as studies by AUTM and others regarding typical firm formation rates until sufficient time elapses to have actual information. Based on the results available to date, these estimates are highly consistent with actual outcomes. As noted, a number of CPRIT grants have resulted in published papers and notable findings which are likely to lead to significant returns over time; specific results were incorporated to the extent possible. However, anticipated returns are of necessity partially estimated based on typical responses



observed in other contexts because it is still relatively early in the life of CPRIT and its programs and there is a substantial lag between the creation of new ideas and their translation into health (and, hence, market) benefits. In fact, many of the benefits of CPRIT activities will continue to occur decades into the future. Over time, the results of more specific initiatives will become known and increasingly specific measures can be developed (and have been over the past few years). For example, the current estimates reflect the recruitment of scholars to date and leveraged funds associated with CPRIT grants. Because research benefits are ongoing and continue to provide benefits beyond the initial year of the outlays, they rise substantially over time due to the compounding effects of the grants and related matching funds. It should be noted that, at the direction of the Texas Legislature, grant activity was suspended for a substantial portion of Fiscal Year 2013. As a result, impacts that year were substantially lower than in prior years. Fiscal Years 2014, 2015, and 2016 saw a return to more normal conditions, which led to a significant rise in the effects in certain categories relative to 2013.

Potential Economic Development and Societal Gains

Illustrations of potential economic development and societal gains are derived from analysis of the likely range of potential outcomes. They are forward-looking in nature, and more appropriately measured over a relatively extended time horizon. Inputs are based on reputable academic studies; nonetheless, they are subject to a range of error and changing conditions can affect actual results. Although the models used in this process have been maintained for more than 35 years and are widely used and accepted, all economic models are based on estimates and do not give perfect results.

An important role of CPRIT activity is as a **catalyst for economic development**. Investments in cancer research can be crucial to attracting top researchers and startup companies, which can later go on to grow into larger firms within the state. Even beyond the sizable economic benefits of the Institute's operations, screening, prevention, and research activity, the program has the potential to help establish Texas at the forefront of cancer research and related industries. The economic growth accruing from such a situation would be substantial. TPG measured the benefits that would occur if CPRIT, in conjunction with other ongoing initiatives, serves as a catalyst for greater economic development in the biomedical and pharmaceutical arena.

The Perryman Group developed scenarios to illustrate the potential economic development effects of Institute activities and measure gains in business activity above baseline projections. Scenarios involve the economic stimulus associated with a shift in Texas' relative position in industries related to the Institute (such as the biomedical industry cluster). The scenarios chosen are based on indications of the catalytic effect of the Institute (such as new company locations and related industrial development).

As this process occurs, supplier networks, training programs, related companies, and other resources tend to congregate, thus resulting in the establishment of a cluster of economic activity. Given the state's efforts to attract biomedical industries, CPRIT activity could serve as an impetus for a major concentration of emerging



biomedical production sectors and, in fact, the results over time suggest that this phenomenon has already occurred.

The Perryman Group developed two scenarios to illustrate the potential economic development effects of CPRIT initiatives. Only incremental gains above baseline projections (as derived from the Texas Econometric Model) are included.

- Scenario I assumes Texas achieves a concentration in the biomedical industry (pharmaceuticals and medical equipment) by 2040 equivalent to that of the US.
- Scenario II presumes Texas achieves a concentration in the biomedical industry
 (pharmaceuticals and medical equipment) by 2040 equivalent to that of California. While
 there are certainly states with a higher relative presence in these sectors, California is
 representative of a large state that has strategically used its academic research capabilities to
 foster industrial development. The CPRIT initiative offers Texas an opportunity to leverage
 research into an enhanced presence in associated industries such as biomedicine and
 pharmaceuticals in a similar manner.

In addition, the research funded through CPRIT could help **reduce cancer incidence and severity**, thereby shrinking the enormous cost of the disease. The Perryman Group developed a scenario to illustrate the potential economic benefit of reducing cancer incidence in Texas which measures a shift in Texas' cancer incidence and death rates over time to the levels observed in other states. TPG quantified the gains that would occur in Texas and the US if research breakthroughs that were facilitated by CPRIT funding were able to reduce cancer incidence and death rates in the state and nation over time to a level equal to the current rate of the five states with the lowest prevalence.

The Perryman Group also determined the anticipated economic losses from not extending CPRIT's operations and programs an additional ten years beyond the original mission. The losses were estimated on both a gross and net basis and compared to the situation where CPRIT's programs are continued for a cumulative ten-year extension period with sustainable funding at the stabilized levels currently anticipated for the final year of the current program. The measured impacts do not include the residual benefits of the initial ten-year commitment as those gains will accrue irrespective of whether or not the extension occurs.

Once these direct gains were quantified, they were utilized as inputs into The Perryman Group's impact assessment system, the USMRIAS. The USMRIAS is somewhat similar in format to the Input-Output Model of the United States and the Regional Input-Output Modeling System, both of which are maintained by the US Department of Commerce. The model developed by TPG, however, incorporates several important enhancements and refinements. Specifically, the expanded system includes (1) comprehensive 500-sector coverage for any county, multi-county, or urban region; (2) calculation of both total expenditures and value-added by industry and region; (3) direct estimation of expenditures for multiple basic input choices (expenditures, output, income, or employment); (4) extensive parameter localization; (5) price adjustments for real and nominal assessments by sectors and areas; (6) measurement of the induced impacts associated with payrolls and consumer spending; (7) embedded modules to estimate multi-sectoral direct spending effects; (8) estimation of



retail spending activity by consumers; and (9) comprehensive linkage and integration capabilities with a wide variety of econometric, real estate, occupational, and fiscal impact models.

The impact assessment (input-output) process essentially estimates the amounts of all types of goods and services required to produce one unit (a dollar's worth) of a specific type of output. For purposes of illustrating the nature of the system, it is useful to think of inputs and outputs in dollar (rather than physical) terms. As an example, the construction of a new building will require specific dollar amounts of lumber, glass, concrete, hand tools, architectural services, interior design services, paint, plumbing, and numerous other elements. Each of these suppliers must, in turn, purchase additional dollar amounts of inputs. This process continues through multiple rounds of production, thus generating subsequent increments to business activity. The initial process of building the facility is known as the *direct effect*. The ensuing transactions in the output chain constitute the *indirect effect*.

Another pattern that arises in response to any direct economic activity comes from the payroll dollars received by employees at each stage of the production cycle. As workers are compensated, they use some of their income for taxes, savings, and purchases from external markets. A substantial portion, however, is spent locally on food, clothing, health care services, utilities, housing, recreation, and other items. Typical purchasing patterns in the relevant areas are obtained from the ACCRA Cost of Living Index, a privately compiled inter-regional measure which has been widely used for several decades, and the Consumer Expenditure Survey of the US Department of Labor. These initial outlays by area residents generate further secondary activity as local providers acquire inputs to meet this consumer demand. These consumer spending impacts are known as the induced effect. The USMRIAS is designed to provide realistic, yet conservative, estimates of these phenomena.

Sources for information used in this process include the Bureau of the Census, the Bureau of Labor Statistics, the Regional Economic Information System of the US Department of Commerce, and other public and private sources. The pricing data are compiled from the US Department of Labor and the US Department of Commerce. The verification and testing procedures make use of extensive public and private sources.

The USMRIAS generates estimates of the effect on several measures of business activity. The most comprehensive measure of economic activity used in this study is **Total Expenditures**. This measure incorporates every dollar that changes hands in any transaction. For example, suppose a farmer sells wheat to a miller for 0.50; the miller then sells flour to a baker for 0.75; the baker, in turn, sells bread to a customer for 1.25. The Total Expenditures recorded in this instance would be 0.50, that is, 0.50 + 0.75 + 1.25. This measure is quite broad, but is useful in that (1) it reflects the overall interplay of all industries in the economy, and (2) some key fiscal variables such as sales taxes are linked to aggregate spending.

A second measure of business activity frequently employed in this analysis is that of **Gross Product**. This indicator represents the regional equivalent of Gross Domestic Product, the most commonly reported statistic regarding national economic performance. In other words, the Gross Product of Arkansas is the amount of US output that is produced in that state; it is defined as the value of all final goods produced in a given region for a specific period of time. Stated differently, it captures the amount of value-added (gross area product) over intermediate goods and services at each stage of the production process, that is, it eliminates the double counting in the Total



Expenditures concept. Using the example above, the Gross Product is \$1.25 (the value of the bread) rather than \$2.50. Alternatively, it may be viewed as the sum of the value-added by the farmer, \$0.50; the miller, \$0.25 (\$0.75 - \$0.50); and the baker, \$0.50 (\$1.25 - \$0.75). The total value-added is, therefore, \$1.25, which is equivalent to the final value of the bread. In many industries, the primary component of value-added is the wage and salary payments to employees.

The third gauge of economic activity used in this evaluation is **Personal Income**. As the name implies, Personal Income is simply the income received by individuals, whether in the form of wages, salaries, interest, dividends, proprietors' profits, or other sources. It may thus be viewed as the segment of overall impacts which flows directly to the citizenry.

The fourth measure, **Retail Sales**, represents the component of Total Expenditures which occurs in retail outlets (general merchandise stores, automobile dealers and service stations, building materials stores, food stores, drugstores, restaurants, and so forth). Retail Sales is a commonly used measure of consumer activity.

The final aggregates used are **Permanent Jobs and Person-Years of Employment**. The Person-Years of Employment measure reveals the full-time equivalent jobs generated by an activity. It should be noted that, unlike the dollar values described above, Permanent Jobs is a "stock" rather than a "flow." In other words, if an area produces \$1 million in output in 2010 and \$1 million in 2011, it is appropriate to say that \$2 million was achieved in the 2010-2011 period. If the same area has 100 people working in 2010 and 100 in 2011, it only has 100 Permanent Jobs. When a flow of jobs is measured, such as in a construction project or a cumulative assessment over multiple years, it is appropriate to measure employment in Person-Years (a person working for a year). This concept is distinct from Permanent Jobs, which anticipates that the relevant positions will be maintained on a continuing basis.



Appendix C: Detailed Sectoral Results



Total Annual Impact of Direct Medical Expenses and Related Outlays Associated with Cancer Treatment



Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)
Agriculture	(\$886,437,938)	(\$243,000,018)	(\$159,858,180)	(2,508)
Mining	(\$1,443,077,167)	(\$329,676,453)	(\$169,100,080)	(892)
Construction	(\$1,220,064,388)	(\$621,950,531)	(\$512,526,086)	(7,248)
Nondurable Manufacturing	(\$5,309,565,576)	(\$1,496,641,838)	(\$778,907,581)	(12,284)
Durable Manufacturing	(\$1,848,555,916)	(\$738,112,299)	(\$481,817,358)	(6,255)
Transportation and Utilities	(\$5,618,429,948)	(\$1,931,346,975)	(\$1,159,279,466)	(13,877)
Information	(\$1,175,303,845)	(\$720,573,656)	(\$311,221,937)	(2,891)
Wholesale Trade	(\$1,565,211,882)	(\$1,059,052,710)	(\$610,659,126)	(6,853)
Retail Trade (including Restaurants)	(\$6,289,186,456)	(\$4,719,726,433)	(\$2,744,035,194)	(84,466)
FIRE	(\$9,174,130,207)	(\$3,138,477,860)	(\$1,320,561,388)	(14,425)
Business Services	(\$2,826,727,677)	(\$1,797,955,819)	(\$1,466,671,207)	(17,936)
Health Services	(\$8,230,604,881)	(\$6,087,690,511)	(\$5,147,198,645)	(85,582)
Other Services	(\$2,923,950,637)	(\$1,508,458,744)	(\$1,204,107,688)	(28,794)
TOTAL	(\$48,511,246,517)	(\$24,392,663,846)	(\$16,065,943,936)	(284,012)
Source: The Perryman Gro	up			



	Comptroller's Economic Region Results						
Economic	Total Expenditures	Gross Product	Personal Income	Real Retail Sales	Employment		
Region	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(Permanent Jobs)		
High Plains	(\$1,654,478,866)	(\$855,305,814)	(\$563,838,189)	(\$243,026,881)	-10,188		
Northwest Texas	(\$1,353,887,339)	(\$709,051,137)	(\$472,164,715)	(\$210,556,140)	-8,645		
Metroplex	(\$12,620,286,309)	(\$6,328,866,275)	(\$4,127,166,740)	(\$1,552,449,978)	-72,083		
Upper East Texas	(\$2,903,737,781)	(\$1,500,763,375)	(\$1,004,219,023)	(\$430,194,308)	-18,266		
Southeast Texas	(\$1,975,416,266)	(\$1,031,774,267)	(\$699,590,990)	(\$310,192,520)	-12,769		
Gulf Coast	(\$11,772,183,366)	(\$5,584,034,001)	(\$3,653,200,531)	(\$1,250,323,707)	-62,043		
Capital	(\$2,616,835,351)	(\$1,383,000,439)	(\$912,466,862)	(\$371,975,214)	-16,244		
Central Texas	(\$2,219,711,983)	(\$1,158,385,776)	(\$771,169,676)	(\$332,366,357)	-14,145		
Alamo	(\$5,155,089,097)	(\$2,652,713,552)	(\$1,753,961,266)	(\$700,202,953)	-31,377		
South Texas	(\$3,522,755,131)	(\$1,819,865,954)	(\$1,215,778,461)	(\$522,622,351)	-22,294		
West Texas	(\$1,100,063,081)	(\$554,956,044)	(\$364,893,190)	(\$165,229,842)	-6,617		
Upper Rio Grande	(\$1,616,801,948)	(\$813,947,209)	(\$527,494,294)	(\$200,046,205)	-9,341		
TOTAL STATE IMPACT	(\$48,511,246,517)	(\$24,392,663,846)	(\$16,065,943,936)	(\$6,289,186,456)	-284,012		
SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group							



	Total Expenditures	Gross Product	Personal Income	Real Retail Sales	Employment
COG	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(Permanent Jobs)
Panhandle	(\$837,777,763)	(\$425,682,243)	(\$279,806,551)	(\$124,755,131)	-5,071
South Plains	(\$816,701,103)	(\$429,623,571)	(\$284,031,637)	(\$118,271,750)	-5,117
Nortex	(\$542,810,317)	(\$288,732,358)	(\$193,361,893)	(\$87,405,840)	-3,547
North Central Texas	(\$12,101,984,740)	(\$6,054,383,477)	(\$3,942,650,497)	(\$1,471,896,327)	-68,697
Ark-Tex	(\$673,626,276)	(\$352,120,200)	(\$237,868,230)	(\$106,811,560)	-4,374
East Texas	(\$2,230,111,505)	(\$1,148,643,175)	(\$766,350,793)	(\$323,382,748)	-13,891
West Central Texas	(\$811,077,022)	(\$420,318,780)	(\$278,802,822)	(\$123,150,300)	-5,098
Rio Grande	(\$1,616,801,948)	(\$813,947,209)	(\$527,494,294)	(\$200,046,205)	-9,341
Permian Basin	(\$738,488,660)	(\$372,735,106)	(\$246,258,924)	(\$112,541,668)	-4,439
Concho Valley	(\$361,574,421)	(\$182,220,939)	(\$118,634,266)	(\$52,688,174)	-2,178
Heart of Texas	(\$915,062,027)	(\$465,202,718)	(\$306,432,135)	(\$126,945,837)	-5,586
Capital Area	(\$2,616,835,351)	(\$1,383,000,439)	(\$912,466,862)	(\$371,975,214)	-16,244
Brazos Valley	(\$532,882,688)	(\$277,797,269)	(\$184,507,805)	(\$83,579,147)	-3,395
Deep East Texas	(\$1,002,404,855)	(\$529,536,339)	(\$357,958,447)	(\$161,300,975)	-6,596
South East Texas	(\$973,011,410)	(\$502,237,928)	(\$341,632,542)	(\$148,891,545)	-6,173
Houston-Galveston Area	(\$11,772,183,366)	(\$5,584,034,001)	(\$3,653,200,531)	(\$1,250,323,707)	-62,043
Golden Crescent	(\$448,125,152)	(\$229,540,723)	(\$154,253,796)	(\$67,947,699)	-2,801
Alamo Area	(\$4,707,933,042)	(\$2,423,594,374)	(\$1,599,961,535)	(\$632,367,789)	-28,580
South Texas	(\$337,579,931)	(\$180,473,140)	(\$121,947,640)	(\$57,954,469)	-2,283
Coastal Bend	(\$1,309,191,589)	(\$642,341,898)	(\$426,459,669)	(\$184,985,948)	-7,693
Lower Rio Grande Valley	(\$1,611,822,424)	(\$855,108,406)	(\$571,772,950)	(\$236,648,414)	-10,532
Texoma	(\$518,301,569)	(\$274,482,798)	(\$184,516,244)	(\$80,553,650)	-3,386
Central Texas	(\$771,767,268)	(\$415,385,790)	(\$280,229,736)	(\$121,841,373)	-5,164
Middle Rio Grande	(\$263,192,090)	(\$141,520,967)	(\$95,344,138)	(\$42,920,984)	-1,782
Border Region	(\$3,831,284,722)	(\$1,992,089,278)	(\$1,317,254,027)	(\$537,923,764)	-23,951
TOTAL STATE	(\$48,511,246,517)	(\$24,392,663,846) nt System, The Perryman	(\$16,065,943,936)	(\$6,289,186,456)	-284,012



The Total Annual Impact of Direct Medical Expenses and Related Outlays Associated with Cancer Treatment on Business Activity in Texas: Metropolitan Statistical Area (MSA) and Rural Texas Results

	Total	`	Personal	Real Retail	
	Expenditures	Gross Product	Income	Sales	Employment
MSA	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(Permanent Jobs)
Abilene	(\$396,170,717)	(\$201,221,342)	(\$132,642,722)	(\$53,210,703)	-2,372
Amarillo	(\$554,977,756)	(\$290,284,978)	(\$191,602,753)	(\$79,276,905)	-3,440
Austin-Round Rock	(\$2,252,106,214)	(\$1,198,112,928)	(\$791,066,000)	(\$319,312,778)	-14,035
Beaumont-Port Arthur	(\$989,918,539)	(\$512,331,943)	(\$348,730,151)	(\$152,709,890)	-6,306
Brownsville- Harlingen	(\$652,547,966)	(\$338,728,327)	(\$224,230,994)	(\$92,407,402)	-4,128
College Station- Bryan	(\$343,686,693)	(\$177,982,864)	(\$118,176,554)	(\$51,719,368)	-2,167
Corpus Christi	(\$1,037,676,233)	(\$499,863,611)	(\$330,722,007)	(\$138,787,697)	-5,905
Dallas-Plano-Irving MD*	(\$7,358,262,378)	(\$3,662,933,332)	(\$2,367,861,875)	(\$854,654,750)	-40,720
Fort Worth- Arlington MD*	(\$4,467,285,493)	(\$2,249,859,045)	(\$1,480,179,324)	(\$575,631,423)	-26,230
El Paso	(\$1,571,671,448)	(\$790,182,417)	(\$511,764,079)	(\$192,465,694)	-9,050
Houston-The Woodlands-Sugar Land	(\$11,321,734,469)	(\$5,347,692,739)	(\$3,494,077,429)	(\$1,175,819,381)	-59,072
Killeen-Temple	(\$668,909,993)	(\$361,179,328)	(\$243,534,921)	(\$103,918,359)	-4,478
Laredo	(\$256,342,406)	(\$135,633,818)	(\$90,997,283)	(\$41,807,155)	-1,686
Longview	(\$543,148,739)	(\$281,563,669)	(\$189,618,479)	(\$80,841,549)	-3,425
Lubbock	(\$633,154,835)	(\$336,213,973)	(\$222,845,513)	(\$86,289,934)	-3,971
McAllen-Edinburg- Mission	(\$927,253,434)	(\$498,624,204)	(\$335,710,631)	(\$138,371,292)	-6,180
Midland	(\$230,879,291)	(\$117,122,058)	(\$76,561,642)	(\$33,366,733)	-1,349
Odessa	(\$263,371,874)	(\$134,854,716)	(\$91,121,986)	(\$39,089,290)	-1,639
San Angelo	(\$260,185,171)	(\$130,792,318)	(\$84,806,831)	(\$35,746,198)	-1,553
San Antonio-New Braunfels	(\$4,396,113,689)	(\$2,263,537,446)	(\$1,493,896,160)	(\$585,300,172)	-26,627
Sherman-Denison	(\$320,751,059)	(\$173,712,931)	(\$117,257,975)	(\$50,600,247)	-2,162
Texarkana	(\$223,891,776)	(\$120,853,165)	(\$81,829,776)	(\$34,532,870)	-1,488
Tyler	(\$573,951,151)	(\$290,727,320)	(\$189,521,724)	(\$77,386,420)	-3,407
Victoria	(\$234,512,928)	(\$119,444,306)	(\$80,443,265)	(\$34,372,996)	-1,440
Waco	(\$659,466,901)	(\$334,236,165)	(\$218,773,087)	(\$86,575,242)	-3,951
Wichita Falls	(\$336,960,956)	(\$182,937,442)	(\$123,080,041)	(\$53,829,321)	-2,245
Rural Area	(\$7,036,314,409)	(\$3,642,037,460)	(\$2,434,890,734)	(\$1,121,162,689)	-44,984
TOTAL STATE IMPACT	(\$48,511,246,517)	(\$24,392,663,846)	(\$16,065,943,936)	(\$6,289,186,456)	-284,012
*Metropolitan Division			_		



County Expenditures (2016 Dollars) (2016		with Cancer Treatme	ent on Business	s Activity in Tex	as: County Resi	
Andrews (\$23,399,602) (\$11,551,019) (\$7,371,215) (\$3,726,378) (131) Angelina (\$219,011,193) (\$114,593,647) (\$76,992,525) (\$33,333,812) (1413) Aransas (\$90,633,334,22) (\$4,370,338) (\$27,631,643) (\$13,829,135) (\$08) Archer (\$15,060,285) (\$7,445,591) (\$4,767,840) (\$2,624,379) (90) Armstrong (\$6,669,861) (\$3,942,499) (\$2,020,593) (\$500,808) (35) Austin (\$64,433,193) (\$30,225,417) (\$19,377,034) (\$8,016,434) (329) Bailey (\$8,866,599) (\$45,484,78) (\$2,281,162) (\$10,005,01) (522 Bardra (\$59,565,277) (\$23,702,22) (\$19,222,824) (\$9,152,527) (357 Baylor (\$14,601,488) (\$75,948,601) (\$49,459,566) (\$23,421,599) (91 Baylor (\$14,601,488) (\$75,814,801) (\$52,277,683) (\$22,181,799) (96) Baylor (\$14,061,489) (\$272,182,833) (\$14,118,164) (\$76,893,581)	County					
Angelina (\$219,011,193) (\$114,593,647) (\$76,995,258) (\$33,333,812) (1,143) Aransas (\$93,633,422) (\$43,370,338) (\$27,631,643) (\$13,629,155) (\$08 Archer (\$15,600,285) (\$24,459) (\$2,020,533) (\$608,808) (35 Arlascosa (\$91,403,776) (\$45,680,841) (\$30,290,516) (\$12,10,015) (\$40,200,400) Austin (\$64,433,193) (\$30,295,417) (\$19,377,034) (\$80,616,444) (\$22,920,222) Bailey (\$8,866,359) (\$4,548,478) (\$2,281,162) (\$1,600,501) (\$22,821,422) Bardera (\$55,560,566) (\$75,946,601) (\$94,945,566) (\$23,421,599) (914 Baylor (\$14,501,408) (\$7,814,291) (\$52,277,683) (\$2,216,179) (96) Bel (\$490,944,659) (\$272,188,283) (\$184,1194,481,494) (\$2,242,181,179) (96) Bel (\$490,944,659) (\$272,188,283) (\$184,1194,481,494) (\$2,242,181,179) (96) Belac (\$4,70,61,066) (\$25,382,463) (\$18,24,	Anderson	(\$115,791,558)	(\$63,799,516)	(\$43,374,184)	(\$18,097,272)	(787)
Aransas (\$93,633,422) (\$43,370,338) (\$27,631,643) (\$13,829,135) (\$08) Archer (\$15,000,285) (\$7,445,591) (\$4,767,840) (\$26,24,379) (90) Armstrong (\$55,669,851) (\$24,494) (\$20,205,933) (\$608,808) (\$35) Atascosa (\$91,403,756) (\$45,268,094) (\$30,290,516) (\$12,710,015) (\$40) Austin (\$64,433,193) (\$50,295,417) (\$19,377,034) (\$8,016,434) (\$22) Bailey (\$88,866,359) (\$45,484,478) (\$2,851,1612) (\$10,005) (\$52,016,527) Bastrop (\$152,016,666) (\$75,946,601) (\$49,495,666) (\$23,421,599) (914 Baylor (\$14,501,488) (\$78,414,291) (\$52,277,683) (\$23,481,799) (912 Bee (\$47,061,066) (\$252,382,463) (\$17,288,235) (\$7,993,720) (323 Belar (\$490,494,659) (\$272,188,283) (\$141,164) (\$76,899,586) (3,344) Bewar (\$3,527,145,295) (\$1,827,993,323) (\$451,944,943) (\$11,9	Andrews	(\$23,399,602)	(\$11,551,019)	(\$7,371,215)	(\$3,725,378)	(131)
Archer (\$15,060,285) (\$7,445,591) (\$4,767,840) (\$2,243,739) (90) Armstrong (\$5,669,851) (\$2,942,499) (\$2,000,593) (\$600,808) (35) Alassocsa (\$91,403,756) (\$45,288,8094) (\$30,200,516) (\$17,1015) (\$40 Austin (\$64,433,133) (\$30,295,417) (\$19,377,034) (\$8,016,434) (329) Bailey (\$8,866,359) (\$45,848,478) (\$22,824) (\$10,00,501) (\$22 Bandera (\$59,565,277) (\$29,705,322) (\$19,222,824) (\$9,152,27) (\$367,946,601) (\$49,489,566) (\$23,242,1599) (\$141 Baylor (\$14,501,488) (\$7,814,291) (\$52,77,683) (\$2,318,179) (\$96 Bee (\$47,061,066) (\$25,382,463) (\$1,267,942,983) (\$451,964,924) (\$21,305) Bell (\$499,494,659) (\$27,218,283) (\$148,1116) (\$7,689,956) (3,344) Bevar (\$31,527,145,295) (\$13,827,903,316) (\$1,207,942,983) (\$451,964,924) (\$21,305) Barcar (\$24,14	Angelina	(\$219,011,193)	(\$114,593,647)	(\$76,995,258)	(\$33,333,812)	(1,413)
Armstrong (\$5,669,851) (\$2,942,499) (\$2,020,593) (\$600,808) (35) Atascosa (\$91,403,756) (\$45,288,094) (\$30,290,516) (\$12,710,015) (540) Austin (\$64,433,193) (\$30,295,417) (\$19,377,034) (\$8,016,434) (322) Bailey (\$88,866,359) (\$45,48,478) (\$2,851,162) (\$1,600,501) (\$22 Bardera (\$95,655,277) (\$229,705,232) (\$19,222,824) (\$9,512,527) (\$57 Bastrop (\$145,501,488) (\$75,846,601) (\$49,459,566) (\$223,421,599) (914) Beaylor (\$14,501,488) (\$75,842,91) (\$5,277,683) (\$23,41,599) (96) Bee (\$47,061,066) (\$25,382,463) (\$11,262,803) (\$51,297,993,790) (\$23,381,779) (96) Beavar (\$45,504,659) (\$272,182,803) (\$14,116,14) (\$76,899,586) (\$3,364) Beavar (\$35,871,452,995) (\$18,827,903,316) (\$12,207,942,993) (\$451,964,924) (\$21,305 Braviar (\$65,548,832) (\$21,962,594)	Aransas	(\$93,633,422)	(\$43,370,338)	(\$27,631,643)	(\$13,829,135)	(508)
Alascosa (\$91,403,756) (\$45,268,094) (\$30,290,516) (\$12,710,015) (540) Austin (\$64,433,193) (\$30,295,417) (\$13,377,034) (\$8,016,434) (329) Bailey (\$8,866,359) (\$4,548,478) (\$2,851,162) (\$10,0501) (\$22 Bandera (\$559,565,277) (\$29,705,232) (\$19,222,824) (\$9,512,527) (\$57 Bastrop (\$152,601,686) (\$7,5946,601) (\$49,459,566) (\$23,421,599) (914) Baylor (\$14,501,488) (\$7,814,291) (\$49,527,683) (\$2,318,179) (96) Bee (\$47,061,066) (\$25,382,463) (\$17,288,255) (\$7,999,720) (323 Bell (\$499,494,659) (\$227,182,823) (\$184,118,164) (\$76,899,586) (3,364) Bexar (\$3,527,145,295) (\$1,827,903,316) (\$1,207,942,993) (\$451,964,924) (21,305 Blanco (\$24,149,453) (\$11,982,590) (\$7,735,244) (\$3,485,116) (\$142 Broden (\$5,51,4120 (\$2,984,834) (\$1,735,244) (\$3,485,11	Archer	(\$15,060,285)	(\$7,445,591)	(\$4,767,840)	(\$2,624,379)	(90)
Austin (\$64,433,193) (\$30,295,417) (\$19,377,034) (\$8,016,434) (329) Bailey (\$8,866,359) (\$45,484,78) (\$2,881,162) (\$1,600,501) (52) Bardera (\$55,655,277) (\$22,705,232) (\$19,222,824) (\$9,512,527) (357) Bastrop (\$152,601,666) (\$75,946,601) (\$494,956,66) (\$23,421,599) (914) Baylor (\$14,601,488) (\$7,814,291) (\$5,277,683) (\$2,318,179) (96) Bee (\$47,061,066) (\$25,382,463) (\$17,288,235) (\$7,993,720) (323 Bell (\$499,944,659) (\$27,188,283) (\$18,4118,144) (\$76,899,586) (33,44) Beara (\$3,527,145,295) (\$11,92,280) (\$7,752,244) (\$3,495,149) (\$1,005) Blanco (\$24,149,453) (\$11,92,823) (\$41,946,924) (\$3,000) (\$7,755,244) (\$3,495,116) (\$142,205) Barace (\$23,811,419 (\$22,80,99,228) (\$18,925,566) (\$7,036,783) (\$411,200,451) (\$18,99,256) (\$7,036,783) (\$411,200,451)	Armstrong	(\$5,669,851)	(\$2,942,499)	(\$2,020,593)	(\$608,808)	(35)
Bailey (\$8,866,359) (\$4,548,478) (\$2,851,162) (\$1,600,501) (\$2,851,627) Bandera (\$59,565,277) (\$29,705,232) (\$19,222,824) (\$9,512,527) (357) Bastrop (\$152,601,666) (\$75,946,601) (\$49,459,566) (\$23,421,599) (914) Baylor (\$14,501,488) (\$7,814,291) (\$52,77,683) (\$2,318,179) (96 Bee (\$47,610,666) (\$25,382,463) (\$12,728,235) (\$7,993,720) (323) Bell (\$499,494,659) (\$272,188,233) (\$14,18,164) (\$76,899,566) (3,364) Bewar (\$3,527,145,255) (\$1,827,903,316) (\$12,07,942,933) (\$491,949,494) (21,305) Banco (\$24,149,453) (\$11,962,580) (\$7,735,284) (\$3,495,116) (142 Borque (\$55,581,832) (\$22,964,834) (\$17,894,266) (\$9,002,14) (30 Bosque (\$55,618,332) (\$22,964,834) (\$17,894,266) (\$7,063,368) (\$14,142) Bowie (\$223,891,776) (\$120,853,165) (\$81,892,576) (Atascosa	(\$91,403,756)	(\$45,268,094)	(\$30,290,516)	(\$12,710,015)	(540)
Bandera (\$59,565,277) (\$29,705,232) (\$19,222,824) (\$9,512,527) (357) Bastrop (\$152,601,666) (\$75,946,601) (\$49,459,566) (\$23,421,599) (914) Baylor (\$14,501,488) (\$7,814,291) (\$52,277,683) (\$23,421,599) (9214) Bee (\$47,061,066) (\$25,382,463) (\$17,288,235) (\$7,993,720) (323) Bell (\$499,494,659) (\$272,188,283) (\$184,118,164) (\$76,899,586) (3,364) Bewar (\$3,527,145,295) (\$1,827,903,316) (\$1,207,942,983) (\$451,964,924) (21,005) Blanco (\$65,548,322) (\$1,962,580) (\$7,735,284) (\$34,95,116) (142) Borden (\$65,548,482) (\$28,968,334) (\$17,994,266) (\$500,214) (30) Boyle (\$253,818,124) (\$28,069,228) (\$18,992,596) (\$7,036,783) (341) Bowle (\$223,811,716) (\$120,085,165) (\$818,892,596) (\$7,036,783) (\$14,901) Brazoria (\$496,664,356) (\$213,085,165) (\$818,892,576)	Austin	(\$64,433,193)	(\$30,295,417)	(\$19,377,034)	(\$8,016,434)	(329)
Bastrop (\$152,601,666) (\$75,946,601) (\$44,9459,566) (\$23,421,599) (914) Baylor (\$14,501,488) (\$7,814,291) (\$5,277,683) (\$2,318,179) (96) Bee (\$47,061,066) (\$25,382,463) (\$17,286,235) (\$7,993,720) (323 Bell (\$499,494,669) (\$272,188,283) (\$184,118,164) (\$76,899,586) (3,364) Bexar (\$3,527,145,295) (\$1,827,903,316) (\$1,207,942,983) (\$451,964,924) (21,305) Blanco (\$6,54,432) (\$1,827,903,316) (\$7,735,284) (\$3,495,116) (142) Borden (\$6,554,832) (\$2,884,834) (\$1,789,426) (\$900,214) (30 Bosque (\$53,818,124) (\$28,092,28) (\$18,992,596) (\$7,036,783) (341) Bowie (\$233,818,176) (\$212,085,165) (\$81,892,576) (\$34,532,870) (1,488) Brazoria (\$496,964,356) (\$214,20,451) (\$15,992,153) (\$7,758,656) (2,945) Brazoria (\$250,661,935) (\$11,20,451) (\$10,606,892,153)	Bailey	(\$8,866,359)	(\$4,548,478)	(\$2,851,162)	(\$1,600,501)	(52)
Baylor (\$14,501,488) (\$7,814,291) (\$5,277,683) (\$2,318,179) (90) Bee (\$47,061,066) (\$25,382,463) (\$17,282,325) (\$7,993,720) (323) Bell (\$499,494,659) (\$272,182,463) (\$184,118,164) (\$76,899,566) (3,364) Bewar (\$3,527,146,295) (\$1,827,903,316) (\$1207,942,983) (\$451,964,924) (21,305) Blanco (\$24,149,453) (\$11,962,580) (\$7,735,284) (\$3,495,116) (142) Borque (\$6,554,832) (\$2,984,834) (\$1,789,426) (\$90,0214) (30) Bosque (\$53,818,124) (\$21,085,166) (\$18,992,576) (\$7,036,783) (341) Browie (\$223,891,776) (\$120,853,165) \$81,829,776) (\$34,532,870) (1488) Brazoria (\$496,964,356) (\$241,420,451) (\$159,982,153) (\$77,588,656) (2,945) Brazoria (\$496,964,356) (\$213,125,562) (\$88,188,961) (\$35,891,902) (1603) Brizzoria (\$257,096,827) (\$13,168,145) (\$16,27,911)	Bandera	(\$59,565,277)	(\$29,705,232)	(\$19,222,824)	(\$9,512,527)	(357)
Bee (\$47,061,066) (\$25,382,463) (\$17,288,235) (\$7,993,720) (323) Bell (\$498,494,659) (\$272,188,283) (\$184,118,164) (\$76,899,586) (3,364) Bexar (\$3,527,145,295) (\$1,827,903,316) (\$1,207,942,983) (\$45,1964,924) (21,305) Blanco (\$24,149,453) (\$11,962,580) (\$7,735,284) (\$3,495,116) (142) Borden (\$6,554,832) (\$2,984,834) (\$1,789,426) (\$900,214) (30 Bosque (\$53,818,124) (\$28,069,228) (\$18,992,596) (\$7,036,783) (314) Bowie (\$223,891,776) (\$120,853,165) (\$81,829,776) (\$34,528,670) (1,488) Brazoria (\$496,964,356) (\$241,420,451) (\$159,982,153) (\$77,588,656) (2,945) Brazoria (\$252,096,827) (\$133,125,562) (\$88,188,961) (\$35,891,802) (1,603) Breaveter (\$23,619,35) (\$11,320,669) (\$7,653,797) (\$3,277,425) (140 Briscoe (\$3,816,145) (\$1627,911) (\$1,001,667)	Bastrop	(\$152,601,666)	(\$75,946,601)	(\$49,459,566)	(\$23,421,599)	(914)
Bell (\$499,494,659) (\$272,188,283) (\$184,118,164) (\$76,899,586) (3,364) Bexar (\$3,527,145,295) (\$1,827,903,316) (\$1,207,942,983) (\$451,964,924) (21,305) Blanco (\$24,149,453) (\$1,962,580) (\$7,735,284) (\$3,495,116) (142) Borden (\$6,554,832) (\$2,984,834) (\$1,789,426) (\$900,214) (30) Bosque (\$53,818,124) (\$28,069,228) (\$18,992,596) (\$7036,783) (341) Bowie (\$223,891,776) (\$120,853,165) (\$81,829,776) (\$34,532,870) (1,488) Brazoria (\$496,964,356) (\$241,420,451) (\$159,982,153) (\$77,588,656) (2,945) Brazoria (\$496,964,356) (\$313,125,562) (\$88,188,961) (\$35,891,802) (1,603) Brewster (\$20,361,935) (\$11,320,669) (\$7,653,797) (\$3,277,425) (1,40) Briscoe (\$3,618,145) (\$1,627,911) (\$1,001,697) (\$3,277,425) (1,40) Brown (\$1,225,063) (\$6,913,635) (\$4,811,150)	Baylor	(\$14,501,488)	(\$7,814,291)	(\$5,277,683)	(\$2,318,179)	(96)
Bexar (\$3,527,145,295) (\$1,827,903,316) (\$1,207,942,983) (\$451,964,924) (21,305) Blanco (\$24,149,453) (\$11,962,580) (\$7,735,284) (\$3,495,116) (142) Borden (\$56,554,832) (\$2,984,834) (\$1,789,426) (\$900,214) (30) Bosque (\$53,818,124) (\$20,863,165) (\$81,829,776) (\$7,036,783) (341) Bowie (\$223,881,776) (\$120,853,165) (\$81,829,776) (\$34,532,870) (1,488) Brazoria (\$496,964,356) (\$241,420,451) (\$159,982,153) (\$77,588,656) (2,945) Brazos (\$257,096,827) (\$133,125,562) (\$88,188,961) (\$32,881,802) (1,603) Brexster (\$20,361,935) (\$11,320,669) (\$7,653,797) (\$3,277,425) (140) Briscoe (\$3,618,145) (\$6,913,635) (\$48,41,169) (\$23,981,16) (92 Brown (\$96,117,892) (\$540,636) (\$36,753,203) (\$17,186,498) (699 Burleson (\$41,480,434) (\$57,316,684) (\$37,325,501) <	Bee	(\$47,061,066)	(\$25,382,463)	(\$17,288,235)	(\$7,993,720)	(323)
Blanco (\$24,149,453) (\$11,962,580) (\$7,735,284) (\$3,495,116) (142) Borden (\$6,554,832) (\$2,984,834) (\$1,789,426) (\$900,214) (30) Bosque (\$53,818,124) (\$28,069,228) (\$18,992,596) (\$7,036,783) (341) Bowie (\$223,891,776) (\$120,853,165) (\$18,992,596) (\$7,036,783) (341) Brazoria (\$496,964,356) (\$241,420,451) (\$159,982,153) (\$77,588,656) (2,945) Brazora (\$257,996,827) (\$133,125,562) (\$88,188,961) (\$35,891,802) (1,603) Brewster (\$20,361,935) (\$11,320,669) (\$7,653,797) (\$3,277,425) (140) Briscoe (\$3,618,145) (\$1,627,911) (\$1,001,697) (\$635,231) (19 Brown (\$99,117,892) (\$4,046,636) (\$36,753,203) (\$17,186,498) (699 Burleson (\$43,416,953) (\$22,592,952) (\$15,027,470) (\$4,046,498) (678 Burleson (\$14,804,434) (\$57,316,884) (\$37,325,501) (\$14,647,063	Bell	(\$499,494,659)	(\$272,188,283)	(\$184,118,164)	(\$76,899,586)	(3,364)
Borden (\$6,554,832) (\$2,984,834) (\$1,789,426) (\$900,214) (30) Bosque (\$53,818,124) (\$28,069,228) (\$18,992,596) (\$7,036,783) (341) Bowie (\$223,891,776) (\$120,853,165) (\$81,829,776) (\$34,532,870) (1,488) Brazoria (\$496,964,356) (\$241,420,451) (\$159,982,153) (\$77,586,566) (2,945) Brazos (\$257,096,827) (\$133,125,562) (\$88,188,961) (\$35,891,802) (1603) Brewster (\$20,361,935) (\$11,320,669) (\$7,653,797) (\$3,277,425) (140) Briscoe (\$3,618,145) (\$11,320,669) (\$7,653,797) (\$32,277,425) (140) Brown (\$96,117,892) (\$54,046,636) (\$36,753,203) (\$17,186,498) (699) Burleson (\$94,114,804,434) (\$57,316,684) (\$37,325,501) (\$16,467,063) (678) Burnet (\$114,804,434) (\$57,316,684) (\$37,325,501) (\$16,467,063) (678) Caldwell (\$822,788,507) (\$24,036,502) (\$12,310,329)	Bexar	(\$3,527,145,295)	(\$1,827,903,316)	(\$1,207,942,983)	(\$451,964,924)	(21,305)
Bosque (\$53,818,124) (\$28,069,228) (\$18,992,596) (\$7,036,783) (341) Bowie (\$223,891,776) (\$120,853,165) (\$81,829,776) (\$34,532,870) (1,488) Brazoria (\$496,964,356) (\$241,420,451) (\$159,982,153) (\$77,588,656) (2,945) Brazos (\$257,096,827) (\$133,125,562) (\$88,188,961) (\$35,891,802) (1,603) Brewster (\$20,361,935) (\$11,320,669) (\$7,653,797) (\$3,277,425) (140) Briscoe (\$3,618,145) (\$1,627,911) (\$1,001,697) (\$635,231) (19) Brown (\$96,117,892) (\$54,046,636) (\$36,753,203) (\$17,186,498) (699 Burleson (\$43,416,953) (\$22,592,952) (\$15,027,470) (\$7,993,720) (280) Burnet (\$114,804,434) (\$57,316,684) (\$37,325,501) (\$16,467,063) (678) Caldwell (\$82,748,450) (\$42,136,445) (\$28,692,702) (\$12,310,329) (524) Callahan (\$39,620,185) (\$13,384,46) (\$28,692,702)	Blanco	(\$24,149,453)	(\$11,962,580)	(\$7,735,284)	(\$3,495,116)	(142)
Bowie (\$223,891,776) (\$120,853,165) (\$81,829,776) (\$34,532,870) (1,488) Brazoria (\$496,964,356) (\$241,420,451) (\$159,982,153) (\$77,588,656) (2,945) Brazos (\$257,096,827) (\$133,125,562) (\$88,188,961) (\$35,891,802) (1,603) Brewster (\$20,361,935) (\$11,320,669) (\$7,653,797) (\$3,277,425) (140) Briscoe (\$3,618,145) (\$1,627,911) (\$1,001,697) (\$635,231) (19) Brooks (\$12,225,063) (\$6,913,635) (\$4,841,150) (\$2,398,116) (92) Brown (\$96,117,892) (\$54,046,636) (\$36,753,203) (\$17,186,488) (699) Burleson (\$43,416,953) (\$22,592,952) (\$15,027,470) (\$7,993,720) (280) Burnet (\$114,804,434) (\$57,316,684) (\$37,325,501) (\$16,467,063) (678) Caldwell (\$82,748,460) (\$42,136,445) (\$28,692,702) (\$12,310,329) (524) Calmeron (\$6552,547,966) (\$33,8728,327) (\$224,230,94)	Borden	(\$6,554,832)	(\$2,984,834)	(\$1,789,426)	(\$900,214)	(30)
Brazoria (\$496,964,356) (\$241,420,451) (\$159,982,153) (\$77,588,656) (2,945) Brazos (\$257,096,827) (\$133,125,562) (\$88,188,961) (\$35,891,802) (1,603) Brewster (\$20,361,935) (\$11,320,669) (\$7,653,797) (\$3,277,425) (140) Briscoe (\$3,618,145) (\$1,627,911) (\$1,001,697) (\$635,231) (19) Brows (\$12,225,063) (\$6,913,635) (\$4,841,150) (\$2,398,116) (92) Brown (\$96,117,892) (\$54,046,636) (\$36,753,203) (\$17,186,498) (699) Burleson (\$43,416,953) (\$22,592,952) (\$15,027,470) (\$7,993,720) (280) Burnet (\$114,804,434) (\$57,316,684) (\$37,325,501) (\$16,467,063) (678) Burnet (\$141,804,434) (\$523,414,40) (\$28,692,702) (\$12,310,329) (\$224 Caldwell (\$82,748,450) (\$42,136,445) (\$2,892,702) (\$12,310,329) (\$224 Callahan (\$39,620,185) (\$19,338,406) (\$12,687,623) (Bosque	(\$53,818,124)	(\$28,069,228)	(\$18,992,596)	(\$7,036,783)	(341)
Brazos (\$257,096,827) (\$133,125,562) (\$88,188,961) (\$35,891,802) (1,603) Brewster (\$20,361,935) (\$11,320,669) (\$7,653,797) (\$3,277,425) (140) Briscoe (\$3,618,145) (\$1,627,911) (\$1,001,697) (\$635,231) (19) Brooks (\$12,225,063) (\$6,913,635) (\$4,841,150) (\$2,398,116) (92) Brown (\$96,117,892) (\$54,046,636) (\$36,753,203) (\$17,186,498) (699) Burleson (\$43,416,953) (\$22,592,952) (\$15,027,470) (\$7,993,720) (280) Burnet (\$114,804,434) (\$57,316,684) (\$37,325,501) (\$16,467,063) (678) Caldwell (\$82,748,450) (\$42,136,445) (\$28,692,702) (\$12,310,329) (524) Callahan (\$39,620,185) (\$19,338,406) (\$12,687,623) (\$5,995,290) (232) Cameron (\$652,547,966) (\$338,728,327) (\$224,230,994) (\$92,407,402) (4,128) Carson (\$6,521,338) (\$2,578,052) (\$1,510,082) (\$499	Bowie	(\$223,891,776)	(\$120,853,165)	(\$81,829,776)	(\$34,532,870)	(1,488)
Brewster (\$20,361,935) (\$11,320,669) (\$7,653,797) (\$3,277,425) (140) Briscoe (\$3,618,145) (\$1,627,911) (\$1,001,697) (\$635,231) (19) Brooks (\$12,225,063) (\$6,913,635) (\$4,841,150) (\$2,398,116) (92) Brown (\$96,117,892) (\$54,046,636) (\$36,753,203) (\$17,186,498) (699) Burleson (\$43,416,953) (\$22,592,952) (\$15,027,470) (\$7,993,720) (280) Burnet (\$114,804,434) (\$57,316,684) (\$37,325,501) (\$16,467,063) (678) Caldwell (\$82,748,450) (\$42,136,445) (\$28,692,702) (\$12,310,329) (524) Calloun (\$29,636,970) (\$12,358,444) (\$7,997,470) (\$4,014,184) (145) Callahan (\$33,602,185) (\$19,338,406) (\$12,687,623) (\$5,995,290) (232) Cameron (\$652,547,966) (\$338,728,327) (\$224,230,994) (\$92,407,402) (4,128) Carson (\$6,521,338) (\$2,576,052) (\$1,510,082) (\$499,230)	Brazoria	(\$496,964,356)	(\$241,420,451)	(\$159,982,153)	(\$77,588,656)	(2,945)
Briscoe (\$3,618,145) (\$1,627,911) (\$1,001,697) (\$635,231) (19) Brooks (\$12,225,063) (\$6,913,635) (\$4,841,150) (\$2,398,116) (92) Brown (\$96,117,892) (\$54,046,636) (\$36,753,203) (\$17,186,498) (699) Burleson (\$43,416,953) (\$22,592,952) (\$15,027,470) (\$7,993,720) (280) Burnet (\$114,804,434) (\$57,316,684) (\$37,325,501) (\$16,467,063) (678) Caldwell (\$82,748,450) (\$42,136,445) (\$28,692,702) (\$12,310,329) (524) Calhoun (\$29,636,970) (\$12,358,444) (\$7,957,470) (\$4,014,184) (145) Callahan (\$39,620,185) (\$19,338,406) (\$12,687,623) (\$5,995,290) (232) Cameron (\$652,547,966) (\$338,728,327) (\$224,230,994) (\$92,407,402) (4,128) Carson (\$6,521,338) (\$2,578,052) (\$1,510,082) (\$499,230) (25) Cass (\$7,546,742) (\$39,259,691) (\$26,635,277) (\$13,275,042) <td>Brazos</td> <td>(\$257,096,827)</td> <td>(\$133,125,562)</td> <td>(\$88,188,961)</td> <td>(\$35,891,802)</td> <td>(1,603)</td>	Brazos	(\$257,096,827)	(\$133,125,562)	(\$88,188,961)	(\$35,891,802)	(1,603)
Brooks (\$12,225,063) (\$6,913,635) (\$4,841,150) (\$2,398,116) (92) Brown (\$96,117,892) (\$54,046,636) (\$36,753,203) (\$17,186,498) (699) Burleson (\$43,416,953) (\$22,592,952) (\$15,027,470) (\$7,993,720) (280) Burnet (\$114,804,434) (\$57,316,684) (\$37,325,501) (\$16,467,063) (678) Caldwell (\$82,748,450) (\$42,136,445) (\$28,692,702) (\$12,310,329) (524) Calhoun (\$29,636,970) (\$12,358,444) (\$7,957,470) (\$4,014,184) (145) Callahan (\$39,620,185) (\$19,338,406) (\$12,687,623) (\$5,995,290) (232) Cameron (\$652,547,966) (\$338,728,327) (\$224,230,994) (\$92,407,402) (4,128) Carson (\$6,521,338) (\$2,578,052) (\$1,510,082) (\$499,230) (25) Cass (\$75,467,442) (\$39,259,691) (\$26,635,277) (\$13,0275,042) (497) Castro (\$7,578,972) (\$3,470,887) (\$2,175,370) (\$1,308,010)	Brewster	(\$20,361,935)	(\$11,320,669)	(\$7,653,797)	(\$3,277,425)	(140)
Brown (\$96,117,892) (\$54,046,636) (\$36,753,203) (\$17,186,498) (699) Burleson (\$43,416,953) (\$22,592,952) (\$15,027,470) (\$7,993,720) (280) Burnet (\$114,804,434) (\$57,316,684) (\$37,325,501) (\$16,467,063) (678) Caldwell (\$82,748,450) (\$42,136,445) (\$28,692,702) (\$12,310,329) (524) Callhoun (\$29,636,970) (\$12,358,444) (\$7,957,470) (\$4,014,184) (145) Callahan (\$39,620,185) (\$19,338,406) (\$12,687,623) (\$5,995,290) (232) Cameron (\$652,547,966) (\$338,728,327) (\$224,230,994) (\$92,407,402) (4,128) Camp (\$27,664,528) (\$14,601,146) (\$9,984,815) (\$3,901,412) (182) Carson (\$6,521,338) (\$2,578,052) (\$1,510,082) (\$499,230) (25) Cass (\$75,467,442) (\$39,259,691) (\$26,635,277) (\$13,275,042) (497) Chambers (\$57,420,448) (\$22,971,161) (\$1,4330,780) (\$6,634	Briscoe	(\$3,618,145)	(\$1,627,911)	(\$1,001,697)	(\$635,231)	(19)
Burleson (\$43,416,953) (\$22,592,952) (\$15,027,470) (\$7,993,720) (280) Burnet (\$114,804,434) (\$57,316,684) (\$37,325,501) (\$16,467,063) (678) Caldwell (\$82,748,450) (\$42,136,445) (\$28,692,702) (\$12,310,329) (524) Callboun (\$29,636,970) (\$12,358,444) (\$7,957,470) (\$4,014,184) (145) Callahan (\$39,620,185) (\$19,338,406) (\$12,687,623) (\$5,995,290) (232) Cameron (\$652,547,966) (\$338,728,327) (\$224,230,994) (\$92,407,402) (4,128) Camp (\$27,664,528) (\$14,601,146) (\$9,984,815) (\$3,901,412) (182) Carson (\$6,521,338) (\$2,578,052) (\$1,510,082) (\$499,230) (25) Cass (\$7,574,442) (\$39,259,691) (\$26,635,277) (\$13,275,042) (497) Castro (\$7,578,972) (\$3,470,887) (\$2,175,370) (\$1,308,010) (42) Cherokee (\$115,459,687) (\$62,030,319) (\$42,670,575) (\$18,006,19	Brooks	(\$12,225,063)	(\$6,913,635)	(\$4,841,150)	(\$2,398,116)	(92)
Burnet (\$114,804,434) (\$57,316,684) (\$37,325,501) (\$16,467,063) (678) Caldwell (\$82,748,450) (\$42,136,445) (\$28,692,702) (\$12,310,329) (524) Calhoun (\$29,636,970) (\$12,358,444) (\$7,957,470) (\$4,014,184) (145) Callahan (\$39,620,185) (\$19,338,406) (\$12,687,623) (\$5,995,290) (232) Cameron (\$652,547,966) (\$338,728,327) (\$224,230,994) (\$92,407,402) (4,128) Camp (\$27,664,528) (\$14,601,146) (\$9,984,815) (\$3,901,412) (182) Carson (\$6,521,338) (\$2,578,052) (\$1,510,082) (\$499,230) (25) Cast (\$75,467,442) (\$39,259,691) (\$26,635,277) (\$13,275,042) (497) Castro (\$7,578,972) (\$3,470,887) (\$2,175,370) (\$1,308,010) (42) Chambers (\$57,420,448) (\$22,971,161) (\$14,330,780) (\$6,634,514) (255) Cherokee (\$115,459,687) (\$62,030,319) (\$42,670,575) (\$18,006,19	Brown	(\$96,117,892)	(\$54,046,636)	(\$36,753,203)	(\$17,186,498)	(699)
Caldwell (\$82,748,450) (\$42,136,445) (\$28,692,702) (\$12,310,329) (524) Calhoun (\$29,636,970) (\$12,358,444) (\$7,957,470) (\$4,014,184) (145) Callahan (\$39,620,185) (\$19,338,406) (\$12,687,623) (\$5,995,290) (232) Cameron (\$652,547,966) (\$338,728,327) (\$224,230,994) (\$92,407,402) (4,128) Camp (\$27,664,528) (\$14,601,146) (\$9,984,815) (\$3,901,412) (182) Carson (\$6,521,338) (\$2,578,052) (\$1,510,082) (\$499,230) (25) Cast (\$75,467,442) (\$39,259,691) (\$26,635,277) (\$13,275,042) (497) Castro (\$7,578,972) (\$3,470,887) (\$2,175,370) (\$1,308,010) (42) Chambers (\$57,420,448) (\$22,971,161) (\$14,330,780) (\$6,634,514) (255) Chidress (\$115,954,095) (\$8,333,351) (\$5,635,236) (\$2,717,865) (107) Clay (\$26,719,880) (\$13,561,465) (\$9,207,936) (\$3,802,183)	Burleson	(\$43,416,953)	(\$22,592,952)	(\$15,027,470)	(\$7,993,720)	(280)
Calhoun (\$29,636,970) (\$12,358,444) (\$7,957,470) (\$4,014,184) (145) Callahan (\$39,620,185) (\$19,338,406) (\$12,687,623) (\$5,995,290) (232) Cameron (\$652,547,966) (\$338,728,327) (\$224,230,994) (\$92,407,402) (4,128) Camp (\$27,664,528) (\$14,601,146) (\$9,984,815) (\$3,901,412) (182) Carson (\$6,521,338) (\$2,578,052) (\$1,510,082) (\$499,230) (25) Castro (\$75,467,442) (\$39,259,691) (\$26,635,277) (\$13,275,042) (497) Castro (\$7,578,972) (\$3,470,887) (\$2,175,370) (\$1,308,010) (42) Chambers (\$57,420,448) (\$22,971,161) (\$14,330,780) (\$6,634,514) (255) Cherokee (\$115,459,687) (\$62,030,319) (\$42,670,575) (\$18,006,195) (786) Childress (\$15,954,095) (\$8,333,351) (\$5,635,236) (\$2,717,865) (107) Clay (\$26,719,880) (\$13,561,465) (\$9,207,936) (\$3,802,183) <td>Burnet</td> <td>(\$114,804,434)</td> <td>(\$57,316,684)</td> <td>(\$37,325,501)</td> <td>(\$16,467,063)</td> <td>(678)</td>	Burnet	(\$114,804,434)	(\$57,316,684)	(\$37,325,501)	(\$16,467,063)	(678)
Callahan (\$39,620,185) (\$19,338,406) (\$12,687,623) (\$5,995,290) (232) Cameron (\$652,547,966) (\$338,728,327) (\$224,230,994) (\$92,407,402) (4,128) Camp (\$27,664,528) (\$14,601,146) (\$9,984,815) (\$3,901,412) (182) Carson (\$6,521,338) (\$2,578,052) (\$1,510,082) (\$499,230) (25) Cass (\$75,467,442) (\$39,259,691) (\$26,635,277) (\$13,275,042) (497) Castro (\$7,578,972) (\$3,470,887) (\$2,175,370) (\$1,308,010) (42) Chambers (\$57,420,448) (\$22,971,161) (\$14,330,780) (\$6,634,514) (255) Cherokee (\$115,459,687) (\$62,030,319) (\$42,670,575) (\$18,006,195) (786) Childress (\$15,954,095) (\$8,333,351) (\$5,635,236) (\$2,717,865) (107) Clay (\$26,719,880) (\$13,561,465) (\$9,207,936) (\$3,802,183) (164) Cochran (\$3,480,521) (\$1,657,383) (\$1,060,771) (\$480,468)	Caldwell	(\$82,748,450)	(\$42,136,445)	(\$28,692,702)	(\$12,310,329)	(524)
Cameron (\$652,547,966) (\$338,728,327) (\$224,230,994) (\$92,407,402) (4,128) Camp (\$27,664,528) (\$14,601,146) (\$9,984,815) (\$3,901,412) (182) Carson (\$6,521,338) (\$2,578,052) (\$1,510,082) (\$499,230) (25) Cass (\$75,467,442) (\$39,259,691) (\$26,635,277) (\$13,275,042) (497) Castro (\$7,578,972) (\$3,470,887) (\$2,175,370) (\$1,308,010) (42) Chambers (\$57,420,448) (\$22,971,161) (\$14,330,780) (\$6,634,514) (255) Cherokee (\$115,459,687) (\$62,030,319) (\$42,670,575) (\$18,006,195) (786) Childress (\$15,954,095) (\$8,333,351) (\$5,635,236) (\$2,717,865) (107) Clay (\$26,719,880) (\$13,561,465) (\$9,207,936) (\$3,802,183) (164) Cocke (\$11,095,023) (\$5,381,846) (\$3,473,690) (\$1,843,478) (63)	Calhoun	(\$29,636,970)	(\$12,358,444)	(\$7,957,470)	(\$4,014,184)	(145)
Camp (\$27,664,528) (\$14,601,146) (\$9,984,815) (\$3,901,412) (182) Carson (\$6,521,338) (\$2,578,052) (\$1,510,082) (\$499,230) (25) Cass (\$75,467,442) (\$39,259,691) (\$26,635,277) (\$13,275,042) (497) Castro (\$7,578,972) (\$3,470,887) (\$2,175,370) (\$1,308,010) (42) Chambers (\$57,420,448) (\$22,971,161) (\$14,330,780) (\$6,634,514) (255) Cherokee (\$115,459,687) (\$62,030,319) (\$42,670,575) (\$18,006,195) (786) Childress (\$15,954,095) (\$8,333,351) (\$5,635,236) (\$2,717,865) (107) Clay (\$26,719,880) (\$13,561,465) (\$9,207,936) (\$3,802,183) (164) Cochran (\$3,480,521) (\$1,657,383) (\$1,060,771) (\$480,468) (19) Coke (\$11,095,023) (\$5,381,846) (\$3,473,690) (\$1,843,478) (63)	Callahan	(\$39,620,185)	(\$19,338,406)	(\$12,687,623)	(\$5,995,290)	(232)
Carson (\$6,521,338) (\$2,578,052) (\$1,510,082) (\$499,230) (25) Cass (\$75,467,442) (\$39,259,691) (\$26,635,277) (\$13,275,042) (497) Castro (\$7,578,972) (\$3,470,887) (\$2,175,370) (\$1,308,010) (42) Chambers (\$57,420,448) (\$22,971,161) (\$14,330,780) (\$6,634,514) (255) Cherokee (\$115,459,687) (\$62,030,319) (\$42,670,575) (\$18,006,195) (786) Childress (\$15,954,095) (\$8,333,351) (\$5,635,236) (\$2,717,865) (107) Clay (\$26,719,880) (\$13,561,465) (\$9,207,936) (\$3,802,183) (164) Cochran (\$3,480,521) (\$1,657,383) (\$1,060,771) (\$480,468) (19) Coke (\$11,095,023) (\$5,381,846) (\$3,473,690) (\$1,843,478) (63)	Cameron	(\$652,547,966)	(\$338,728,327)	(\$224,230,994)	(\$92,407,402)	(4,128)
Cass (\$75,467,442) (\$39,259,691) (\$26,635,277) (\$13,275,042) (497) Castro (\$7,578,972) (\$3,470,887) (\$2,175,370) (\$1,308,010) (42) Chambers (\$57,420,448) (\$22,971,161) (\$14,330,780) (\$6,634,514) (255) Cherokee (\$115,459,687) (\$62,030,319) (\$42,670,575) (\$18,006,195) (786) Childress (\$15,954,095) (\$8,333,351) (\$5,635,236) (\$2,717,865) (107) Clay (\$26,719,880) (\$13,561,465) (\$9,207,936) (\$3,802,183) (164) Cochran (\$3,480,521) (\$1,657,383) (\$1,060,771) (\$480,468) (19) Coke (\$11,095,023) (\$5,381,846) (\$3,473,690) (\$1,843,478) (63)	Camp	(\$27,664,528)	(\$14,601,146)	(\$9,984,815)	(\$3,901,412)	(182)
Castro (\$7,578,972) (\$3,470,887) (\$2,175,370) (\$1,308,010) (42) Chambers (\$57,420,448) (\$22,971,161) (\$14,330,780) (\$6,634,514) (255) Cherokee (\$115,459,687) (\$62,030,319) (\$42,670,575) (\$18,006,195) (786) Childress (\$15,954,095) (\$8,333,351) (\$5,635,236) (\$2,717,865) (107) Clay (\$26,719,880) (\$13,561,465) (\$9,207,936) (\$3,802,183) (164) Cochran (\$3,480,521) (\$1,657,383) (\$1,060,771) (\$480,468) (19) Coke (\$11,095,023) (\$5,381,846) (\$3,473,690) (\$1,843,478) (63)	Carson	(\$6,521,338)	(\$2,578,052)	(\$1,510,082)	(\$499,230)	(25)
Chambers (\$57,420,448) (\$22,971,161) (\$14,330,780) (\$6,634,514) (255) Cherokee (\$115,459,687) (\$62,030,319) (\$42,670,575) (\$18,006,195) (786) Childress (\$15,954,095) (\$8,333,351) (\$5,635,236) (\$2,717,865) (107) Clay (\$26,719,880) (\$13,561,465) (\$9,207,936) (\$3,802,183) (164) Cochran (\$3,480,521) (\$1,657,383) (\$1,060,771) (\$480,468) (19) Coke (\$11,095,023) (\$5,381,846) (\$3,473,690) (\$1,843,478) (63)	Cass	(\$75,467,442)	(\$39,259,691)	(\$26,635,277)	(\$13,275,042)	(497)
Cherokee (\$115,459,687) (\$62,030,319) (\$42,670,575) (\$18,006,195) (786) Childress (\$15,954,095) (\$8,333,351) (\$5,635,236) (\$2,717,865) (107) Clay (\$26,719,880) (\$13,561,465) (\$9,207,936) (\$3,802,183) (164) Cochran (\$3,480,521) (\$1,657,383) (\$1,060,771) (\$480,468) (19) Coke (\$11,095,023) (\$5,381,846) (\$3,473,690) (\$1,843,478) (63)	Castro	(\$7,578,972)	(\$3,470,887)	(\$2,175,370)	(\$1,308,010)	(42)
Childress (\$15,954,095) (\$8,333,351) (\$5,635,236) (\$2,717,865) (107) Clay (\$26,719,880) (\$13,561,465) (\$9,207,936) (\$3,802,183) (164) Cochran (\$3,480,521) (\$1,657,383) (\$1,060,771) (\$480,468) (19) Coke (\$11,095,023) (\$5,381,846) (\$3,473,690) (\$1,843,478) (63)	Chambers	(\$57,420,448)	(\$22,971,161)	(\$14,330,780)	(\$6,634,514)	(255)
Clay (\$26,719,880) (\$13,561,465) (\$9,207,936) (\$3,802,183) (164) Cochran (\$3,480,521) (\$1,657,383) (\$1,060,771) (\$480,468) (19) Coke (\$11,095,023) (\$5,381,846) (\$3,473,690) (\$1,843,478) (63)	Cherokee	(\$115,459,687)	(\$62,030,319)	(\$42,670,575)	(\$18,006,195)	(786)
Cochran (\$3,480,521) (\$1,657,383) (\$1,060,771) (\$480,468) (19) Coke (\$11,095,023) (\$5,381,846) (\$3,473,690) (\$1,843,478) (63)	Childress	(\$15,954,095)	(\$8,333,351)	(\$5,635,236)	(\$2,717,865)	(107)
Coke (\$11,095,023) (\$5,381,846) (\$3,473,690) (\$1,843,478) (63)	Clay	(\$26,719,880)	(\$13,561,465)	(\$9,207,936)	(\$3,802,183)	(164)
	Cochran	(\$3,480,521)	(\$1,657,383)	(\$1,060,771)	(\$480,468)	(19)
Coleman (\$29,920,855) (\$15,695,854) (\$10,530,550) (\$4,716,295) (192)	Coke	(\$11,095,023)	(\$5,381,846)	(\$3,473,690)	(\$1,843,478)	(63)
	Coleman	(\$29,920,855)	(\$15,695,854)	(\$10,530,550)	(\$4,716,295)	(192)



		ent on busines:			
	Total Expenditures	Gross Product	Personal Income	Retail Sales	Employment (Permanent
County	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	Jobs)
Collin	(\$1,028,314,012)	(\$535,759,181)	(\$353,437,314)	(\$144,975,782)	(6,241)
Collingsworth	(\$6,937,467)	(\$3,742,179)	(\$2,499,639)	(\$1,302,782)	(46)
Colorado	(\$65,843,679)	(\$34,070,276)	(\$22,989,148)	(\$10,618,045)	(437)
Comal	(\$256,144,825)	(\$130,576,630)	(\$85,785,237)	(\$37,010,923)	(1,594)
Comanche	(\$40,161,919)	(\$21,302,097)	(\$14,393,659)	(\$5,961,609)	(260)
Concho	(\$6,871,197)	(\$3,754,828)	(\$2,639,494)	(\$1,006,210)	(48)
Cooke	(\$97,985,479)	(\$47,809,200)	(\$31,600,471)	(\$15,268,005)	(576)
Coryell	(\$109,237,492)	(\$57,540,536)	(\$38,351,591)	(\$17,426,309)	(718)
Cottle	(\$5,728,906)	(\$3,273,118)	(\$2,213,896)	(\$930,845)	(39)
Crane	(\$4,555,304)	(\$2,472,768)	(\$1,716,686)	(\$632,583)	(31)
Crockett	(\$5,632,906)	(\$2,818,657)	(\$1,796,854)	(\$1,278,995)	(36)
Crosby	(\$12,911,158)	(\$7,146,666)	(\$4,901,769)	(\$1,506,313)	(86)
Culberson	(\$3,467,672)	(\$1,971,270)	(\$1,321,452)	(\$879,309)	(27)
Dallam	(\$8,888,976)	(\$4,516,564)	(\$2,832,413)	(\$1,304,784)	(52)
Dallas	(\$4,671,387,351)	(\$2,291,871,765)	(\$1,465,745,880)	(\$477,644,755)	(24,578)
Dawson	(\$26,781,743)	(\$12,890,767)	(\$7,921,547)	(\$4,610,796)	(149)
Deaf Smith	(\$19,427,577)	(\$9,296,156)	(\$5,919,216)	(\$2,496,892)	(106)
Delta	(\$12,521,403)	(\$6,621,281)	(\$4,583,353)	(\$1,262,260)	(78)
Denton	(\$908,874,687)	(\$455,701,644)	(\$297,570,276)	(\$116,068,813)	(5,252)
DeWitt	(\$59,255,666)	(\$31,328,887)	(\$21,191,267)	(\$8,952,966)	(387)
Dickens	(\$6,478,065)	(\$3,342,580)	(\$2,194,636)	(\$1,161,044)	(40)
Dimmit	(\$13,901,619)	(\$7,380,657)	(\$5,101,799)	(\$2,557,990)	(97)
Donley	(\$11,595,473)	(\$6,601,769)	(\$4,581,552)	(\$2,318,179)	(89)
Duval	(\$21,163,465)	(\$10,768,294)	(\$7,343,506)	(\$2,820,152)	(133)
Eastland	(\$50,710,949)	(\$25,606,761)	(\$17,064,640)	(\$8,713,155)	(325)
Ector	(\$263,371,874)	(\$134,854,716)	(\$91,121,986)	(\$39,089,290)	(1,639)
Edwards	(\$3,814,701)	(\$1,835,230)	(\$1,099,450)	(\$650,920)	(20)
El Paso	(\$1,569,213,639)	(\$788,970,734)	(\$511,046,635)	(\$191,769,341)	(9,035)
Ellis	(\$246,428,545)	(\$118,518,784)	(\$76,466,470)	(\$37,067,385)	(1,415)
Erath	(\$68,924,607)	(\$38,133,404)	(\$26,142,539)	(\$12,070,517)	(493)
Falls	(\$46,710,527)	(\$25,396,417)	(\$17,313,103)	(\$6,957,791)	(313)
Fannin	(\$99,565,031)	(\$52,960,666)	(\$35,657,798)	(\$14,685,398)	(648)
Fayette	(\$90,547,486)	(\$46,650,473)	(\$30,890,806)	(\$12,470,203)	(557)
Fisher	(\$10,580,143)	(\$5,796,720)	(\$3,900,052)	(\$1,747,616)	(72)
Floyd	(\$10,797,393)	(\$5,071,000)	(\$3,224,575)	(\$1,243,709)	(57)
Foard	(\$2,730,749)	(\$1,557,006)	(\$1,099,302)	(\$414,952)	(20)
Fort Bend	(\$830,519,490)	(\$393,168,199)	(\$252,758,007)	(\$108,491,520)	(4,430)
Franklin	(\$21,141,010)	(\$10,847,729)	(\$7,285,936)	(\$3,285,861)	(134)
Freestone	(\$45,145,836)	(\$22,537,789)	(\$14,747,146)	(\$7,993,720)	(278)
Frio	(\$29,618,889)	(\$14,712,008)	(\$9,706,756)	(\$4,268,618)	(176)
Gaines	(\$17,373,879)	(\$7,805,674)	(\$4,803,938)	(\$2,624,680)	(87)
Galveston	(\$761,575,196)	(\$378,366,849)	(\$250,487,244)	(\$103,039,050)	(4,485)



Total Expenditures Gross Product Personal Income (2016 Dollars) (2016 Dollars) (2016 Dollars) Garza (\$9,269,706) (\$4,324,161) (\$2,745,769) Gillespie (\$86,010,042) (\$44,196,854) (\$29,527,000)	Retail Sales (2016 Dollars) (\$1,607,987) (\$12,789,952)	Employment (Permanent Jobs) (51)
Gillespie (\$86,010,042) (\$44,196,854) (\$29,527,000)	(\$12,789,952)	(51)
(1004 000)	/ ^ · - ·	(543)
Glasscock (\$881,935) (\$377,516) (\$224,137)	(\$76,817)	(4)
Goliad (\$15,684,455) (\$8,453,779) (\$5,841,952)	(\$3,277,425)	(113)
Gonzales (\$33,631,065) (\$17,798,476) (\$12,133,777)	(\$5,318,676)	(224)
Gray (\$65,034,799) (\$32,220,198) (\$21,784,431)	(\$10,191,571)	(398)
Grayson (\$320,751,059) (\$173,712,931) (\$117,257,975)	(\$50,600,247)	(2,162)
Gregg (\$322,988,292) (\$171,984,557) (\$116,693,625)	(\$47,722,508)	(2,102)
Grimes (\$40,104,080) (\$20,781,746) (\$13,993,540)	(\$6,806,317)	(261)
Guadalupe (\$204,317,951) (\$102,091,759) (\$66,454,028)	(\$35,412,179)	(1,266)
Hale (\$52,261,201) (\$28,855,583) (\$19,488,146)	(\$10,000,797)	(372)
Hall (\$10,091,906) (\$5,180,407) (\$3,340,208)	(\$1,532,644)	(60)
Hamilton (\$21,898,502) (\$11,524,668) (\$7,830,574)	(\$3,757,048)	(147)
Hansford (\$5,598,371) (\$2,258,323) (\$1,323,093)	(\$663,529)	(23)
Hardeman (\$9,971,644) (\$5,427,789) (\$3,610,851)	(\$2,158,304)	(72)
Hardin (\$123,835,438) (\$62,411,046) (\$41,057,477)	(\$20,304,049)	(758)
Harris (\$7,943,229,399) (\$3,704,564,665) (\$2,413,683,034)	(\$721,473,877)	(39,857)
Harrison (\$172,831,673) (\$83,515,030) (\$56,151,291)	(\$21,003,391)	(976)
Hartley (\$2,411,627) (\$1,152,426) (\$740,790)	(\$349,027)	(14)
Haskell (\$15,655,556) (\$8,321,218) (\$5,751,894)	(\$2,342,182)	(103)
Hays (\$216,209,086) (\$113,870,703) (\$75,386,572)	(\$32,614,377)	(1,379)
Hemphill (\$3,870,855) (\$1,775,421) (\$1,130,552)	(\$524,851)	(20)
Henderson (\$276,116,940) (\$140,629,700) (\$92,914,324)	(\$39,568,914)	(1,697)
Hidalgo (\$927,253,434) (\$498,624,204) (\$335,710,631)	(\$138,371,292)	(6,180)
Hill (\$100,917,101) (\$50,624,904) (\$33,348,936)	(\$15,667,691)	(636)
Hockley (\$35,175,784) (\$17,957,018) (\$12,125,785)	(\$5,966,045)	(229)
Hood (\$162,770,138) (\$82,786,964) (\$55,232,507)	(\$24,380,846)	(1,009)
Hopkins (\$78,056,096) (\$40,450,364) (\$26,850,064)	(\$14,148,884)	(506)
Houston (\$77,929,431) (\$39,495,238) (\$26,694,611)	(\$8,994,232)	(457)
Howard (\$82,269,845) (\$41,266,134) (\$27,672,425)	(\$12,230,391)	(504)
Hudspeth (\$2,457,809) (\$1,211,683) (\$717,444)	(\$696,353)	(16)
Hunt (\$188,547,182) (\$98,189,068) (\$65,517,265)	(\$31,735,068)	(1,225)
Hutchinson (\$45,488,958) (\$20,668,024) (\$13,277,090)	(\$9,219,000)	(256)
Irion (\$3,049,390) (\$1,198,488) (\$692,807)	(\$413,956)	(12)
Jack (\$16,670,018) (\$7,985,801) (\$5,170,956)	(\$2,947,184)	(96)
Jackson (\$27,698,899) (\$13,911,766) (\$8,957,272)	(\$5,133,766)	(169)
Jasper (\$93,288,527) (\$50,121,180) (\$34,151,861)	(\$15,771,239)	(639)
Jeff Davis (\$7,220,428) (\$3,756,751) (\$2,518,075)	(\$1,105,599)	(46)
Jefferson (\$648,428,968) (\$337,202,923) (\$230,837,631)	(\$95,524,953)	(4,128)
Jim Hogg (\$9,053,131) (\$4,498,414) (\$2,829,714)	(\$1,918,493)	(55)
Jim Wells (\$72,989,703) (\$40,508,938) (\$27,394,813)	(\$12,470,203)	(506)
Johnson (\$311,565,140) (\$160,940,788) (\$108,519,289)	(\$46,283,638)	(1,990)



	with Cancer Treatm	ent on Busines	S Activity in Te	xas: County Re	
County	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
Jones	(\$51,370,478)	(\$26,556,421)	(\$17,873,889)	(\$7,166,876)	(324)
Karnes	(\$38,974,038)	(\$18,626,468)	(\$12,270,425)	(\$5,515,667)	(222)
Kaufman	(\$203,157,591)	(\$104,622,787)	(\$70,120,659)	(\$31,015,633)	(1,306)
Kendall	(\$80,447,201)	(\$39,128,235)	(\$25,480,902)	(\$11,910,643)	(467)
Kenedy	(\$2,170,333)	(\$1,013,079)	(\$644,439)	(\$611,698)	(16)
Kent	(\$2,486,105)	(\$1,133,745)	(\$694,506)	(\$361,051)	(12)
Kerr	(\$156,247,287)	(\$82,100,053)	(\$54,307,129)	(\$24,380,846)	(1,007)
Kimble	(\$14,146,601)	(\$6,416,174)	(\$3,976,356)	(\$2,158,304)	(74)
King	(\$3,034,907)	(\$1,428,565)	(\$886,428)	(\$321,846)	(15)
Kinney	(\$11,173,492)	(\$5,320,013)	(\$3,315,102)	(\$1,721,839)	(62)
Kleberg	(\$61,087,543)	(\$31,394,767)	(\$21,081,466)	(\$9,352,652)	(389)
Knox	(\$9,600,567)	(\$5,090,342)	(\$3,437,429)	(\$1,282,706)	(60)
La Salle	(\$9,035,709)	(\$4,899,702)	(\$3,335,955)	(\$1,678,681)	(64)
Lamar	(\$137,963,073)	(\$71,380,485)	(\$48,403,372)	(\$21,647,249)	(896)
Lamb	(\$20,584,608)	(\$9,857,925)	(\$6,433,416)	(\$3,073,165)	(116)
Lampasas	(\$60,177,842)	(\$31,450,510)	(\$21,065,166)	(\$9,592,464)	(397)
Lavaca	(\$63,389,624)	(\$34,698,844)	(\$23,570,745)	(\$10,155,111)	(436)
Lee	(\$37,633,351)	(\$18,785,649)	(\$12,314,674)	(\$5,601,547)	(223)
Leon	(\$35,921,243)	(\$18,360,493)	(\$11,572,777)	(\$7,451,958)	(223)
Liberty	(\$178,665,081)	(\$93,686,273)	(\$63,743,672)	(\$26,629,380)	(1,145)
Limestone	(\$55,714,065)	(\$29,734,632)	(\$20,570,370)	(\$9,672,401)	(381)
Lipscomb	(\$6,182,510)	(\$2,697,349)	(\$1,632,185)	(\$707,412)	(29)
Live Oak	(\$38,917,473)	(\$18,727,141)	(\$12,325,830)	(\$6,714,725)	(231)
Llano	(\$97,594,413)	(\$50,172,126)	(\$33,134,596)	(\$14,628,507)	(610)
Loving	(\$1,028,964)	(\$339,191)	(\$214,128)	(\$112,296)	(4)
Lubbock	(\$611,710,295)	(\$324,902,225)	(\$215,327,842)	(\$83,934,059)	(3,841)
Lynn	(\$8,533,382)	(\$4,165,082)	(\$2,615,901)	(\$849,562)	(44)
Madison	(\$25,995,898)	(\$13,711,112)	(\$9,154,416)	(\$4,476,483)	(173)
Marion	(\$34,102,025)	(\$17,693,159)	(\$11,976,761)	(\$5,595,604)	(227)
Martin	(\$7,349,540)	(\$3,619,801)	(\$2,430,061)	(\$949,277)	(42)
Mason	(\$15,047,848)	(\$7,572,092)	(\$4,967,510)	(\$2,238,242)	(91)
Matagorda	(\$80,949,657)	(\$37,895,363)	(\$24,875,297)	(\$14,338,295)	(469)
Maverick	(\$68,977,136)	(\$36,332,369)	(\$24,287,319)	(\$11,191,208)	(460)
McCulloch	(\$25,301,330)	(\$13,450,814)	(\$9,151,302)	(\$4,076,797)	(167)
McLennan	(\$612,756,374)	(\$308,839,748)	(\$201,459,984)	(\$79,617,450)	(3,637)
McMullen	(\$969,096)	(\$421,544)	(\$254,065)	(\$112,535)	(4)
Medina	(\$90,560,982)	(\$44,784,447)	(\$29,169,935)	(\$13,589,324)	(546)
Menard	(\$6,465,754)	(\$3,282,141)	(\$2,069,802)	(\$1,278,995)	(39)
Midland	(\$223,529,751)	(\$113,502,258)	(\$74,131,581)	(\$32,417,455)	(1,307)
Milam	(\$54,956,195)	(\$28,005,963)	(\$18,947,990)	(\$9,359,379)	(352)
Mills	(\$11,035,999)	(\$6,564,151)	(\$4,553,835)	(\$2,088,722)	(85)
Mitchell	(\$19,831,117)	(\$10,614,726)	(\$7,183,756)	(\$3,244,816)	(131)



Witr	n Cancer Treatme	nt on Busines	s Activity in Texa	as: County Resu	
County	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
Montague	(\$62,554,117)	(\$31,402,717)	(\$20,789,501)	(\$9,352,652)	(387)
Montgomery	(\$923,025,308)	(\$453,990,892)	(\$301,740,760)	(\$113,554,114)	(5,281)
Moore	(\$29,066,044)	(\$12,356,415)	(\$7,770,401)	(\$4,000,508)	(140)
Morris	(\$30,899,134)	(\$14,103,069)	(\$9,452,696)	(\$3,355,632)	(165)
Motley	(\$4,606,303)	(\$2,237,417)	(\$1,414,286)	(\$686,955)	(26)
Nacogdoches	(\$129,740,489)	(\$70,546,204)	(\$48,391,528)	(\$22,142,604)	(918)
Navarro	(\$125,453,206)	(\$64,131,874)	(\$43,172,645)	(\$17,229,308)	(786)
Newton	(\$16,907,129)	(\$10,094,015)	(\$7,097,608)	(\$3,818,345)	(133)
Nolan	(\$43,736,061)	(\$22,861,561)	(\$15,021,328)	(\$6,949,775)	(275)
Nueces	(\$803,862,731)	(\$387,569,126)	(\$256,418,890)	(\$102,159,740)	(4,526)
Ochiltree	(\$11,152,178)	(\$5,091,307)	(\$3,229,292)	(\$1,688,090)	(58)
Oldham	(\$1,313,278)	(\$708,001)	(\$463,999)	(\$371,597)	(10)
Orange	(\$200,747,004)	(\$102,623,959)	(\$69,737,435)	(\$33,062,543)	(1,287)
Palo Pinto	(\$82,059,056)	(\$39,325,822)	(\$25,294,114)	(\$12,310,329)	(468)
Panola	(\$58,688,168)	(\$29,677,527)	(\$20,122,884)	(\$8,894,590)	(365)
Parker	(\$239,303,994)	(\$113,894,855)	(\$72,487,371)	(\$35,092,430)	(1,336)
Parmer	(\$6,354,161)	(\$2,750,968)	(\$1,784,994)	(\$477,192)	(30)
Pecos	(\$22,504,136)	(\$11,335,150)	(\$7,434,782)	(\$4,076,797)	(142)
Polk	(\$171,266,986)	(\$90,101,629)	(\$59,945,497)	(\$29,177,078)	(1,100)
Potter	(\$289,960,489)	(\$152,136,455)	(\$101,233,201)	(\$39,808,725)	(1,800)
Presidio	(\$14,080,465)	(\$6,716,103)	(\$4,236,891)	(\$2,318,179)	(79)
Rains	(\$24,115,254)	(\$11,000,068)	(\$6,661,651)	(\$4,441,322)	(126)
Randall	(\$251,512,800)	(\$131,919,972)	(\$86,374,878)	(\$37,988,545)	(1,569)
Reagan	(\$3,213,477)	(\$1,572,851)	(\$960,882)	(\$687,491)	(18)
Real	(\$13,536,020)	(\$6,534,294)	(\$4,272,179)	(\$1,918,493)	(77)
Red River	(\$43,740,432)	(\$22,726,592)	(\$15,155,389)	(\$6,286,213)	(278)
Reeves	(\$20,901,996)	(\$10,406,917)	(\$6,798,227)	(\$4,156,734)	(133)
Refugio	(\$15,900,710)	(\$7,769,971)	(\$4,818,223)	(\$3,836,986)	(98)
Roberts	(\$1,348,245)	(\$584,620)	(\$348,843)	(\$313,290)	(7)
Robertson	(\$43,172,913)	(\$22,264,349)	(\$14,960,122)	(\$7,833,846)	(284)
Rockwall	(\$111,553,009)	(\$58,270,102)	(\$39,004,011)	(\$16,147,314)	(703)
Runnels	(\$32,522,703)	(\$14,927,150)	(\$9,558,927)	(\$4,451,392)	(176)
Rusk	(\$118,146,457)	(\$58,101,893)	(\$39,189,289)	(\$16,651,978)	(706)
Sabine	(\$35,375,508)	(\$18,251,607)	(\$12,714,377)	(\$5,889,866)	(236)
San Augustine	(\$30,199,427)	(\$15,253,347)	(\$10,215,845)	(\$4,188,428)	(185)
San Jacinto	(\$66,504,326)	(\$33,481,314)	(\$22,111,718)	(\$10,871,459)	(411)
San Patricio	(\$140,180,080)	(\$68,924,147)	(\$46,671,474)	(\$22,798,821)	(871)
San Saba	(\$14,966,578)	(\$8,111,679)	(\$5,362,414)	(\$2,717,865)	(102)
Schleicher	(\$4,558,977)	(\$2,413,990)	(\$1,692,007)	(\$454,970)	(29)
Scurry	(\$30,688,724)	(\$16,184,983)	(\$10,251,737)	(\$6,361,598)	(198)
Shackelford	(\$6,073,485)	(\$3,017,721)	(\$1,976,765)	(\$1,014,690)	(37)
Shelby	(\$52,656,645)	(\$28,587,820)	(\$19,877,537)	(\$8,960,919)	(369)



Witi	n Cancer Treatme	nt on Business	s Activity in Texa	as: County Rest	
County	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
Sherman	(\$1,496,481)	(\$626,661)	(\$378,656)	(\$187,798)	(7)
Smith	(\$573,951,151)	(\$290,727,320)	(\$189,521,724)	(\$77,386,420)	(3,407)
Somervell	(\$10,425,914)	(\$5,158,855)	(\$3,577,311)	(\$1,042,836)	(63)
Starr	(\$55,590,275)	(\$31,584,924)	(\$22,181,886)	(\$11,031,333)	(427)
Stephens	(\$20,702,316)	(\$11,252,401)	(\$7,488,780)	(\$4,450,821)	(144)
Sterling	(\$1,578,583)	(\$881,633)	(\$589,407)	(\$399,686)	(12)
Stonewall	(\$3,494,069)	(\$1,935,728)	(\$1,314,903)	(\$729,899)	(25)
Sutton	(\$7,477,554)	(\$3,883,596)	(\$2,510,129)	(\$1,518,807)	(48)
Swisher	(\$10,482,056)	(\$4,824,627)	(\$3,020,438)	(\$1,468,966)	(56)
Tarrant	(\$3,644,861,483)	(\$1,837,143,372)	(\$1,207,717,839)	(\$451,884,986)	(21,228)
Taylor	(\$305,180,054)	(\$155,326,515)	(\$102,081,210)	(\$40,048,537)	(1,816)
Terrell	(\$1,888,329)	(\$1,039,556)	(\$695,006)	(\$353,691)	(13)
Terry	(\$19,341,991)	(\$9,558,383)	(\$5,861,730)	(\$3,982,579)	(114)
Throckmorton	(\$2,623,844)	(\$1,309,793)	(\$837,971)	(\$425,494)	(15)
Titus	(\$49,945,910)	(\$25,877,825)	(\$17,672,368)	(\$9,017,549)	(333)
Tom Green	(\$257,135,780)	(\$129,593,830)	(\$84,114,024)	(\$35,332,242)	(1,541)
Travis	(\$1,426,051,532)	(\$765,541,818)	(\$504,096,301)	(\$190,122,761)	(8,792)
Trinity	(\$51,003,137)	(\$27,935,987)	(\$18,847,248)	(\$8,695,548)	(352)
Tyler	(\$58,522,058)	(\$31,074,352)	(\$20,915,359)	(\$9,457,445)	(383)
Upshur	(\$102,013,990)	(\$51,477,219)	(\$33,735,564)	(\$16,467,063)	(616)
Upton	(\$6,040,820)	(\$3,003,489)	(\$1,952,380)	(\$872,393)	(35)
Uvalde	(\$54,664,182)	(\$28,936,574)	(\$19,485,293)	(\$8,393,406)	(362)
Val Verde	(\$75,506,410)	(\$42,817,055)	(\$29,129,517)	(\$12,310,329)	(536)
Van Zandt	(\$131,607,141)	(\$74,172,633)	(\$50,630,655)	(\$23,021,913)	(947)
Victoria	(\$218,828,473)	(\$110,990,527)	(\$74,601,313)	(\$31,095,570)	(1,328)
Walker	(\$204,263,868)	(\$110,978,647)	(\$74,815,209)	(\$33,014,063)	(1,386)
Waller	(\$65,901,998)	(\$29,228,831)	(\$17,974,745)	(\$10,391,836)	(346)
Ward	(\$19,656,939)	(\$10,057,988)	(\$6,558,779)	(\$3,757,048)	(125)
Washington	(\$87,174,773)	(\$46,961,054)	(\$31,610,519)	(\$13,125,020)	(572)
Webb	(\$256,342,406)	(\$135,633,818)	(\$90,997,283)	(\$41,807,155)	(1,686)
Wharton	(\$99,391,695)	(\$53,396,977)	(\$36,443,448)	(\$16,533,922)	(678)
Wheeler	(\$10,221,109)	(\$5,621,701)	(\$3,797,701)	(\$2,070,606)	(73)
Wichita	(\$295,180,790)	(\$161,930,386)	(\$109,104,265)	(\$47,402,759)	(1,991)
Wilbarger	(\$42,607,719)	(\$21,838,197)	(\$14,711,908)	(\$6,474,913)	(268)
Willacy	(\$32,021,025)	(\$17,755,875)	(\$11,831,325)	(\$5,869,720)	(224)
Williamson	(\$374,495,480)	(\$200,617,361)	(\$133,430,859)	(\$60,843,712)	(2,425)
Wilson	(\$86,528,401)	(\$44,079,734)	(\$29,549,735)	(\$13,189,638)	(553)
Winkler	(\$10,399,171)	(\$5,227,329)	(\$3,422,620)	(\$1,955,826)	(64)
Wise	(\$98,358,823)	(\$49,934,210)	(\$32,645,007)	(\$16,946,686)	(605)
Wood	(\$156,634,640)	(\$79,233,087)	(\$52,723,450)	(\$22,624,166)	(968)
Yoakum	(\$9,649,430)	(\$4,571,107)	(\$2,899,421)	(\$1,856,720)	(56)
Young	(\$51,084,720)	(\$26,495,996)	(\$17,407,755)	(\$8,979,489)	(323)
- · · · ·	(+,,)	(7=2,130,000)	(7,,)	(+-,5,.00)	(323)



County	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
Zapata	(\$16,594,120)	(\$8,755,984)	(\$5,938,756)	(\$3,197,488)	(114)
Zavala	(\$12,582,821)	(\$7,465,073)	(\$5,317,522)	(\$2,498,118)	(103)
TEXAS	(\$48,511,246,517)	(\$24,392,663,846)	(\$16,065,943,936)	(\$6,289,186,456)	(284,012)

NOTE: Allocations reflect best available evidence regarding incidence and industrial structure and composition of each area. SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



Results by Texas House District							
House District	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)		
1	(\$426,736,291)	(\$225,807,971)	(\$152,674,473)	(\$65,752,193)	-2,796		
2	(\$398,210,419)	(\$212,812,065)	(\$142,997,983)	(\$68,905,866)	-2,679		
3	(\$311,426,730)	(\$149,990,408)	(\$98,237,787)	(\$40,597,230)	-1,750		
4	(\$432,334,652)	(\$221,345,438)	(\$147,239,548)	(\$63,857,831)	-2,714		
5	(\$427,007,742)	(\$214,589,751)	(\$141,980,193)	(\$61,912,822)	-2,592		
6	(\$436,202,875)	(\$220,952,763)	(\$144,036,510)	(\$58,813,679)	-2,589		
7	(\$425,002,282)	(\$223,461,776)	(\$150,429,189)	(\$64,189,571)	-2,718		
8	(\$387,307,701)	(\$201,094,083)	(\$134,642,911)	(\$58,987,991)	-2,485		
9	(\$429,121,461)	(\$216,984,835)	(\$147,478,127)	(\$63,619,411)	-2,669		
10	(\$293,368,425)	(\$142,425,833)	(\$92,261,905)	(\$43,794,100)	-1,703		
11	(\$363,346,632)	(\$190,678,416)	(\$130,251,393)	(\$56,800,778)	-2,410		
12	(\$370,559,909)	(\$191,347,412)	(\$127,391,824)	(\$54,091,961)	-2,326		
13	(\$454,909,788)	(\$236,050,763)	(\$157,459,261)	(\$69,184,850)	-2,872		
14	(\$215,961,335)	(\$111,825,472)	(\$74,078,728)	(\$30,149,114)	-1,347		
15	(\$338,750,288)	(\$166,614,657)	(\$110,738,859)	(\$41,674,360)	-1,938		
16	(\$338,750,288)	(\$166,614,657)	(\$110,738,859)	(\$41,674,360)	-1,938		
17	(\$345,588,570)	(\$173,293,639)	(\$114,871,144)	(\$52,167,818)	-2,107		
18	(\$449,433,274)	(\$238,146,234)	(\$160,670,600)	(\$70,514,903)	-2,943		
19	(\$463,820,138)	(\$243,802,222)	(\$163,167,801)	(\$78,528,155)	-3,013		
20	(\$252,149,635)	(\$129,458,466)	(\$85,628,280)	(\$39,212,059)	-1,564		
21	(\$434,181,432)	(\$224,017,011)	(\$152,838,982)	(\$67,451,526)	-2,773		
22	(\$414,994,540)	(\$215,809,871)	(\$147,736,084)	(\$61,135,970)	-2,642		
23	(\$392,513,534)	(\$189,452,575)	(\$124,545,167)	(\$51,971,696)	-2,228		
24	(\$426,482,109)	(\$211,885,435)	(\$140,272,857)	(\$57,701,868)	-2,512		
25	(\$299,613,973)	(\$144,120,361)	(\$95,267,445)	(\$48,477,304)	-1,765		
26	(\$225,901,301)	(\$106,941,750)	(\$68,750,178)	(\$29,509,694)	-1,205		
27	(\$225,901,301)	(\$106,941,750)	(\$68,750,178)	(\$29,509,694)	-1,205		
28	(\$225,901,301)	(\$106,941,750)	(\$68,750,178)	(\$29,509,694)	-1,205		
29	(\$278,300,039)	(\$135,195,452)	(\$89,590,006)	(\$43,449,647)	-1,649		
30	(\$432,939,696)	(\$214,271,946)	(\$142,041,869)	(\$65,006,267)	-2,579		
31	(\$272,549,327)	(\$141,850,701)	(\$95,878,386)	(\$45,865,468)	-1,786		
32	(\$393,892,738)	(\$189,908,872)	(\$125,645,256)	(\$50,058,273)	-2,218		
33	(\$234,950,691)	(\$122,561,204)	(\$81,416,489)	(\$33,544,408)	-1,452		
34	(\$409,969,993)	(\$197,660,254)	(\$130,773,634)	(\$52,101,468)	-2,308		
35	(\$229,621,594)	(\$121,407,714)	(\$81,090,230)	(\$33,420,784)	-1,493		
36	(\$202,141,249)	(\$108,700,076)	(\$73,184,917)	(\$30,164,942)	-1,347		
37	(\$274,070,146)	(\$142,265,897)	(\$94,177,018)	(\$38,811,109)	-1,734		
38	(\$267,544,666)	(\$138,878,614)	(\$91,934,708)	(\$37,887,035)	-1,692		
39	(\$202,141,249)	(\$108,700,076)	(\$73,184,917)	(\$30,164,942)	-1,347		
40	(\$202,141,249)	(\$108,700,076)	(\$73,184,917)	(\$30,164,942)	-1,347		
41	(\$202,141,249)	(\$108,700,076)	(\$73,184,917)	(\$30,164,942)	-1,347		



House District (2016 Dollars) (201			esults by Texa	s House District		
42 (\$164.059,140) (\$86,805,643) (\$58,238,261) (\$26,756,579) -1 43 (\$21,318,392) (\$166,210,315) (\$112,435,988) (\$52,615,396) -2 44 (\$290,846,352) (\$146,171,492) (\$96,003,762) (\$48,601,817) -1 45 (\$240,358,539) (\$125,833,283) (\$83,121,857) (\$36,109,494) -1 47 (\$242,428,760) (\$130,142,109) (\$85,696,371) (\$32,320,869) -1 47 (\$242,428,760) (\$130,142,109) (\$85,696,371) (\$32,320,869) -1 48 (\$233,872,451) (\$125,548,858) (\$92,671,793) (\$31,180,133) -1 50 (\$232,446,400) (\$124,783,316) (\$82,167,697) (\$30,990,010) -1 51 (\$242,428,760) (\$130,142,109) (\$85,696,371) (\$32,320,869) -1 52 (\$146,053,237) (\$78,240,771) (\$82,038,035) (\$23,729,048) -1 53 (\$474,648,320) (\$214,1518,033) (\$158,218,772) (\$73,609,929) -2 54 (\$299,335,279) (\$162,100,886) (\$109,441,885) (\$46,504,265) -2 55 (\$259,373,7223) (\$141,537,907) (\$95,741,445) (\$39,987,784) -1 56 (\$428,929,462) (\$216,187,824) (\$141,021,989) (\$55,732,215) -2 57 (\$440,060,330) (\$222,348,824) (\$153,480,155) (\$67,140,462) -2 59 (\$303,982,341) (\$161,766,203) (\$109,342,189) (\$55,732,215) -2 58 (\$365,833,264) (\$199,010,016) (\$177,516,209) (\$29,017,203) -1 61 (\$337,662,818) (\$161,766,203) (\$105,132,278) (\$29,017,203) -1 62 (\$422,218,672) (\$113,925,411) (\$74,392,569) (\$29,017,203) -1 63 (\$227,218,672) (\$113,925,411) (\$74,392,569) (\$29,017,203) -1 64 (\$227,218,672) (\$113,925,411) (\$74,392,569) (\$29,017,203) -1 66 (\$226,229,083) (\$117,867,020) (\$77,756,209) (\$31,894,672) -1 67 (\$226,229,083) (\$117,867,020) (\$77,756,209) (\$31,894,672) -1 68 (\$411,744,430) (\$209,158,001) (\$127,756,209) (\$31,894,672) -1 69 (\$336,617,394) (\$193,998,01) (\$132,894,855) (\$57,845,158) -2 69 (\$303,733,760) (\$197,399,080) (\$132,894,855) (\$57,845,158) -2 69 (\$303,617,394) (\$197,399,080) (\$132,894,655) (\$57,845,158) -2 69 (\$303,617,394) (\$197,399,080) (\$177,756,209) (\$31,894,672) -1 61 (\$303,662,818) (\$103,892,811) (\$77,756,209) (\$31,894,672) -1 61 (\$303,662,818) (\$103,892,811) (\$77,756,209) (\$31,894,672) -1 62 (\$432,837,734) (\$193,992,811) (\$147,867,020) (\$77,756,209) (\$31,894,672) -1 63 (\$326,229,083) (\$117,867,020) (\$7	Havea District	Expenditures				Employment
43 (\$321,318,392) (\$166,210,315) (\$112,435,988) (\$52,615,396) 2-2 44 (\$290,846,352) (\$146,171,492) (\$96,003,762) (\$48,601,817) 1-1 45 (\$240,358,539) (\$125,833,283) (\$833,121,857) (\$36,009,494) 1-1 46 (\$232,446,400) (\$124,783,316) (\$82,167,697) (\$30,990,010) 1-1 47 (\$242,428,760) (\$130,142,109) (\$85,696,371) (\$32,320,869) 1-1 48 (\$242,428,760) (\$130,142,109) (\$85,696,371) (\$32,320,869) 1-1 49 (\$233,872,451) (\$125,548,858) (\$82,671,793) (\$31,180,133) 1-1 50 (\$232,446,400) (\$124,783,316) (\$82,167,697) (\$30,990,010) 1-1 51 (\$242,428,760) (\$130,142,109) (\$85,696,371) (\$32,320,869) 1-1 52 (\$146,053,237) (\$78,240,771) (\$52,038,035) (\$23,729,048) 1-1 53 (\$474,648,320) (\$241,518,033) (\$158,218,772) (\$73,608,929) 1-2 54 (\$299,935,279) (\$162,100,886) (\$109,441,885) (\$46,504,265) 1-2 55 (\$259,737,223) (\$141,537,907) (\$95,741,445) (\$39,987,784) 1-1 56 (\$428,929,462) (\$216,187,824) (\$141,021,989) (\$55,732,215) 1-2 57 (\$440,060,330) (\$229,349,824) (\$153,480,155) (\$67,140,462) 1-2 58 (\$305,333,264) (\$189,010,016) (\$127,511,885) (\$65,140,462) 1-2 59 (\$301,952,341) (\$161,786,203) (\$103,833,225) (\$49,141,704) 1-2 60 (\$437,974,877) (\$251,070,565) (\$167,028,181) (\$78,767,922) 1-2 61 (\$337,662,818) (\$163,829,066) (\$105,328,346,99) (\$29,017,203) 1-1 62 (\$432,837,494) (\$233,294,879) (\$157,499,126) (\$29,017,203) 1-1 63 (\$227,218,672) (\$113,925,411) (\$74,392,569) (\$29,017,203) 1-1 66 (\$262,229,083) (\$117,867,020) (\$77,756,209) (\$31,894,672) 1-1 67 (\$226,229,083) (\$117,867,020) (\$77,756,209) (\$31,894,672) 1-1 67 (\$226,229,083) (\$117,867,020) (\$77,756,209) (\$31,894,672) 1-1 69 (\$337,662,818) (\$203,744,497) (\$134,925,569) (\$29,017,203) 1-1 66 (\$262,229,083) (\$117,867,020) (\$77,756,209) (\$31,894,672) 1-1 67 (\$226,229,083) (\$117,867,020) (\$77,756,209) (\$31,894,672) 1-1 67 (\$226,229,083) (\$117,867,020) (\$77,756,209) (\$31,894,672) 1-1 68 (\$441,744,430) (\$229,158,051) (\$134,976,427) (\$54,44,665) 1-2 69 (\$338,789,760) (\$197,399,080) (\$132,894,455) (\$56,644,665) 1-2 69 (\$338,789,760) (\$197,399,080) (\$132,894,455) (\$56,644,665) 1-2 69 (\$338,897,39			•	•		-1,079
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67 (\$226,229,083) (\$117,867,020) (\$77,756,209) (\$31,894,672) -1 68 (\$411,744,430) (\$209,158,051) (\$138,644,913) (\$65,869,386) -2 69 (\$363,793,760) (\$197,399,080) (\$132,894,455) (\$57,845,158) -2 70 (\$226,229,083) (\$117,867,020) (\$77,756,209) (\$31,894,672) -1 71 (\$400,286,593) (\$204,744,497) (\$134,976,427) (\$54,165,188) -2 72 (\$398,617,934) (\$198,954,274) (\$129,925,793) (\$56,441,665) -2 73 (\$422,602,068) (\$213,901,719) (\$140,793,140) (\$61,711,518) -2 74 (\$249,568,772) (\$132,566,727) (\$88,321,740) (\$42,199,759) -1	65	(\$227,218,672)	(\$113,925,411)	(\$74,392,569)	(\$29,017,203)	-1,313
68 (\$411,744,430) (\$209,158,051) (\$138,644,913) (\$65,869,386) -2 69 (\$363,793,760) (\$197,399,080) (\$132,894,455) (\$57,845,158) -2 70 (\$226,229,083) (\$117,867,020) (\$77,756,209) (\$31,894,672) -1 71 (\$400,286,593) (\$204,744,497) (\$134,976,427) (\$54,165,188) -2 72 (\$398,617,934) (\$198,954,274) (\$129,925,793) (\$56,441,665) -2 73 (\$422,602,068) (\$213,901,719) (\$140,793,140) (\$61,711,518) -2 74 (\$249,568,772) (\$132,566,727) (\$88,321,740) (\$42,199,759) -1	66	(\$226,229,083)	(\$117,867,020)	(\$77,756,209)	(\$31,894,672)	-1,373
69 (\$363,793,760) (\$197,399,080) (\$132,894,455) (\$57,845,158) -2 70 (\$226,229,083) (\$117,867,020) (\$77,756,209) (\$31,894,672) -1 71 (\$400,286,593) (\$204,744,497) (\$134,976,427) (\$54,165,188) -2 72 (\$398,617,934) (\$198,954,274) (\$129,925,793) (\$56,441,665) -2 73 (\$422,602,068) (\$213,901,719) (\$140,793,140) (\$61,711,518) -2 74 (\$249,568,772) (\$132,566,727) (\$88,321,740) (\$42,199,759) -1	67	(\$226,229,083)	(\$117,867,020)	(\$77,756,209)	(\$31,894,672)	-1,373
70 (\$226,229,083) (\$117,867,020) (\$77,756,209) (\$31,894,672) -1 71 (\$400,286,593) (\$204,744,497) (\$134,976,427) (\$54,165,188) -2 72 (\$398,617,934) (\$198,954,274) (\$129,925,793) (\$56,441,665) -2 73 (\$422,602,068) (\$213,901,719) (\$140,793,140) (\$61,711,518) -2 74 (\$249,568,772) (\$132,566,727) (\$88,321,740) (\$42,199,759) -1	68	(\$411,744,430)	(\$209,158,051)	(\$138,644,913)	(\$65,869,386)	-2,549
71 (\$400,286,593) (\$204,744,497) (\$134,976,427) (\$54,165,188) -2 72 (\$398,617,934) (\$198,954,274) (\$129,925,793) (\$56,441,665) -2 73 (\$422,602,068) (\$213,901,719) (\$140,793,140) (\$61,711,518) -2 74 (\$249,568,772) (\$132,566,727) (\$88,321,740) (\$42,199,759) -1	69	(\$363,793,760)	(\$197,399,080)	(\$132,894,455)	(\$57,845,158)	-2,422
72 (\$398,617,934) (\$198,954,274) (\$129,925,793) (\$56,441,665) -2 73 (\$422,602,068) (\$213,901,719) (\$140,793,140) (\$61,711,518) -2 74 (\$249,568,772) (\$132,566,727) (\$88,321,740) (\$42,199,759) -1	70	(\$226,229,083)	(\$117,867,020)	(\$77,756,209)	(\$31,894,672)	-1,373
73 (\$422,602,068) (\$213,901,719) (\$140,793,140) (\$61,711,518) -2 74 (\$249,568,772) (\$132,566,727) (\$88,321,740) (\$42,199,759) -1	71	(\$400,286,593)	(\$204,744,497)	(\$134,976,427)	(\$54,165,188)	-2,415
74 (\$249,568,772) (\$132,566,727) (\$88,321,740) (\$42,199,759) -1	72	(\$398,617,934)	(\$198,954,274)	(\$129,925,793)	(\$56,441,665)	-2,376
	73	(\$422,602,068)	(\$213,901,719)	(\$140,793,140)	(\$61,711,518)	-2,605
75 (0040,040,700) (0457,704,447) (0400,000,007) (000,000,000)	74	(\$249,568,772)	(\$132,566,727)	(\$88,321,740)	(\$42,199,759)	-1,656
/5 (\$313,842,728) (\$157,794,147) (\$102,209,327) (\$38,353,868) -1	75	(\$313,842,728)	(\$157,794,147)	(\$102,209,327)	(\$38,353,868)	-1,807
76 (\$313,842,728) (\$157,794,147) (\$102,209,327) (\$38,353,868) -1	76	(\$313,842,728)	(\$157,794,147)	(\$102,209,327)	(\$38,353,868)	-1,807
77 (\$313,842,728) (\$157,794,147) (\$102,209,327) (\$38,353,868) -1	77	(\$313,842,728)	(\$157,794,147)	(\$102,209,327)	(\$38,353,868)	-1,807
78 (\$313,842,728) (\$157,794,147) (\$102,209,327) (\$38,353,868) -1	78	(\$313,842,728)	(\$157,794,147)	(\$102,209,327)	(\$38,353,868)	-1,807
79 (\$313,842,728) (\$157,794,147) (\$102,209,327) (\$38,353,868) -1	79	(\$313,842,728)	(\$157,794,147)	(\$102,209,327)	(\$38,353,868)	-1,807
80 (\$219,644,897) (\$116,078,470) (\$78,309,149) (\$35,966,196) -1	80	(\$219,644,897)	(\$116,078,470)	(\$78,309,149)	(\$35,966,196)	-1,460
81 (\$316,827,586) (\$161,691,052) (\$108,474,600) (\$48,527,543) -1	81	(\$316,827,586)	(\$161,691,052)	(\$108,474,600)	(\$48,527,543)	-1,960
82 (\$268,257,158) (\$135,489,082) (\$88,152,255) (\$39,482,504) -1	82	(\$268,257,158)	(\$135,489,082)	(\$88,152,255)	(\$39,482,504)	-1,563
83 (\$347,008,042) (\$181,274,572) (\$118,637,626) (\$51,537,073) -2	83	(\$347,008,042)	(\$181,274,572)	(\$118,637,626)	(\$51,537,073)	-2,140



Results by Texas House District							
	Total	Gross Broduct	Porconal Income	Retail Sales	Employment		
House District	Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	(2016 Dollars)	Employment (Permanent Jobs)		
84	(\$367,026,177)	(\$194,941,335)	(\$129,196,705)	(\$50,360,435)	-2,305		
85	(\$279,906,180)	(\$139,651,691)	(\$91,908,194)	(\$41,630,128)	-1,662		
86	(\$289,908,419)	(\$150,344,087)	(\$98,116,290)	(\$42,988,037)	-1,781		
87	(\$372,533,311)	(\$188,365,607)	(\$124,169,431)	(\$53,715,261)	-2,229		
88	(\$262,149,359)	(\$131,542,405)	(\$87,106,747)	(\$43,405,632)	-1,619		
89	(\$226,229,083)	(\$117,867,020)	(\$77,756,209)	(\$31,894,672)	-1,373		
90	(\$331,682,395)	(\$167,180,047)	(\$109,902,323)	(\$41,121,534)	-1,932		
91	(\$331,682,395)	(\$167,180,047)	(\$109,902,323)	(\$41,121,534)	-1,932		
92	(\$331,682,395)	(\$167,180,047)	(\$109,902,323)	(\$41,121,534)	-1,932		
93	(\$331,682,395)	(\$167,180,047)	(\$109,902,323)	(\$41,121,534)	-1,932		
94	(\$331,682,395)	(\$167,180,047)	(\$109,902,323)	(\$41,121,534)	-1,932		
95	(\$331,682,395)	(\$167,180,047)	(\$109,902,323)	(\$41,121,534)	-1,932		
96	(\$331,682,395)	(\$167,180,047)	(\$109,902,323)	(\$41,121,534)	-1,932		
97	(\$331,682,395)	(\$167,180,047)	(\$109,902,323)	(\$41,121,534)	-1,932		
98	(\$331,682,395)	(\$167,180,047)	(\$109,902,323)	(\$41,121,534)	-1,932		
99	(\$331,682,395)	(\$167,180,047)	(\$109,902,323)	(\$41,121,534)	-1,932		
100	(\$331,668,502)	(\$162,722,895)	(\$104,067,957)	(\$33,912,778)	-1,745		
101	(\$328,037,534)	(\$165,342,904)	(\$108,694,605)	(\$40,669,649)	-1,910		
102	(\$331,668,502)	(\$162,722,895)	(\$104,067,957)	(\$33,912,778)	-1,745		
103	(\$331,668,502)	(\$162,722,895)	(\$104,067,957)	(\$33,912,778)	-1,745		
104	(\$331,668,502)	(\$162,722,895)	(\$104,067,957)	(\$33,912,778)	-1,745		
105	(\$331,668,502)	(\$162,722,895)	(\$104,067,957)	(\$33,912,778)	-1,745		
106	(\$227,218,672)	(\$113,925,411)	(\$74,392,569)	(\$29,017,203)	-1,313		
107	(\$331,668,502)	(\$162,722,895)	(\$104,067,957)	(\$33,912,778)	-1,745		
108	(\$331,668,502)	(\$162,722,895)	(\$104,067,957)	(\$33,912,778)	-1,745		
109	(\$331,668,502)	(\$162,722,895)	(\$104,067,957)	(\$33,912,778)	-1,745		
110	(\$331,668,502)	(\$162,722,895)	(\$104,067,957)	(\$33,912,778)	-1,745		
111	(\$338,675,583)	(\$166,160,703)	(\$106,266,576)	(\$34,629,245)	-1,782		
112	(\$331,668,502)	(\$162,722,895)	(\$104,067,957)	(\$33,912,778)	-1,745		
113	(\$338,675,583)	(\$166,160,703)	(\$106,266,576)	(\$34,629,245)	-1,782		
114	(\$338,675,583)	(\$166,160,703)	(\$106,266,576)	(\$34,629,245)	-1,782		
115	(\$338,675,583)	(\$166,160,703)	(\$106,266,576)	(\$34,629,245)	-1,782		
116	(\$352,714,529)	(\$182,790,332)	(\$120,794,298)	(\$45,196,492)	-2,130		
117	(\$352,714,529)	(\$182,790,332)	(\$120,794,298)	(\$45,196,492)	-2,130		
118	(\$352,714,529)	(\$182,790,332)	(\$120,794,298)	(\$45,196,492)	-2,130		
119	(\$352,714,529)	(\$182,790,332)	(\$120,794,298)	(\$45,196,492)	-2,130		
120	(\$352,714,529)	(\$182,790,332)	(\$120,794,298)	(\$45,196,492)	-2,130		
121	(\$352,714,529)	(\$182,790,332)	(\$120,794,298)	(\$45,196,492)	-2,130		
122	(\$352,714,529)	(\$182,790,332)	(\$120,794,298)	(\$45,196,492)	-2,130		
123	(\$352,714,529)	(\$182,790,332)	(\$120,794,298)	(\$45,196,492)	-2,130		
124	(\$352,714,529)	(\$182,790,332)	(\$120,794,298)	(\$45,196,492)	-2,130		
125	(\$352,714,529)	(\$182,790,332)	(\$120,794,298)	(\$45,196,492)	-2,130		



		esuits by Texas	s nouse District		
House District	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
126	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
127	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
128	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
129	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
130	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
131	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
132	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
133	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
134	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
135	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
136	(\$146,053,237)	(\$78,240,771)	(\$52,038,035)	(\$23,729,048)	-946
137	(\$325,672,405)	(\$151,887,151)	(\$98,961,004)	(\$29,580,429)	-1,634
138	(\$325,672,405)	(\$151,887,151)	(\$98,961,004)	(\$29,580,429)	-1,634
139	(\$325,672,405)	(\$151,887,151)	(\$98,961,004)	(\$29,580,429)	-1,634
140	(\$325,672,405)	(\$151,887,151)	(\$98,961,004)	(\$29,580,429)	-1,634
141	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
142	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
143	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
144	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
145	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
146	(\$333,615,635)	(\$155,591,716)	(\$101,374,687)	(\$30,301,903)	-1,674
147	(\$325,672,405)	(\$151,887,151)	(\$98,961,004)	(\$29,580,429)	-1,634
148	(\$325,672,405)	(\$151,887,151)	(\$98,961,004)	(\$29,580,429)	-1,634
149	(\$325,672,405)	(\$151,887,151)	(\$98,961,004)	(\$29,580,429)	-1,634
150	(\$325,672,405)	(\$151,887,151)	(\$98,961,004)	(\$29,580,429)	-1,634
TOTAL	(\$48,511,246,517)	(\$24,392,663,846)	(\$16,065,943,936)	(\$6,289,186,456)	-284,012

NOTE: In cases in which a county was part of more than one district, allocations are based on the percentage of the population residing in a district. This convention is adopted because of a lack of subcounty data sufficient for allocation purposes. In some instances, this approach will result in districts which reflect the same proportion of a large urban county reporting identical results. Allocations reflect district maps as currently defined.



Senate District	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
1	(\$2,150,069,701)	(\$1,102,059,494)	(\$736,534,217)	(\$311,647,548)	-13,340
2	(\$1,643,258,558)	(\$835,905,170)	(\$548,202,255)	(\$217,657,402)	-9,718
3	(\$2,142,244,107)	(\$1,118,275,877)	(\$753,699,820)	(\$332,866,903)	-13,795
4	(\$1,745,563,815)	(\$865,526,860)	(\$579,580,828)	(\$222,490,612)	-10,165
5	(\$1,136,866,406)	(\$600,117,653)	(\$400,381,390)	(\$183,343,682)	-7,366
6	(\$1,588,645,880)	(\$740,912,933)	(\$482,736,607)	(\$144,294,775)	-7,971
7	(\$1,588,645,880)	(\$740,912,933)	(\$482,736,607)	(\$144,294,775)	-7,971
8	(\$1,107,636,278)	(\$569,988,892)	(\$373,709,011)	(\$147,111,652)	-6,534
9	(\$1,659,677,766)	(\$830,897,205)	(\$542,541,194)	(\$196,628,923)	-9,429
10	(\$1,676,636,282)	(\$845,085,951)	(\$555,550,206)	(\$207,867,094)	-9,765
11	(\$1,652,890,907)	(\$800,482,818)	(\$527,327,869)	(\$206,048,003)	-9,262
12	(\$1,301,095,213)	(\$653,803,871)	(\$428,141,005)	(\$164,119,863)	-7,543
13	(\$1,508,147,701)	(\$704,477,951)	(\$458,350,137)	(\$143,263,948)	-7,617
14	(\$1,207,879,799)	(\$642,447,547)	(\$422,490,829)	(\$164,112,442)	-7,421
15	(\$1,509,213,586)	(\$703,867,286)	(\$458,599,776)	(\$137,080,037)	-7,573
16	(\$1,611,628,636)	(\$790,695,759)	(\$505,682,329)	(\$164,787,440)	-8,479
17	(\$1,452,445,009)	(\$682,247,570)	(\$444,255,824)	(\$152,561,374)	-7,512
18	(\$1,687,377,538)	(\$834,131,779)	(\$548,759,247)	(\$246,100,023)	-9,913
19	(\$1,558,073,370)	(\$807,493,362)	(\$535,251,710)	(\$215,769,529)	-9,611
20	(\$1,418,845,861)	(\$720,318,045)	(\$480,802,830)	(\$196,261,811)	-8,664
21	(\$1,184,570,091)	(\$614,894,114)	(\$411,560,656)	(\$186,046,858)	-7,571
22	(\$1,853,088,143)	(\$936,324,731)	(\$618,468,733)	(\$257,877,978)	-11,251
23	(\$1,611,628,636)	(\$790,695,759)	(\$505,682,329)	(\$164,787,440)	-8,479
24	(\$1,716,010,590)	(\$904,526,146)	(\$603,030,224)	(\$260,439,516)	-11,050
25	(\$1,541,156,177)	(\$794,717,747)	(\$523,637,714)	(\$212,901,388)	-9,419
26	(\$1,640,122,562)	(\$849,975,042)	(\$561,693,487)	(\$210,163,689)	-9,907
27	(\$1,137,273,309)	(\$598,314,214)	(\$398,786,689)	(\$166,357,415)	-7,352
28	(\$1,727,281,536)	(\$894,805,564)	(\$590,056,879)	(\$257,504,259)	-10,738
29	(\$1,596,440,013)	(\$802,626,541)	(\$519,840,497)	(\$196,768,780)	-9,202
30	(\$1,683,408,628)	(\$869,465,536)	(\$575,478,274)	(\$258,874,927)	-10,520
31	(\$1,473,424,539)	(\$746,669,496)	(\$492,374,761)	(\$219,156,367)	-8,875
TOTAL	(\$48,511,246,517)	(\$24,392,663,846)	(\$16,065,943,936)	(\$6,289,186,456)	-284,012

NOTE: In cases in which a county was part of more than one district, allocations are based on the percentage of the population residing in a district. This convention is adopted because of a lack of subcounty data sufficient for allocation purposes. In some instances, this approach will result in districts which reflect the same proportion of a large urban county reporting identical results. Allocations reflect district maps as currently defined.



		y UU Congres	Sional District II	ΙΙσλάδ	
US	Total				
Congressional	Expenditures	Gross Product	Personal Income	Retail Sales	Employment
District in Texas	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(Permanent Jobs)
1	(\$1,804,734,504)	(\$927,305,463)	(\$620,366,295)	(\$259,876,489)	-11,235
2	(\$1,350,348,998)	(\$629,775,993)	(\$410,326,116)	(\$122,650,559)	-6,776
3	(\$915,199,471)	(\$476,825,671)	(\$314,559,210)	(\$129,028,446)	-5,554
4	(\$1,601,729,718)	(\$840,854,581)	(\$564,877,911)	(\$252,528,989)	-10,385
5	(\$1,593,240,624)	(\$815,241,516)	(\$537,603,360)	(\$210,607,176)	-9,564
6	(\$1,392,442,966)	(\$697,050,803)	(\$457,800,110)	(\$180,824,489)	-8,144
7	(\$1,350,348,998)	(\$629,775,993)	(\$410,326,116)	(\$122,650,559)	-6,776
8	(\$1,562,418,346)	(\$781,994,031)	(\$520,376,001)	(\$203,896,997)	-9,210
9	(\$1,319,681,988)	(\$616,931,103)	(\$401,105,126)	(\$128,129,223)	-6,687
10	(\$1,309,501,921)	(\$651,356,273)	(\$426,570,909)	(\$161,335,275)	-7,440
11	(\$1,616,270,805)	(\$825,964,154)	(\$546,433,186)	(\$245,912,952)	-9,983
12	(\$1,407,570,995)	(\$702,883,643)	(\$459,611,454)	(\$181,785,984)	-8,152
13	(\$1,501,701,360)	(\$774,143,832)	(\$512,569,106)	(\$230,964,236)	-9,331
14	(\$1,653,516,698)	(\$833,865,793)	(\$559,716,130)	(\$236,582,444)	-10,056
15	(\$938,374,779)	(\$492,728,786)	(\$329,362,776)	(\$145,554,416)	-6,104
16	(\$1,365,215,866)	(\$686,404,538)	(\$444,610,573)	(\$166,839,326)	-7,860
17	(\$1,377,989,611)	(\$709,057,844)	(\$467,641,456)	(\$196,291,388)	-8,477
18	(\$1,350,348,998)	(\$629,775,993)	(\$410,326,116)	(\$122,650,559)	-6,776
19	(\$1,446,228,380)	(\$750,455,376)	(\$495,349,682)	(\$210,327,875)	-8,943
20	(\$1,446,129,571)	(\$749,440,359)	(\$495,256,623)	(\$185,305,619)	-8,735
21	(\$1,437,307,266)	(\$744,509,941)	(\$490,720,530)	(\$199,803,474)	-8,820
22	(\$1,035,206,027)	(\$492,091,872)	(\$319,433,064)	(\$135,368,332)	-5,622
23	(\$1,291,274,559)	(\$667,787,889)	(\$440,988,381)	(\$183,802,875)	-7,978
24	(\$1,323,454,921)	(\$657,823,271)	(\$426,337,613)	(\$150,343,507)	-7,330
25	(\$1,265,798,921)	(\$662,305,962)	(\$441,119,286)	(\$185,068,283)	-8,020
26	(\$1,050,626,296)	(\$527,495,706)	(\$345,066,502)	(\$132,965,559)	-6,082
27	(\$1,656,717,414)	(\$813,821,679)	(\$540,374,169)	(\$236,162,909)	-9,747
28	(\$976,200,658)	(\$511,887,460)	(\$342,910,292)	(\$145,365,620)	-6,254
29	(\$1,350,348,998)	(\$629,775,993)	(\$410,326,116)	(\$122,650,559)	-6,776
30	(\$1,373,387,881)	(\$673,810,299)	(\$430,929,289)	(\$140,427,558)	-7,226
31	(\$819,045,727)	(\$442,864,932)	(\$297,296,025)	(\$129,284,343)	-5,419
32	(\$1,341,658,975)	(\$660,118,415)	(\$422,820,610)	(\$139,573,210)	-7,109
33	(\$1,393,231,785)	(\$692,838,006)	(\$449,328,271)	(\$157,504,861)	-7,720
34	(\$1,127,916,493)	(\$591,946,758)	(\$395,200,322)	(\$169,252,180)	-7,299
35	(\$1,229,964,975)	(\$642,305,128)	(\$424,230,881)	(\$165,297,684)	-7,535
36	(\$1,536,111,022)	(\$759,448,789)	(\$504,074,331)	(\$202,572,503)	-8,889
TOTAL	(\$48,511,246,517)	(\$24,392,663,846)	(\$16,065,943,936)	(\$6,289,186,456)	-284,012

NOTE: In cases in which a county is part of more than one district, allocations are based on the percentage of the population residing in a district. This convention is adopted because of a lack of subcounty data sufficient for allocation purposes. In some instances, this approach will result in districts which reflect the same proportion of a large urban county reporting identical results. Allocations reflect district maps as currently defined. SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



Total Annual Impact of Morbidity Losses Associated with the Incidence of Cancer



The Total Annual Impact of Morbidity Losses Associated with the Incidence of Cancer on Business Activity in Texas: Results by Detailed Industrial Category

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)
Agriculture	(\$481,784,142)	(\$143,433,562)	(\$86,736,669)	(1,584)
Mining	(\$3,456,865,396)	(\$1,661,309,003)	(\$568,132,965)	(2,295)
Construction	(\$1,383,256,580)	(\$674,245,182)	(\$508,409,838)	(7,861)
Nondurable Manufacturing	(\$4,581,442,837)	(\$1,266,469,996)	(\$667,971,611)	(7,003)
Durable Manufacturing	(\$2,204,105,433)	(\$916,820,662)	(\$617,195,018)	(6,034)
Transportation and Utilities	(\$3,485,902,395)	(\$1,211,537,018)	(\$676,765,030)	(7,082)
Information	(\$972,924,423)	(\$648,111,444)	(\$285,746,855)	(2,595)
Wholesale Trade	(\$1,331,367,339)	(\$1,038,572,515)	(\$583,083,481)	(6,773)
Retail Trade (including Restaurants)	(\$5,460,386,017)	(\$4,226,602,484)	(\$2,436,654,006)	(76,479)
FIRE	(\$7,793,169,065)	(\$2,316,275,150)	(\$825,190,886)	(7,845)
Business Services	(\$2,384,442,131)	(\$1,729,815,886)	(\$1,400,511,848)	(16,382)
Health Services	(\$1,544,401,739)	(\$1,241,682,586)	(\$992,868,637)	(17,424)
Other Services	(\$2,474,811,586)	(\$1,307,020,416)	(\$997,572,172)	(23,296)
TOTAL	(\$37,554,859,084)	(\$18,381,895,905)	(\$10,646,839,017)	(182,654)
SOURCE: US Multi-Regio	nal Impact Assessment Syste	em, The Perryman Group		



The Total Annual Impact of Morbidity Losses Associated with the Incidence of Cancer on Business Activity in Texas: Comptroller's Economic Region Results

Economic Region	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)			
High Plains	(\$1,253,112,905)	(\$640,135,465)	(\$370,801,227)	(\$211,178,722)	-6,620			
Northwest Texas	(\$1,059,774,775)	(\$545,331,040)	(\$310,177,491)	(\$182,898,883)	-5,531			
Metroplex	(\$9,732,423,933)	(\$4,785,762,908)	(\$2,769,979,488)	(\$1,347,293,754)	-46,741			
Upper East Texas	(\$2,202,360,159)	(\$1,106,533,750)	(\$640,370,035)	(\$373,857,100)	-11,499			
Southeast Texas	(\$1,462,739,111)	(\$735,084,587)	(\$444,781,251)	(\$269,546,252)	-8,128			
Gulf Coast	(\$9,816,602,104)	(\$4,534,628,694)	(\$2,569,440,956)	(\$1,085,615,991)	-40,317			
Capital	(\$1,960,892,058)	(\$1,010,070,786)	(\$602,491,277)	(\$322,487,240)	-10,708			
Central Texas	(\$1,601,108,195)	(\$807,410,234)	(\$478,544,645)	(\$288,685,938)	-8,948			
Alamo	(\$3,791,899,019)	(\$1,886,264,914)	(\$1,112,536,641)	(\$607,925,139)	-19,891			
South Texas	(\$2,615,674,018)	(\$1,321,006,545)	(\$768,962,026)	(\$453,739,732)	-14,071			
West Texas	(\$907,972,514)	(\$451,539,980)	(\$252,273,732)	(\$143,490,939)	-4,363			
Upper Rio Grande	(\$1,150,300,294)	(\$558,127,002)	(\$326,480,248)	(\$173,666,326)	-5,837			
TOTAL STATE IMPACT	(\$37,554,859,084)	(\$18,381,895,905)	(\$10,646,839,017)	(\$5,460,386,017)	-182,654			
SOURCE: US Multi-Re	SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group							



The Total Annual Impact of Morbidity Losses Associated with the Incidence of Cancer on Business Activity in Texas: Council of Governments (COG) Region Results

Council of Governments (COG) Region Results							
COG	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)		
Panhandle	(\$660,959,844)	(\$333,494,896)	(\$189,804,573)	(\$108,411,741)	-3,343		
South Plains	(\$592,153,060)	(\$306,640,569)	(\$180,996,654)	(\$102,766,982)	-3,276		
Nortex	(\$434,430,566)	(\$227,626,535)	(\$129,453,068)	(\$75,889,971)	-2,296		
North Central Texas	(\$9,364,522,827)	(\$4,597,593,939)	(\$2,656,367,337)	(\$1,277,346,148)	-44,630		
Ark-Tex	(\$476,921,396)	(\$241,149,408)	(\$145,050,518)	(\$92,833,705)	-2,742		
East Texas	(\$1,725,438,763)	(\$865,384,342)	(\$495,319,517)	(\$281,023,395)	-8,757		
West Central Texas	(\$625,344,208)	(\$317,704,505)	(\$180,724,423)	(\$107,008,912)	-3,235		
Rio Grande	(\$1,150,300,294)	(\$558,127,002)	(\$326,480,248)	(\$173,666,326)	-5,837		
Permian Basin	(\$626,201,420)	(\$313,119,651)	(\$175,242,179)	(\$97,742,776)	-2,966		
Concho Valley	(\$281,771,094)	(\$138,420,328)	(\$77,031,552)	(\$45,748,163)	-1,397		
Heart of Texas	(\$655,851,947)	(\$316,872,293)	(\$185,922,359)	(\$110,282,431)	-3,460		
Capital Area	(\$1,960,892,058)	(\$1,010,070,786)	(\$602,491,277)	(\$322,487,240)	-10,708		
Brazos Valley	(\$408,025,356)	(\$208,557,450)	(\$120,998,776)	(\$72,605,989)	-2,219		
Deep East Texas	(\$728,185,470)	(\$372,877,892)	(\$223,050,967)	(\$140,263,123)	-4,173		
South East Texas	(\$734,553,641)	(\$362,206,695)	(\$221,730,283)	(\$129,283,129)	-3,955		
Houston-Galveston Area	(\$9,816,602,104)	(\$4,534,628,694)	(\$2,569,440,956)	(\$1,085,615,991)	-40,317		
Golden Crescent	(\$356,270,956)	(\$176,782,456)	(\$102,194,209)	(\$59,046,670)	-1,793		
Alamo Area	(\$3,436,567,132)	(\$1,709,934,868)	(\$1,010,574,643)	(\$548,976,015)	-18,102		
South Texas	(\$262,228,656)	(\$138,767,702)	(\$77,831,134)	(\$50,312,055)	-1,437		
Coastal Bend	(\$1,058,784,579)	(\$503,489,478)	(\$286,120,237)	(\$160,618,982)	-4,958		
Lower Rio Grande Valley	(\$1,108,306,729)	(\$580,726,794)	(\$347,384,342)	(\$205,443,051)	-6,567		
Texoma	(\$367,901,106)	(\$188,168,968)	(\$113,612,151)	(\$69,947,606)	-2,111		
Central Texas	(\$537,230,893)	(\$281,980,491)	(\$171,623,510)	(\$105,797,518)	-3,270		
Middle Rio Grande	(\$185,414,985)	(\$97,570,161)	(\$57,394,103)	(\$37,268,098)	-1,105		
Border Region	(\$2,707,909,135)	(\$1,376,173,364)	(\$809,673,180)	(\$466,996,229)	-14,956		
TOTAL STATE IMPACT	(\$37,554,859,084)	(\$18,381,895,905)	(\$10,646,839,017)	(\$5,460,386,017)	-182,654		
SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group							



The Total Annual Impact of Morbidity Losses Associated with the Incidence of Cancer on Business Activity in Texas: Metropolitan Statistical Area (MSA) and Rural Texas Results

	Metropontan St	atiotioai / ii oa (i	nort, and rear a	TOXAC ROCARIO	
MSA	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
Abilene	(\$306,509,804)	(\$152,508,595)	(\$86,187,927)	(\$46,212,744)	-1,491
Amarillo	(\$423,095,493)	(\$219,432,464)	(\$125,607,181)	(\$68,856,791)	-2,215
Austin-Round Rock	(\$1,686,988,890)	(\$875,508,150)	(\$525,576,493)	(\$276,760,586)	-9,302
Beaumont-Port Arthur	(\$746,719,138)	(\$369,787,961)	(\$226,638,768)	(\$132,627,924)	-4,047
Brownsville- Harlingen	(\$445,224,937)	(\$225,567,710)	(\$134,492,800)	(\$80,221,704)	-2,561
College Station- Bryan	(\$263,756,268)	(\$133,794,356)	(\$77,465,343)	(\$44,899,172)	-1,410
Corpus Christi	(\$839,982,728)	(\$390,239,047)	(\$223,012,383)	(\$120,514,833)	-3,811
Dallas-Plano-Irving MD*	(\$5,756,772,487)	(\$2,820,317,860)	(\$1,620,746,596)	(\$741,475,545)	-26,733
Fort Worth- Arlington MD*	(\$3,404,832,150)	(\$1,676,236,812)	(\$975,745,254)	(\$499,719,319)	-16,780
El Paso	(\$1,117,617,625)	(\$541,096,861)	(\$316,381,331)	(\$167,085,067)	-5,644
Houston-The Woodlands-Sugar Land	(\$9,476,835,604)	(\$4,363,547,503)	(\$2,468,886,644)	(\$1,020,903,287)	-38,429
Killeen-Temple	(\$461,697,556)	(\$243,017,743)	(\$148,151,113)	(\$90,214,720)	-2,820
Laredo	(\$202,173,883)	(\$105,964,803)	(\$58,725,103)	(\$36,294,076)	-1,061
Longview	(\$432,124,879)	(\$222,055,549)	(\$128,337,204)	(\$70,209,925)	-2,221
Lubbock	(\$448,792,674)	(\$233,581,773)	(\$139,223,501)	(\$74,913,413)	-2,500
McAllen-Edinburg- Mission	(\$640,667,787)	(\$342,494,550)	(\$205,549,675)	(\$120,124,369)	-3,864
Midland	(\$194,978,044)	(\$98,765,809)	(\$54,824,420)	(\$28,963,962)	-908
Odessa	(\$221,819,360)	(\$109,706,707)	(\$62,787,947)	(\$33,934,614)	-1,053
San Angelo	(\$199,287,042)	(\$97,048,639)	(\$53,604,000)	(\$31,036,498)	-974
San Antonio-New Braunfels	(\$3,198,860,524)	(\$1,593,876,848)	(\$943,927,851)	(\$508,117,059)	-16,865
Sherman-Denison	(\$216,566,462)	(\$112,523,342)	(\$68,602,083)	(\$43,927,629)	-1,310
Texarkana	(\$154,085,377)	(\$81,175,451)	(\$49,233,758)	(\$29,979,045)	-923
Tyler	(\$454,654,451)	(\$223,696,941)	(\$123,536,945)	(\$67,192,649)	-2,128
Victoria	(\$193,319,846)	(\$94,984,754)	(\$54,295,214)	(\$29,840,253)	-918
Waco	(\$467,155,280)	(\$224,799,495)	(\$132,632,849)	(\$75,185,714)	-2,444
Wichita Falls	(\$271,319,165)	(\$145,429,532)	(\$82,773,488)	(\$46,742,203)	-1,451
Rural Area	(\$5,329,021,630)	(\$2,684,736,651)	(\$1,559,893,145)	(\$974,432,917)	-28,792
TOTAL STATE	(\$37,554,859,084)	(\$18,381,895,905)	(\$10,646,839,017)	(\$5,460,386,017)	-182,654

*Metropolitan Division



	of Cancer on	Business Activi	ty in Texas: Co	unty Results	
County	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
Anderson	-\$86,548,522	-\$47,074,099	-\$27,264,746	-\$15,737,085	-488
Andrews	-\$21,039,381	-\$10,908,945	-\$6,012,553	-\$3,250,074	-100
Angelina	-\$154,575,452	-\$77,300,718	-\$46,971,148	-\$28,938,106	-877
Aransas	-\$80,445,384	-\$37,163,380	-\$20,257,818	-\$12,005,497	-351
Archer	-\$13,108,355	-\$6,773,956	-\$3,631,741	-\$2,270,514	-66
	-\$4,405,268	-\$2,226,121	-\$1,255,737	-\$528,496	-20
Armstrong Atascosa	-\$74,141,236	-\$35,818,673	-\$20,206,444	-\$11,033,954	-342
Austin	-\$52,352,554	-\$24,870,017	-\$14,927,988	-\$6,997,746	-243
Bailey	-\$6,518,888	-\$3,360,554	-\$2,018,152	-\$1,391,362	-38
Bandera	-\$46,695,619	-\$22,193,812	-\$12,515,923	-\$8,258,117	-237
Bastrop	-\$112,634,475	-\$55,364,575	-\$32,702,623	-\$20,333,010	-618
Baylor	-\$10,742,914	-\$5,717,885	-\$3,327,730	-\$2,012,482	-61
Bee	-\$36,764,350	-\$19,508,005	-\$10,980,930	-\$6,939,594	-203
Bell	-\$342,395,456	-\$182,818,930	-\$112,517,298	-\$66,758,892	-2,121
Bexar	-\$2,543,337,144	-\$1,276,172,802	-\$760,098,722	-\$392,364,634	-13,413
Blanco	-\$17,279,918	-\$8,192,994	-\$4,686,967	-\$3,029,571	-13,413
Borden	-\$6,277,053	-\$3,122,622	-\$1,660,848	-\$792,236	-26
Bosque	-\$36,728,635	-\$18,107,675	-\$10,965,429	-\$6,158,611	-201
Bowie	-\$154,085,377	-\$81,175,451	-\$49,233,758	-\$29,979,045	-923
Brazoria	-\$407,410,489	-\$194,246,996	-\$114,278,086	-\$67,536,237	-2,013
Brazos	-\$195,672,875	-\$98,885,957	-\$57,034,778	-\$31,158,776	-1,026
Brewster	-\$14,242,661	-\$7,818,223	-\$4,752,221	-\$2,845,233	-89
Briscoe	-\$3,189,809	-\$1,501,443	-\$863,151	-\$548,146	-16
Brooks	-\$9,794,715	-\$5,344,722	-\$3,095,477	-\$2,081,878	-58
Brown	-\$64,368,330	-\$34,912,318	-\$21,241,071	-\$14,920,127	-423
Burleson	-\$36,469,465	-\$19,355,168	-\$11,060,292	-\$6,939,594	-198
Burnet	-\$87,023,312	-\$41,662,143	-\$24,086,005	-\$14,295,563	-438
Caldwell	-\$63,889,031	-\$32,110,174	-\$18,397,643	-\$10,686,974	-329
Calhoun	-\$26,527,173	-\$10,895,247	-\$6,263,174	-\$3,478,032	-105
Callahan	-\$31,820,458	-\$15,435,724	-\$8,454,986	-\$5,204,695	-152
Cameron	-\$445,224,937	-\$225,567,710	-\$134,492,800	-\$80,221,704	-2,561
Camp	-\$18,926,991	-\$9,281,509	-\$5,517,796	-\$3,410,191	-104
Carson	-\$5,538,125	-\$2,336,047	-\$1,089,845	-\$434,445	-17
Cass	-\$54,455,013	-\$27,557,660	-\$16,445,146	-\$11,537,906	-316
Castro	-\$5,524,196	-\$2,679,663	-\$1,591,446	-\$1,143,377	-31
Chambers	-\$54,008,353	-\$23,254,068	-\$12,576,885	-\$5,745,903	-197
Cherokee	-\$80,339,414	-\$40,372,359	-\$24,875,756	-\$15,717,223	-464
Childress	-\$11,822,946	-\$5,916,403	-\$3,406,739	-\$2,359,462	-66
Clay	-\$21,210,268	-\$10,809,860	-\$6,476,056	-\$3,319,897	-111
Cochran	-\$3,188,382	-\$1,708,253	-\$889,338	-\$419,431	-14
Coke	-\$10,128,600	-\$4,902,965	-\$2,737,944	-\$1,604,770	-46
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	of Cancer on	Business Activi	ty in Texas: Co	unty Results	
	Total				Employment
County	Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	(Permanent Jobs)
County Coleman	-\$23,449,495	-\$12,131,986	-\$6,751,535	-\$4,094,360	-121
Collin	-\$769,516,457	-\$395,684,255	-\$234,352,519	-\$125,924,471	-4,114
Collingsworth	-\$5,366,524	-\$2,954,218	-\$1,773,598	-\$1,134,841	-4,114
Colorado	-\$46,355,456	-\$23,599,244	-\$13,608,285	-\$9,222,766	-270
Comal	-\$181,239,509		-\$13,008,285		-988
Comanche		-\$87,778,970 -\$13,825,817		-\$32,130,319 \$5,104,530	-156
	-\$27,170,088		-\$8,330,893	-\$5,194,530	-136
Concho	-\$4,696,454	-\$2,512,449	-\$1,580,205	-\$870,901	
Cooke	-\$84,788,500	-\$42,247,816	-\$24,481,072	-\$13,254,624	-412
Coryell	-\$77,716,017	-\$39,249,510	-\$23,237,424	-\$15,128,315	-453
Cottle	-\$4,497,160	-\$2,613,175	-\$1,556,787	-\$811,164	-26
Crane	-\$3,627,825	-\$1,973,427	-\$1,073,282	-\$549,939	-18
Crockett	-\$5,200,159	-\$2,686,883	-\$1,468,084	-\$1,110,335	-28
Crosby	-\$9,258,511	-\$5,009,417	-\$2,812,357	-\$1,311,167	-47
Culberson	-\$2,600,315	-\$1,548,299	-\$909,374	-\$763,355	-19
Dallam	-\$6,708,415	-\$3,600,475	-\$2,145,018	-\$1,131,565	-39
Dallas	-\$3,751,685,612	-\$1,829,073,426	-\$1,032,502,254	-\$414,073,611	-16,267
Dawson	-\$23,150,214	-\$11,710,573	-\$6,373,927	-\$4,007,240	-114
Deaf Smith	-\$14,134,588	-\$6,907,125	-\$4,065,152	-\$2,166,613	-74
Delta	-\$8,638,469	-\$4,517,941	-\$2,732,134	-\$1,104,211	-46
Denton	-\$684,552,451	-\$328,199,792	-\$193,956,327	-\$100,762,902	-3,366
DeWitt	-\$42,690,364	-\$21,440,528	-\$12,793,530	-\$7,772,345	-237
Dickens	-\$5,111,450	-\$2,698,657	-\$1,625,582	-\$1,011,280	-29
Dimmit	-\$10,651,561	-\$5,549,856	-\$3,112,628	-\$2,220,670	-60
Donley	-\$7,732,688	-\$4,368,423	-\$2,641,718	-\$2,012,482	-54
Duval	-\$16,978,655	-\$8,287,693	-\$4,460,640	-\$2,452,785	-78
Eastland	-\$41,409,342	-\$20,513,373	-\$11,499,700	-\$7,564,157	-211
Ector	-\$221,819,360	-\$109,706,707	-\$62,787,947	-\$33,934,614	-1,053
Edwards	-\$3,254,582	-\$1,605,544	-\$859,686	-\$569,289	-16
El Paso	-\$1,115,711,329	-\$540,103,401	-\$315,819,424	-\$166,480,856	-5,632
Ellis	-\$191,657,308	-\$88,739,190	-\$52,648,896	-\$32,220,769	-951
Erath	-\$47,162,619	-\$25,502,100	-\$15,628,986	-\$10,478,787	-308
Falls	-\$30,976,259	-\$16,415,895	-\$10,040,800	-\$6,067,359	-190
Fannin	-\$66,546,143	-\$33,397,810	-\$20,528,997	-\$12,765,353	-389
Fayette	-\$70,081,533	-\$35,795,939	-\$20,115,288	-\$10,825,766	-350
Fisher	-\$7,107,125	-\$3,685,178	-\$2,156,432	-\$1,519,736	-42
Floyd	-\$7,882,732	-\$3,550,039	-\$2,050,459	-\$1,085,821	-37
Foard	-\$1,732,115	-\$973,820	-\$600,809	-\$362,310	-11
Fort Bend	-\$716,750,375	-\$336,457,522	-\$188,878,414	-\$94,227,381	-3,074
Franklin	-\$16,521,952	-\$8,222,291	-\$4,466,035	-\$2,863,643	-82
Freestone	-\$37,773,688	-\$18,684,344	-\$10,158,982	-\$6,939,594	-186
Frio	-\$23,381,973	-\$11,329,898	-\$6,158,030	-\$3,703,979	-109



	of Cancer on E	Business Activi	ty in Texas: Co	unty Results	
County	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
Gaines	-\$15,257,605	-\$7,382,104	-\$3,873,392	-\$2,284,767	-66
Galveston	-\$572,667,566	-\$267,244,495	-\$156,169,135	-\$89,451,364	-2,785
Garza	-\$8,417,929	-\$4,128,348	-\$2,272,094	-\$1,400,211	-39
Gillespie	-\$62,077,432	-\$30,402,032	-\$18,058,448	-\$11,103,350	-342
Glasscock	-\$807,909	-\$398,802	-\$193,443	-\$67,717	-3
Goliad	-\$12,913,915	-\$6,918,168	-\$3,953,631	-\$2,845,233	-75
Gonzales	-\$23,941,808	-\$12,215,604	-\$7,307,212	-\$4,653,110	-138
Gray	-\$55,732,079	-\$26,060,276	-\$14,606,022	-\$8,862,350	-248
Grayson	-\$216,566,462	-\$112,523,342	-\$68,602,083	-\$43,927,629	-1,310
Gregg	-\$255,811,972	-\$134,999,901	-\$78,356,205	-\$41,429,375	-1,341
Grimes	-\$33,129,863	-\$16,679,855	-\$9,851,583	-\$5,949,784	-180
Guadalupe	-\$160,820,371	-\$79,580,186	-\$47,067,469	-\$30,742,401	-886
Hale	-\$35,766,871	-\$19,192,795	-\$11,623,126	-\$8,711,198	-234
Hall	-\$7,045,953	-\$3,558,059	-\$2,053,255	-\$1,334,673	-39
Hamilton	-\$15,436,426	-\$7,622,883	-\$4,606,324	-\$3,261,609	-91
Hansford	-\$5,832,003	-\$2,639,833	-\$1,280,448	-\$579,226	-18
Hardeman	-\$7,102,625	-\$3,903,364	-\$2,302,189	-\$1,873,690	-48
Hardin	-\$99,027,950	-\$48,627,375	-\$27,703,960	-\$17,626,568	-502
Harris	-\$6,710,050,663	-\$3,053,531,930	-\$1,718,291,804	-\$626,061,764	-25,711
Harrison	-\$141,555,247	-\$65,863,027	-\$37,594,742	-\$18,295,945	-607
Hartley	-\$1,655,098	-\$815,907	-\$471,561	-\$303,987	-9
Haskell	-\$11,816,420	-\$6,086,597	-\$3,545,108	-\$2,043,965	-63
Hays	-\$159,014,110	-\$80,435,691	-\$47,739,146	-\$28,313,543	-883
Hemphill	-\$3,631,013	-\$1,711,514	-\$874,727	-\$459,236	-14
Henderson	-\$207,822,032	-\$100,573,265	-\$58,013,747	-\$34,350,989	-1,071
Hidalgo	-\$640,667,787	-\$342,494,550	-\$205,549,675	-\$120,124,369	-3,864
Hill	-\$71,852,420	-\$33,407,785	-\$19,266,546	-\$13,601,604	-391
Hockley	-\$28,724,867	-\$14,778,802	-\$8,219,971	-\$5,185,398	-150
Hood	-\$120,208,393	-\$56,798,182	-\$33,614,521	-\$21,165,761	-632
Hopkins	-\$56,852,346	-\$29,807,273	-\$18,120,465	-\$12,283,081	-349
Houston	-\$57,970,285	-\$28,372,973	-\$17,281,615	-\$7,868,153	-283
Howard	-\$68,554,837	-\$32,969,882	-\$18,549,892	-\$10,617,579	-318
Hudspeth	-\$1,906,296	-\$993,460	-\$561,907	-\$604,212	-13
Hunt	-\$133,656,092	-\$67,091,640	-\$40,470,198	-\$27,550,187	-780
Hutchinson	-\$44,647,613	-\$20,950,764	-\$11,661,946	-\$8,022,939	-201
Irion	-\$2,989,579	-\$1,253,402	-\$642,415	-\$363,494	-10
Jack	-\$15,132,443	-\$7,594,499	-\$4,293,498	-\$2,556,341	-74
Jackson	-\$24,388,475	-\$12,620,775	-\$6,825,953	-\$4,462,140	-123
Jasper	-\$66,331,808	-\$33,790,820	-\$20,254,683	-\$13,702,152	-395
Jeff Davis	-\$5,210,610	-\$2,559,569	-\$1,486,246	-\$960,187	-28
Jefferson	-\$478,486,647	-\$236,524,359	-\$147,146,045	-\$82,928,146	-2,610



	of Cancer on E	pusiness Activi	ty III Texas. Co	unity Results	
County	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
Jim Hogg	-\$8,351,912	-\$4,225,128	-\$2,272,515	-\$1,665,503	-42
Jim Wells	-\$54,997,420	-\$30,450,222	-\$17,084,150	-\$10,825,766	-313
Johnson	-\$223,995,840	-\$110,509,628	-\$67,783,537	-\$40,180,248	-1,245
Jones	-\$39,856,057	-\$20,163,696	-\$11,352,325	-\$6,240,683	-200
Karnes	-\$33,026,212	-\$15,137,196	-\$8,300,988	-\$4,788,320	-141
Kaufman	-\$148,211,366	-\$72,093,936	-\$43,239,623	-\$26,925,624	-817
Kendall	-\$64,717,190	-\$29,884,641	-\$17,126,845	-\$10,339,995	-308
Kenedy	-\$2,721,670	-\$1,397,737	-\$717,672	-\$524,537	-14
Kent	-\$2,249,198	-\$1,088,947	-\$590,286	-\$316,799	-10
Kerr	-\$118,281,922	-\$58,736,484	-\$33,897,115	-\$21,165,761	-641
Kimble	-\$12,036,074	-\$5,268,811	-\$2,894,081	-\$1,873,690	-52
King	-\$2,144,254	-\$1,151,796	-\$692,951	-\$283,779	-12
Kinney	-\$9,607,259	-\$4,528,678	-\$2,325,708	-\$1,492,109	-42
Kleberg	-\$48,099,286	-\$24,392,276	-\$13,687,439	-\$8,119,325	-246
Knox	-\$7,794,591	-\$4,115,041	-\$2,272,298	-\$1,122,812	-37
La Salle	-\$6,691,451	-\$3,614,832	-\$1,980,416	-\$1,457,315	-39
Lamar	-\$93,098,797	-\$46,171,738	-\$28,108,252	-\$18,799,883	-550
Lamb	-\$15,408,619	-\$7,125,779	-\$4,222,525	-\$2,686,726	-76
Lampasas	-\$41,586,084	-\$20,949,303	-\$12,396,391	-\$8,327,513	-246
Lavaca	-\$45,403,289	-\$24,625,549	-\$14,709,127	-\$8,840,791	-272
Lee	-\$29,651,548	-\$14,961,338	-\$8,464,137	-\$4,876,296	-149
Leon	-\$30,017,937	-\$16,100,320	-\$9,064,973	-\$6,468,002	-172
Liberty	-\$140,238,159	-\$72,221,464	-\$42,031,286	-\$23,128,816	-732
Limestone	-\$42,341,924	-\$21,872,995	-\$12,898,554	-\$8,396,909	-238
Lipscomb	-\$5,351,693	-\$2,573,169	-\$1,288,035	-\$621,605	-21
Live Oak	-\$34,281,257	-\$16,284,432	-\$9,069,817	-\$5,829,259	-159
Llano	-\$69,866,858	-\$33,950,222	-\$19,562,386	-\$12,699,457	-378
Loving	-\$1,577,303	-\$764,932	-\$318,611	-\$97,159	-4
Lubbock	-\$433,214,666	-\$225,491,128	-\$134,625,607	-\$72,865,735	-2,423
Lynn	-\$6,319,497	-\$3,081,229	-\$1,785,537	-\$736,512	-29
Madison	-\$17,583,380	-\$9,005,988	-\$5,074,623	-\$3,886,173	-103
Marion	-\$24,823,012	-\$12,713,951	-\$7,348,190	-\$4,857,716	-142
Martin	-\$5,910,592	-\$2,806,544	-\$1,546,031	-\$831,174	-25
Mason	-\$11,982,189	-\$5,935,374	-\$3,189,651	-\$1,943,086	-58
Matagorda	-\$71,266,437	-\$32,707,383	-\$19,075,073	-\$12,459,585	-343
Maverick	-\$48,054,160	-\$24,683,936	-\$14,236,489	-\$9,715,431	-280
McCulloch	-\$17,993,836	-\$9,350,327	-\$5,660,843	-\$3,539,193	-105
McLennan	-\$436,179,020	-\$208,383,600	-\$122,592,049	-\$69,118,354	-2,253
McMullen	-\$939,069	-\$452,410	-\$232,210	-\$97,546	-3
Medina	-\$66,454,372	-\$31,857,080	-\$18,108,341	-\$11,797,309	-349
Menard	-\$5,762,640	-\$3,011,109	-\$1,646,759	-\$1,110,335	-30



	of Cancer on	Business Activi	ty in Texas: Co	unty Results	
County	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
Midland	-\$189,067,452	-\$95,959,265	-\$53,278,389	-\$28,132,787	-883
Milam	-\$42,603,668	-\$21,499,340	-\$12,856,488	-\$8,141,943	-240
Mills	-\$6,988,202	-\$4,235,703	-\$2,683,300	-\$1,819,785	-53
Mitchell	-\$15,785,823	-\$8,163,288	-\$4,615,140	-\$2,817,849	-82
Montague	-\$49,110,801	-\$23,971,409	-\$13,097,390	-\$8,119,325	-239
Montgomery	-\$767,687,489	-\$367,137,802	-\$208,240,674	-\$98,732,603	-3,424
Moore	-\$25,489,320	-\$11,160,528	-\$6,139,171	-\$3,474,045	-102
Morris	-\$24,702,017	-\$10,827,885	-\$6,485,525	-\$2,931,455	-105
Motley	-\$3,796,283	-\$1,802,944	-\$954,385	-\$599,552	-17
Nacogdoches	-\$88,104,617	-\$46,961,199	-\$28,741,344	-\$19,222,675	-574
Navarro	-\$87,945,730	-\$43,647,921	-\$26,322,649	-\$14,985,523	-488
Newton	-\$12,165,497	-\$7,581,266	-\$4,908,485	-\$3,344,795	-93
Nolan	-\$34,663,269	-\$18,280,985	-\$10,257,929	-\$6,037,978	-182
Nueces	-\$644,659,712	-\$299,323,051	-\$171,854,598	-\$88,688,009	-2,900
Ochiltree	-\$10,666,845	-\$5,138,206	-\$2,761,327	-\$1,470,723	-45
Oldham	-\$1,021,640	-\$577,614	-\$353,134	-\$324,461	-8
Orange	-\$157,039,044	-\$77,054,961	-\$46,880,278	-\$28,728,415	-843
Palo Pinto	-\$67,809,842	-\$31,889,247	-\$17,923,851	-\$10,686,974	-321
Panola	-\$46,845,823	-\$23,882,663	-\$13,597,959	-\$7,759,260	-238
Parker	-\$192,540,621	-\$90,033,734	-\$51,925,594	-\$30,464,817	-935
Parmer	-\$4,522,051	-\$2,073,759	-\$1,195,061	-\$415,110	-20
Pecos	-\$19,088,018	-\$9,552,177	-\$5,257,623	-\$3,539,193	-98
Polk	-\$138,328,300	-\$70,870,835	-\$40,072,725	-\$25,329,517	-717
Potter	-\$218,714,411	-\$114,020,884	-\$64,742,168	-\$34,559,177	-1,125
Presidio	-\$10,629,084	-\$5,104,050	-\$2,951,077	-\$2,012,482	-56
Rains	-\$21,388,326	-\$9,968,757	-\$5,532,567	-\$3,863,439	-103
Randall	-\$193,416,050	-\$100,271,799	-\$58,166,297	-\$33,010,212	-1,045
Reagan	-\$3,179,693	-\$1,644,987	-\$879,786	-\$599,616	-15
Real	-\$10,926,292	-\$4,993,827	-\$2,708,967	-\$1,665,503	-48
Red River	-\$31,551,222	-\$14,986,994	-\$8,613,302	-\$5,492,045	-162
Reeves	-\$17,166,367	-\$8,866,865	-\$4,919,168	-\$3,608,589	-93
Refugio	-\$15,164,497	-\$7,585,344	-\$4,011,728	-\$3,331,005	-76
Roberts	-\$1,460,847	-\$664,679	-\$345,200	-\$272,049	-6
Robertson	-\$31,613,928	-\$15,553,232	-\$9,370,273	-\$6,800,802	-185
Rockwall	-\$77,493,200	-\$39,435,620	-\$23,576,780	-\$14,017,980	-438
Runnels	-\$27,025,403	-\$12,169,166	-\$6,631,497	-\$3,880,956	-114
Rusk	-\$95,566,950	-\$46,567,226	-\$26,811,355	-\$14,484,987	-462
Sabine	-\$25,690,668	-\$12,733,650	-\$7,934,193	-\$5,140,230	-149
San Augustine	-\$22,314,613	-\$10,723,268	-\$5,922,343	-\$3,660,120	-108
San Jacinto	-\$50,767,751	-\$24,825,278	-\$14,609,085	-\$9,437,848	-276
San Patricio	-\$114,877,632	-\$53,752,616	-\$30,899,968	-\$19,821,327	-560



County Expenditures (2016 Dollars) Gross Product (2016 Dollars) Personal Income (2016 Dollars) (2016 Dollars) Retail Sales (2016 Dollars) (2016 Dollars) (2016 Dollars) Expenditures (2016 Dollars) (2016 Dollars) (2016 Dollars) (2016 Dollars) (2016 Dollars) Ass. 406 (2016 Dollars) (2016		of Cancer on Business Activity in Texas: County Results						
County (2016 Dollars) (2016 Dollars) (2016 Dollars) (2016 Dollars) (2016 Dollars) San Saba -\$10,505,041 -\$5,604,822 -\$3,326,284 -\$2,5396,286 -16 Scurry -\$26,952,626 -\$14,717,648 -\$6,064,31 -\$5,525,910 -16 Shethy -\$35,002,860 -\$18,895,879 -\$12,003,371 -\$7,833,382 -232 Sherman -\$1,11,168 -\$52,3272 -\$303,567 -\$164,229 -6 Smith -\$44,654,451 -\$223,696,941 -\$12,355,945 -\$67,192,649 -2,128 Somervell -\$7,861,468 -\$5,653,888 -\$2,240,006 -\$901,316 -39 Starr -\$38,204,662 -\$21,601,237 -\$12,942,231 -\$9,576,639 -261 Stephens -\$18,12,2689 -\$38,803,33 -\$5,523,466 -\$3,866,887 -00 Stering -\$13,355,399 -\$780,993 -\$430,295 -\$431,365 -\$434,893 -\$416 Stering -\$13,355,399 -\$780,993 -\$430,000 -\$635,618 147					2			
San Saba \$10,505,041 \$5,804,822 \$3,33,62,84 \$2,339,462 6.76 Schleicher \$3,946,728 \$1,795,999 \$997,369 \$5394,236 1.16 Scurry \$26,952,526 \$14,717,648 \$8,066,431 \$5,555,101 1.48 Shackelford \$5,685,868 \$2,861,807 \$11,203,371 \$7,833,382 2.22 Shelby \$35,002,800 \$18,895,879 \$12,003,071 \$7,833,382 2.22 Sherman \$11,511,68 \$52,223,696,941 \$123,536,945 \$61,122,69 \$2,128 Smeryll \$7,861,468 \$3,853,888 \$2,240,006 \$901,316 39 Starr \$38,214,662 \$2,15,612,377 \$12,942,231 \$9,576,639 46 Stephens \$18,212,696 \$3,843,833 \$45,255,3646 \$3,866,887 100 Sterr \$18,212,696 \$3,843,833 \$45,241,818 \$3,552,3464 \$3,866,887 10 Stephens \$18,212,693 \$15,609,833 \$43,803,833 \$443,505 \$334,6980 \$48	County							
Schleicher -\$3,496,728 -\$1,795,989 -\$997,369 -\$394,236 -16 Scurry \$26,952,526 -\$14,717,648 -\$8,066,431 -\$5,525,910 -148 Shackelford \$5,685,968 -\$2,816,807 -\$1,528,211 -\$833,000 -26 Sheiby -\$3,5002,860 -\$18,895,879 -\$12,030,371 -\$7,833,382 -232 Sherman -\$1,151,168 -\$523,8272 \$303,567 -\$164,229 -6 Smith -\$454,654,451 -\$223,896,941 -\$12,230,0371 -\$7,649,49 -2,128 Somervell -\$7,861,468 -\$538,2372 \$303,567 -\$164,229 -6 Story -\$1,361,488 -\$3,253,489 \$22,4000 -\$901,181 -39 Story -\$1,361,489 -\$3,863,888 -\$22,240 -\$3,366,891 -\$61 -39 Stephens -\$13,212,281 -\$1,361,333 -\$52,364 -\$3,366,891 -\$61 Stephens -\$13,242,231 -\$3,366,893 -\$780,983 -\$52,364,893 -\$1,220 -\$1,221 -\$1,221								
Scurry -\$26,952,526 \$14,717,648 \$8,066,431 \$5,525,910 -148 Shackelford \$5,686,868 \$2,861,807 \$1,528,211 \$883,006 -26 Sheiby \$35,002,860 \$18,895,879 \$12,003,071 \$7,833,382 -232 Sherman \$1,161,168 \$582,372 \$303,667 \$164,229 -6 Smith \$454,654,451 \$2223,698,941 \$123,536,945 \$67,192,649 -2,128 Scherman -\$38,204,662 \$21,601,237 \$12,942,231 \$9,976,639 -261 Stephens -\$18,212,694 -\$9,843,633 \$55,23,646 \$3,866,887 -100 Stering \$4,3555,939 \$780,993 \$443,505 \$346,980 -8 Stonewall \$42,889,342 \$1,600,702 \$912,000 \$363,618 117 Sutton \$6,651,739 \$3,341,813 \$1,929,324 \$1,318,523 -35 Swisher \$7,916,944 \$3,866,681 \$2,148,484 \$1,277,975 40 Tarrant \$2,764,752,19 \$3,178,6								
Shackelford \$5,685,868 \$2,861,807 \$1,528,211 \$883,006 2.6 Shelby \$35,002,860 \$18,895,879 \$12,030,371 \$7,833,382 .222 Sherman \$1,151,168 \$532,372 \$303,567 \$164,229 66 Smith \$454,664,461 \$222,696,941 \$122,536,945 \$9,716,299 -2,128 Somervell \$7,861,468 \$3,663,888 \$2,240,006 \$901,316 .39 Starr \$38,204,662 \$21,601,237 \$12,942,231 \$9,976,639 .761 Stephens \$18,212,694 \$9,843,633 \$5,523,664 \$3,866,887 100 Sterling \$1,355,939 \$780,983 \$443,505 \$346,980 -48 Stonewall \$2,828,9342 \$1,620,702 \$912,000 \$635,616 117 Sutton \$6,861,739 \$3,481,813 \$1,929,324 \$1,318,523 36 Swisher \$7,916,944 \$3,866,85 \$2,145,848 \$1,277,975 40 Tarriant \$2,776,475,219 \$1,316,86,81								
Shelby -\$35,002,860 -\$18,895,879 -\$12,030,371 -\$7,833,382 -323 Sherman -\$115,168 -\$532,372 -\$303,567 -\$164,229 -6 Smith -\$454,664,451 -\$232,369,691 -\$132,358,694 -\$67,192,649 -2,128 Somervell -\$7,861,468 -\$3,853,888 -\$2,240,006 -\$901,316 -39 Starr -\$38,204,662 -\$21,01237 -\$12,942,231 -\$9,576,639 -261 Stephens -\$18,212,694 -\$9,843,633 -\$5,523,646 -\$3,866,887 -100 Sterling -\$13,55,939 -\$709,093 -\$443,505 -\$346,980 -8 Stonewall -\$2,889,342 -\$1,600,702 -\$912,00 -\$635,616 -17 Stutton -\$6,617,39 -\$3,481,813 -\$1,929,324 -\$1,318,523 -36 Swisher -\$7,916,444 -\$3,668,685 -\$24,145,84 -\$1,277,975 -40 Tarrant -\$2,776,475,219 -\$1,316,686,511 -\$795,750,804 -\$32,279,329 -\$1,148 Tarylor <	-	· · · ·			· · · · ·			
Sheman -\$1,151,168 -\$532,372 -\$303,567 -\$164,229 -6 Smith -\$454,664,461 -\$223,696,941 -\$123,369,445 -\$67,192,649 -2,128 Somervell -\$7,861,468 -\$3,653,888 -\$2,240,006 -\$901,316 -39 Starr -\$38,204,662 -\$21,601,237 -\$12,942,231 -\$9,576,639 -261 Stephens -\$18,212,694 -\$9,843,633 -\$5,523,646 -\$3,866,887 -100 Sterling -\$1,355,939 -\$780,993 -\$443,505 -\$346,681,687 -10 Stutton -\$6,661,739 -\$3,481,813 -\$1,929,324 -\$1,318,523 -36 Swisher -\$7,916,944 -\$3,666,685 -\$2,145,848 -\$1,277,975 -40 Tarrant -\$2,776,475,219 -\$1,317,686,511 -\$795,750,804 -\$392,295,238 -13,497 Taylor -\$234,833,289 -\$11,699,175 -\$66,380,617 -\$34,767,365 -1,139 Terrell -\$1,684,775 -\$991,716,23 -\$41,255 -\$361,237 -\$371,482 -11	Shelby					-232		
Smith \$454,654,451 \$-\$223,696,941 \$123,536,945 \$-\$67,192,649 \$-2,188 Somervell \$7,861,468 \$3,635,888 \$224,00,06 \$901,316 3.9 Starr \$38,204,662 \$21,601,237 \$1,242,231 \$9,576,639 2-61 Stephens \$18,212,694 \$9,843,633 \$5,522,846 \$3,866,887 -10 Sterling \$1,355,939 \$780,983 \$443,505 \$346,800 -18 Stonewall \$2,889,342 \$1,620,702 \$912,000 \$6651,616 -17 Sutton \$6,651,739 \$3,348,1813 \$1,929,324 \$1,175,523 -38 Swisher \$75,916,944 \$3,666,685 \$24,148,484 \$1,277,975 40 Tarrant \$2,277,6475,219 \$1,371,686,511 \$795,750,804 \$332,295,233 13,497 Tarylor \$15,669,475 \$981,705 \$583,362 \$30,673,005 16 Terryl \$1,564,928 \$9,971,823 \$470,425 \$30,673,005 94 Terry \$1,564,928 \$9,9		· · · ·						
Somervell \$7,861,468 \$3,653,888 \$2,240,006 \$901,316 .39 Starr \$38,204,662 \$21,601,237 \$12,942,231 \$9,576,639 .261 Stephens \$18,212,694 \$9,843,633 \$5,523,646 \$3,866,887 -108 Storewall \$1,355,939 \$780,983 \$\$43,505 \$346,980 -8 Stonewall \$2,889,342 \$1,620,702 \$912,060 \$635,616 -17 Sutton \$6,651,739 \$3,481,813 \$1,929,324 \$1,318,523 -35 Swisher \$7,916,944 \$3,656,885 \$2,145,848 \$1,277,975 -40 Tarant \$2,776,475,219 \$1,371,686,511 \$795,750,804 \$392,295,238 13,407 Taylor \$2,34,833,289 \$\$116,909,175 \$66,380,617 \$347,67,355 \$1,409 Terry \$1,565,470 \$981,705 \$583,352 \$306,700 10 Terry \$1,564,928 \$9,071,823 \$4,770,424 \$3,462,334 \$1 Tirus \$37,016,203 \$17,882,175 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
Starr -\$38,204,662 -\$21,601,237 -\$12,942,231 -\$9,576,639 -261 Stephens -\$18,212,694 -\$9,843,633 -\$5,523,646 -\$3,866,887 -100 Sterling -\$1,355,939 -\$780,983 -\$443,505 -\$346,980 -8 Stonewall -\$2,889,342 -\$1,620,702 -\$912,000 -\$635,616 -17 Sutton -\$6,651,739 -\$3,481,813 -\$1,292,324 -\$1,315,523 -36 Swisher -\$7,916,944 -\$3,656,685 -\$2,145,848 -\$1,277,975 -40 Tarrant -\$2,776,475,219 -\$1,371,686,611 -\$795,750,804 -\$392,92,38 -13,497 Taylor -\$234,833,289 -\$11,690,9175 -\$66,380,617 -\$34,62,334 -81 Terrell -\$1,564,928 -\$9,971,823 -\$4,770,424 -\$3,462,334 -81 Throckmorton -\$2,254,893 -\$1,179,425 -\$61,4258 -\$371,482 -11 Titus -\$37,016,203 -\$1,782,175 -\$10,846,901 \$7,842,436 -21 Tom Green	Somervell	-\$7,861,468	-\$3,653,888					
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Swisher -\$7,916,944 -\$3,656,685 -\$2,145,848 -\$1,277,975 -40 Tarrant -\$2,776,475,219 -\$1,371,686,511 -\$795,750,804 -\$392,295,238 -13,497 Taylor -\$234,833,289 -\$116,909,175 -\$66,380,617 -\$34,767,365 -1,139 Terrell -\$1,658,470 -\$9,071,823 -\$4,770,424 -\$3,362,334 -87 Terry -\$17,564,928 -\$9,071,823 -\$4,770,424 -\$3,462,334 -87 Throckmorton -\$2,254,833 -\$1,179,425 -\$614,258 -\$371,482 -91 Titius -\$37,016,203 -\$1,789,217 -\$10,845,901 -\$7,842,436 -21 Tom Green -\$196,297,463 -\$95,795,237 -\$52,961,585 -\$30,673,005 -964 Travis -\$1,066,013,741 -\$555,167,610 -\$332,925,950 -\$16,606,357 -\$7,569 Trinity -\$34,1215,131 -\$21,307,149 -\$12,839,646 -\$8,225,449 -244 Upshur -\$50,675,597 -\$40,488,421 -\$1,349,480 -\$716,669 -23	Sutton					-35		
Tarrant -\$2,776,475,219 -\$1,371,686,511 -\$795,750,804 -\$392,295,238 -13,497 Taylor -\$234,833,289 -\$116,909,175 -\$66,380,617 -\$34,767,365 -1,138 Terrell -\$1,658,470 -\$981,705 -\$583,352 -\$306,700 -10 Terry -\$17,564,928 -\$9,071,823 -\$4,770,424 -\$3,462,334 -87 Throckmorton -\$2,254,893 -\$1,179,425 -\$614,258 -\$371,482 -11 Titus -\$37,016,203 >\$17,882,175 -\$10,845,901 -\$7,842,436 -210 Tom Green -\$196,297,463 -\$95,795,237 -\$52,961,585 -\$30,673,005 -964 Tavis -\$1,066,013,741 -\$555,167,610 -\$332,925,950 -\$164,606,357 -5,759 Trinity -\$35,718,486 -\$19,514,857 -\$11,485,328 -\$7,560,696 -224 Upshur -\$41,215,131 -\$21,307,149 -\$12,839,646 -\$8,225,449 -244 Upshur -\$50,738,597 -\$40,488,421 -\$3,169,643 -\$14,295,563 -\$18	Swisher	<u> </u>						
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Terry -\$17,564,928 -\$9,071,823 -\$4,770,424 -\$3,462,334 -87 Throckmorton -\$2,254,893 -\$1,179,425 -\$614,258 -\$371,482 -11 Titus -\$37,016,203 -\$17,882,175 -\$10,845,901 -\$7,842,436 -210 Tom Green -\$196,297,463 -\$95,795,237 -\$52,961,585 -\$30,673,005 -964 Travis -\$1,066,013,741 -\$555,167,610 -\$332,925,950 -\$164,606,357 -5,759 Trinity -\$35,718,486 -\$19,514,857 -\$11,485,328 -\$7,560,696 -224 Uper -\$41,215,131 -\$21,307,149 -\$12,839,646 -\$8,225,449 -244 Upshur -\$80,745,957 -\$40,488,421 -\$23,169,643 -\$14,295,563 -418 Upton -\$51,389,61 -\$2,601,344 -\$1,374,480 -\$760,690 -23 Val Verde -\$38,505,612 -\$20,994,455 -\$11,942,400 -\$7,286,574 -228 Val Verde -\$50,693,108 -\$28,29,666 -\$17,560,427 -\$10,686,974 -33	Terrell			-\$583,352	-\$306,700			
Throckmorton -\$2,254,893 -\$1,179,425 -\$614,258 -\$371,482 -11 Titus -\$37,016,203 -\$17,882,175 -\$10,845,901 -\$7,842,436 -210 Tom Green -\$196,297,463 -\$95,795,237 -\$52,961,585 -\$30,673,005 -964 Travis -\$1,066,013,741 -\$555,167,610 -\$332,925,950 -\$164,606,357 -5,759 Trinity -\$35,718,486 -\$19,514,857 -\$11,485,328 -\$7,560,696 -224 Tyler -\$41,215,131 -\$21,307,149 -\$12,839,646 -\$8,225,449 -244 Upshur -\$80,745,957 -\$40,488,421 -\$23,169,643 -\$14,295,563 -418 Upton -\$5,138,961 -\$2,601,344 -\$1,374,480 -\$760,690 -23 Uvalde -\$33,505,612 -\$20,094,455 -\$11,942,400 -\$7,286,574 -228 Val Verde -\$50,693,108 -\$28,329,066 -\$17,560,427 -\$10,686,974 -335 Van Zandt -\$180,405,932 -\$88,066,586 -\$50,341,582 -\$26,995,020 -843 <t< th=""><td>Terry</td><td>-\$17,564,928</td><td></td><td>-\$4,770,424</td><td>-\$3,462,334</td><td>-87</td></t<>	Terry	-\$17,564,928		-\$4,770,424	-\$3,462,334	-87		
Tom Green -\$196,297,463 -\$95,795,237 -\$52,961,585 -\$30,673,005 -964 Travis -\$1,066,013,741 -\$555,167,610 -\$332,925,950 -\$164,606,357 -5,759 Trinity -\$35,718,486 -\$19,514,857 -\$11,485,328 -\$7,560,696 -224 Tyler -\$41,215,131 -\$21,307,149 -\$12,839,646 -\$8,225,449 -244 Upshur -\$80,745,957 -\$40,488,421 -\$23,169,643 -\$14,295,563 -418 Upton -\$5,138,961 -\$2,601,344 -\$1,374,480 -\$760,690 -23 Uvalde -\$38,505,612 -\$20,094,455 -\$11,942,400 -\$7,286,574 -228 Val Verde -\$50,693,108 -\$28,329,066 -\$17,560,427 -\$10,686,974 -335 Van Zandt -\$91,856,200 -\$51,835,733 -\$30,402,075 -\$19,986,030 -586 Victoria -\$180,405,932 -\$88,066,586 -\$50,341,582 -\$26,995,020 -843 Waller -\$55,669,957 -\$24,583,209 -\$13,492,372 -\$9,021,472 -250	Throckmorton		-\$1,179,425	-\$614,258	-\$371,482	-11		
Travis -\$1,066,013,741 -\$555,167,610 -\$332,925,950 -\$164,606,357 -5,759 Trinity -\$35,718,486 -\$19,514,857 -\$11,485,328 -\$7,560,696 -224 Tyler -\$41,215,131 -\$21,307,149 -\$12,839,646 -\$8,225,449 -244 Upshur -\$80,745,957 -\$40,488,421 -\$23,169,643 -\$14,295,563 -418 Upton -\$5,138,961 -\$2,601,344 -\$1,374,480 -\$760,690 -23 Uvalde -\$38,505,612 -\$2,0094,455 -\$11,942,400 -\$7,286,574 -228 Val Verde -\$50,693,108 -\$28,329,066 -\$17,560,427 -\$10,686,974 -335 Van Zandt -\$91,856,200 -\$51,835,733 -\$30,402,075 -\$19,986,030 -586 Victoria -\$180,405,932 -\$88,066,586 -\$50,341,582 -\$26,995,020 -843 Walker -\$144,003,633 -\$74,010,074 -\$44,772,238 -\$28,660,522 -858 Ward -\$16,681,581 -\$8,563,381 -\$4,756,103 -\$3,261,609 -87	Titus	-\$37,016,203	-\$17,882,175	-\$10,845,901	-\$7,842,436	-210		
Trinity -\$35,718,486 -\$19,514,857 -\$11,485,328 -\$7,560,696 -224 Tyler -\$41,215,131 -\$21,307,149 -\$12,839,646 -\$8,225,449 -244 Upshur -\$80,745,957 -\$40,488,421 -\$23,169,643 -\$14,295,563 -418 Upton -\$5,138,961 -\$2,601,344 -\$1,374,480 -\$760,690 -23 Uvalde -\$38,505,612 -\$20,094,455 -\$11,942,400 -\$7,286,574 -228 Val Verde -\$50,693,108 -\$28,329,066 -\$17,560,427 -\$10,686,974 -335 Van Zandt -\$91,856,200 -\$51,835,733 -\$30,402,075 -\$19,986,030 -586 Victoria -\$180,405,932 -\$88,066,586 -\$50,341,582 -\$26,995,020 -843 Walker -\$144,003,633 -\$74,010,074 -\$44,772,238 -\$28,660,522 -858 Waller -\$55,669,957 -\$24,583,209 -\$13,492,372 -\$9,021,472 -250 Ward -\$16,681,581 -\$8,563,381 -\$4,756,103 -\$3,261,609 -37	Tom Green	-\$196,297,463	-\$95,795,237	-\$52,961,585	-\$30,673,005	-964		
Tyler -\$41,215,131 -\$21,307,149 -\$12,839,646 -\$8,225,449 -244 Upshur -\$80,745,957 -\$40,488,421 -\$23,169,643 -\$14,295,563 -418 Upton -\$5,138,961 -\$2,601,344 -\$1,374,480 -\$760,690 -23 Uvalde -\$38,505,612 -\$20,094,455 -\$11,942,400 -\$7,286,574 -228 Val Verde -\$50,693,108 -\$28,329,066 -\$17,560,427 -\$10,686,974 -335 Van Zandt -\$91,856,200 -\$51,835,733 -\$30,402,075 -\$19,986,030 -586 Victoria -\$180,405,932 -\$88,066,586 -\$50,341,582 -\$26,995,020 -843 Walker -\$144,003,633 -\$74,010,074 -\$44,772,238 -\$28,660,522 -858 Waller -\$55,669,957 -\$24,583,209 -\$13,492,372 -\$9,021,472 -250 Ward -\$16,681,581 -\$8,563,381 -\$4,756,103 -\$3,261,609 -87 Washington -\$63,537,907 -\$32,976,930 -\$19,542,254 -\$11,402,859 -355	Travis	-\$1,066,013,741	-\$555,167,610	-\$332,925,950	-\$164,606,357	-5,759		
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Upton -\$5,138,961 -\$2,601,344 -\$1,374,480 -\$760,690 -23 Uvalde -\$38,505,612 -\$20,094,455 -\$11,942,400 -\$7,286,574 -228 Val Verde -\$50,693,108 -\$28,329,066 -\$17,560,427 -\$10,686,974 -335 Van Zandt -\$91,856,200 -\$51,835,733 -\$30,402,075 -\$19,986,030 -586 Victoria -\$180,405,932 -\$88,066,586 -\$50,341,582 -\$26,995,020 -843 Walker -\$144,003,633 -\$74,010,074 -\$44,772,238 -\$28,660,522 -888 Waller -\$55,669,957 -\$24,583,209 -\$13,492,372 -\$9,021,472 -250 Ward -\$16,681,581 -\$8,563,381 -\$4,756,103 -\$3,261,609 -87 Washington -\$63,537,907 -\$32,976,930 -\$19,542,254 -\$11,402,859 -355 Webb -\$202,173,883 -\$105,964,803 -\$58,725,103 -\$36,294,076 -1,061 Wharton -\$78,140,974 -\$40,764,490 -\$23,098,717 -\$14,369,831 -417	Tyler	-\$41,215,131	-\$21,307,149	-\$12,839,646	-\$8,225,449	-244		
Uvalde -\$38,505,612 -\$20,094,455 -\$11,942,400 -\$7,286,574 -228 Val Verde -\$50,693,108 -\$28,329,066 -\$17,560,427 -\$10,686,974 -335 Van Zandt -\$91,856,200 -\$51,835,733 -\$30,402,075 -\$19,986,030 -586 Victoria -\$180,405,932 -\$88,066,586 -\$50,341,582 -\$26,995,020 -843 Walker -\$144,003,633 -\$74,010,074 -\$44,772,238 -\$28,660,522 -858 Waller -\$55,669,957 -\$24,583,209 -\$13,492,372 -\$9,021,472 -250 Ward -\$16,681,581 -\$8,563,381 -\$4,756,103 -\$3,261,609 -87 Washington -\$63,537,907 -\$32,976,930 -\$19,542,254 -\$11,402,859 -355 Webb -\$202,173,883 -\$105,964,803 -\$58,725,103 -\$36,294,076 -1,061 Wharton -\$78,140,974 -\$40,764,490 -\$23,098,717 -\$14,369,831 -417 Wheeler -\$8,282,558 -\$4,598,931 -\$2,584,403 -\$1,800,317 -49 <td>Upshur</td> <td>-\$80,745,957</td> <td>-\$40,488,421</td> <td>-\$23,169,643</td> <td>-\$14,295,563</td> <td>-418</td>	Upshur	-\$80,745,957	-\$40,488,421	-\$23,169,643	-\$14,295,563	-418		
Val Verde -\$50,693,108 -\$28,329,066 -\$17,560,427 -\$10,686,974 -335 Van Zandt -\$91,856,200 -\$51,835,733 -\$30,402,075 -\$19,986,030 -586 Victoria -\$180,405,932 -\$88,066,586 -\$50,341,582 -\$26,995,020 -843 Walker -\$144,003,633 -\$74,010,074 -\$44,772,238 -\$28,660,522 -858 Waller -\$55,669,957 -\$24,583,209 -\$13,492,372 -\$9,021,472 -250 Ward -\$16,681,581 -\$8,563,381 -\$4,756,103 -\$3,261,609 -87 Washington -\$63,537,907 -\$32,976,930 -\$19,542,254 -\$11,402,859 -355 Webb -\$202,173,883 -\$105,964,803 -\$58,725,103 -\$36,294,076 -1,061 Wharton -\$78,140,974 -\$40,764,490 -\$23,098,717 -\$14,369,831 -417 Wheeler -\$8,282,558 -\$4,598,931 -\$2,584,403 -\$1,800,317 -49	Upton	-\$5,138,961	-\$2,601,344	-\$1,374,480	-\$760,690	-23		
Van Zandt -\$91,856,200 -\$51,835,733 -\$30,402,075 -\$19,986,030 -586 Victoria -\$180,405,932 -\$88,066,586 -\$50,341,582 -\$26,995,020 -843 Walker -\$144,003,633 -\$74,010,074 -\$44,772,238 -\$28,660,522 -858 Waller -\$55,669,957 -\$24,583,209 -\$13,492,372 -\$9,021,472 -250 Ward -\$16,681,581 -\$8,563,381 -\$4,756,103 -\$3,261,609 -87 Washington -\$63,537,907 -\$32,976,930 -\$19,542,254 -\$11,402,859 -355 Webb -\$202,173,883 -\$105,964,803 -\$58,725,103 -\$36,294,076 -1,061 Wharton -\$78,140,974 -\$40,764,490 -\$23,098,717 -\$14,369,831 -417 Wheeler -\$8,282,558 -\$4,598,931 -\$2,584,403 -\$1,800,317 -49	Uvalde	-\$38,505,612	-\$20,094,455	-\$11,942,400	-\$7,286,574	-228		
Victoria -\$180,405,932 -\$88,066,586 -\$50,341,582 -\$26,995,020 -843 Walker -\$144,003,633 -\$74,010,074 -\$44,772,238 -\$28,660,522 -858 Waller -\$55,669,957 -\$24,583,209 -\$13,492,372 -\$9,021,472 -250 Ward -\$16,681,581 -\$8,563,381 -\$4,756,103 -\$3,261,609 -87 Washington -\$63,537,907 -\$32,976,930 -\$19,542,254 -\$11,402,859 -355 Webb -\$202,173,883 -\$105,964,803 -\$58,725,103 -\$36,294,076 -1,061 Wharton -\$78,140,974 -\$40,764,490 -\$23,098,717 -\$14,369,831 -417 Wheeler -\$8,282,558 -\$4,598,931 -\$2,584,403 -\$1,800,317 -49	Val Verde	-\$50,693,108	-\$28,329,066	-\$17,560,427	-\$10,686,974	-335		
Walker -\$144,003,633 -\$74,010,074 -\$44,772,238 -\$28,660,522 -858 Waller -\$55,669,957 -\$24,583,209 -\$13,492,372 -\$9,021,472 -250 Ward -\$16,681,581 -\$8,563,381 -\$4,756,103 -\$3,261,609 -87 Washington -\$63,537,907 -\$32,976,930 -\$19,542,254 -\$11,402,859 -355 Webb -\$202,173,883 -\$105,964,803 -\$58,725,103 -\$36,294,076 -1,061 Wharton -\$78,140,974 -\$40,764,490 -\$23,098,717 -\$14,369,831 -417 Wheeler -\$8,282,558 -\$4,598,931 -\$2,584,403 -\$1,800,317 -49	Van Zandt	-\$91,856,200	-\$51,835,733	-\$30,402,075	-\$19,986,030	-586		
Waller -\$55,669,957 -\$24,583,209 -\$13,492,372 -\$9,021,472 -250 Ward -\$16,681,581 -\$8,563,381 -\$4,756,103 -\$3,261,609 -87 Washington -\$63,537,907 -\$32,976,930 -\$19,542,254 -\$11,402,859 -355 Webb -\$202,173,883 -\$105,964,803 -\$58,725,103 -\$36,294,076 -1,061 Wharton -\$78,140,974 -\$40,764,490 -\$23,098,717 -\$14,369,831 -417 Wheeler -\$8,282,558 -\$4,598,931 -\$2,584,403 -\$1,800,317 -49	Victoria	-\$180,405,932	-\$88,066,586	-\$50,341,582	-\$26,995,020	-843		
Ward -\$16,681,581 -\$8,563,381 -\$4,756,103 -\$3,261,609 -87 Washington -\$63,537,907 -\$32,976,930 -\$19,542,254 -\$11,402,859 -355 Webb -\$202,173,883 -\$105,964,803 -\$58,725,103 -\$36,294,076 -1,061 Wharton -\$78,140,974 -\$40,764,490 -\$23,098,717 -\$14,369,831 -417 Wheeler -\$8,282,558 -\$4,598,931 -\$2,584,403 -\$1,800,317 -49	Walker	-\$144,003,633	-\$74,010,074	-\$44,772,238	-\$28,660,522	-858		
Washington -\$63,537,907 -\$32,976,930 -\$19,542,254 -\$11,402,859 -355 Webb -\$202,173,883 -\$105,964,803 -\$58,725,103 -\$36,294,076 -1,061 Wharton -\$78,140,974 -\$40,764,490 -\$23,098,717 -\$14,369,831 -417 Wheeler -\$8,282,558 -\$4,598,931 -\$2,584,403 -\$1,800,317 -49	Waller	-\$55,669,957	-\$24,583,209	-\$13,492,372	-\$9,021,472	-250		
Webb -\$202,173,883 -\$105,964,803 -\$58,725,103 -\$36,294,076 -1,061 Wharton -\$78,140,974 -\$40,764,490 -\$23,098,717 -\$14,369,831 -417 Wheeler -\$8,282,558 -\$4,598,931 -\$2,584,403 -\$1,800,317 -49	Ward	-\$16,681,581	-\$8,563,381	-\$4,756,103	-\$3,261,609	-87		
Wharton -\$78,140,974 -\$40,764,490 -\$23,098,717 -\$14,369,831 -417 Wheeler -\$8,282,558 -\$4,598,931 -\$2,584,403 -\$1,800,317 -49	Washington	-\$63,537,907	-\$32,976,930	-\$19,542,254	-\$11,402,859	-355		
Wheeler -\$8,282,558 -\$4,598,931 -\$2,584,403 -\$1,800,317 -49	Webb	-\$202,173,883	-\$105,964,803	-\$58,725,103	-\$36,294,076	-1,061		
	Wharton	-\$78,140,974	-\$40,764,490	-\$23,098,717	-\$14,369,831	-417		
Wichita -\$237,000,542 -\$127,845,717 -\$72,665,691 -\$41,151,791 -1,274	Wheeler	-\$8,282,558	-\$4,598,931	-\$2,584,403	-\$1,800,317	-49		
	Wichita	-\$237,000,542	-\$127,845,717	-\$72,665,691	-\$41,151,791	-1,274		
Wilbarger -\$30,439,186 -\$14,592,332 -\$8,810,127 -\$5,621,071 -163	Wilbarger	-\$30,439,186	-\$14,592,332	-\$8,810,127	-\$5,621,071	-163		
Willacy -\$22,414,005 -\$12,664,535 -\$7,341,868 -\$5,096,977 -142	Willacy	-\$22,414,005	-\$12,664,535	-\$7,341,868	-\$5,096,977	-142		
Williamson -\$285,437,533 -\$152,430,100 -\$93,811,132 -\$52,820,702 -1,713	Williamson	-\$285,437,533	-\$152,430,100	-\$93,811,132	-\$52,820,702	-1,713		



County	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
Wilson	-\$61,455,084	-\$30,590,683	-\$17,681,122	-\$11,450,330	-343
Winkler	-\$9,378,491	-\$4,850,376	-\$2,683,138	-\$1,700,709	-47
Wise	-\$83,750,609	-\$43,554,868	-\$24,430,793	-\$14,711,939	-432
Wood	-\$118,553,866	-\$58,066,489	-\$33,297,791	-\$19,642,944	-605
Yoakum	-\$8,835,184	-\$4,489,007	-\$2,434,145	-\$1,616,477	-44
Young	-\$44,354,157	-\$22,830,519	-\$12,691,049	-\$7,791,385	-222
Zapata	-\$13,498,199	-\$6,976,534	-\$3,891,284	-\$2,775,838	-74
Zavala	-\$7,030,960	-\$4,169,966	-\$2,667,383	-\$2,174,234	-58
TEXAS	-\$37,554,859,084	-\$18,381,895,905	-\$10,646,839,017	-\$5,460,386,017	-182,654

NOTE: Allocations reflect best available evidence regarding incidence and industrial structure and composition of each area. SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



Results by Texas House District							
	Total				Employment		
Heuro District	Expenditures	Gross Product	Personal Income	Retail Sales	(Permanent		
House District	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	Jobs)		
2	-\$295,257,347	-\$150,556,473 \$148,734,646	-\$90,421,347	-\$57,134,616	-1,716		
3	-\$282,364,638	-\$148,734,646	-\$88,992,738	-\$59,819,299	-1,716		
4	-\$259,874,829 -\$320,703,653	-\$122,241,864 -\$155,569,746	-\$68,884,391 -\$91,391,033	-\$35,284,344 -\$55,436,945	-1,161 -1,705		
5	-\$329,704,472	-\$159,714,083	-\$91,328,447	-\$53,816,700	-1,638		
6	-\$345,537,383	-\$170,009,675	-\$93,888,078	-\$51,066,413	-1,617		
7	-\$336,557,929	-\$175,488,323	-\$101,525,848	-\$55,724,938	-1,759		
8	-\$284,120,360	-\$142,814,148	-\$83,012,922	-\$51,263,805	-1,553		
9	-\$328,372,623	-\$161,646,829	-\$94,950,601	-\$55,424,438	-1,684		
10	-\$226,987,053	-\$105,836,645	-\$62,511,233	-\$38,060,438	-1,134		
11	-\$264,010,981	-\$133,900,784	-\$80,428,456	-\$49,424,884	-1,500		
12	-\$267,093,478	-\$132,178,955	-\$78,212,806	-\$46,985,980	-1,453		
13	-\$347,330,067	-\$177,902,702	-\$103,814,817	-\$60,179,306	-1,868		
14	-\$164,365,215	-\$83,064,204	-\$47,909,213	-\$26,173,372	-862		
15	-\$281,741,309	-\$134,739,573	-\$76,424,327	-\$36,234,865	-1,256		
16	-\$281,741,309	-\$134,739,573	-\$76,424,327	-\$36,234,865	-1,256		
17	-\$263,143,073	-\$129,788,887	-\$75,172,603	-\$45,337,710	-1,374		
18	-\$335,009,542	-\$171,056,817	-\$101,412,608	-\$61,227,186	-1,867		
19	-\$357,068,687	-\$182,177,445	-\$105,779,500	-\$68,228,482	-1,951		
20	-\$192,423,238	-\$96,696,105	-\$57,580,942	-\$34,058,060	-1,055		
21	-\$329,294,237	-\$162,203,730	-\$99,852,854	-\$58,582,548	-1,782		
22	-\$306,231,454	-\$151,375,590	-\$94,173,469	-\$53,074,013	-1,670		
23	-\$305,982,082	-\$140,841,646	-\$81,291,304	-\$45,104,503	-1,423		
24	-\$320,693,837	-\$149,656,917	-\$87,454,716	-\$50,092,764	-1,560		
25	-\$250,527,052	-\$118,176,061	-\$69,357,431	-\$42,175,529	-1,228		
26	-\$194,956,102	-\$91,516,446	-\$51,374,929	-\$25,629,848	-836		
27	-\$194,956,102	-\$91,516,446	-\$51,374,929	-\$25,629,848	-836		
28	-\$194,956,102	-\$91,516,446	-\$51,374,929	-\$25,629,848	-836		
29	-\$228,149,874	-\$108,778,318	-\$63,995,728	-\$37,820,293	-1,127		
30	-\$358,147,265	-\$172,069,254	-\$97,621,463	-\$56,427,132	-1,687		
31	-\$214,518,632	-\$109,691,399	-\$62,319,290	-\$39,816,393	-1,137		
32	-\$315,883,259	-\$146,668,295	-\$84,208,753	-\$43,457,124	-1,421		
33	-\$169,835,175	-\$86,917,731	-\$51,699,082	-\$29,128,916	-932		
34	-\$328,776,453	-\$152,654,756	-\$87,645,845	-\$45,230,885	-1,479		
35	-\$157,693,716	-\$82,185,813	-\$49,174,134	-\$29,013,609	-930		
36	-\$139,665,578	-\$74,663,812	-\$44,809,829	-\$26,187,112	-842		
37	-\$186,994,473	-\$94,738,438	-\$56,486,976	-\$33,693,116	-1,076		
38	-\$182,542,224	-\$92,482,761	-\$55,142,048	-\$32,890,899	-1,050		
39	-\$139,665,578	-\$74,663,812	-\$44,809,829	-\$26,187,112	-842		
40	-\$139,665,578	-\$74,663,812	-\$44,809,829	-\$26,187,112	-842		
41	-\$139,665,578	-\$74,663,812	-\$44,809,829	-\$26,187,112	-842		
42	-\$129,391,285	-\$67,817,474	-\$37,584,066	-\$23,228,208	-679		
43	-\$254,738,689	-\$128,103,120	-\$72,652,488	-\$45,706,012	-1,321		



House District	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
44	-\$222,275,455	-\$110,170,869	-\$64,748,590	-\$42,192,730	-1,229
45	-\$176,294,028	-\$88,628,684	-\$52,426,113	-\$31,343,114	-974
46	-\$173,760,240	-\$90,492,320	-\$54,266,930	-\$26,830,836	-939
47	-\$181,222,336	-\$94,378,494	-\$56,597,411	-\$27,983,081	-979
48	-\$181,222,336	-\$94,378,494	-\$56,597,411	-\$27,983,081	-979
49	-\$174,826,253	-\$91,047,488	-\$54,599,856	-\$26,995,443	-945
50	-\$173,760,240	-\$90,492,320	-\$54,266,930	-\$26,830,836	-939
51	-\$181,222,336	-\$94,378,494	-\$56,597,411	-\$27,983,081	-979
52	-\$111,320,638	-\$59,447,739	-\$36,586,341	-\$20,600,074	-668
53	-\$360,609,174	-\$175,516,948	-\$99,777,688	-\$63,905,641	-1,887
54	-\$205,935,902	-\$108,702,389	-\$66,404,694	-\$40,371,781	-1,264
55	-\$178,045,637	-\$95,065,843	-\$58,508,995	-\$34,714,624	-1,103
56	-\$305,325,314	-\$145,868,520	-\$85,814,434	-\$48,382,848	-1,577
57	-\$318,180,155	-\$161,018,124	-\$95,800,031	-\$58,381,249	-1,767
58	-\$260,724,476	-\$128,617,303	-\$78,748,965	-\$46,338,859	-1,446
59	-\$210,833,695	-\$109,045,051	-\$65,714,060	-\$42,682,995	-1,272
60	-\$372,964,420	-\$184,386,270	-\$106,537,522	-\$68,385,968	-1,987
61	-\$276,291,231	-\$133,588,602	-\$76,356,387	-\$45,176,756	-1,367
62	-\$291,751,075	-\$150,439,093	-\$91,863,213	-\$57,797,193	-1,745
63	-\$171,138,113	-\$82,049,948	-\$48,489,082	-\$25,190,726	-841
64	-\$171,138,113	-\$82,049,948	-\$48,489,082	-\$25,190,726	-841
65	-\$171,138,113	-\$82,049,948	-\$48,489,082	-\$25,190,726	-841
66	-\$169,293,621	-\$87,050,536	-\$51,557,554	-\$27,703,384	-905
67	-\$169,293,621	-\$87,050,536	-\$51,557,554	-\$27,703,384	-905
68	-\$330,870,988	-\$166,782,774	-\$95,276,079	-\$57,236,301	-1,694
69	-\$291,588,785	-\$156,236,278	-\$88,974,326	-\$50,239,807	-1,560
70	-\$169,293,621	-\$87,050,536	-\$51,557,554	-\$27,703,384	-905
71	-\$309,352,615	-\$155,353,856	-\$87,990,870	-\$47,046,026	-1,520
72	-\$315,035,878	-\$152,427,873	-\$84,620,273	-\$49,025,017	-1,508
73	-\$308,034,131	-\$148,065,643	-\$86,308,278	-\$53,573,664	-1,638
74	-\$182,433,651	-\$95,730,960	-\$55,862,203	-\$36,631,625	-1,067
75	-\$223,142,266	-\$108,020,680	-\$63,163,885	-\$33,296,171	-1,126
76	-\$223,142,266	-\$108,020,680	-\$63,163,885	-\$33,296,171	-1,126
77	-\$223,142,266	-\$108,020,680	-\$63,163,885	-\$33,296,171	-1,126
78	-\$223,142,266	-\$108,020,680	-\$63,163,885	-\$33,296,171	-1,126
79	-\$223,142,266	-\$108,020,680	-\$63,163,885	-\$33,296,171	-1,126
80	-\$165,850,903	-\$86,268,038	-\$48,912,762	-\$31,227,161	-911
81	-\$268,918,813	-\$134,029,409	-\$76,239,741	-\$42,147,006	-1,286
82	-\$226,895,043	-\$115,051,153	-\$63,646,109	-\$34,281,831	-1,063
83	-\$261,443,299	-\$135,735,164	-\$78,622,015	-\$44,765,901	-1,407
84	-\$259,928,799	-\$135,294,677	-\$80,775,364	-\$43,719,441	-1,454
85	-\$234,411,518	-\$115,293,448	-\$64,678,298	-\$36,169,809	-1,106
86	-\$221,457,842	-\$114,246,679	-\$66,396,224	-\$37,351,948	-1,195



Results by Texas House District							
House District	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)		
87	-\$295,540,637	-\$149,000,595	-\$83,936,697	-\$46,654,835	-1,450		
88	-\$209,886,196	-\$103,875,200	-\$59,060,915	-\$37,786,255	-1,069		
89	-\$169,293,621	-\$87,050,536	-\$51,557,554	-\$27,703,384	-905		
90	-\$252,659,245	-\$124,823,473	-\$72,413,323	-\$35,698,867	-1,228		
91	-\$252,659,245	-\$124,823,473	-\$72,413,323	-\$35,698,867	-1,228		
92	-\$252,659,245	-\$124,823,473	-\$72,413,323	-\$35,698,867	-1,228		
93	-\$252,659,245	-\$124,823,473	-\$72,413,323	-\$35,698,867	-1,228		
94	-\$252,659,245	-\$124,823,473	-\$72,413,323	-\$35,698,867	-1,228		
95	-\$252,659,245	-\$124,823,473	-\$72,413,323	-\$35,698,867	-1,228		
96	-\$252,659,245	-\$124,823,473	-\$72,413,323	-\$35,698,867	-1,228		
97	-\$252,659,245	-\$124,823,473	-\$72,413,323	-\$35,698,867	-1,228		
98	-\$252,659,245	-\$124,823,473	-\$72,413,323	-\$35,698,867	-1,228		
99	-\$252,659,245	-\$124,823,473	-\$72,413,323	-\$35,698,867	-1,228		
100	-\$266,369,678	-\$129,864,213	-\$73,307,660	-\$29,399,226	-1,155		
101	-\$249,882,770	-\$123,451,786	-\$71,617,572	-\$35,306,571	-1,215		
102	-\$266,369,678	-\$129,864,213	-\$73,307,660	-\$29,399,226	-1,155		
103	-\$266,369,678	-\$129,864,213	-\$73,307,660	-\$29,399,226	-1,155		
104	-\$266,369,678	-\$129,864,213	-\$73,307,660	-\$29,399,226	-1,155		
105	-\$266,369,678	-\$129,864,213	-\$73,307,660	-\$29,399,226	-1,155		
106	-\$171,138,113	-\$82,049,948	-\$48,489,082	-\$25,190,726	-841		
107	-\$266,369,678	-\$129,864,213	-\$73,307,660	-\$29,399,226	-1,155		
108	-\$266,369,678	-\$129,864,213	-\$73,307,660	-\$29,399,226	-1,155		
109	-\$266,369,678	-\$129,864,213	-\$73,307,660	-\$29,399,226	-1,155		
110	-\$266,369,678	-\$129,864,213	-\$73,307,660	-\$29,399,226	-1,155		
111	-\$271,997,207	-\$132,607,823	-\$74,856,413	-\$30,020,337	-1,179		
112	-\$266,369,678	-\$129,864,213	-\$73,307,660	-\$29,399,226	-1,155		
113	-\$271,997,207	-\$132,607,823	-\$74,856,413	-\$30,020,337	-1,179		
114	-\$271,997,207	-\$132,607,823	-\$74,856,413	-\$30,020,337	-1,179		
115	-\$271,997,207	-\$132,607,823	-\$74,856,413	-\$30,020,337	-1,179		
116	-\$254,333,714	-\$127,617,280	-\$76,009,872	-\$39,236,463	-1,341		
117	-\$254,333,714	-\$127,617,280	-\$76,009,872	-\$39,236,463	-1,341		
118	-\$254,333,714	-\$127,617,280	-\$76,009,872	-\$39,236,463	-1,341		
119	-\$254,333,714	-\$127,617,280	-\$76,009,872	-\$39,236,463	-1,341		
120	-\$254,333,714	-\$127,617,280	-\$76,009,872	-\$39,236,463	-1,341		
121	-\$254,333,714	-\$127,617,280	-\$76,009,872	-\$39,236,463	-1,341		
122	-\$254,333,714	-\$127,617,280	-\$76,009,872	-\$39,236,463	-1,341		
123	-\$254,333,714	-\$127,617,280	-\$76,009,872	-\$39,236,463	-1,341		
124	-\$254,333,714	-\$127,617,280	-\$76,009,872	-\$39,236,463	-1,341		
125	-\$254,333,714	-\$127,617,280	-\$76,009,872	-\$39,236,463	-1,341		
126	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080		
127	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080		
128	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080		
129	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080		



				results by rexus riouse District						
House District	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)					
130	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080					
131	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080					
132	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080					
133	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080					
134	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080					
135	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080					
136	-\$111,320,638	-\$59,447,739	-\$36,586,341	-\$20,600,074	-668					
137	-\$275,112,077	-\$125,194,809	-\$70,449,964	-\$25,668,532	-1,054					
138	-\$275,112,077	-\$125,194,809	-\$70,449,964	-\$25,668,532	-1,054					
139	-\$275,112,077	-\$125,194,809	-\$70,449,964	-\$25,668,532	-1,054					
140	-\$275,112,077	-\$125,194,809	-\$70,449,964	-\$25,668,532	-1,054					
141	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080					
142	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080					
143	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080					
144	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080					
145	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080					
146	-\$281,822,128	-\$128,248,341	-\$72,168,256	-\$26,294,594	-1,080					
147	-\$275,112,077	-\$125,194,809	-\$70,449,964	-\$25,668,532	-1,054					
148	-\$275,112,077	-\$125,194,809	-\$70,449,964	-\$25,668,532	-1,054					
149	-\$275,112,077	-\$125,194,809	-\$70,449,964	-\$25,668,532	-1,054					
150	-\$275,112,077	-\$125,194,809	-\$70,449,964	-\$25,668,532	-1,054					
TOTAL	-\$37,554,859,084	-\$18,381,895,905	-\$10,646,839,017	-\$5,460,386,017	-182,654					

NOTE: In cases in which a county was part of more than one district, allocations are based on the percentage of the population residing in a district. This convention is adopted because of a lack of subcounty data sufficient for allocation purposes. In some instances, this approach will result in districts which reflect the same proportion of a large urban county reporting identical results. Allocations reflect district maps as currently defined.



Sanata District	Total Expenditures	Gross Product	Personal Income	Retail Sales	Employment (Permanent
Senate District	(2016 Dollars) -\$1,648,914,850	(2016 Dollars) -\$822,384,322	(2016 Dollars) -\$473,428,545	(2016 Dollars) -\$270,815,041	Jobs) -8,392
2	· · · · · ·	-\$619,091,193	-\$360,128,222		-6,273
3	-\$1,242,428,696 -\$1,606,676,838	-\$810,200,708	-\$478,974,434	-\$188,888,420 -\$289,374,784	-8,753
					·
4	-\$1,399,734,436	-\$669,795,340	-\$391,920,356	-\$193,260,454	-6,550
5	-\$860,178,430	-\$444,722,205	-\$264,893,622	-\$159,223,206	-4,901
6	-\$1,342,010,133	-\$610,706,386	-\$343,658,361	-\$125,212,353	-5,142
7	-\$1,342,010,133	-\$610,706,386	-\$343,658,361	-\$125,212,353	-5,142
8	-\$841,673,269	-\$427,785,288	-\$250,824,754	-\$127,739,481	-4,310
9	-\$1,281,653,280	-\$630,990,022	-\$363,480,476	-\$170,647,006	-6,053
10	-\$1,277,178,601	-\$630,975,795	-\$366,045,370	-\$180,455,810	-6,208
11	-\$1,317,757,674	-\$612,349,712	-\$353,739,749	-\$178,981,178	-5,947
12	-\$984,649,817	-\$478,158,804	-\$280,346,372	-\$142,477,495	-4,818
13	-\$1,276,891,184	-\$583,027,357	-\$327,996,505	-\$124,333,702	-4,955
14	-\$901,484,643	-\$466,188,606	-\$279,067,826	-\$142,141,714	-4,879
15	-\$1,274,909,626	-\$580,171,067	-\$326,475,443	-\$118,951,735	-4,885
16	-\$1,294,331,536	-\$631,030,332	-\$356,213,278	-\$142,855,396	-5,612
17	-\$1,227,963,958	-\$564,842,127	-\$319,245,234	-\$132,477,025	-4,950
18	-\$1,380,161,455	-\$669,537,634	-\$381,300,048	-\$213,818,002	-6,588
19	-\$1,136,141,736	-\$572,240,571	-\$336,891,453	-\$187,321,141	-6,066
20	-\$1,074,592,567	-\$530,771,603	-\$309,534,490	-\$170,380,907	-5,483
21	-\$917,695,632	-\$464,882,847	-\$267,134,390	-\$161,484,030	-4,850
22	-\$1,346,228,834	-\$648,248,089	-\$385,261,972	-\$224,014,307	-7,065
23	-\$1,294,331,536	-\$631,030,332	-\$356,213,278	-\$142,855,396	-5,612
24	-\$1,236,895,150	-\$629,387,501	-\$372,713,547	-\$226,094,220	-6,974
25	-\$1,127,690,255	-\$561,266,294	-\$332,299,687	-\$184,795,081	-6,010
26	-\$1,182,651,772	-\$593,420,353	-\$353,445,906	-\$182,449,555	-6,237
27	-\$787,540,369	-\$407,869,969	-\$242,570,642	-\$144,414,779	-4,586
28	-\$1,308,996,151	-\$666,198,752	-\$382,692,548	-\$223,741,839	-6,898
29	-\$1,136,057,633	-\$550,308,779	-\$321,728,027	-\$170,821,092	-5,747
30	-\$1,304,336,604	-\$660,723,670	-\$383,973,258	-\$224,752,387	-6,895
31	-\$1,201,092,285	-\$602,883,862	-\$340,982,866	-\$190,396,129	-5,871
TOTAL	-\$37,554,859,084	-\$18,381,895,905	-\$10,646,839,017	-\$5,460,386,017	-182,654

NOTE: In cases in which a county was part of more than one district, allocations are based on the percentage of the population residing in a district. This convention is adopted because of a lack of subcounty data sufficient for allocation purposes. In some instances, this approach will result in districts which reflect the same proportion of a large urban county reporting identical results. Allocations reflect district maps as currently defined.



The Total Annual Impact of Morbidity Losses Associated with the Incidence of Cancer on Business Activity in Texas: Results by US Congressional District in Texas

US Congressional District in Texas	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
1	-\$1,390,204,370	-\$696,241,148	-\$401,332,356	-\$225,852,671	-7,076
2	-\$1,140,708,613	-\$519,100,428	-\$292,109,607	-\$106,430,500	-4,371
3	-\$684,869,647	-\$352,158,987	-\$208,573,742	-\$112,072,779	-3,661
4	-\$1,130,512,155	-\$573,283,261	-\$344,331,808	-\$219,386,361	-6,503
5	-\$1,213,516,916	-\$604,020,896	-\$348,990,892	-\$182,865,882	-6,078
6	-\$1,057,016,099	-\$516,459,333	-\$301,781,770	-\$157,048,959	-5,218
7	-\$1,140,708,613	-\$519,100,428	-\$292,109,607	-\$106,430,500	-4,371
8	-\$1,253,369,255	-\$607,218,597	-\$349,397,620	-\$177,268,894	-5,932
9	-\$1,118,594,686	-\$511,608,851	-\$287,780,456	-\$111,205,492	-4,368
10	-\$1,033,950,683	-\$501,565,131	-\$289,990,008	-\$139,998,487	-4,863
11	-\$1,270,754,418	-\$631,183,635	-\$359,222,068	-\$213,554,553	-6,433
12	-\$1,085,910,677	-\$532,242,951	-\$308,136,353	-\$157,813,997	-5,288
13	-\$1,198,944,876	-\$613,577,731	-\$349,549,845	-\$200,643,356	-6,152
14	-\$1,250,785,353	-\$598,949,882	-\$359,311,443	-\$205,472,267	-6,382
15	-\$684,119,940	-\$354,711,033	-\$209,862,823	-\$126,364,784	-3,913
16	-\$970,668,856	-\$469,889,959	-\$274,762,899	-\$144,838,344	-4,900
17	-\$1,019,648,492	-\$507,213,942	-\$297,422,549	-\$170,395,734	-5,417
18	-\$1,140,708,613	-\$519,100,428	-\$292,109,607	-\$106,430,500	-4,371
19	-\$1,095,038,085	-\$559,546,835	-\$323,174,066	-\$182,742,230	-5,747
20	-\$1,042,768,229	-\$523,230,849	-\$311,640,476	-\$160,869,500	-5,499
21	-\$1,058,614,715	-\$526,583,158	-\$310,213,067	-\$173,370,777	-5,619
22	-\$879,543,143	-\$412,479,748	-\$234,306,471	-\$117,635,252	-3,846
23	-\$941,995,977	-\$475,012,026	-\$278,010,066	-\$159,578,603	-5,062
24	-\$1,034,068,119	-\$505,729,429	-\$289,960,506	-\$130,435,406	-4,755
25	-\$917,155,331	-\$460,353,013	-\$275,984,912	-\$160,602,409	-5,082
26	-\$794,048,238	-\$383,969,821	-\$225,676,318	-\$115,430,901	-3,890
27	-\$1,339,953,487	-\$637,896,571	-\$365,323,522	-\$205,116,357	-6,328
28	-\$723,820,268	-\$372,364,755	-\$215,777,520	-\$126,196,211	-3,924
29	-\$1,140,708,613	-\$519,100,428	-\$292,109,607	-\$106,430,500	-4,371
30	-\$1,102,995,570	-\$537,747,587	-\$303,555,663	-\$121,737,642	-4,783
31	-\$590,169,489	-\$315,138,948	-\$193,951,527	-\$112,236,116	-3,601
32	-\$1,074,132,845	-\$524,907,174	-\$296,966,769	-\$121,011,638	-4,704
33	-\$1,090,283,133	-\$534,981,451	-\$306,067,991	-\$136,647,137	-5,004
34	-\$799,702,240	-\$411,276,092	-\$241,982,200	-\$146,948,183	-4,553
35	-\$899,711,045	-\$454,960,904	-\$270,631,590	-\$143,406,536	-4,809
36	-\$1,245,158,294	-\$598,990,492	-\$344,731,293	-\$175,916,557	-5,780
TOTAL	-\$37,554,859,084	-\$18,381,895,905	-\$10,646,839,017	-\$5,460,386,017	-182,654

NOTE: In cases in which a county was part of more than one district, allocations are based on the percentage of the population residing in a district. This convention is adopted because of a lack of subcounty data sufficient for allocation purposes. In some instances, this approach will result in districts which reflect the same proportion of a large urban county reporting identical results. Allocations reflect district maps as currently defined.





The Total Annual Impact of Mortality Losses Associated with the Incidence of Cancer on Business Activity in Texas: Results by Detailed Industrial Category

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)
Agriculture	(\$1,075,013,486)	(\$320,045,847)	(\$193,537,066)	(3,583)
Mining	(\$7,713,364,959)	(\$3,706,908,190)	(\$1,267,685,144)	(5,190)
Construction	(\$3,086,484,896)	(\$1,504,455,211)	(\$1,134,423,872)	(17,781)
Nondurable Manufacturing	(\$10,222,654,513)	(\$2,825,896,923)	(\$1,490,456,882)	(15,841)
Durable Manufacturing	(\$4,918,059,475)	(\$2,045,718,175)	(\$1,377,158,170)	(13,648)
Transportation and Utilities	(\$7,778,155,728)	(\$2,703,323,997)	(\$1,510,077,793)	(16,019)
Information	(\$2,170,903,490)	(\$1,446,142,538)	(\$637,592,016)	(5,870)
Wholesale Trade	(\$2,970,703,514)	(\$2,317,385,240)	(\$1,301,044,495)	(15,320)
Retail Trade (including Restaurants)	(\$12,183,855,991)	(\$9,430,892,952)	(\$5,436,949,223)	(172,994)
FIRE	(\$17,389,036,107)	(\$5,168,345,750)	(\$1,841,263,034)	(17,745)
Business Services	(\$5,320,447,942)	(\$3,859,768,811)	(\$3,124,986,882)	(37,056)
Health Services	(\$3,446,050,944)	(\$2,770,588,337)	(\$2,215,405,367)	(39,413)
Other Services	(\$5,522,090,906)	(\$2,916,377,795)	(\$2,225,900,448)	(52,696)
TOTAL	(\$83,796,821,951)	(\$41,015,849,768)	(\$23,756,480,391)	(413,157)
SOURCE: US Multi-Regio	nal Impact Assessment Syst	tem, The Perryman Group		



The Total Annual Impact of Mortality Losses Associated with the Incidence of Cancer on Business Activity in Texas: Comptroller's Economic Region Results

Economic Region	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
High Plains	(\$2,886,502,652)	(\$1,475,328,366)	(\$854,226,565)	(\$484,738,227)	-15,434
Northwest Texas	(\$2,833,343,001)	(\$1,456,826,701)	(\$828,597,484)	(\$486,135,111)	-14,949
Metroplex	(\$21,185,007,760)	(\$10,406,928,132)	(\$6,021,227,984)	(\$2,908,518,536)	-102,760
Upper East Texas	(\$5,443,262,346)	(\$2,739,593,329)	(\$1,587,429,722)	(\$925,574,990)	-28,904
Southeast Texas	(\$3,617,015,282)	(\$1,817,934,100)	(\$1,101,361,317)	(\$663,191,449)	-20,354
Gulf Coast	(\$21,064,968,473)	(\$9,723,395,147)	(\$5,512,358,079)	(\$2,314,411,444)	-87,541
Capital	(\$3,815,264,538)	(\$1,958,103,333)	(\$1,165,117,124)	(\$622,331,953)	-20,958
Central Texas	(\$3,845,727,938)	(\$1,934,165,156)	(\$1,145,701,677)	(\$689,402,664)	-21,694
Alamo	(\$8,535,674,392)	(\$4,246,577,295)	(\$2,503,973,495)	(\$1,362,636,547)	-45,318
South Texas	(\$5,749,977,461)	(\$2,893,160,410)	(\$1,682,708,108)	(\$986,808,503)	-31,103
West Texas	(\$2,238,821,952)	(\$1,112,018,718)	(\$621,839,996)	(\$354,156,356)	-10,915
Upper Rio Grande	(\$2,581,256,157)	(\$1,251,819,081)	(\$731,938,842)	(\$385,950,210)	-13,226
TOTAL STATE IMPACT	(\$83,796,821,951)	(\$41,015,849,768)	(\$23,756,480,391)	(\$12,183,855,991)	-413,157



The Total Annual Impact of Mortality Losses Associated with the Incidence of Cancer on Business Activity in Texas: Council of Governments (COG) Region Results

COG	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)			
Panhandle	(\$1,541,938,345)	(\$779,619,045)	(\$443,966,850)	(\$252,281,557)	-7,919			
South Plains	(\$1,344,564,307)	(\$695,709,320)	(\$410,259,715)	(\$232,456,670)	-7,515			
Nortex	(\$1,158,550,086)	(\$606,758,707)	(\$344,870,412)	(\$201,247,946)	-6,187			
North Central Texas	(\$20,296,608,306)	(\$9,952,562,831)	(\$5,746,693,911)	(\$2,740,074,871)	-97,593			
Ark-Tex	(\$1,248,282,013)	(\$631,171,237)	(\$379,169,370)	(\$241,279,081)	-7,251			
East Texas	(\$4,194,980,334)	(\$2,108,422,091)	(\$1,208,260,351)	(\$684,295,909)	-21,653			
West Central Texas	(\$1,674,792,915)	(\$850,067,995)	(\$483,727,072)	(\$284,887,166)	-8,762			
Rio Grande	(\$2,581,256,157)	(\$1,251,819,081)	(\$731,938,842)	(\$385,950,210)	-13,226			
Permian Basin	(\$1,532,373,547)	(\$765,477,619)	(\$429,034,000)	(\$239,994,506)	-7,374			
Concho Valley	(\$706,448,405)	(\$346,541,099)	(\$192,805,995)	(\$114,161,850)	-3,541			
Heart of Texas	(\$1,676,537,797)	(\$809,394,247)	(\$474,569,327)	(\$280,685,575)	-8,943			
Capital Area	(\$3,815,264,538)	(\$1,958,103,333)	(\$1,165,117,124)	(\$622,331,953)	-20,958			
Brazos Valley	(\$935,998,120)	(\$477,922,530)	(\$277,478,168)	(\$166,767,353)	-5,160			
Deep East Texas	(\$1,743,996,140)	(\$894,585,576)	(\$535,749,333)	(\$335,143,174)	-10,146			
South East Texas	(\$1,873,019,142)	(\$923,348,524)	(\$565,611,984)	(\$328,048,275)	-10,208			
Houston-Galveston Area	(\$21,064,968,473)	(\$9,723,395,147)	(\$5,512,358,079)	(\$2,314,411,444)	-87,541			
Golden Crescent	(\$852,396,182)	(\$424,056,634)	(\$245,320,457)	(\$142,049,965)	-4,372			
Alamo Area	(\$7,684,056,051)	(\$3,822,896,068)	(\$2,258,845,820)	(\$1,220,667,587)	-40,949			
South Texas	(\$543,367,744)	(\$287,513,479)	(\$161,349,443)	(\$104,421,492)	-3,023			
Coastal Bend	(\$2,500,614,552)	(\$1,187,700,504)	(\$675,407,451)	(\$376,379,085)	-11,844			
Lower Rio Grande Valley	(\$2,257,445,932)	(\$1,181,537,673)	(\$706,617,690)	(\$415,678,230)	-13,516			
Texoma	(\$888,399,454)	(\$454,365,301)	(\$274,534,073)	(\$168,443,666)	-5,167			
Central Texas	(\$1,233,192,021)	(\$646,848,379)	(\$393,654,182)	(\$241,949,736)	-7,591			
Middle Rio Grande	(\$447,771,391)	(\$236,033,347)	(\$139,140,742)	(\$90,248,690)	-2,717			
Border Region	(\$5,831,222,142)	(\$2,957,722,246)	(\$1,739,533,841)	(\$996,553,307)	-32,491			
TOTAL STATE	(\$83,796,821,951)	(\$41,015,849,768)	(\$23,756,480,391)	(\$12,183,855,991)	-413,157			
SOURCE: US Multi-Re	SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group							



The Total Annual Impact of Mortality Losses Associated with the Incidence of Cancer on Business Activity in Texas: Metropolitan Statistical Area (MSA) and Rural Texas Results

	Total	Ouese Due deset	Personal	Datail Calaa	5
MSA	Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
Abilene	(\$820,503,085)	(\$408,019,058)	(\$230,704,052)	(\$122,936,356)	-4,037
Amarillo	(\$997,753,603)	(\$517,658,795)	(\$296,081,039)	(\$160,887,048)	-5,273
Austin-Round Rock	(\$3,171,101,213)	(\$1,642,139,451)	(\$984,466,760)	(\$515,305,326)	-17,615
Beaumont-Port Arthur	(\$1,914,406,578)	(\$949,148,653)	(\$582,329,503)	(\$339,388,282)	-10,528
Brownsville- Harlingen	(\$913,380,212)	(\$462,256,295)	(\$275,446,325)	(\$163,425,458)	-5,306
College Station- Bryan	(\$578,867,198)	(\$293,296,065)	(\$169,931,997)	(\$98,598,732)	-3,135
Corpus Christi	(\$2,020,439,010)	(\$938,149,617)	(\$536,322,793)	(\$288,616,122)	-9,280
Dallas-Plano-Irving MD*	(\$12,308,048,710)	(\$6,020,262,424)	(\$3,454,637,776)	(\$1,557,036,777)	-57,465
Fort Worth- Arlington MD*	(\$7,461,008,778)	(\$3,669,914,517)	(\$2,136,603,975)	(\$1,089,768,323)	-37,195
El Paso	(\$2,524,490,172)	(\$1,221,834,629)	(\$714,113,546)	(\$374,322,891)	-12,882
Houston-The Woodlands-Sugar Land	(\$20,428,020,577)	(\$9,404,427,746)	(\$5,326,321,177)	(\$2,195,116,942)	-84,030
Killeen-Temple	(\$1,034,090,189)	(\$544,001,900)	(\$331,635,194)	(\$200,691,121)	-6,384
Laredo	(\$408,245,650)	(\$213,781,340)	(\$118,471,198)	(\$72,978,589)	-2,169
Longview	(\$1,070,012,153)	(\$549,305,180)	(\$317,555,905)	(\$173,100,902)	-5,566
Lubbock	(\$998,685,518)	(\$519,488,553)	(\$309,472,174)	(\$165,375,892)	-5,617
McAllen-Edinburg- Mission	(\$1,304,916,175)	(\$697,177,745)	(\$418,358,412)	(\$243,391,359)	-7,960
Midland	(\$432,929,514)	(\$219,175,704)	(\$121,706,925)	(\$64,093,414)	-2,041
Odessa	(\$578,581,847)	(\$286,011,983)	(\$163,765,378)	(\$88,117,765)	-2,779
San Angelo	(\$497,097,450)	(\$242,169,520)	(\$133,795,543)	(\$77,161,955)	-2,464
San Antonio-New Braunfels	(\$7,081,051,799)	(\$3,528,383,501)	(\$2,089,678,914)	(\$1,117,193,510)	-37,767
Sherman-Denison	(\$533,654,039)	(\$277,063,393)	(\$168,880,953)	(\$107,526,964)	-3,262
Texarkana	(\$428,956,516)	(\$225,865,165)	(\$136,951,380)	(\$83,071,373)	-2,598
Tyler	(\$965,025,540)	(\$474,219,332)	(\$261,881,121)	(\$141,766,112)	-4,566
Victoria	(\$443,910,252)	(\$218,368,353)	(\$124,883,399)	(\$68,708,565)	-2,142
Waco	(\$1,191,565,253)	(\$573,085,172)	(\$338,007,875)	(\$190,743,785)	-6,302
Wichita Falls	(\$721,030,082)	(\$386,556,732)	(\$220,081,551)	(\$123,669,171)	-3,903
Rural Area	(\$12,969,050,837)	(\$6,534,088,945)	(\$3,794,395,529)	(\$2,360,863,258)	-70,893
TOTAL STATE IMPACT Metropolitan Division	(\$83,796,821,951)	(\$41,015,849,768)	(\$23,756,480,391)	(\$12,183,855,991)	-413,157



County Results						
County	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)	
Anderson	-\$322,256,482	-\$175,313,001	-\$101,571,994	-\$58,431,386	-1,843	
Andrews	-\$45,227,191	-\$23,477,006	-\$12,946,143	-\$6,966,133	-217	
Angelina	-\$340,171,688	-\$169,874,564	-\$103,186,103	-\$63,273,990	-1,950	
Aransas	-\$182,968,494	-\$84,423,213	-\$46,016,411	-\$27,172,879	-808	
Archer	-\$29,433,933	-\$15,200,872	-\$8,147,722	-\$5,081,767	-150	
Armstrong	-\$8,233,755	-\$4,162,641	-\$2,349,089	-\$985,431	-39	
Atascosa	-\$169,992,201	-\$82,133,140	-\$46,346,164	-\$25,231,959	-794	
Austin	-\$136,793,987	-\$64,998,894	-\$39,020,161	-\$18,154,174	-642	
Bailey	-\$18,942,421	-\$9,779,053	-\$5,872,866	-\$4,035,125	-113	
Bandera	-\$99,208,725	-\$47,135,254	-\$26,576,363	-\$17,468,279	-509	
Bastrop	-\$248,521,661	-\$122,108,379	-\$72,111,348	-\$44,641,158	-1,379	
Baylor	-\$35,305,559	-\$18,802,904	-\$10,943,270	-\$6,599,128	-202	
Bee	-\$92,800,994	-\$49,228,566	-\$27,712,057	-\$17,468,279	-519	
Bell	-\$777,726,484	-\$414,837,021	-\$255,221,851	-\$150,615,386	-4,867	
Bexar	-\$5,672,665,074	-\$2,846,404,653	-\$1,695,367,228	-\$870,308,496	-30,277	
Blanco	-\$38,434,010	-\$18,213,977	-\$10,411,649	-\$6,708,938	-204	
Borden	-\$5,235,371	-\$2,605,033	-\$1,386,197	-\$657,053	-22	
Bosque	-\$90,015,152	-\$44,350,603	-\$26,848,001	-\$15,022,280	-498	
Bowie	-\$428,956,516	-\$225,865,165	-\$136,951,380	-\$83,071,373	-2,598	
Brazoria	-\$920,261,743	-\$438,359,561	-\$257,928,984	-\$151,653,355	-4,597	
Brazos	-\$417,576,203	-\$210,768,521	-\$121,550,901	-\$65,991,278	-2,212	
Brewster	-\$27,362,874	-\$15,012,692	-\$9,122,589	-\$5,434,576	-174	
Briscoe	-\$6,513,092	-\$3,064,280	-\$1,761,092	-\$1,115,554	-32	
Brooks	-\$18,260,189	-\$9,978,350	-\$5,784,702	-\$3,881,840	-110	
Brown	-\$166,560,581	-\$90,271,033	-\$54,913,780	-\$38,430,215	-1,107	
Burleson	-\$81,766,063	-\$43,408,060	-\$24,819,639	-\$15,527,359	-451	
Burnet	-\$223,412,596	-\$106,878,932	-\$61,767,324	-\$36,489,295	-1,138	
Caldwell	-\$160,572,479	-\$80,680,199	-\$46,243,938	-\$26,784,695	-838	
Calhoun	-\$57,647,693	-\$23,658,607	-\$13,600,291	-\$7,526,403	-231	
Callahan	-\$80,889,461	-\$39,224,677	-\$21,483,567	-\$13,198,256	-392	
Cameron	-\$913,380,212	-\$462,256,295	-\$275,446,325	-\$163,425,458	-5,306	
Camp	-\$46,417,782	-\$22,763,424	-\$13,529,539	-\$8,340,805	-258	
Carson	-\$10,675,945	-\$4,493,037	-\$2,093,182	-\$833,034	-33	
Cass	-\$134,786,241	-\$68,242,476	-\$40,728,059	-\$28,514,951	-793	
Castro	-\$12,080,889	-\$5,850,017	-\$3,471,905	-\$2,485,790	-69	
Chambers	-\$106,750,712	-\$45,960,752	-\$24,874,957	-\$11,332,650	-395	
Cherokee	-\$176,565,166	-\$88,703,856	-\$54,661,231	-\$34,415,936	-1,032	
Childress	-\$31,199,611	-\$15,613,733	-\$8,990,411	-\$6,210,944	-177	
Clay	-\$51,053,690	-\$26,017,694	-\$15,596,798	-\$7,954,969	-270	
Cochran	-\$10,033,393	-\$5,375,989	-\$2,798,941	-\$1,319,113	-46	
Coke	-\$31,838,512	-\$15,413,969	-\$8,614,161	-\$5,025,777	-148	



		County			
	Total				Employment
County	Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	(Permanent Jobs)
Coleman	-\$64,583,361	-\$33,421,959	-\$18,600,901	-\$11,257,336	-337
Collin	-\$1,317,520,897	-\$676,857,608	-\$400,872,430	-\$213,639,043	-7,113
Collingsworth	-\$16,707,223	-\$9,210,478	-\$5,533,289	-\$3,525,659	-101
Colorado	-\$94,551,714	-\$48,071,738	-\$27,704,943	-\$18,724,377	-557
Comal	-\$387,754,932	-\$187,645,954	-\$109,212,071	-\$68,320,381	-2,137
Comanche	-\$73,470,732	-\$37,384,955	-\$22,519,366	-\$13,998,962	-427
Concho	-\$10,546,678	-\$5,644,786	-\$3,551,310	-\$1,949,142	-67
Cooke	-\$192,185,639	-\$95,708,146	-\$55,504,534	-\$29,890,167	-946
Coryell	-\$168,536,492	-\$85,009,003	-\$50,305,805	-\$32,607,455	-992
Cottle	-\$7,786,510	-\$4,527,192	-\$2,698,632	-\$1,395,690	-46
Crane	-\$10,851,998	-\$5,900,116	-\$3,209,325	-\$1,640,457	-55
Crockett	-\$12,729,470	-\$6,580,651	-\$3,596,972	-\$2,717,288	-69
Crosby	-\$24,351,951	-\$13,168,925	-\$7,393,374	-\$3,437,196	-126
Culberson	-\$6,616,942	-\$3,941,906	-\$2,315,928	-\$1,940,920	-49
Dallam	-\$13,393,555	-\$7,192,769	-\$4,283,508	-\$2,246,218	-79
Dallas	-\$8,429,253,847	-\$4,109,017,479	-\$2,320,039,668	-\$923,552,584	-36,977
Dawson	-\$57,792,552	-\$29,215,622	-\$15,904,166	-\$9,961,510	-287
Deaf Smith	-\$34,203,999	-\$16,717,989	-\$9,834,754	-\$5,220,919	-181
Delta	-\$20,895,766	-\$10,917,239	-\$6,598,125	-\$2,645,436	-112
Denton		-\$608,819,583			-6,311
DeWitt	-\$1,270,268,841 -\$119,780,726		-\$359,668,461 \$35,000,510	-\$185,551,945 \$21,738,303	-672
Dickens	-\$14,339,287	-\$60,159,801 -\$7,576,979	-\$35,909,510 -\$4,566,023	-\$21,738,303 -\$2,827,630	-83
Dimmit	-\$26,070,160	-\$13,586,617	-\$7,621,861	-\$5,434,576	-148
Donley		-\$10,134,234	-\$6,127,305	-\$4,658,208	-146
Duval	-\$17,951,792 \$45,653,023			-\$6,584,700	-212
Eastland	-\$45,653,023 -\$117,096,579	-\$22,280,055 -\$58,006,056	-\$11,989,058 -\$32,534,805	-\$21,350,119	-606
Ector	-\$578,581,847	-\$286,011,983	-\$163,765,378	-\$88,117,765	-2,779
Edwards	-\$10,977,698	-\$5,407,728	-\$2,893,032	-\$1,909,478	-53
El Paso	-\$2,522,907,614	-\$1,221,009,078	-\$713,646,876	-\$373,821,178	-12,871
Ellis	-\$452,410,786	-\$209,283,556	-\$124,120,601	-\$75,525,955	-2,268
Erath	-\$117,744,703	-\$63,651,618	-\$38,993,637	-\$26,008,327	-778
Falls	-\$84,212,458	-\$44,653,535	-\$27,305,980	-\$16,449,176	-524
Fannin		-\$81,593,763	-\$50,148,586	-\$31,026,535	-960
Fayette	-\$162,559,776 -\$151,338,444				-766
Fisher	-\$20,792,822	-\$77,278,424 -\$10,780,853	-\$43,430,461 -\$6,305,960	-\$23,291,039	-125
Floyd	-\$16,447,569	-\$7,399,701	-\$4,269,971	-\$4,434,680 -\$2,254,906	-125
Foard	-\$1,438,335	-\$809,090	-\$499,152	-\$300,687	-10
Fort Bend	-\$1,211,259,248	-\$568,458,860	-\$319,297,942	-\$158,196,034	
Franklin	-\$1,211,259,248			-\$158,196,034	-5,256
	-\$52,440,692	-\$26,059,557	-\$14,146,816		-262
Freestone Frio	-\$101,586,264	-\$50,238,579 \$25,400,576	-\$27,312,248 \$13,808,840	-\$18,632,831	-508
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County Results					
	Total				Employment
County	Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	(Permanent Jobs)
Gaines	-\$45,511,139	-\$22,011,431	-\$11,549,294	-\$6,796,528	-200
Galveston	-\$1,401,265,200	-\$653,377,118	-\$381,708,577	-\$217,771,216	-6,892
Garza	-\$21,512,873	-\$10,540,033	-\$5,803,097	-\$3,559,276	-102
Gillespie	-\$144,129,329	-\$70,511,366	-\$41,868,306	-\$25,620,143	-802
Glasscock	-\$670,621	-\$331,270	-\$160,674	-\$56,155	-2
Goliad	-\$35,211,371	-\$18,883,926	-\$10,799,871	-\$7,763,680	-208
Gonzales	-\$57,111,447		-\$17,434,493	-\$11,068,640	-334
Gray		-\$29,148,426 -\$57,779,680	-\$32,400,024	-\$19,604,781	-557
Grayson	-\$123,592,899 -\$533,654,039	-\$277,063,393	-\$168,880,953	-\$107,526,964	-3,262
Gregg Grimes	-\$618,607,208	-\$326,438,185	-\$189,563,754	-\$99,763,284	-3,283
	-\$89,577,838 \$334,483,347	-\$45,095,594	-\$26,643,441	-\$16,026,285	-492
Guadalupe	-\$331,183,247	-\$163,727,799	-\$96,820,169	-\$62,885,806	-1,843
Hale Hall	-\$84,531,487	-\$45,312,280	-\$27,429,757	-\$20,474,172	-558
	-\$18,827,662	-\$9,508,576	-\$5,484,528	-\$3,554,222	-104
Hamilton	-\$47,908,025	-\$23,654,679	-\$14,290,139	-\$10,092,784	-285
Hansford	-\$10,451,763	-\$4,731,204	-\$2,295,430	-\$1,036,328	-33
Hardeman	-\$16,207,931	-\$8,907,572	-\$5,253,512	-\$4,270,024	-110
Hardin	-\$245,136,109	-\$120,306,225	-\$68,541,212	-\$43,476,606	-1,258
Harris	-\$14,522,802,441	-\$6,607,417,312	-\$3,719,764,904	-\$1,347,522,401	-56,349
Harrison	-\$347,865,005	-\$161,752,714	-\$92,367,679	-\$44,782,541	-1,509
Hartley	-\$5,819,615	-\$2,863,830	-\$1,652,946	-\$1,062,476	-33
Haskell	-\$36,986,110	-\$19,058,926	-\$11,104,452	-\$6,386,442	-201
Hays	-\$288,011,982	-\$145,505,390	-\$86,313,913	-\$50,852,102	-1,615
Hemphill	-\$7,247,559	-\$3,418,448	-\$1,747,330	-\$916,835	-28
Henderson	-\$511,904,803	-\$247,671,565	-\$142,817,646	-\$84,235,925	-2,669
Hidalgo	-\$1,304,916,175	-\$697,177,745	-\$418,358,412	-\$243,391,359	-7,960
Hill	-\$189,475,436	-\$88,012,263	-\$50,712,574	-\$35,712,927	-1,042
Hockley	-\$73,337,041	-\$37,709,630	-\$20,976,946	-\$13,212,455	-388
Hood	-\$263,693,133	-\$124,537,045	-\$73,677,409	-\$46,193,894	-1,403
Hopkins	-\$137,076,635	-\$71,842,046	-\$43,663,026	-\$29,501,983	-852
Houston	-\$159,371,768	-\$78,015,504	-\$47,528,723	-\$21,517,329	-787
Howard	-\$165,939,970	-\$79,765,448	-\$44,888,075	-\$25,620,143	-779
Hudspeth	-\$1,582,558	-\$825,552	-\$466,670	-\$501,713	-11
Hunt	-\$306,727,118	-\$153,802,331	-\$92,738,272	-\$62,885,806	-1,810
Hutchinson	-\$102,974,532	-\$48,285,784	-\$26,897,317	-\$18,454,188	-469
Irion	-\$2,493,021	-\$1,043,391	-\$534,519	-\$301,525	-9
Jack	-\$44,554,546	-\$22,368,045	-\$12,656,314	-\$7,507,814	-221
Jackson	-\$64,887,263	-\$33,609,147	-\$18,184,490	-\$11,870,064	-332
Jasper	-\$165,703,779	-\$84,412,991	-\$50,592,754	-\$34,147,171	-1,000
Jeff Davis	-\$8,363,674	-\$4,105,608	-\$2,383,494	-\$1,534,535	-46
Jefferson	-\$1,235,671,443	-\$610,723,536	-\$380,027,886	-\$213,113,008	-6,820



County Results						
County	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)	
Jim Hogg	-\$25,328,721	-\$12,817,793	-\$6,895,512	-\$5,046,392	-128	
Jim Wells	-\$124,600,673	-\$68,977,777	-\$38,705,510	-\$24,455,591	-718	
Johnson	-\$528,873,264	-\$260,691,373	-\$159,862,991	-\$94,328,708	-2,970	
Jones	-\$91,207,743	-\$46,141,531	-\$25,984,173	-\$14,244,840	-463	
Karnes	-\$80,627,976	-\$36,933,655	-\$20,255,439	-\$11,645,520	-348	
Kaufman	-\$354,543,565	-\$172,330,551	-\$103,332,506	-\$64,050,358	-1,975	
Kendall	-\$139,276,310	-\$64,244,581	-\$36,809,612	-\$22,126,487	-670	
Kenedy	-\$2,258,611	-\$1,160,208	-\$596,186	-\$435,995	-12	
Kent	-\$1,873,690	-\$907,208	-\$492,053	-\$262,808	-8	
Kerr	-\$325,014,444	-\$161,282,563	-\$93,041,530	-\$57,839,414	-1,782	
Kimble	-\$35,077,701	-\$15,341,027	-\$8,422,485	-\$5,434,576	-154	
King	-\$1,791,903	-\$962,096	-\$578,590	-\$235,319	-10	
Kinney	-\$17,964,899	-\$8,462,921	-\$4,343,308	-\$2,782,589	-80	
Kleberg	-\$115,453,963	-\$58,498,563	-\$32,828,823	-\$19,409,199	-597	
Knox	-\$21,860,906	-\$11,539,170	-\$6,372,124	-\$3,138,164	-106	
La Salle	-\$14,299,412	-\$7,715,427	-\$4,225,582	-\$3,105,472	-84	
Lamar	-\$226,836,292	-\$112,468,261	-\$68,453,094	-\$45,671,035	-1,357	
Lamb	-\$39,551,164	-\$18,298,669	-\$10,842,522	-\$6,884,131	-197	
Lampasas	-\$87,827,213	-\$44,155,876	-\$26,107,539	-\$17,468,279	-525	
Lavaca	-\$109,058,800	-\$59,112,299	-\$35,308,273	-\$21,137,990	-660	
Lee	-\$74,362,261	-\$37,530,261	-\$21,244,439	-\$12,199,924	-378	
Leon	-\$64,927,594	-\$34,798,730	-\$19,587,150	-\$13,938,595	-376	
Liberty	-\$370,297,382	-\$190,662,542	-\$111,005,856	-\$60,858,290	-1,958	
Limestone	-\$103,895,692	-\$53,707,630	-\$31,688,630	-\$20,573,751	-592	
Lipscomb	-\$10,016,993	-\$4,808,193	-\$2,405,717	-\$1,157,847	-39	
Live Oak	-\$45,762,767	-\$21,727,037	-\$12,104,579	-\$7,763,680	-215	
Llano	-\$156,616,014	-\$76,062,287	-\$43,796,491	-\$28,337,431	-858	
Loving	-\$1,306,504	-\$633,780	-\$264,180	-\$80,697	-3	
Lubbock	-\$960,421,953	-\$499,526,214	-\$298,142,957	-\$160,319,986	-5,426	
Lynn	-\$13,911,615	-\$6,793,414	-\$3,935,844	-\$1,618,710	-66	
Madison	-\$49,450,277	-\$25,277,687	-\$14,228,694	-\$10,869,152	-291	
Marion	-\$69,652,457	-\$35,647,460	-\$20,601,419	-\$13,586,439	-405	
Martin	-\$19,870,662	-\$9,433,804	-\$5,196,499	-\$2,787,608	-86	
Mason	-\$26,418,078	-\$13,077,957	-\$7,024,550	-\$4,270,024	-129	
Matagorda	-\$169,573,256	-\$77,836,181	-\$45,416,271	-\$29,565,511	-826	
Maverick	-\$111,920,882	-\$57,413,679	-\$33,094,135	-\$22,514,671	-660	
McCulloch	-\$43,629,014	-\$22,662,616	-\$13,718,670	-\$8,540,048	-258	
McLennan	-\$1,107,352,795	-\$528,431,637	-\$310,701,894	-\$174,294,610	-5,779	
McMullen	-\$777,842	-\$375,407	-\$192,782	-\$81,005	-3	
Medina	-\$140,580,846	-\$67,330,916	-\$38,248,172	-\$24,843,775	-746	
Menard	-\$14,123,522	-\$7,384,373	-\$4,039,536	-\$2,717,288	-74	
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County Results					
	_ Total				Employment
County	Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	(Permanent Jobs)
County Midland	-\$413,058,852	-\$209,741,901	-\$116,510,426	-\$61,305,805	-1,955
Milam	-\$103,118,420	-\$52,082,157	-\$31,155,133	-\$19,691,265	-1,933
Mills					-155
Mitchell	-\$20,310,696	-\$12,301,036	-\$7,790,153	-\$5,263,623	
	-\$45,308,815	-\$23,433,203	-\$13,252,865	-\$8,073,178	-238
Montague	-\$131,976,059	-\$64,344,572	-\$35,144,026	-\$21,738,303	-651
Montgomery	-\$1,614,114,784	-\$771,480,823	-\$437,769,162	-\$206,337,783	-7,284
Moore	-\$55,567,077	-\$24,327,350	-\$13,386,538	-\$7,557,062	-225
Morris	-\$64,436,173	-\$28,213,732	-\$16,899,250	-\$7,609,231	-278
Motley	-\$8,521,454	-\$4,044,435	-\$2,139,531	-\$1,340,892	-39
Nacogdoches	-\$213,153,086	-\$113,489,971	-\$69,426,217	-\$46,193,894	-1,402
Navarro	-\$234,041,962	-\$116,118,509	-\$70,017,487	-\$39,700,380	-1,313
Newton	-\$41,387,436	-\$25,800,129	-\$16,717,519	-\$11,340,007	-320
Nolan	-\$91,744,590	-\$48,398,750	-\$27,169,794	-\$15,937,705	-488
Nueces	-\$1,551,932,247	-\$720,209,831	-\$413,540,973	-\$212,336,640	-7,063
Ochiltree	-\$22,172,736	-\$10,689,797	-\$5,747,422	-\$3,054,765	-95
Oldham	-\$850,515	-\$480,752	-\$293,968	-\$269,275	-7
Orange	-\$392,211,590	-\$192,318,763	-\$117,042,886	-\$71,458,661	-2,130
Palo Pinto	-\$175,764,153	-\$82,615,764	-\$46,441,037	-\$27,561,063	-842
Panola	-\$124,071,497	-\$63,267,219	-\$36,037,309	-\$20,515,623	-639
Parker	-\$436,766,750	-\$204,040,139	-\$117,655,587	-\$68,708,565	-2,144
Parmer	-\$9,591,155	-\$4,400,536	-\$2,536,130	-\$878,452	-43
Pecos	-\$52,428,374	-\$26,244,597	-\$14,450,225	-\$9,704,600	-272
Polk	-\$305,855,463	-\$156,732,834	-\$88,647,724	-\$55,898,494	-1,608
Potter	-\$577,256,997	-\$300,851,678	-\$170,879,484	-\$90,835,053	-3,006
Presidio	-\$14,422,494	-\$6,924,246	-\$4,003,284	-\$2,717,288	-77
Rains	-\$65,175,798	-\$30,366,618	-\$16,849,425	-\$11,719,282	-318
Randall	-\$400,736,391	-\$207,670,688	-\$120,465,317	-\$67,964,256	-2,189
Reagan	-\$9,699,431	-\$5,022,431	-\$2,687,433	-\$1,828,788	-47
Real	-\$25,556,028	-\$11,670,071	-\$6,328,323	-\$3,881,840	-113
Red River	-\$90,390,712	-\$42,904,092	-\$24,642,411	-\$15,678,938	-468
Reeves	-\$46,186,883	-\$23,871,266	-\$13,251,917	-\$9,704,600	-255
Refugio	-\$35,385,321	-\$17,700,331	-\$9,363,743	-\$7,763,680	-181
Roberts	-\$1,212,997	-\$552,081	-\$286,891	-\$225,884	-5
Robertson	-\$79,524,932	-\$39,119,485	-\$23,561,457	-\$17,080,095	-472
Rockwall	-\$177,323,656	-\$90,151,316	-\$53,865,838	-\$31,831,087	-1,012
Runnels	-\$72,262,558	-\$32,500,272	-\$17,707,011	-\$10,333,919	-309
Rusk	-\$72,262,338	-\$121,277,002	-\$69,860,602	-\$37,624,691	-1,221
Sabine			-\$16,498,567		
	-\$53,485,398 \$57,563,507	-\$26,478,666 \$27,642,731	-\$15,257,625	-\$10,656,518 \$0,410,188	-313 -283
San Augustine	-\$57,563,597 \$115,407,263	-\$27,643,731		-\$9,419,188 \$21,350,110	
San Jacinto	-\$115,407,263	-\$56,392,004	-\$33,176,215	-\$21,350,119	-636
San Patricio	-\$285,538,269	-\$133,516,572	-\$76,765,408	-\$49,106,603	-1,408



County Results					
County	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
San Saba	-\$27,764,691	-\$14,808,608	-\$8,783,562	-\$6,210,944	-179
Schleicher	-\$6,521,114	-\$3,353,195	-\$1,863,121	-\$735,203	-30
Scurry	-\$61,593,910	-\$33,625,277	-\$18,430,904	-\$12,592,581	-342
Shackelford	-\$17,372,021	-\$8,741,918	-\$4,670,290	-\$2,693,624	-81
Shelby	-\$89,595,364	-\$48,328,007	-\$30,767,256	-\$19,964,109	-602
Sherman	-\$3,532,845	-\$1,631,811	-\$929,903	-\$500,775	-17
Smith	-\$965,025,540	-\$474,219,332	-\$261,881,121	-\$141,766,112	-4,566
Somervell	-\$18,182,361	-\$8,460,232	-\$5,188,799	-\$2,076,796	-92
Starr	-\$85,246,790	-\$48,223,456	-\$28,901,444	-\$21,350,119	-590
Stephens	-\$48,375,372	-\$26,139,112	-\$14,675,326	-\$10,245,314	-270
Sterling	-\$1,125,771	-\$648,943	-\$368,803	-\$288,105	-7
Stonewall	-\$8,089,418	-\$4,537,229	-\$2,553,883	-\$1,777,272	-49
Sutton	-\$17,641,663	-\$9,241,629	-\$5,123,412	-\$3,493,656	-95
Swisher	-\$17,944,268	-\$8,297,595	-\$4,869,294	-\$2,892,990	-92
Tarrant	-\$6,011,646,094	-\$2,967,200,287	-\$1,721,314,145	-\$843,135,617	-29,531
Taylor	-\$648,405,882	-\$322,652,850	-\$183,236,312	-\$95,493,260	-3,182
Terrell	-\$1,380,918	-\$818,666	-\$487,123	-\$254,685	-8
Terry	-\$39,809,531	-\$20,552,134	-\$10,806,125	-\$7,820,522	-200
Throckmorton	-\$6,318,363	-\$3,303,018	-\$1,719,506	-\$1,038,489	-30
Titus	-\$92,462,985	-\$44,658,669	-\$27,087,210	-\$19,535,174	-531
Tom Green	-\$494,604,429	-\$241,126,129	-\$133,261,023	-\$76,860,429	-2,456
Travis	-\$1,987,975,065	-\$1,034,442,798	-\$620,202,389	-\$303,910,170	-10,840
Trinity	-\$98,537,018	-\$53,807,088	-\$31,654,485	-\$20,772,590	-625
Tyler	-\$103,764,281	-\$53,610,089	-\$32,296,145	-\$20,609,766	-620
Upshur	-\$202,527,243	-\$101,589,993	-\$58,131,549	-\$35,712,927	-1,062
Upton	-\$10,152,889	-\$5,142,606	-\$2,717,396	-\$1,501,244	-46
Uvalde	-\$96,811,332	-\$50,508,559	-\$30,011,515	-\$18,244,647	-580
Val Verde	-\$122,273,623	-\$68,291,748	-\$42,323,769	-\$25,620,143	-816
Van Zandt	-\$221,901,315	-\$125,179,414	-\$73,407,265	-\$48,134,814	-1,433
Victoria	-\$408,698,881	-\$199,484,427	-\$114,083,528	-\$60,944,886	-1,934
Walker	-\$178,540,684	-\$91,665,302	-\$55,436,339	-\$35,324,743	-1,076
Waller	-\$144,475,078	-\$63,711,884	-\$34,950,634	-\$23,291,039	-656
Ward	-\$47,720,822	-\$24,505,501	-\$13,618,405	-\$9,316,416	-252
Washington	-\$153,175,213	-\$79,454,453	-\$47,086,887	-\$27,334,589	-865
Webb	-\$408,245,650	-\$213,781,340	-\$118,471,198	-\$72,978,589	-2,169
Wharton	-\$194,282,243	-\$101,394,180	-\$57,479,350	-\$35,679,871	-1,052
Wheeler	-\$23,182,480	-\$12,881,865	-\$7,244,076	-\$5,034,611	-138
Wichita	-\$640,542,459	-\$345,338,166	-\$196,337,031	-\$110,632,436	-3,483
Wilbarger	-\$75,867,271	-\$36,371,194	-\$21,961,640	-\$13,974,623	-412
Willacy	-\$39,149,545	-\$22,103,634	-\$12,812,953	-\$8,861,413	-250
Williamson	-\$486,020,027	-\$259,402,685	-\$159,595,172	-\$89,117,200	-2,944



		Odditty	. toodito		
County	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
Wilson	-\$140,390,464	-\$69,761,203	-\$40,299,134	-\$26,008,327	-791
Winkler	-\$30,456,952	-\$15,767,592	-\$8,728,578	-\$5,523,109	-155
Wise	-\$201,847,175	-\$104,985,441	-\$58,905,044	-\$35,324,743	-1,055
Wood	-\$274,132,336	-\$134,232,308	-\$76,979,819	-\$45,266,143	-1,416
Yoakum	-\$17,060,665	-\$8,669,769	-\$4,703,172	-\$3,117,237	-85
Young	-\$124,383,792	-\$64,071,404	-\$35,632,316	-\$21,792,505	-632
Zapata	-\$24,546,583	-\$12,690,891	-\$7,081,289	-\$5,046,392	-136
Zavala	-\$21,897,357	-\$12,976,598	-\$8,299,217	-\$6,755,275	-183
TEXAS	-\$83,796,821,951	-\$41,015,849,768	-\$23,756,480,391	-\$12,183,855,991	-413,157
NOTE: Allocations	reflect hest available evidence	a regarding incidence an	d industrial structure and	composition of each area	

NOTE: Allocations reflect best available evidence regarding incidence and industrial structure and composition of each area. SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



	Results by Texas House District						
Haves			Personal				
House District	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)		
1	-\$798,624,212	-\$407,297,075	-\$244,193,700	-\$153,472,306	-4,684		
2	-\$665,705,069	-\$350,823,791	-\$209,808,563	-\$140,522,603	-4,095		
3	-\$573,829,611	-\$268,925,782	-\$151,397,231	-\$78,176,890	-2,593		
4	-\$779,424,552	-\$377,897,950	-\$221,871,152	-\$133,966,175	-4,190		
5	-\$774,231,202	-\$374,047,391	-\$214,196,712	-\$126,494,502	-3,896		
6	-\$733,419,410	-\$360,406,692	-\$199,029,652	-\$107,742,245	-3,470		
7	-\$821,134,451	-\$428,028,178	-\$247,695,304	-\$135,476,211	-4,345		
8	-\$847,360,145	-\$429,682,351	-\$249,614,303	-\$152,477,524	-4,706		
9	-\$819,455,963	-\$403,716,541	-\$237,000,289	-\$138,020,182	-4,261		
10							
11	-\$539,434,602	-\$251,387,722	-\$148,399,601	-\$89,846,063 \$148,234,534	-2,722		
12	-\$638,595,955 \$666,651,113	-\$323,470,829	-\$193,948,050 -\$195,214,780	-\$118,234,521 \$116,050,010	-3,655 -3,675		
13	-\$666,651,113	-\$329,733,104	-\$195,214,780	-\$116,950,010 \$140,105,813	·		
	-\$816,262,059	-\$417,419,462		-\$140,195,813	-4,434		
14	-\$350,764,010	-\$177,045,557	-\$102,102,757	-\$55,432,673	-1,858		
15	-\$592,380,126	-\$283,133,462	-\$160,661,282	-\$75,725,967	-2,673		
16	-\$592,380,126	-\$283,133,462	-\$160,661,282	-\$75,725,967	-2,673		
17	-\$621,195,825	-\$306,400,920	-\$177,289,658	-\$106,339,936	-3,277		
18	-\$664,245,329	-\$338,719,847	-\$199,618,409	-\$117,533,152	-3,669		
19	-\$861,847,068	-\$440,862,268	-\$256,795,353	-\$165,472,044	-4,806		
20	-\$433,455,422	-\$216,029,680	-\$128,033,394	-\$75,786,344	-2,374		
21	-\$837,053,310	-\$412,179,236	-\$253,852,925	-\$148,179,344	-4,585		
22	-\$790,829,724	-\$390,863,063	-\$243,217,847	-\$136,392,325	-4,365		
23	-\$723,307,400	-\$333,446,684	-\$192,826,731	-\$107,151,985	-3,428		
24	-\$784,708,512	-\$365,891,186	-\$213,756,803	-\$121,951,881	-3,860		
25	-\$574,488,423	-\$270,714,388	-\$158,905,024	-\$96,292,988	-2,849		
26	-\$329,462,515	-\$154,620,810	-\$86,849,040	-\$43,029,321	-1,430		
27	-\$329,462,515	-\$154,620,810	-\$86,849,040	-\$43,029,321	-1,430		
28	-\$329,462,515	-\$154,620,810	-\$86,849,040	-\$43,029,321	-1,430		
29	-\$515,346,576	-\$245,481,354	-\$144,440,231	-\$84,925,879	-2,574		
30	-\$839,692,486	-\$404,310,306	-\$229,773,355	-\$132,909,830	-4,035		
31	-\$446,729,100	-\$228,514,506	-\$129,848,962	-\$82,342,575	-2,398		
32	-\$760,446,801	-\$352,902,817	-\$202,635,077	-\$104,044,954	-3,461		
33	-\$335,426,163	-\$171,374,229	-\$101,970,530	-\$57,467,772	-1,866		
34	-\$791,485,446	-\$367,307,014	-\$210,905,896	-\$108,291,686	-3,602		
35	-\$322,303,906	-\$167,822,321	-\$100,375,752	-\$58,936,422	-1,921		
36	-\$284,471,726	-\$151,984,748	-\$91,202,134	-\$53,059,316	-1,735		
37	-\$383,619,689	-\$194,147,644	-\$115,687,457	-\$68,638,692	-2,229		
38	-\$374,485,887	-\$189,525,081	-\$112,932,993	-\$67,004,438	-2,176		
39	-\$284,471,726	-\$151,984,748	-\$91,202,134	-\$53,059,316	-1,735		
40	-\$284,471,726	-\$151,984,748	-\$91,202,134	-\$53,059,316	-1,735		
41	-\$284,471,726	-\$151,984,748	-\$91,202,134	-\$53,059,316	-1,735		



	Results by Texas House District							
Havea			Personal					
House District	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)			
42	-\$261,277,216	-\$136,820,057	-\$75,821,567	-\$46,706,297	-1,388			
43	-\$618,393,899	-\$310,221,478	-\$176,011,798	-\$110,439,672	-3,243			
44	-\$471,573,711	-\$233,489,002	-\$137,119,303	-\$88,894,133	-2,634			
45	-\$326,445,991	-\$163,719,367	-\$96,725,562	-\$57,561,040	-1,818			
46	-\$324,039,936	-\$168,614,176	-\$101,092,989	-\$49,537,358	-1,767			
47	-\$337,955,761	-\$175,855,276	-\$105,434,406	-\$51,664,729	-1,843			
48	-\$337,955,761	-\$175,855,276	-\$105,434,406	-\$51,664,729	-1,843			
49	-\$326,027,911	-\$169,648,619	-\$101,713,192	-\$49,841,268	-1,778			
50	-\$324,039,936	-\$168,614,176	-\$101,092,989	-\$49,537,358	-1,767			
51	-\$337,955,761	-\$175,855,276	-\$105,434,406	-\$51,664,729	-1,843			
52	-\$189,547,810	-\$101,167,047	-\$62,242,117	-\$34,755,708	-1,148			
53	-\$870,465,303	-\$423,867,654	-\$240,953,987	-\$153,648,251	-4,612			
54								
55	-\$461,135,926 \$404,447,773	-\$243,277,646 -\$215,715,251	-\$148,614,027	-\$89,763,665 -\$78,320,001	-2,861			
56	-\$404,417,772 \$775,146,057		-\$132,715,362		-2,531			
57	-\$775,146,957	-\$369,902,146	-\$217,491,326	-\$122,006,227	-4,045			
	-\$770,021,942	-\$389,417,304	-\$231,442,780	-\$139,790,844	-4,314			
58	-\$618,888,417	-\$305,041,976	-\$186,710,992	-\$109,350,989	-3,468			
59	-\$517,546,714	-\$267,932,746	-\$161,590,132	-\$104,798,938	-3,165			
60	-\$934,334,661	-\$462,957,564	-\$266,997,114	-\$170,929,820	-5,038			
61	-\$638,613,925	-\$309,025,580	-\$176,560,631	-\$104,033,308	-3,200			
62	-\$717,109,581	-\$369,574,394	-\$225,627,664	-\$141,198,935	-4,334			
63	-\$317,567,210	-\$152,204,896	-\$89,917,115	-\$46,387,986	-1,578			
64	-\$317,567,210	-\$152,204,896	-\$89,917,115	-\$46,387,986	-1,578			
65	-\$317,567,210	-\$152,204,896	-\$89,917,115	-\$46,387,986	-1,578			
66	-\$289,854,597	-\$148,908,674	-\$88,191,935	-\$47,000,589	-1,565			
67	-\$289,854,597	-\$148,908,674	-\$88,191,935	-\$47,000,589	-1,565			
68	-\$843,904,167	-\$425,792,179	-\$243,029,717	-\$146,449,473	-4,387			
69	-\$779,634,882	-\$417,707,897	-\$237,896,097	-\$133,707,150	-4,221			
70	-\$289,854,597	-\$148,908,674	-\$88,191,935	-\$47,000,589	-1,565			
71	-\$831,358,214	-\$417,193,131	-\$236,390,279	-\$125,675,806	-4,133			
72	-\$789,180,992	-\$381,496,638	-\$211,773,009	-\$122,263,984	-3,823			
73	-\$671,160,572	-\$322,401,901	-\$187,889,989	-\$116,067,012	-3,609			
74	-\$411,810,626	-\$216,546,659	-\$126,506,625	-\$82,791,015	-2,449			
75	-\$504,581,523	-\$244,201,816	-\$142,729,375	-\$74,764,236	-2,574			
76	-\$504,581,523	-\$244,201,816	-\$142,729,375	-\$74,764,236	-2,574			
77	-\$504,581,523	-\$244,201,816	-\$142,729,375	-\$74,764,236	-2,574			
78	-\$504,581,523	-\$244,201,816	-\$142,729,375	-\$74,764,236	-2,574			
79	-\$504,581,523	-\$244,201,816	-\$142,729,375	-\$74,764,236	-2,574			
80	-\$368,748,527	-\$192,133,523	-\$109,472,362	-\$70,041,177	-2,076			
81	-\$701,986,812	-\$349,762,082	-\$199,058,503	-\$109,923,422	-3,403			
82	-\$511,726,954	-\$259,434,048	-\$143,537,812	-\$77,196,624	-2,429			



	Results by Texas House District							
Hause			Personal					
House District	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)			
83	-\$595,539,163	-\$308,830,977	-\$178,618,410	-\$101,686,568	-3,238			
84	-\$576,253,172	-\$299,715,729	-\$178,885,774	-\$96,191,992	-3,255			
85	-\$482,041,208	-\$239,599,757	-\$134,414,662	-\$76,658,005	-2,351			
86	-\$464,595,229	-\$239,326,564	-\$139,066,623	-\$77,641,596	-2,532			
87	-\$750,007,396	-\$379,589,660	-\$214,186,424	-\$118,180,112	-3,750			
88	-\$480,874,914	-\$238,633,559	-\$136,085,703	-\$87,176,646	-2,504			
89	-\$289,854,597	-\$148,908,674	-\$88,191,935	-\$47,000,589	-1,565			
90	-\$547,059,795	-\$270,015,226	-\$156,639,587	-\$76,725,341	-2,687			
91								
92	-\$547,059,795	-\$270,015,226	-\$156,639,587	-\$76,725,341	-2,687			
93	-\$547,059,795	-\$270,015,226	-\$156,639,587	-\$76,725,341	-2,687			
	-\$547,059,795	-\$270,015,226	-\$156,639,587	-\$76,725,341	-2,687			
94	-\$547,059,795	-\$270,015,226	-\$156,639,587	-\$76,725,341	-2,687			
95	-\$547,059,795	-\$270,015,226	-\$156,639,587	-\$76,725,341	-2,687			
96	-\$547,059,795	-\$270,015,226	-\$156,639,587	-\$76,725,341	-2,687			
97	-\$547,059,795	-\$270,015,226	-\$156,639,587	-\$76,725,341	-2,687			
98	-\$547,059,795	-\$270,015,226	-\$156,639,587	-\$76,725,341	-2,687			
99	-\$547,059,795	-\$270,015,226	-\$156,639,587	-\$76,725,341	-2,687			
100	-\$598,477,023	-\$291,740,241	-\$164,722,816	-\$65,572,233	-2,625			
101	-\$541,048,148	-\$267,048,026	-\$154,918,273	-\$75,882,205	-2,658			
102	-\$598,477,023	-\$291,740,241	-\$164,722,816	-\$65,572,233	-2,625			
103	-\$598,477,023	-\$291,740,241	-\$164,722,816	-\$65,572,233	-2,625			
104	-\$598,477,023	-\$291,740,241	-\$164,722,816	-\$65,572,233	-2,625			
105	-\$598,477,023	-\$291,740,241	-\$164,722,816	-\$65,572,233	-2,625			
106	-\$317,567,210	-\$152,204,896	-\$89,917,115	-\$46,387,986	-1,578			
107	-\$598,477,023	-\$291,740,241	-\$164,722,816	-\$65,572,233	-2,625			
108	-\$598,477,023	-\$291,740,241	-\$164,722,816	-\$65,572,233	-2,625			
109	-\$598,477,023	-\$291,740,241	-\$164,722,816	-\$65,572,233	-2,625			
110	-\$598,477,023	-\$291,740,241	-\$164,722,816	-\$65,572,233	-2,625			
111	-\$611,120,904	-\$297,903,767	-\$168,202,876	-\$66,957,562	-2,681			
112	-\$598,477,023	-\$291,740,241	-\$164,722,816	-\$65,572,233	-2,625			
113	-\$611,120,904	-\$297,903,767	-\$168,202,876	-\$66,957,562	-2,681			
114	-\$611,120,904	-\$297,903,767	-\$168,202,876	-\$66,957,562	-2,681			
115	-\$611,120,904	-\$297,903,767	-\$168,202,876	-\$66,957,562	-2,681			
116	-\$567,266,507	-\$284,640,465	-\$169,536,723	-\$87,030,850	-3,028			
117	-\$567,266,507	-\$284,640,465	-\$169,536,723	-\$87,030,850	-3,028			
118	-\$567,266,507	-\$284,640,465	-\$169,536,723	-\$87,030,850	-3,028			
119	-\$567,266,507	-\$284,640,465	-\$169,536,723	-\$87,030,850	-3,028			
120	-\$567,266,507	-\$284,640,465	-\$169,536,723	-\$87,030,850	-3,028			
121	-\$567,266,507	-\$284,640,465	-\$169,536,723	-\$87,030,850	-3,028			
122	-\$567,266,507	-\$284,640,465	-\$169,536,723	-\$87,030,850	-3,028			
123	-\$567,266,507	-\$284,640,465	-\$169,536,723	-\$87,030,850	-3,028			
-=-	+ ,,- ,	, ,	, , , , 3	, , , , , , , , , ,	2,320			



House	Total Expenditures	Gross Product	Personal Income	Retail Sales	Employment
District	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(Permanent Jobs)
124	-\$567,266,507	-\$284,640,465	-\$169,536,723	-\$87,030,850	-3,028
125	-\$567,266,507	-\$284,640,465	-\$169,536,723	-\$87,030,850	-3,028
126	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
127	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
128	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
129	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
130	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
131	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
132	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
133	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
134	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
135	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
136	-\$189,547,810	-\$101,167,047	-\$62,242,117	-\$34,755,708	-1,148
137	-\$595,434,900	-\$270,904,110	-\$152,510,361	-\$55,248,418	-2,310
138	-\$595,434,900	-\$270,904,110	-\$152,510,361	-\$55,248,418	-2,310
139	-\$595,434,900	-\$270,904,110	-\$152,510,361	-\$55,248,418	-2,310
140	-\$595,434,900	-\$270,904,110	-\$152,510,361	-\$55,248,418	-2,310
141	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
142	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
143	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
144	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
145	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
146	-\$609,957,703	-\$277,511,527	-\$156,230,126	-\$56,595,941	-2,367
147	-\$595,434,900	-\$270,904,110	-\$152,510,361	-\$55,248,418	-2,310
148	-\$595,434,900	-\$270,904,110	-\$152,510,361	-\$55,248,418	-2,310
149	-\$595,434,900	-\$270,904,110	-\$152,510,361	-\$55,248,418	-2,310
150	-\$595,434,900	-\$270,904,110	-\$152,510,361	-\$55,248,418	-2,310
TOTAL	-\$83,796,821,951	-\$41,015,849,768	-\$23,756,480,391	-\$12,183,855,991	-413,157

NOTE: In cases in which a county was part of more than one district, allocations are based on the percentage of the population residing in a district. This convention is adopted because of a lack of subcounty data sufficient for allocation purposes. In some instances, this approach will result in districts which reflect the same proportion of a large urban county reporting identical results. Allocations reflect district maps as currently defined.



	Total	Courts by Toxac	Personal		
	Expenditures	Gross Product	Income	Retail Sales	Employment
Senate District	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(Permanent Jobs)
1	-\$3,987,486,381	-\$1,989,599,588	-\$1,147,861,010	-\$656,490,228	-20,645
2	-\$2,879,176,783	-\$1,434,716,250	-\$835,009,787	-\$438,799,240	-14,758
3	-\$3,988,343,742	-\$2,017,568,843	-\$1,192,677,840	-\$716,907,267	-22,056
4	-\$3,180,257,595	-\$1,524,914,087	-\$896,794,355	-\$444,499,536	-15,239
5	-\$1,674,217,931	-\$862,156,369	-\$510,759,163	-\$307,245,196	-9,552
6	-\$2,904,560,488	-\$1,321,483,462	-\$743,952,981	-\$269,504,480	-11,270
7	-\$2,904,560,488	-\$1,321,483,462	-\$743,952,981	-\$269,504,480	-11,270
8	-\$1,541,355,455	-\$780,779,841	-\$456,743,549	-\$227,770,816	-7,895
9	-\$2,802,592,518	-\$1,378,659,671	-\$794,050,379	-\$369,785,842	-13,369
10	-\$2,765,357,203	-\$1,364,912,132	-\$791,804,507	-\$387,842,384	-13,584
11	-\$3,038,829,322	-\$1,411,830,656	-\$816,246,033	-\$414,560,887	-13,940
12	-\$1,956,070,052	-\$950,400,297	-\$556,721,944	-\$280,478,457	-9,668
13	-\$2,699,015,672	-\$1,231,268,126	-\$693,026,643	-\$259,136,055	-10,578
14	-\$1,719,623,209	-\$887,596,050	-\$531,061,116	-\$269,534,684	-9,400
15	-\$2,759,332,464	-\$1,255,409,289	-\$706,755,332	-\$256,029,256	-10,706
16	-\$2,908,092,577	-\$1,417,611,030	-\$800,413,685	-\$318,625,641	-12,757
17	-\$2,560,848,417	-\$1,176,762,550	-\$665,702,764	-\$272,813,183	-10,432
18	-\$3,025,332,634	-\$1,471,685,366	-\$839,642,445	-\$473,869,054	-14,764
19	-\$2,578,261,234	-\$1,299,534,111	-\$764,956,746	-\$425,207,519	-13,963
20	-\$2,436,125,168	-\$1,196,326,952	-\$696,543,655	-\$379,717,693	-12,437
21	-\$1,963,367,322	-\$991,983,535	-\$569,395,327	-\$344,385,678	-10,478
22	-\$3,268,839,653	-\$1,572,898,768	-\$934,501,443	-\$541,461,507	-17,365
23	-\$2,908,092,577	-\$1,417,611,030	-\$800,413,685	-\$318,625,641	-12,757
24	-\$2,991,092,363	-\$1,519,310,402	-\$898,152,963	-\$542,390,194	-16,991
25	-\$2,403,327,670	-\$1,195,116,579	-\$707,432,253	-\$390,320,227	-12,937
26	-\$2,637,789,259	-\$1,323,578,164	-\$788,345,761	-\$404,693,450	-14,079
27	-\$1,618,307,125	-\$836,833,352	-\$497,394,821	-\$294,356,436	-9,509
28	-\$3,191,793,637	-\$1,621,575,855	-\$929,820,804	-\$543,671,985	-16,971
29	-\$2,553,893,282	-\$1,236,806,389	-\$722,816,253	-\$380,515,634	-13,053
30	-\$3,093,480,776	-\$1,570,433,224	-\$911,169,502	-\$533,317,309	-16,573
31	-\$2,857,398,952	-\$1,435,004,337	-\$812,360,664	-\$451,796,031	-14,163
TOTAL	-\$83,796,821,951	-\$41,015,849,768	-\$23,756,480,391	-\$12,183,855,991	-413,157

NOTE: In cases in which a county was part of more than one district, allocations are based on the percentage of the population residing in a district. This convention is adopted because of a lack of subcounty data sufficient for allocation purposes. In some instances, this approach will result in districts which reflect the same proportion of a large urban county reporting identical results. Allocations reflect district maps as currently defined.



The Total Annual Impact of Mortality Losses Associated with the Incidence of Cancer on Business Activity in Texas: Results by US Congressional District in Texas

US Congressional District in Texas	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
1	-\$3,225,369,818	-\$1,615,270,564	-\$932,119,344	-\$522,232,092	-16,635
2	-\$2,468,876,415	-\$1,123,260,943	-\$632,360,034	-\$229,078,808	-9,579
3	-\$1,172,593,598	-\$602,403,271	-\$356,776,462	-\$190,138,748	-6,330
4	-\$2,815,412,480	-\$1,426,499,518	-\$855,937,793	-\$543,519,871	-16,363
5	-\$2,937,228,918	-\$1,467,684,865	-\$848,323,683	-\$446,630,789	-15,007
6	-\$2,369,713,654	-\$1,156,218,145	-\$676,106,048	-\$351,304,308	-11,850
7	-\$2,468,876,415	-\$1,123,260,943	-\$632,360,034	-\$229,078,808	-9,579
8	-\$2,622,075,994	-\$1,268,149,827	-\$728,863,088	-\$364,863,273	-12,473
9	-\$2,336,007,154	-\$1,067,153,139	-\$600,591,572	-\$228,202,145	-9,203
10	-\$2,228,241,583	-\$1,076,917,132	-\$621,856,800	-\$299,585,232	-10,550
11	-\$3,139,726,648	-\$1,559,359,270	-\$887,729,102	-\$526,621,765	-16,106
12	-\$2,379,097,437	-\$1,164,816,549	-\$674,235,939	-\$343,857,256	-11,711
13	-\$2,923,002,065	-\$1,498,961,616	-\$854,040,479	-\$488,277,533	-15,222
14	-\$3,087,864,898	-\$1,478,896,839	-\$888,121,665	-\$505,194,368	-15,965
15	-\$1,404,945,979	-\$727,659,727	-\$430,087,248	-\$257,658,220	-8,114
16	-\$2,194,929,624	-\$1,062,277,898	-\$620,872,782	-\$325,224,425	-11,198
17	-\$2,399,827,138	-\$1,189,523,278	-\$697,160,611	-\$399,956,848	-12,881
18	-\$2,468,876,415	-\$1,123,260,943	-\$632,360,034	-\$229,078,808	-9,579
19	-\$2,671,905,116	-\$1,363,216,748	-\$785,878,203	-\$442,679,366	-14,129
20	-\$2,325,792,680	-\$1,167,025,908	-\$695,100,563	-\$356,826,483	-12,414
21	-\$2,321,902,877	-\$1,152,913,082	-\$678,370,067	-\$379,098,661	-12,460
22	-\$1,668,233,974	-\$782,055,867	-\$445,412,536	-\$222,940,685	-7,413
23	-\$2,152,562,986	-\$1,087,145,714	-\$636,093,692	-\$365,167,083	-11,737
24	-\$2,246,100,949	-\$1,098,278,834	-\$629,253,212	-\$279,803,731	-10,421
25	-\$2,043,060,028	-\$1,020,767,397	-\$611,521,700	-\$357,981,513	-11,441
26	-\$1,543,684,079	-\$746,805,295	-\$438,549,994	-\$222,382,516	-7,637
27	-\$3,192,519,199	-\$1,519,935,758	-\$870,577,435	-\$487,080,127	-15,272
28	-\$1,551,253,937	-\$796,691,962	-\$462,064,730	-\$268,607,277	-8,504
29	-\$2,468,876,415	-\$1,123,260,943	-\$632,360,034	-\$229,078,808	-9,579
30	-\$2,478,200,631	-\$1,208,051,139	-\$682,091,662	-\$271,524,460	-10,871
31	-\$1,178,196,597	-\$628,607,634	-\$386,742,619	-\$223,164,894	-7,276
32	-\$2,388,666,808	-\$1,166,482,246	-\$659,743,215	-\$265,871,750	-10,558
33	-\$2,406,600,835	-\$1,180,120,676	-\$675,055,638	-\$298,728,655	-11,157
34	-\$1,734,401,155	-\$890,634,969	-\$523,351,037	-\$316,778,100	-9,952
35	-\$1,889,266,506	-\$953,883,421	-\$567,111,090	-\$298,715,147	-10,195
36	-\$2,892,930,948	-\$1,398,397,710	-\$807,300,244	-\$416,923,436	-13,797
TOTAL	-\$83,796,821,951	-\$41,015,849,768	-\$23,756,480,391	-\$12,183,855,991	-413,157

NOTE: In cases in which a county was part of more than one district, allocations are based on the percentage of the population residing in a district. This convention is adopted because of a lack of subcounty data sufficient for allocation purposes. In some instances, this approach will result in districts which reflect the same proportion of a large urban county reporting identical results. Allocations reflect district maps as currently defined.





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Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)			
Agriculture	(\$2,443,235,567)	(\$706,479,428)	(\$440,131,915)	(7,675)			
Mining	(\$12,613,307,523)	(\$5,697,893,646)	(\$2,004,918,190)	(8,378)			
Construction	(\$5,689,805,864)	(\$2,800,650,924)	(\$2,155,359,795)	(32,889)			
Nondurable Manufacturing	(\$20,113,662,926)	(\$5,589,008,757)	(\$2,937,336,075)	(35,128)			
Durable Manufacturing	(\$8,970,720,824)	(\$3,700,651,136)	(\$2,476,170,545)	(25,937)			
Transportation and Utilities	(\$16,882,488,071)	(\$5,846,207,990)	(\$3,346,122,290)	(36,978)			
Information	(\$4,319,131,758)	(\$2,814,827,638)	(\$1,234,560,808)	(11,357)			
Wholesale Trade	(\$5,867,282,735)	(\$4,415,010,465)	(\$2,494,787,102)	(28,946)			
Retail Trade (including Restaurants)	(\$23,933,428,464)	(\$18,377,221,869)	(\$10,617,638,423)	(333,939)			
FIRE	(\$34,356,335,379)	(\$10,623,098,760)	(\$3,987,015,309)	(40,015)			
Business Services	(\$10,531,617,751)	(\$7,387,540,515)	(\$5,992,169,937)	(71,374)			
Health Services	(\$13,221,057,564)	(\$10,099,961,435)	(\$8,355,472,648)	(142,420)			
Other Services	(\$10,920,853,129)	(\$5,731,856,955)	(\$4,427,580,308)	(104,786)			
TOTAL	(\$169,862,927,553)	(\$83,790,409,518)	(\$50,469,263,345)	(879,824)			
SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group							



Economic Region	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
High Plains	(\$5,794,094,423)	(\$2,970,769,646)	(\$1,788,865,980)	(\$938,943,831)	-32,242
Northwest Texas	(\$5,247,005,115)	(\$2,711,208,879)	(\$1,610,939,690)	(\$879,590,135)	-29,125
Metroplex	(\$43,537,718,002)	(\$21,521,557,316)	(\$12,918,374,212)	(\$5,808,262,268)	-221,584
Upper East Texas	(\$10,549,360,286)	(\$5,346,890,453)	(\$3,232,018,780)	(\$1,729,626,398)	-58,669
Southeast Texas	(\$7,055,170,659)	(\$3,584,792,954)	(\$2,245,733,557)	(\$1,242,930,221)	-41,251
Gulf Coast	(\$42,653,753,944)	(\$19,842,057,842)	(\$11,734,999,567)	(\$4,650,351,142)	-189,901
Capital	(\$8,392,991,946)	(\$4,351,174,559)	(\$2,680,075,262)	(\$1,316,794,407)	-47,910
Central Texas	(\$7,666,548,116)	(\$3,899,961,166)	(\$2,395,415,998)	(\$1,310,454,959)	-44,787
Alamo	(\$17,482,662,507)	(\$8,785,555,762)	(\$5,370,471,402)	(\$2,670,764,640)	-96,586
South Texas	(\$11,888,406,609)	(\$6,034,032,910)	(\$3,667,448,595)	(\$1,963,170,585)	-67,468
West Texas	(\$4,246,857,546)	(\$2,118,514,742)	(\$1,239,006,917)	(\$662,877,138)	-21,895
Upper Rio Grande	(\$5,348,358,399)	(\$2,623,893,292)	(\$1,585,913,385)	(\$759,662,741)	-28,404
TOTAL STATE IMPACT	(\$169,862,927,553)	(\$83,790,409,518)	(\$50,469,263,345)	(\$23,933,428,464)	-879,824
SOURCE: US Multi-Re	egional Impact Assessme	nt System, The Perryma	n Group		



	Total Expenditures	Gross Product	Personal Income	Retail Sales	Employment (Permanent
COG	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	Jobs)
Panhandle	(\$3,040,675,952)	(\$1,538,796,184)	(\$913,577,974)	(\$485,448,429)	-16,334
South Plains	(\$2,753,418,471)	(\$1,431,973,461)	(\$875,288,006)	(\$453,495,402)	-15,908
Nortex	(\$2,135,790,970)	(\$1,123,117,599)	(\$667,685,373)	(\$364,543,757)	-12,030
North Central Texas	(\$41,763,115,873)	(\$20,604,540,248)	(\$12,345,711,745)	(\$5,489,317,346)	-210,919
Ark-Tex	(\$2,398,829,684)	(\$1,224,440,845)	(\$762,088,119)	(\$440,924,345)	-14,367
East Texas	(\$8,150,530,602)	(\$4,122,449,609)	(\$2,469,930,661)	(\$1,288,702,053)	-44,302
West Central Texas	(\$3,111,214,146)	(\$1,588,091,280)	(\$943,254,317)	(\$515,046,377)	-17,095
Rio Grande	(\$5,348,358,399)	(\$2,623,893,292)	(\$1,585,913,385)	(\$759,662,741)	-28,404
Permian Basin	(\$2,897,063,627)	(\$1,451,332,376)	(\$850,535,104)	(\$450,278,950)	-14,779
Concho Valley	(\$1,349,793,919)	(\$667,182,366)	(\$388,471,813)	(\$212,598,187)	-7,116
Heart of Texas	(\$3,247,451,771)	(\$1,591,469,258)	(\$966,923,821)	(\$517,913,842)	-17,988
Capital Area	(\$8,392,991,946)	(\$4,351,174,559)	(\$2,680,075,262)	(\$1,316,794,407)	-47,910
Brazos Valley	(\$1,876,906,163)	(\$964,277,248)	(\$582,984,749)	(\$322,952,489)	-10,774
Deep East Texas	(\$3,474,586,465)	(\$1,796,999,807)	(\$1,116,758,748)	(\$636,707,272)	-20,916
South East Texas	(\$3,580,584,193)	(\$1,787,793,148)	(\$1,128,974,810)	(\$606,222,949)	-20,336
Houston-Galveston Area	(\$42,653,753,944)	(\$19,842,057,842)	(\$11,734,999,567)	(\$4,650,351,142)	-189,901
Golden Crescent	(\$1,656,792,290)	(\$830,379,813)	(\$501,768,462)	(\$269,044,335)	-8,966
Alamo Area	(\$15,828,556,224)	(\$7,956,425,310)	(\$4,869,381,997)	(\$2,402,011,391)	-87,631
South Texas	(\$1,143,176,331)	(\$606,754,321)	(\$361,128,216)	(\$212,688,017)	-6,743
Coastal Bend	(\$4,868,590,720)	(\$2,333,531,880)	(\$1,387,987,357)	(\$721,984,016)	-24,496
Lower Rio Grande Valley	(\$4,977,575,085)	(\$2,617,372,873)	(\$1,625,774,982)	(\$857,769,695)	-30,614
Texoma	(\$1,774,602,129)	(\$917,017,068)	(\$572,662,468)	(\$318,944,922)	-10,665
Central Texas	(\$2,542,190,181)	(\$1,344,214,659)	(\$845,507,427)	(\$469,588,627)	-16,025
Middle Rio Grande	(\$896,378,466)	(\$475,124,475)	(\$291,878,983)	(\$170,437,772)	-5,605
Border Region	(\$12,370,416,000)	(\$6,325,984,888)	(\$3,866,461,047)	(\$2,001,473,299)	-71,397
TOTAL STATE IMPACT	(\$169,862,927,553)	(\$83,790,409,518)	(\$50,469,263,345)	(\$23,933,428,464)	-879,824
SOURCE: US Multi-Regiona	(, , , , ,	(, , , , ,	(, , , , ,	,	, ,



The Total Annual Impact of Losses (Treatment, Morbidity, and Mortality) Associated with the Incidence of Cancer on Business Activity in Texas: Metropolitan Statistical Area (MSA) and Rural Texas Results

	Metropolitan Sta	atistical Area (I	MSA) and Rural	Texas Results				
	Total Expenditures	Gross Product	Personal Income	Retail Sales	Employment (Permanent			
MSA Abilene	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	Jobs)			
	(\$1,523,183,606)	(\$761,748,995)	(\$449,534,701)	(\$222,359,802)	-7,899			
Amarillo	(\$1,975,826,852)	(\$1,027,376,238)	(\$613,290,973)	(\$309,020,743)	-10,928			
Austin-Round Rock Beaumont-Port	(\$7,110,196,317)	(\$3,715,760,529)	(\$2,301,109,253)	(\$1,111,378,690)	-40,951			
Arthur	(\$3,651,044,255)	(\$1,831,268,557)	(\$1,157,698,422)	(\$624,726,096)	-20,881			
Brownsville- Harlingen	(\$2,011,153,114)	(\$1,026,552,331)	(\$634,170,119)	(\$336,054,565)	-11,995			
College Station- Bryan	(\$1,186,310,159)	(\$605,073,285)	(\$365,573,894)	(\$195,217,272)	-6,712			
Corpus Christi	(\$3,898,097,972)	(\$1,828,252,275)	(\$1,090,057,183)	(\$547,918,652)	-18,996			
Dallas-Plano-Irving MD*	(\$25,423,083,575)	(\$12,503,513,616)	(\$7,443,246,247)	(\$3,153,167,073)	-124,918			
Fort Worth- Arlington MD*	(\$15,333,126,421)	(\$7,596,010,373)	(\$4,592,528,553)	(\$2,165,119,065)	-80,206			
El Paso	(\$5,213,779,245)	(\$2,553,113,907)	(\$1,542,258,956)	(\$733,873,652)	-27,576			
Houston-The Woodlands-Sugar Land	(\$41,226,590,650)	(\$19,115,667,988)	(\$11,289,285,250)	(\$4,391,839,610)	-181,531			
Killeen-Temple	(\$2,164,697,739)	(\$1,148,198,971)	(\$723,321,229)	(\$394,824,199)	-13,682			
Laredo	(\$866,761,938)	(\$455,379,961)	(\$268,193,585)	(\$151,079,820)	-4,916			
Longview	(\$2,045,285,771)	(\$1,052,924,399)	(\$635,511,588)	(\$324,152,376)	-11,212			
Lubbock	(\$2,080,633,027)	(\$1,089,284,299)	(\$671,541,188)	(\$326,579,239)	-12,088			
McAllen-Edinburg- Mission	(\$2,872,837,396)	(\$1,538,296,498)	(\$959,618,717)	(\$501,887,019)	-18,004			
Midland	(\$858,786,849)	(\$435,063,571)	(\$253,092,987)	(\$126,424,108)	-4,298			
Odessa	(\$1,063,773,082)	(\$530,573,406)	(\$317,675,311)	(\$161,141,669)	-5,471			
San Angelo	(\$956,569,663)	(\$470,010,477)	(\$272,206,374)	(\$143,944,651)	-4,991			
San Antonio-New Braunfels	(\$14,676,026,012)	(\$7,385,797,795)	(\$4,527,502,924)	(\$2,210,610,741)	-81,259			
Sherman-Denison	(\$1,070,971,560)	(\$563,299,666)	(\$354,741,011)	(\$202,054,840)	-6,734			
Texarkana	(\$806,933,669)	(\$427,893,780)	(\$268,014,913)	(\$147,583,288)	-5,008			
Tyler	(\$1,993,631,142)	(\$988,643,593)	(\$574,939,790)	(\$286,345,181)	-10,101			
Victoria	(\$871,743,027)	(\$432,797,413)	(\$259,621,878)	(\$132,921,814)	-4,500			
Waco	(\$2,318,187,433)	(\$1,132,120,831)	(\$689,413,811)	(\$352,504,741)	-12,697			
Wichita Falls	(\$1,329,310,203)	(\$714,923,706)	(\$425,935,080)	(\$224,240,695)	-7,599			
Rural Area	(\$25,334,386,876)	(\$12,860,863,056)	(\$7,789,179,409)	(\$4,456,458,863)	-144,669			
TOTAL STATE	(\$169,862,927,553)	(\$83,790,409,518)	(\$50,469,263,345)	(\$23,933,428,464)	-879,824			
*Metropolitan Division SOURCE: US Multi-Re	INIFACI							



		County	Results		
	Total				Employment
Country	Expenditures	Gross Product	Personal Income	Retail Sales	(Permanent
County Anderson	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	Jobs) -3,117
Andrews	-\$524,596,562	-\$286,186,615	-\$172,210,924	-\$92,265,743	
	-\$89,666,173	-\$45,936,970	-\$26,329,911	-\$13,941,585	-449
Angelina	-\$713,758,334	-\$361,768,929	-\$227,152,510	-\$125,545,908	-4,241
Aransas	-\$357,047,300	-\$164,956,932	-\$93,905,873	-\$53,007,512	-1,668
Archer	-\$57,602,574	-\$29,420,419	-\$16,547,303	-\$9,976,660	-306
Armstrong	-\$18,308,874	-\$9,331,260	-\$5,625,419	-\$2,122,734	-94
Atascosa	-\$335,537,193	-\$163,219,907	-\$96,843,124	-\$48,975,928	-1,676
Austin	-\$253,579,734	-\$120,164,329	-\$73,325,183	-\$33,168,353	-1,214
Bailey	-\$34,327,668	-\$17,688,085	-\$10,742,180	-\$7,026,987	-203
Bandera	-\$205,469,621	-\$99,034,299	-\$58,315,110	-\$35,238,923	-1,102
Bastrop	-\$513,757,802	-\$253,419,555	-\$154,273,537	-\$88,395,768	-2,910
Baylor	-\$60,549,962	-\$32,335,080	-\$19,548,683	-\$10,929,789	-359
Bee	-\$176,626,410	-\$94,119,035	-\$55,981,222	-\$32,401,593	-1,044
Bell	-\$1,619,616,599	-\$869,844,233	-\$551,857,313	-\$294,273,864	-10,352
Bexar	-\$11,743,147,512	-\$5,950,480,771	-\$3,663,408,933	-\$1,714,638,053	-64,994
Blanco	-\$79,863,381	-\$38,369,550	-\$22,833,900	-\$13,233,626	-436
Borden	-\$18,067,256	-\$8,712,488	-\$4,836,471	-\$2,349,504	-77
Bosque	-\$180,561,912	-\$90,527,507	-\$56,806,025	-\$28,217,674	-1,040
Bowie	-\$806,933,669	-\$427,893,780	-\$268,014,913	-\$147,583,288	-5,008
Brazoria	-\$1,824,636,587	-\$874,027,007	-\$532,189,222	-\$296,778,249	-9,555
Brazos	-\$870,345,904	-\$442,780,039	-\$266,774,640	-\$133,041,856	-4,842
Brewster	-\$61,967,470	-\$34,151,583	-\$21,528,608	-\$11,557,234	-403
Briscoe	-\$13,321,046	-\$6,193,634	-\$3,625,940	-\$2,298,931	-67
Brooks	-\$40,279,967	-\$22,236,707	-\$13,721,329	-\$8,361,834	-260
Brown	-\$327,046,803	-\$179,229,987	-\$112,908,054	-\$70,536,839	-2,229
Burleson	-\$161,652,482	-\$85,356,180	-\$50,907,401	-\$30,460,673	-929
Burnet	-\$425,240,342	-\$205,857,760	-\$123,178,830	-\$67,251,921	-2,254
Caldwell	-\$307,209,960	-\$154,926,819	-\$93,334,282	-\$49,781,998	-1,691
Calhoun	-\$113,811,837	-\$46,912,299	-\$27,820,935	-\$15,018,618	-481
Callahan	-\$152,330,104	-\$73,998,807	-\$42,626,176	-\$24,398,241	-776
Cameron	-\$2,011,153,114	-\$1,026,552,331	-\$634,170,119	-\$336,054,565	-11,995
Camp	-\$93,009,301	-\$46,646,080	-\$29,032,150	-\$15,652,409	-544
Carson	-\$22,735,408	-\$9,407,136	-\$4,693,110	-\$1,766,709	-75
Cass	-\$264,708,696	-\$135,059,828	-\$83,808,482	-\$53,327,899	-1,606
Castro	-\$25,184,058	-\$12,000,568	-\$7,238,720	-\$4,937,177	-143
Chambers	-\$218,179,512	-\$92,185,982	-\$51,782,622	-\$23,713,067	-847
Cherokee	-\$372,364,267	-\$191,106,535	-\$122,207,563	-\$68,139,354	-2,282
Childress	-\$58,976,652	-\$29,863,487	-\$18,032,386	-\$11,288,270	-349
Clay	-\$98,983,838	-\$50,389,019	-\$31,280,790	-\$15,077,048	-545
Cochran	-\$16,702,296	-\$8,741,624	-\$4,749,051	-\$2,219,012	-80
Coke	-\$53,062,135	-\$25,698,780	-\$14,825,795	-\$8,474,026	-256
CORE	-დაა,სხ∠, 135	-⊅∠5,696,780	-φ14,6∠0,795	-φ0,474,U2b	-250



		County	Results		
	Total				Employment
Country	Expenditures	Gross Product	Personal Income	Retail Sales	(Permanent
County	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	Jobs)
Collin	-\$117,953,711	-\$61,249,799	-\$35,882,986	-\$20,067,991	-651
	-\$3,115,351,366	-\$1,608,301,045	-\$988,662,263	-\$484,539,296	-17,467
Collingsworth	-\$29,011,214	-\$15,906,874	-\$9,806,527	-\$5,963,283	-179
Colorado	-\$206,750,848	-\$105,741,258	-\$64,302,375	-\$38,565,189	-1,265
Comal	-\$825,139,266	-\$406,001,554	-\$246,120,294	-\$137,461,624	-4,719
Comanche	-\$140,802,739	-\$72,512,869	-\$45,243,918	-\$25,155,101	-843
Concho	-\$22,114,328	-\$11,912,063	-\$7,771,009	-\$3,826,253	-144
Cooke	-\$374,959,618	-\$185,765,162	-\$111,586,076	-\$58,412,796	-1,934
Coryell	-\$355,490,000	-\$181,799,049	-\$111,894,820	-\$65,162,079	-2,162
Cottle	-\$18,012,576	-\$10,413,486	-\$6,469,314	-\$3,137,699	-111
Crane	-\$19,035,126	-\$10,346,311	-\$5,999,293	-\$2,822,979	-104
Crockett	-\$23,562,535	-\$12,086,191	-\$6,861,911	-\$5,106,618	-133
Crosby	-\$46,521,620	-\$25,325,007	-\$15,107,500	-\$6,254,675	-259
Culberson	-\$12,684,929	-\$7,461,475	-\$4,546,754	-\$3,583,584	-94
Dallam	-\$28,990,945	-\$15,309,809	-\$9,260,939	-\$4,682,568	-170
Dallas	-\$16,852,326,811	-\$8,229,962,671	-\$4,818,287,802	-\$1,815,270,950	-77,822
Dawson	-\$107,724,509	-\$53,816,961	-\$30,199,639	-\$18,579,546	-550
Deaf Smith	-\$67,766,164	-\$32,921,270	-\$19,819,122	-\$9,884,424	-361
Delta	-\$42,055,639	-\$22,056,461	-\$13,913,612	-\$5,011,908	-235
Denton	-\$2,863,695,979	-\$1,392,721,019	-\$851,195,064	-\$402,383,660	-14,928
DeWitt	-\$221,726,756	-\$112,929,216	-\$69,894,307	-\$38,463,615	-1,296
Dickens	-\$25,928,802	-\$13,618,216	-\$8,386,241	-\$4,999,954	-152
Dimmit	-\$50,623,340	-\$26,517,130	-\$15,836,288	-\$10,213,236	-305
Donley	-\$37,279,952	-\$21,104,425	-\$13,350,575	-\$8,988,869	-270
Duval	-\$83,795,143	-\$41,336,042	-\$23,793,204	-\$11,857,637	-423
Eastland	-\$209,216,871	-\$104,126,190	-\$61,099,145	-\$37,627,431	-1,142
Ector	-\$1,063,773,082	-\$530,573,406	-\$317,675,311	-\$161,141,669	-5,471
Edwards	-\$18,046,981	-\$8,848,503	-\$4,852,168	-\$3,129,687	-89
El Paso	-\$5,207,832,582	-\$2,550,083,213	-\$1,540,512,935	-\$732,071,374	-27,537
Ellis	-\$890,496,639	-\$416,541,529	-\$253,235,967	-\$144,814,110	-4,634
Erath	-\$233,831,929	-\$127,287,122	-\$80,765,162	-\$48,557,631	-1,579
Falls	-\$161,899,244	-\$86,465,847	-\$54,659,884	-\$29,474,326	-1,027
Fannin	-\$328,670,950	-\$167,952,239	-\$106,335,381	-\$58,477,286	-1,997
Fayette	-\$311,967,463	-\$159,724,837	-\$94,436,555	-\$46,587,009	-1,673
Fisher	-\$38,480,090	-\$20,262,751	-\$12,362,444	-\$7,702,032	-239
Floyd	-\$35,127,694	-\$16,020,740	-\$9,545,005	-\$4,584,436	-171
Foard	-\$5,901,199	-\$3,339,917	-\$2,199,263	-\$1,077,950	-41
Fort Bend	-\$2,758,529,113	-\$1,298,084,581	-\$760,934,363	-\$360,914,935	-12,760
Franklin	-\$90,103,654	-\$45,129,577	-\$25,898,787	-\$15,200,464	-478
Freestone	-\$184,505,788	-\$91,460,711	-\$52,218,375	-\$33,566,145	-972
Frio	-\$105,455,522				
FIIU	-\$1U5,455,522	-\$51,451,482	-\$29,673,636	-\$16,260,592	-533



		County	Results		
	Total				Employment
Country	Expenditures	Gross Product	Personal Income	Retail Sales	(Permanent
County Gaines	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	Jobs)
	-\$78,142,624	-\$37,199,208	-\$20,226,624	-\$11,705,975	-354
Galveston	-\$2,735,507,962	-\$1,298,988,462	-\$788,364,956	-\$410,261,630	-14,163
Garza	-\$39,200,509	-\$18,992,542	-\$10,820,960	-\$6,567,474	-192
Gillespie	-\$292,216,804	-\$145,110,252	-\$89,453,753	-\$49,513,445	-1,688
Glasscock	-\$2,360,465	-\$1,107,587	-\$578,254	-\$200,689	-9
Goliad	-\$63,809,740	-\$34,255,874	-\$20,595,454	-\$13,886,338	-396
Gonzales	-\$114,684,320	-\$59,162,505	-\$36,875,482	-\$21,040,425	-696
Gray	-\$244,359,777	-\$116,060,155	-\$68,790,476	-\$38,658,702	-1,203
Grayson	-\$1,070,971,560	-\$563,299,666	-\$354,741,011	-\$202,054,840	-6,734
Gregg	-\$1,197,407,472	-\$633,422,644	-\$384,613,585	-\$188,915,167	-6,726
Grimes	-\$162,811,781	-\$82,557,194	-\$50,488,563	-\$28,782,387	-932
Guadalupe	-\$696,321,569	-\$345,399,744	-\$210,341,666	-\$129,040,385	-3,995
Hale	-\$172,559,559	-\$93,360,658	-\$58,541,028	-\$39,186,167	-1,165
Hall	-\$35,965,521	-\$18,247,042	-\$10,877,991	-\$6,421,540	-203
Hamilton	-\$85,242,953	-\$42,802,230	-\$26,727,038	-\$17,111,441	-523
Hansford	-\$21,882,138	-\$9,629,360	-\$4,898,972	-\$2,279,082	-75
Hardeman	-\$33,282,201	-\$18,238,725	-\$11,166,552	-\$8,302,019	-230
Hardin	-\$467,999,497	-\$231,344,646	-\$137,302,648	-\$81,407,223	-2,518
Harris	-\$29,176,082,504	-\$13,365,513,908	-\$7,851,739,742	-\$2,695,058,043	-121,916
Harrison	-\$662,251,925	-\$311,130,770	-\$186,113,712	-\$84,081,877	-3,091
Hartley	-\$9,886,340	-\$4,832,163	-\$2,865,298	-\$1,715,490	-57
Haskell	-\$64,458,085	-\$33,466,742	-\$20,401,454	-\$10,772,588	-367
Hays	-\$663,235,178	-\$339,811,783	-\$209,439,631	-\$111,780,022	-3,877
Hemphill	-\$14,749,427	-\$6,905,384	-\$3,752,609	-\$1,900,922	-62
Henderson	-\$995,843,775	-\$488,874,530	-\$293,745,716	-\$158,155,828	-5,436
Hidalgo	-\$2,872,837,396	-\$1,538,296,498	-\$959,618,717	-\$501,887,019	-18,004
Hill	-\$362,244,957	-\$172,044,952	-\$103,328,056	-\$64,982,222	-2,068
Hockley	-\$137,237,693	-\$70,445,449	-\$41,322,702	-\$24,363,898	-767
Hood	-\$546,671,664	-\$264,122,191	-\$162,524,437	-\$91,740,501	-3,044
Hopkins	-\$271,985,078	-\$142,099,683	-\$88,633,555	-\$55,933,948	-1,707
Houston	-\$295,271,484	-\$145,883,714	-\$91,504,949	-\$38,379,713	-1,527
Howard	-\$316,764,652	-\$154,001,464	-\$91,110,392	-\$48,468,113	-1,600
Hudspeth	-\$5,946,663	-\$3,030,695	-\$1,746,021	-\$1,802,278	-39
Hunt	-\$628,930,391	-\$319,083,038	-\$198,725,734	-\$122,171,061	-3,815
Hutchinson	-\$193,111,104	-\$89,904,572	-\$51,836,354	-\$35,696,127	-926
Irion	-\$8,531,991	-\$3,495,281	-\$1,869,741	-\$1,078,976	-31
Jack	-\$76,357,007	-\$37,948,346	-\$22,120,768	-\$13,011,339	-391
Jackson	-\$116,974,637	-\$60,141,688	-\$33,967,716	-\$21,465,970	-625
Jasper	-\$325,324,114	-\$168,324,991	-\$104,999,298	-\$63,620,562	-2,035
Jeff Davis	-\$20,794,711	-\$10,421,928	-\$6,387,815	-\$3,600,321	-2,033
Jefferson	-\$2,362,587,059	-\$1,184,450,819	-\$758,011,563	-\$391,566,107	-13,558



County Results						
	Total				Employment	
0	Expenditures	Gross Product	Personal Income	Retail Sales	(Permanent	
County Jim Hogg	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	Jobs)	
	-\$42,733,764	-\$21,541,334	-\$11,997,741	-\$8,630,387	-225	
Jim Wells	-\$252,587,796	-\$139,936,936	-\$83,184,474	-\$47,751,560	-1,538	
Johnson	-\$1,064,434,245	-\$532,141,789	-\$336,165,817	-\$180,792,595	-6,205	
Jones	-\$182,434,279	-\$92,861,648	-\$55,210,386	-\$27,652,399	-986	
Karnes	-\$152,628,227	-\$70,697,319	-\$40,826,852	-\$21,949,506	-711	
Kaufman	-\$705,912,523	-\$349,047,275	-\$216,692,789	-\$121,991,615	-4,098	
Kendall	-\$284,440,701	-\$133,257,456	-\$79,417,359	-\$44,377,125	-1,445	
Kenedy	-\$7,150,614	-\$3,571,024	-\$1,958,296	-\$1,572,230	-42	
Kent	-\$6,608,994	-\$3,129,900	-\$1,776,845	-\$940,657	-30	
Kerr	-\$599,543,653	-\$302,119,101	-\$181,245,774	-\$103,386,021	-3,430	
Kimble	-\$61,260,376	-\$27,026,012	-\$15,292,922	-\$9,466,571	-280	
King	-\$6,971,065	-\$3,542,458	-\$2,157,969	-\$840,945	-36	
Kinney	-\$38,745,650	-\$18,311,612	-\$9,984,119	-\$5,996,537	-184	
Kleberg	-\$224,640,793	-\$114,285,607	-\$67,597,729	-\$36,881,176	-1,233	
Knox	-\$39,256,064	-\$20,744,553	-\$12,081,851	-\$5,543,682	-204	
La Salle	-\$30,026,572	-\$16,229,961	-\$9,541,952	-\$6,241,468	-187	
Lamar	-\$457,898,162	-\$230,020,484	-\$144,964,718	-\$86,118,166	-2,803	
Lamb	-\$75,544,390	-\$35,282,373	-\$21,498,463	-\$12,644,022	-388	
Lampasas	-\$189,591,139	-\$96,555,688	-\$59,569,096	-\$35,388,256	-1,168	
Lavaca	-\$217,851,713	-\$118,436,692	-\$73,588,145	-\$40,133,892	-1,368	
Lee	-\$141,647,159	-\$71,277,247	-\$42,023,250	-\$22,677,767	-749	
Leon	-\$130,866,775	-\$69,259,544	-\$40,224,900	-\$27,858,556	-770	
Liberty	-\$689,200,622	-\$356,570,280	-\$216,780,814	-\$110,616,486	-3,836	
Limestone	-\$201,951,681	-\$105,315,257	-\$65,157,553	-\$38,643,061	-1,211	
Lipscomb	-\$21,551,196	-\$10,078,710	-\$5,325,936	-\$2,486,864	-88	
Live Oak	-\$118,961,497	-\$56,738,610	-\$33,500,225	-\$20,307,663	-604	
Llano	-\$324,077,285	-\$160,184,635	-\$96,493,473	-\$55,665,395	-1,846	
Loving	-\$3,912,772	-\$1,737,902	-\$796,919	-\$290,152	-11	
Lubbock	-\$2,005,346,913	-\$1,049,919,567	-\$648,096,406	-\$317,119,780	-11,690	
Lynn	-\$28,764,494	-\$14,039,725	-\$8,337,282	-\$3,204,783	-139	
Madison	-\$93,029,556	-\$47,994,788	-\$28,457,732	-\$19,231,807	-567	
Marion	-\$128,577,494	-\$66,054,571	-\$39,926,370	-\$24,039,759	-774	
Martin	-\$33,130,794	-\$15,860,148	-\$9,172,591	-\$4,568,060	-153	
Mason	-\$53,448,115	-\$26,585,424	-\$15,181,711	-\$8,451,352	-278	
Matagorda	-\$321,789,349	-\$148,438,927	-\$89,366,641	-\$56,363,391	-1,638	
Maverick	-\$228,952,177	-\$118,429,984	-\$71,617,943	-\$43,421,310	-1,400	
McCulloch	-\$86,924,180	-\$45,463,756	-\$28,530,815	-\$16,156,038	-530	
McLennan	-\$2,156,288,190	-\$1,045,654,985	-\$634,753,927	-\$323,030,414	-11,670	
McMullen	-\$2,686,007	-\$1,249,362	-\$679,057	-\$291,086	-11	
Medina	-\$297,596,200	-\$143,972,443	-\$85,526,448	-\$50,230,408	-1,641	
Menard						
IVIEIIAIU	-\$26,351,916	-\$13,677,624	-\$7,756,097	-\$5,106,618	-143	



	County Results						
	Total				Employment		
Country	Expenditures	Gross Product	Personal Income	Retail Sales	(Permanent		
County Midland	(2016 Dollars) -\$825,656,056	(2016 Dollars) -\$419,203,423	(2016 Dollars) -\$243,920,395	(2016 Dollars) -\$121,856,048	Jobs) -4,145		
Milam		-\$101,587,460			-1,180		
Mills	-\$200,678,283		-\$62,959,611	-\$37,192,587	·		
	-\$38,334,897	-\$23,100,890	-\$15,027,289	-\$9,172,130	-292		
Martania	-\$80,925,755	-\$42,211,217	-\$25,051,761	-\$14,135,844	-451		
Montague	-\$243,640,977	-\$119,718,699	-\$69,030,918	-\$39,210,280	-1,277		
Montgomery	-\$3,304,827,582	-\$1,592,609,517	-\$947,750,596	-\$418,624,500	-15,989		
Moore	-\$110,122,441	-\$47,844,293	-\$27,296,110	-\$15,031,615	-467		
Morris	-\$120,037,323	-\$53,144,686	-\$32,837,470	-\$13,896,318	-547		
Motley	-\$16,924,040	-\$8,084,795	-\$4,508,202	-\$2,627,399	-82		
Nacogdoches	-\$430,998,192	-\$230,997,373	-\$146,559,089	-\$87,559,173	-2,893		
Navarro	-\$447,440,898	-\$223,898,304	-\$139,512,780	-\$71,915,211	-2,587		
Newton	-\$70,460,062	-\$43,475,410	-\$28,723,613	-\$18,503,147	-545		
Nolan	-\$170,143,919	-\$89,541,296	-\$52,449,050	-\$28,925,459	-945		
Nueces	-\$3,000,454,691	-\$1,407,102,008	-\$841,814,461	-\$403,184,389	-14,489		
Ochiltree	-\$43,991,760	-\$20,919,310	-\$11,738,041	-\$6,213,578	-198		
Oldham	-\$3,185,432	-\$1,766,366	-\$1,111,101	-\$965,332	-25		
Orange	-\$749,997,638	-\$371,997,683	-\$233,660,599	-\$133,249,619	-4,260		
Palo Pinto	-\$325,633,050	-\$153,830,833	-\$89,659,002	-\$50,558,366	-1,631		
Panola	-\$229,605,488	-\$116,827,409	-\$69,758,151	-\$37,169,473	-1,242		
Parker	-\$868,611,366	-\$407,968,728	-\$242,068,553	-\$134,265,813	-4,415		
Parmer	-\$20,467,368	-\$9,225,263	-\$5,516,185	-\$1,770,753	-93		
Pecos	-\$94,020,528	-\$47,131,924	-\$27,142,631	-\$17,320,590	-512		
Polk	-\$615,450,749	-\$317,705,298	-\$188,665,946	-\$110,405,089	-3,426		
Potter	-\$1,085,931,896	-\$567,009,017	-\$336,854,852	-\$165,202,955	-5,932		
Presidio	-\$39,132,044	-\$18,744,398	-\$11,191,253	-\$7,047,949	-212		
Rains	-\$110,679,378	-\$51,335,444	-\$29,043,644	-\$20,024,044	-547		
Randall	-\$845,665,241	-\$439,862,459	-\$265,006,492	-\$138,963,013	-4,802		
Reagan	-\$16,092,601	-\$8,240,268	-\$4,528,101	-\$3,115,896	-80		
Real	-\$50,018,340	-\$23,198,192	-\$13,309,469	-\$7,465,835	-238		
Red River	-\$165,682,366	-\$80,617,677	-\$48,411,102	-\$27,457,197	-908		
Reeves	-\$84,255,246	-\$43,145,048	-\$24,969,312	-\$17,469,923	-481		
Refugio	-\$66,450,528	-\$33,055,645	-\$18,193,694	-\$14,931,670	-356		
Roberts	-\$4,022,089	-\$1,801,380	-\$980,935	-\$811,223	-19		
Robertson	-\$154,311,773	-\$76,937,066	-\$47,891,853	-\$31,714,743	-941		
Rockwall	-\$366,369,865	-\$187,857,038	-\$116,446,629	-\$61,996,381	-2,153		
Runnels	-\$131,810,664	-\$59,596,587	-\$33,897,436	-\$18,666,267	-599		
Rusk	-\$462,591,109	-\$225,946,122	-\$135,861,246	-\$68,761,656	-2,389		
Sabine	-\$114,551,573	-\$57,463,923	-\$37,147,137	-\$21,686,614	-698		
San Augustine	-\$110,077,637	-\$53,620,346	-\$31,395,814	-\$17,267,736	-576		
San Jacinto	-\$232,679,339	-\$114,698,596	-\$69,897,018	-\$41,659,426	-1,323		
San Patricio	-\$540,595,981	-\$256,193,335	-\$154,336,849	-\$91,726,751	-2,839		
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County Results						
	Total				Employment	
Country	Expenditures	Gross Product	Personal Income	Retail Sales	(Permanent	
County San Saba	(2016 Dollars) -\$53,236,310	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	Jobs) -348	
		-\$28,525,109	-\$17,472,261	-\$11,288,270		
Schleicher	-\$14,576,820	-\$7,563,175	-\$4,552,498	-\$1,584,409	-76	
Scurry	-\$119,235,160	-\$64,527,908	-\$36,749,072	-\$24,480,089	-689	
Shackelford	-\$29,131,374	-\$14,621,447	-\$8,175,265	-\$4,591,320	-145	
Shelby	-\$177,254,869	-\$95,811,705	-\$62,675,165	-\$36,758,409	-1,203	
Sherman	-\$6,180,494	-\$2,790,844	-\$1,612,126	-\$852,802	-30	
Smith	-\$1,993,631,142	-\$988,643,593	-\$574,939,790	-\$286,345,181	-10,101	
Somervell	-\$36,469,743	-\$17,272,976	-\$11,006,115	-\$4,020,947	-194	
Starr	-\$179,041,727	-\$101,409,617	-\$64,025,561	-\$41,958,092	-1,278	
Stephens	-\$87,290,382	-\$47,235,146	-\$27,687,752	-\$18,563,022	-515	
Sterling	-\$4,060,294	-\$2,311,558	-\$1,401,716	-\$1,034,771	-27	
Stonewall	-\$14,472,829	-\$8,093,659	-\$4,780,846	-\$3,142,788	-91	
Sutton	-\$31,770,956	-\$16,607,038	-\$9,562,865	-\$6,330,985	-178	
Swisher	-\$36,343,269	-\$16,778,906	-\$10,035,580	-\$5,639,932	-187	
Tarrant	-\$12,432,982,796	-\$6,176,030,170	-\$3,724,782,788	-\$1,687,315,841	-64,255	
Taylor	-\$1,188,419,224	-\$594,888,540	-\$351,698,139	-\$170,309,162	-6,137	
Terrell	-\$4,927,718	-\$2,839,928	-\$1,765,481	-\$915,075	-31	
Terry	-\$76,716,450	-\$39,182,339	-\$21,438,278	-\$15,265,436	-401	
Throckmorton	-\$11,197,100	-\$5,792,236	-\$3,171,735	-\$1,835,465	-56	
Titus	-\$179,425,098	-\$88,418,669	-\$55,605,479	-\$36,395,158	-1,074	
Tom Green	-\$948,037,672	-\$466,515,196	-\$270,336,632	-\$142,865,676	-4,960	
Travis	-\$4,480,040,337	-\$2,355,152,226	-\$1,457,224,640	-\$658,639,288	-25,391	
Trinity	-\$185,258,641	-\$101,257,932	-\$61,987,062	-\$37,028,834	-1,202	
Tyler	-\$203,501,470	-\$105,991,590	-\$66,051,149	-\$38,292,660	-1,247	
Upshur	-\$385,287,190	-\$193,555,633	-\$115,036,756	-\$66,475,553	-2,096	
Upton	-\$21,332,671	-\$10,747,439	-\$6,044,256	-\$3,134,327	-104	
Uvalde	-\$189,981,127	-\$99,539,587	-\$61,439,208	-\$33,924,627	-1,171	
Val Verde	-\$248,473,141	-\$139,437,868	-\$89,013,714	-\$48,617,446	-1,686	
Van Zandt	-\$445,364,656	-\$251,187,780	-\$154,439,995	-\$91,142,758	-2,967	
Victoria	-\$807,933,286	-\$398,541,540	-\$239,026,424	-\$119,035,476	-4,104	
Walker	-\$526,808,185	-\$276,654,022	-\$175,023,786	-\$96,999,328	-3,320	
Waller	-\$266,047,033	-\$117,523,924	-\$66,417,750	-\$42,704,347	-1,251	
Ward	-\$84,059,342	-\$43,126,870	-\$24,933,286	-\$16,335,073	-463	
Washington	-\$303,887,892	-\$159,392,437	-\$98,239,660	-\$51,862,468	-1,792	
Webb	-\$866,761,938	-\$455,379,961	-\$268,193,585	-\$151,079,820	-4,916	
Wharton	-\$371,814,912	-\$195,555,646	-\$117,021,515	-\$66,583,624	-2,147	
Wheeler	-\$41,686,147	-\$23,102,498	-\$13,626,180	-\$8,905,534	-260	
Wichita	-\$1,172,723,790	-\$635,114,268	-\$378,106,987	-\$199,186,986	-6,749	
Wilbarger	-\$148,914,177	-\$72,801,722	-\$45,483,675	-\$26,070,608	-843	
Willacy	-\$93,584,575	-\$52,524,043	-\$31,986,146	-\$19,828,111	-615	
Williamson	-\$1,145,953,040	-\$612,450,146	-\$386,837,162	-\$202,781,614	-7,082	
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County	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
Wilson	-\$288,373,949	-\$144,431,621	-\$87,529,991	-\$50,648,295	-1,687
Winkler	-\$50,234,614	-\$25,845,296	-\$14,834,336	-\$9,179,644	-266
Wise	-\$383,956,608	-\$198,474,520	-\$115,980,844	-\$66,983,368	-2,093
Wood	-\$549,320,842	-\$271,531,884	-\$163,001,059	-\$87,533,252	-2,989
Yoakum	-\$35,545,279	-\$17,729,882	-\$10,036,738	-\$6,590,434	-184
Young	-\$219,822,669	-\$113,397,919	-\$65,731,119	-\$38,563,379	-1,177
Zapata	-\$54,638,902	-\$28,423,409	-\$16,911,330	-\$11,019,717	-324
Zavala	-\$41,511,138	-\$24,611,637	-\$16,284,122	-\$11,427,627	-344
TEXAS	-\$169,862,927,553	-\$83,790,409,518	-\$50,469,263,345	-\$23,933,428,464	-879,824
NOTE AN ACCOUNT OF THE COUNTY					

NOTE: Allocations reflect best available evidence regarding incidence and industrial structure and composition of each area. SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



Results by Texas House District							
	Total				Employment		
House District	Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	(Permanent Jobs)		
1	-\$1,520,617,851	-\$783,661,518	-\$487,289,521	-\$276,359,115	-9,196		
2	-\$1,346,280,125	-\$712,370,502	-\$441,799,284	-\$269,247,767	-8,490		
3	-\$1,145,131,170	-\$541,158,055	-\$318,519,409	-\$154,058,464	-5,505		
4	-\$1,532,462,856	-\$754,813,135	-\$460,501,734	-\$253,260,952	-8,610		
5	-\$1,530,943,416	-\$748,351,224	-\$447,505,352	-\$242,224,024	-8,126		
6	-\$1,515,159,668	-\$751,369,131	-\$436,954,240	-\$217,622,337	-7,677		
7	-\$1,582,694,662	-\$826,978,277	-\$499,650,341	-\$255,390,720	-8,822		
8	-\$1,518,788,205	-\$773,590,582	-\$467,270,135	-\$262,729,320	-8,745		
9	-\$1,576,950,047	-\$782,348,205	-\$479,429,017	-\$257,064,031	-8,614		
10	-\$1,059,790,080	-\$499,650,199	-\$303,172,739	-\$171,700,600	-5,558		
11	-\$1,265,953,568	-\$648,050,029	-\$404,627,898	-\$224,460,183	-7,564		
12	-\$1,304,304,499	-\$653,259,471	-\$400,819,410	-\$218,027,951	-7,455		
13		-\$831,372,927		-\$269,559,970	-9,173		
14	-\$1,618,501,914		-\$505,287,882		·		
15	-\$731,090,560 -\$1,212,871,722	-\$371,935,233	-\$224,090,697	-\$111,755,159	-4,067		
		-\$584,487,693	-\$347,824,469	-\$153,635,192	-5,868 -5,868		
16	-\$1,212,871,722	-\$584,487,693	-\$347,824,469	-\$153,635,192	•		
17	-\$1,229,927,467	-\$609,483,446	-\$367,333,405	-\$203,845,464	-6,758		
18	-\$1,448,688,146	-\$747,922,898	-\$461,701,617	-\$249,275,240	-8,479		
19	-\$1,682,735,892	-\$866,841,935	-\$525,742,654	-\$312,228,681	-9,770		
20	-\$878,028,295	-\$442,184,252	-\$271,242,617	-\$149,056,463	-4,993		
21	-\$1,600,528,979	-\$798,399,977	-\$506,544,761	-\$274,213,417	-9,141		
22	-\$1,512,055,717	-\$758,048,524	-\$485,127,400	-\$250,602,309	-8,677		
23	-\$1,421,803,016	-\$663,740,905	-\$398,663,202	-\$204,228,184	-7,079		
24	-\$1,531,884,459	-\$727,433,539	-\$441,484,375	-\$229,746,513	-7,931		
25	-\$1,124,629,447	-\$533,010,810	-\$323,529,899	-\$186,945,821	-5,842		
26	-\$750,319,919	-\$353,079,006	-\$206,974,147	-\$98,168,862	-3,471		
27	-\$750,319,919	-\$353,079,006	-\$206,974,147	-\$98,168,862	-3,471		
28	-\$750,319,919	-\$353,079,006	-\$206,974,147	-\$98,168,862	-3,471		
29	-\$1,021,796,489	-\$489,455,124	-\$298,025,965	-\$166,195,819	-5,351		
30	-\$1,630,779,448	-\$790,651,506	-\$469,436,686	-\$254,343,229	-8,301		
31	-\$933,797,059	-\$480,056,606	-\$288,046,637	-\$168,024,435	-5,321		
32	-\$1,470,222,798	-\$689,479,984	-\$412,489,086	-\$197,560,351	-7,100		
33	-\$740,212,029	-\$380,853,164	-\$235,086,101	-\$120,141,096	-4,249		
34	-\$1,530,231,892	-\$717,622,024	-\$429,325,375	-\$205,624,039	-7,390		
35	-\$709,619,216	-\$371,415,848	-\$230,640,116	-\$121,370,814	-4,344		
36	-\$626,278,552	-\$335,348,637	-\$209,196,880	-\$109,411,370	-3,925		
37	-\$844,684,308	-\$431,151,979	-\$266,351,450	-\$141,142,917	-5,038		
38	-\$824,572,777	-\$420,886,456	-\$260,009,749	-\$137,782,371	-4,918		
39	-\$626,278,552	-\$335,348,637	-\$209,196,880	-\$109,411,370	-3,925		
40	-\$626,278,552	-\$335,348,637	-\$209,196,880	-\$109,411,370	-3,925		
41	-\$626,278,552	-\$335,348,637	-\$209,196,880	-\$109,411,370	-3,925		



Results by Texas House District							
	Total Expenditures	Gross Product	Personal Income	Retail Sales	Employment (Permanent		
House District	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	Jobs)		
42	-\$554,727,641	-\$291,443,175	-\$171,643,894	-\$96,691,085	-3,147		
43	-\$1,194,450,980	-\$604,534,912	-\$361,100,275	-\$208,761,081	-6,654		
44	-\$984,695,518	-\$489,831,364	-\$297,871,656	-\$179,688,680	-5,682		
45	-\$743,098,559	-\$378,181,334	-\$232,273,531	-\$125,013,648	-4,313		
46	-\$730,246,575	-\$383,889,813	-\$237,527,616	-\$107,358,204	-4,139		
47	-\$761,606,857	-\$400,375,878	-\$247,728,189	-\$111,968,679	-4,317		
48	-\$761,606,857	-\$400,375,878	-\$247,728,189	-\$111,968,679	-4,317		
49	-\$734,726,615	-\$386,244,965	-\$238,984,841	-\$108,016,843	-4,164		
50	-\$730,246,575	-\$383,889,813	-\$237,527,616	-\$107,358,204	-4,139		
51	-\$761,606,857	-\$400,375,878	-\$247,728,189	-\$111,968,679	-4,317		
52	-\$446,921,686	-\$238,855,557	-\$150,866,493	-\$79,084,829	-2,762		
53	-\$1,705,722,797	-\$840,902,635	-\$498,950,447	-\$291,162,822	-9,433		
54	-\$967,007,107	-\$514,080,920	-\$324,460,606	-\$176,639,711	-6,137		
55	-\$842,200,631	-\$452,319,001	-\$286,965,803	-\$153,022,409	-5,383		
56	-\$1,509,401,733	-\$731,958,489	-\$444,327,749	-\$226,121,290	-8,169		
57	-\$1,528,262,427	-\$779,785,253	-\$480,722,966	-\$265,312,555	-8,884		
58	-\$1,244,996,156	-\$622,669,295	-\$392,971,842	-\$209,010,269	-7,245		
59	-\$1,030,332,750	-\$538,764,000	-\$336,667,418	-\$196,623,637	-6,471		
60	-\$1,795,273,958	-\$898,414,400	-\$540,562,816	-\$318,083,711	-10,133		
61	-\$1,252,567,973	-\$606,443,247	-\$358,049,397	-\$201,249,180	-6,508		
62	-\$1,441,698,149	-\$753,308,367	-\$474,990,003	-\$265,544,034	-8,966		
63	-\$715,923,995	-\$348,180,255	-\$212,798,766	-\$100,595,915	-3,732		
64	-\$715,923,995	-\$348,180,255	-\$212,798,766	-\$100,595,915	-3,732		
65	-\$715,923,995	-\$348,180,255	-\$212,798,766	-\$100,595,915	-3,732		
66	-\$685,377,301	-\$353,826,230	-\$217,505,698	-\$106,598,645	-3,843		
67	-\$685,377,301	-\$353,826,230	-\$217,505,698	-\$106,598,645	-3,843		
68	-\$1,586,519,586	-\$801,733,005	-\$476,950,709	-\$269,555,160	-8,630		
69	-\$1,435,017,427	-\$771,343,255	-\$459,764,878	-\$241,792,116	-8,203		
70	-\$685,377,301	-\$353,826,230	-\$217,505,698	-\$106,598,645	-3,843		
71	-\$1,540,997,422	-\$777,291,484	-\$459,357,576	-\$226,887,020	-8,069		
72	-\$1,502,834,804	-\$732,878,785	-\$426,319,075	-\$227,730,666	-7,707		
73	-\$1,401,796,771	-\$684,369,263	-\$414,991,406	-\$231,352,194	-7,852		
74	-\$843,813,049	-\$444,844,346	-\$270,690,568	-\$161,622,399	-5,172		
75	-\$1,041,566,516	-\$510,016,643	-\$308,102,587	-\$146,414,275	-5,507		
76	-\$1,041,566,516	-\$510,016,643	-\$308,102,587	-\$146,414,275	-5,507		
77	-\$1,041,566,516	-\$510,016,643	-\$308,102,587	-\$146,414,275	-5,507		
78	-\$1,041,566,516	-\$510,016,643	-\$308,102,587	-\$146,414,275	-5,507		
79	-\$1,041,566,516	-\$510,016,643	-\$308,102,587	-\$146,414,275	-5,507		
80	-\$754,244,327	-\$394,480,030	-\$236,694,274	-\$137,234,534	-4,446		
81	-\$1,287,733,211	-\$645,482,543	-\$383,772,844	-\$200,597,971	-6,649		
82	-\$1,006,879,155	-\$509,974,283	-\$295,336,175	-\$150,960,959	-5,056		



Results by Texas House District							
House District	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)		
83	-\$1,203,990,504	-\$625,840,713	-\$375,878,050	-\$197,989,542	-6,786		
84	-\$1,203,208,148	-\$629,951,740	-\$388,857,844	-\$190,271,868	-7,014		
85	-\$996,358,906	-\$494,544,896	-\$291,001,153	-\$154,457,942	-5,119		
86	-\$975,961,490	-\$503,917,330	-\$303,579,137	-\$157,981,580	-5,508		
87	-\$1,418,081,343	-\$716,955,861	-\$422,292,552	-\$218,550,208	-7,429		
88	-\$952,910,469	-\$474,051,163	-\$282,253,364	-\$168,368,533	-5,192		
89	-\$685,377,301	-\$353,826,230	-\$217,505,698	-\$106,598,645	-3,843		
90	-\$1,131,401,434	-\$562,018,745	-\$338,955,234	-\$153,545,742	-5,847		
91	-\$1,131,401,434	-\$562,018,745	-\$338,955,234	-\$153,545,742	-5,847		
92	-\$1,131,401,434	-\$562,018,745	-\$338,955,234	-\$153,545,742	-5,847		
93	-\$1,131,401,434	-\$562,018,745	-\$338,955,234	-\$153,545,742	-5,847		
94	-\$1,131,401,434	-\$562,018,745	-\$338,955,234	-\$153,545,742	-5,847		
95	-\$1,131,401,434	-\$562,018,745	-\$338,955,234	-\$153,545,742	-5,847		
96	-\$1,131,401,434	-\$562,018,745	-\$338,955,234	-\$153,545,742	-5,847		
97	-\$1,131,401,434	-\$562,018,745	-\$338,955,234	-\$153,545,742	-5,847		
98	-\$1,131,401,434	-\$562,018,745	-\$338,955,234	-\$153,545,742	-5,847		
99	-\$1,131,401,434	-\$562,018,745	-\$338,955,234	-\$153,545,742	-5,847		
100	-\$1,196,515,204	-\$584,327,350	-\$342,098,434	-\$128,884,237	-5,525		
101	-\$1,118,968,452	-\$555,842,715	-\$335,230,451	-\$151,858,426	-5,783		
102	-\$1,196,515,204	-\$584,327,350	-\$342,098,434	-\$128,884,237	-5,525		
103	-\$1,196,515,204	-\$584,327,350	-\$342,098,434	-\$128,884,237	-5,525		
104	-\$1,196,515,204	-\$584,327,350	-\$342,098,434	-\$128,884,237	-5,525		
105	-\$1,196,515,204	-\$584,327,350	-\$342,098,434	-\$128,884,237	-5,525		
106	-\$715,923,995	-\$348,180,255	-\$212,798,766	-\$100,595,915	-3,732		
107	-\$1,196,515,204	-\$584,327,350	-\$342,098,434	-\$128,884,237	-5,525		
108	-\$1,196,515,204	-\$584,327,350	-\$342,098,434	-\$128,884,237	-5,525		
109	-\$1,196,515,204	-\$584,327,350	-\$342,098,434	-\$128,884,237	-5,525		
110	-\$1,196,515,204	-\$584,327,350	-\$342,098,434	-\$128,884,237	-5,525		
111	-\$1,221,793,694	-\$596,672,294	-\$349,325,866	-\$131,607,144	-5,642		
112	-\$1,196,515,204	-\$584,327,350	-\$342,098,434	-\$128,884,237	-5,525		
113	-\$1,221,793,694	-\$596,672,294	-\$349,325,866	-\$131,607,144	-5,642		
114	-\$1,221,793,694	-\$596,672,294	-\$349,325,866	-\$131,607,144	-5,642		
115	-\$1,221,793,694	-\$596,672,294	-\$349,325,866	-\$131,607,144	-5,642		
116	-\$1,174,314,751	-\$595,048,077	-\$366,340,893	-\$171,463,805	-6,499		
117	-\$1,174,314,751	-\$595,048,077	-\$366,340,893	-\$171,463,805	-6,499		
118	-\$1,174,314,751	-\$595,048,077	-\$366,340,893	-\$171,463,805	-6,499		
119	-\$1,174,314,751	-\$595,048,077	-\$366,340,893	-\$171,463,805	-6,499		
120	-\$1,174,314,751	-\$595,048,077	-\$366,340,893	-\$171,463,805	-6,499		
121	-\$1,174,314,751	-\$595,048,077	-\$366,340,893	-\$171,463,805	-6,499		
122	-\$1,174,314,751	-\$595,048,077	-\$366,340,893	-\$171,463,805	-6,499		
123	-\$1,174,314,751	-\$595,048,077	-\$366,340,893	-\$171,463,805	-6,499		



House District	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)
124	-\$1,174,314,751	-\$595,048,077	-\$366,340,893	-\$171,463,805	-6,499
125	-\$1,174,314,751	-\$595,048,077	-\$366,340,893	-\$171,463,805	-6,499
126	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
127	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
128	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
129	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
130	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
131	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
132	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
133	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
134	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
135	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
136	-\$446,921,686	-\$238,855,557	-\$150,866,493	-\$79,084,829	-2,762
137	-\$1,196,219,383	-\$547,986,070	-\$321,921,329	-\$110,497,380	-4,999
138	-\$1,196,219,383	-\$547,986,070	-\$321,921,329	-\$110,497,380	-4,999
139	-\$1,196,219,383	-\$547,986,070	-\$321,921,329	-\$110,497,380	-4,999
140	-\$1,196,219,383	-\$547,986,070	-\$321,921,329	-\$110,497,380	-4,999
141	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
142	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
143	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
144	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
145	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
146	-\$1,225,395,465	-\$561,351,584	-\$329,773,069	-\$113,192,438	-5,120
147	-\$1,196,219,383	-\$547,986,070	-\$321,921,329	-\$110,497,380	-4,999
148	-\$1,196,219,383	-\$547,986,070	-\$321,921,329	-\$110,497,380	-4,999
149	-\$1,196,219,383	-\$547,986,070	-\$321,921,329	-\$110,497,380	-4,999
150	-\$1,196,219,383	-\$547,986,070	-\$321,921,329	-\$110,497,380	-4,999
TOTAL	-\$169,862,927,553	-\$83,790,409,518	-\$50,469,263,345	-\$23,933,428,464	-879,824

NOTE: In cases in which a county was part of more than one district, allocations are based on the percentage of the population residing in a district. This convention is adopted because of a lack of subcounty data sufficient for allocation purposes. In some instances, this approach will result in districts which reflect the same proportion of a large urban county reporting identical results. Allocations reflect district maps as currently defined.



	Total		S Conato Biotino		Employment
Canata District	Expenditures	Gross Product	Personal Income	Retail Sales	(Permanent
Senate District	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	(2016 Dollars)	Jobs)
1	(\$7,786,470,932)	(\$3,914,043,405)	(\$2,357,823,772)	(\$1,238,952,816)	-42,377
2	(\$5,764,864,037)	(\$2,889,712,613)	(\$1,743,340,264)	(\$845,345,062)	-30,749
3	(\$7,737,264,687)	(\$3,946,045,428)	(\$2,425,352,094)	(\$1,339,148,955)	-44,603
4	(\$6,325,555,846)	(\$3,060,236,287)	(\$1,868,295,539)	(\$860,250,602)	-31,954
5	(\$3,671,262,767)	(\$1,906,996,228)	(\$1,176,034,176)	(\$649,812,084)	-21,818
6	(\$5,835,216,501)	(\$2,673,102,782)	(\$1,570,347,948)	(\$539,011,609)	-24,383
7	(\$5,835,216,501)	(\$2,673,102,782)	(\$1,570,347,948)	(\$539,011,609)	-24,383
8	(\$3,490,665,002)	(\$1,778,554,021)	(\$1,081,277,313)	(\$502,621,949)	-18,738
9	(\$5,743,923,564)	(\$2,840,546,898)	(\$1,700,072,050)	(\$737,061,772)	-28,851
10	(\$5,719,172,086)	(\$2,840,973,878)	(\$1,713,400,082)	(\$776,165,287)	-29,557
11	(\$6,009,477,903)	(\$2,824,663,186)	(\$1,697,313,652)	(\$799,590,068)	-29,149
12	(\$4,241,815,082)	(\$2,082,362,972)	(\$1,265,209,321)	(\$587,075,814)	-22,029
13	(\$5,484,054,557)	(\$2,518,773,435)	(\$1,479,373,285)	(\$526,733,705)	-23,150
14	(\$3,828,987,651)	(\$1,996,232,202)	(\$1,232,619,771)	(\$575,788,841)	-21,700
15	(\$5,543,455,676)	(\$2,539,447,642)	(\$1,491,830,551)	(\$512,061,028)	-23,164
16	(\$5,814,052,750)	(\$2,839,337,121)	(\$1,662,309,292)	(\$626,268,478)	-26,849
17	(\$5,241,257,384)	(\$2,423,852,246)	(\$1,429,203,822)	(\$557,851,582)	-22,894
18	(\$6,092,871,627)	(\$2,975,354,779)	(\$1,769,701,740)	(\$933,787,079)	-31,265
19	(\$5,272,476,341)	(\$2,679,268,044)	(\$1,637,099,910)	(\$828,298,190)	-29,641
20	(\$4,929,563,596)	(\$2,447,416,600)	(\$1,486,880,974)	(\$746,360,411)	-26,584
21	(\$4,065,633,045)	(\$2,071,760,496)	(\$1,248,090,373)	(\$691,916,565)	-22,898
22	(\$6,468,156,630)	(\$3,157,471,588)	(\$1,938,232,148)	(\$1,023,353,792)	-35,681
23	(\$5,814,052,750)	(\$2,839,337,121)	(\$1,662,309,292)	(\$626,268,478)	-26,849
24	(\$5,943,998,103)	(\$3,053,224,048)	(\$1,873,896,734)	(\$1,028,923,929)	-35,015
25	(\$5,072,174,102)	(\$2,551,100,620)	(\$1,563,369,654)	(\$788,016,696)	-28,367
26	(\$5,460,563,593)	(\$2,766,973,558)	(\$1,703,485,154)	(\$797,306,695)	-30,222
27	(\$3,543,120,803)	(\$1,843,017,534)	(\$1,138,752,152)	(\$605,128,630)	-21,446
28	(\$6,228,071,324)	(\$3,182,580,171)	(\$1,902,570,231)	(\$1,024,918,083)	-34,607
29	(\$5,286,390,929)	(\$2,589,741,708)	(\$1,564,384,777)	(\$748,105,506)	-28,002
30	(\$6,081,226,008)	(\$3,100,622,430)	(\$1,870,621,033)	(\$1,016,944,623)	-33,988
31	(\$5,531,915,775)	(\$2,784,557,695)	(\$1,645,718,291)	(\$861,348,527)	-28,909
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TOTAL	(\$169,862,927,553)	(\$83,790,409,518)	(\$50,469,263,345)	(\$23,933,428,464)	-879,824
	<u> </u>	<u> </u>	<u> </u>		

NOTE: In cases in which a county was part of more than one district, allocations are based on the percentage of the population residing in a district. This convention is adopted because of a lack of subcounty data sufficient for allocation purposes. In some instances, this approach will result in districts which reflect the same proportion of a large urban county reporting identical results. Allocations reflect district maps as currently defined.



	Results by US Congressional District in Texas						
US Congressional District in Texas	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Retail Sales (2016 Dollars)	Employment (Permanent Jobs)		
1	(\$6,420,308,692)	(\$3,238,817,175)	(\$1,953,817,996)	(\$1,007,961,252)	-34,946		
2	(\$4,959,934,026)	(\$2,272,137,364)	(\$1,334,795,756)	(\$458,159,867)	-20,726		
3	(\$2,772,662,716)	(\$1,431,387,930)	(\$879,909,414)	(\$431,239,974)	-15,546		
4	(\$5,547,654,353)	(\$2,840,637,360)	(\$1,765,147,512)	(\$1,015,435,221)	-33,251		
5	(\$5,743,986,459)	(\$2,886,947,277)	(\$1,734,917,936)	(\$840,103,847)	-30,649		
6	(\$4,819,172,720)	(\$2,369,728,281)	(\$1,435,687,928)	(\$689,177,756)	-25,212		
7	(\$4,959,934,026)	(\$2,272,137,364)	(\$1,334,795,756)	(\$458,159,867)	-20,726		
8	(\$5,437,863,596)	(\$2,657,362,455)	(\$1,598,636,709)	(\$746,029,164)	-27,615		
9	(\$4,774,283,829)	(\$2,195,693,092)	(\$1,289,477,155)	(\$467,536,860)	-20,258		
10	(\$4,571,694,188)	(\$2,229,838,536)	(\$1,338,417,717)	(\$600,918,994)	-22,854		
11	(\$6,026,751,871)	(\$3,016,507,060)	(\$1,793,384,356)	(\$986,089,269)	-32,522		
12	(\$4,872,579,109)	(\$2,399,943,143)	(\$1,441,983,746)	(\$683,457,237)	-25,150		
13	(\$5,623,648,301)	(\$2,886,683,179)	(\$1,716,159,430)	(\$919,885,125)	-30,705		
14	(\$5,992,166,949)	(\$2,911,712,514)	(\$1,807,149,238)	(\$947,249,079)	-32,403		
15	(\$3,027,440,698)	(\$1,575,099,546)	(\$969,312,848)	(\$529,577,420)	-18,131		
16	(\$4,530,814,347)	(\$2,218,572,395)	(\$1,340,246,254)	(\$636,902,096)	-23,957		
17	(\$4,797,465,241)	(\$2,405,795,063)	(\$1,462,224,616)	(\$766,643,971)	-26,775		
18	(\$4,959,934,026)	(\$2,272,137,364)	(\$1,334,795,756)	(\$458,159,867)	-20,726		
19	(\$5,213,171,581)	(\$2,673,218,959)	(\$1,604,401,951)	(\$835,749,471)	-28,820		
20	(\$4,814,690,480)	(\$2,439,697,116)	(\$1,501,997,662)	(\$703,001,602)	-26,648		
21	(\$4,817,824,858)	(\$2,424,006,181)	(\$1,479,303,664)	(\$752,272,912)	-26,900		
22	(\$3,582,983,144)	(\$1,686,627,487)	(\$999,152,071)	(\$475,944,269)	-16,881		
23	(\$4,385,833,522)	(\$2,229,945,628)	(\$1,355,092,140)	(\$708,548,561)	-24,777		
24	(\$4,603,623,988)	(\$2,261,831,534)	(\$1,345,551,331)	(\$560,582,644)	-22,506		
25	(\$4,226,014,279)	(\$2,143,426,372)	(\$1,328,625,898)	(\$703,652,204)	-24,543		
26	(\$3,388,358,613)	(\$1,658,270,822)	(\$1,009,292,814)	(\$470,778,976)	-17,609		
27	(\$6,189,190,100)	(\$2,971,654,008)	(\$1,776,275,126)	(\$928,359,393)	-31,347		
28	(\$3,251,274,863)	(\$1,680,944,177)	(\$1,020,752,542)	(\$540,169,108)	-18,682		
29	(\$4,959,934,026)	(\$2,272,137,364)	(\$1,334,795,756)	(\$458,159,867)	-20,726		
30	(\$4,954,584,082)	(\$2,419,609,025)	(\$1,416,576,614)	(\$533,689,659)	-22,880		
31	(\$2,587,411,813)	(\$1,386,611,514)	(\$877,990,171)	(\$464,685,353)	-16,295		
32	(\$4,804,458,628)	(\$2,351,507,834)	(\$1,379,530,593)	(\$526,456,598)	-22,371		
33	(\$4,890,115,753)	(\$2,407,940,133)	(\$1,430,451,900)	(\$592,880,652)	-23,882		
34	(\$3,662,019,888)	(\$1,893,857,819)	(\$1,160,533,560)	(\$632,978,463)	-21,804		
35	(\$4,018,942,526)	(\$2,051,149,453)	(\$1,261,973,561)	(\$607,419,368)	-22,539		
36	(\$5,674,200,264)	(\$2,756,836,992)	(\$1,656,105,867)	(\$795,412,496)	-28,466		
TOTAL	(\$169,862,927,553)	(\$83,790,409,518)	(\$50,469,263,345)	(\$23,933,428,464)	-879,824		

NOTE: In cases in which a county is part of more than one district, allocations are based on the percentage of the population residing in a district. This convention is adopted because of a lack of subcounty data sufficient for allocation purposes. In some instances, this approach will result in districts which reflect the same proportion of a large urban county reporting identical results. Allocations reflect district maps as currently defined. SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Annual and Cumulative Ten-Year Impact of Operations Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas



The Annual Impact of Operations Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Based on Staffing for Fiscal Year 2016)

		3		
Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)
Agriculture	\$442,410	\$122,925	\$81,134	1
Mining	\$326,955	\$76,408	\$42,568	0
Construction	\$447,069	\$236,434	\$194,841	2
Nondurable Manufacturing	\$2,719,618	\$795,622	\$421,377	5
Durable Manufacturing	\$728,092	\$308,861	\$197,032	1
Transportation and Utilities	\$2,129,126	\$862,959	\$504,113	5
Information	\$701,161	\$431,788	\$185,986	1
Wholesale Trade	\$837,037	\$566,658	\$326,740	3
Retail Trade (including Restaurants)	\$3,698,792	\$2,745,308	\$1,590,793	43
FIRE	\$3,687,860	\$948,521	\$377,636	3
Business Services	\$9,858,830	\$5,718,579	\$4,664,892	49
Health Services	\$841,593	\$588,699	\$497,750	7
Other Services	\$1,649,844	\$834,762	\$671,080	13
TOTAL	\$28,068,387	\$14,237,524	\$9,755,941	132
SOURCE: US Multi-Region	nal Impact Assessment System	n, The Perryman Group		



The Cumulative Ten-Year Impact of Operations Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Based on Historical and Projected Budget Levels and Staffing)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Person Years)
Agriculture	\$3,591,954	\$998,031	\$658,729	7
Mining	\$2,654,566	\$620,359	\$345,611	0
Construction	\$3,629,779	\$1,919,623	\$1,581,922	17
Nondurable Manufacturing	\$22,080,723	\$6,459,701	\$3,421,180	42
Durable Manufacturing	\$5,911,414	\$2,507,658	\$1,599,712	12
Transportation and Utilities	\$17,286,489	\$7,006,413	\$4,092,918	37
Information	\$5,692,762	\$3,505,713	\$1,510,030	10
Wholesale Trade	\$6,795,947	\$4,600,723	\$2,652,822	22
Retail Trade (including Restaurants)	\$30,030,684	\$22,289,302	\$12,915,734	346
FIRE	\$29,941,927	\$7,701,090	\$3,066,046	21
Business Services	\$80,044,358	\$46,429,447	\$37,874,507	398
Health Services	\$6,832,938	\$4,779,675	\$4,041,260	57
Other Services	\$13,395,169	\$6,777,476	\$5,448,532	105
TOTAL	\$227,888,709	\$115,595,211	\$79,209,002	1,074
NOTE: Accumes staffing level stabilizes in fixed 2016 in line with current hudget projections				

NOTE: Assumes staffing level stabilizes in fiscal 2016 in line with current budget projections.

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Annual and Cumulative Ten-Year Impact of Outlays for Prevention and Screening Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas



The Annual Impact of Outlays for Prevention and Screening Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Based on Outlays for Fiscal Year 2016)

Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)
\$1,703,901	\$472,904	\$312,226	5
\$1,320,604	\$309,313	\$171,889	1
\$1,805,923	\$950,243	\$783,060	11
\$9,881,200	\$2,892,943	\$1,513,293	26
\$2,437,502	\$951,085	\$622,174	9
\$7,038,223	\$2,764,121	\$1,600,996	18
\$2,185,635	\$1,344,850	\$579,744	6
\$3,133,069	\$2,120,078	\$1,222,456	14
\$14,343,625	\$10,783,612	\$6,272,719	195
\$15,105,164	\$3,826,078	\$1,436,844	15
\$3,776,724	\$2,298,811	\$1,875,240	23
\$31,946,064	\$23,015,461	\$19,459,786	326
\$5,874,737	\$3,045,799	\$2,449,181	60
\$100,552,370	\$54,775,298	\$38,299,608	708
	\$1,703,901 \$1,703,901 \$1,320,604 \$1,805,923 \$9,881,200 \$2,437,502 \$7,038,223 \$2,185,635 \$3,133,069 \$14,343,625 \$15,105,164 \$3,776,724 \$31,946,064 \$5,874,737	(2016 Dollars) (2016 Dollars) \$1,703,901 \$472,904 \$1,320,604 \$309,313 \$1,805,923 \$950,243 \$9,881,200 \$2,892,943 \$2,437,502 \$951,085 \$7,038,223 \$2,764,121 \$2,185,635 \$1,344,850 \$3,133,069 \$2,120,078 \$14,343,625 \$10,783,612 \$15,105,164 \$3,826,078 \$3,776,724 \$2,298,811 \$31,946,064 \$23,015,461 \$5,874,737 \$3,045,799	(2016 Dollars) (2016 Dollars) (2016 Dollars) \$1,703,901 \$472,904 \$312,226 \$1,320,604 \$309,313 \$171,889 \$1,805,923 \$950,243 \$783,060 \$9,881,200 \$2,892,943 \$1,513,293 \$2,437,502 \$951,085 \$622,174 \$7,038,223 \$2,764,121 \$1,600,996 \$2,185,635 \$1,344,850 \$579,744 \$3,133,069 \$2,120,078 \$1,222,456 \$14,343,625 \$10,783,612 \$6,272,719 \$15,105,164 \$3,826,078 \$1,436,844 \$3,776,724 \$2,298,811 \$1,875,240 \$31,946,064 \$23,015,461 \$19,459,786 \$5,874,737 \$3,045,799 \$2,449,181

NOTE: Includes effects of leveraged external funds for screening and prevention purposes.

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Cumulative Ten-Year Impact of Outlays for Prevention and Screening Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Based on Reported Outlays for Fiscal Year 2010-2016 with Outlays for Fiscal Year 2017 and Beyond Reflecting Budgeted and **Stabilized Levels**)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Person Years)		
Agriculture	\$16,226,447	\$4,503,517	\$2,973,368	48		
Mining	\$12,576,262	\$2,945,624	\$1,636,914	10		
Construction	\$17,198,010	\$9,049,277	\$7,457,168	106		
Nondurable Manufacturing	\$94,099,789	\$27,549,830	\$14,411,259	246		
Durable Manufacturing	\$23,212,604	\$9,057,286	\$5,925,036	83		
Transportation and Utilities	\$67,025,803	\$26,323,037	\$15,246,469	171		
Information	\$20,814,046	\$12,807,161	\$5,520,968	53		
Wholesale Trade	\$29,836,569	\$20,189,744	\$11,641,586	134		
Retail Trade (including Restaurants)	\$136,595,972	\$102,693,567	\$59,735,815	1,853		
FIRE	\$143,848,195	\$36,436,174	\$13,683,231	146		
Business Services	\$35,966,174	\$21,891,835	\$17,858,127	220		
Health Services	\$304,226,007	\$219,178,856	\$185,317,753	3,106		
Other Services	\$55,945,790	\$29,005,494	\$23,323,833	570		
TOTAL	\$957,571,669	\$521,631,401	\$364,731,527	6,747		
NOTE: Assumes percentage leveraging of external funds remains constant over time.						

NOTE: Assumes percentage leveraging of external funds remains constant over time. SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Annual and Cumulative Ten-Year Impact of Outlays for Research and Product Development Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas



The Annual Impact of Outlays for Research and Product Development Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Based on Outlays for Fiscal Year 2016)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)			
Agriculture	\$22,277,829	\$6,664,038	\$4,410,390	71			
Mining	\$19,376,775	\$4,487,896	\$2,467,157	15			
Construction	\$35,207,767	\$18,890,573	\$15,567,008	222			
Nondurable Manufacturing	\$127,492,646	\$36,977,409	\$19,620,561	339			
Durable Manufacturing	\$33,250,078	\$13,038,021	\$8,394,035	120			
Transportation and Utilities	\$106,370,505	\$42,069,651	\$24,524,721	279			
Information	\$29,380,485	\$18,054,533	\$7,782,914	74			
Wholesale Trade	\$40,424,676	\$27,357,872	\$15,774,793	182			
Retail Trade (including Restaurants)	\$185,524,449	\$139,253,416	\$80,964,792	2,518			
FIRE	\$217,712,279	\$58,947,233	\$19,655,238	206			
Business Services	\$49,026,992	\$30,170,320	\$24,611,251	304			
Health Services	\$42,993,319	\$30,090,902	\$25,442,136	426			
Other Services	\$447,195,003	\$278,187,190	\$238,629,379	5,751			
TOTAL	\$1,356,232,803	\$704,189,053	\$487,844,373	10,505			
	NOTE: Includes effects of leveraged external funds for research purposes.						

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Cumulative Ten-Year Impact of Outlays for Research and Product
Development Associated with the Cancer Prevention and Research Institute of
Texas (CPRIT) on Business Activity in Texas (Based on Reported Outlays for
Fiscal Year 2010-2016 with Outlays for Fiscal Year 2017 and Beyond Reflecting
Budgeted and Stabilized Levels)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Person Years)
Agriculture	\$183,350,417	\$54,846,193	\$36,298,280	582
Mining	\$159,474,231	\$36,936,170	\$20,305,130	120
Construction	\$289,766,062	\$155,472,704	\$128,119,192	1,826
Nondurable Manufacturing	\$1,049,286,694	\$304,330,517	\$161,480,633	2,788
Durable Manufacturing	\$273,653,934	\$107,305,182	\$69,084,369	986
Transportation and Utilities	\$875,447,791	\$346,240,563	\$201,842,724	2,295
Information	\$241,806,510	\$148,591,953	\$64,054,739	610
Wholesale Trade	\$332,702,125	\$225,160,057	\$129,829,296	1,496
Retail Trade (including Restaurants)	\$1,526,898,547	\$1,146,079,884	\$666,354,348	20,720
FIRE	\$1,791,809,999	\$485,145,999	\$161,766,034	1,692
Business Services	\$403,500,692	\$248,306,989	\$202,554,881	2,500
Health Services	\$353,842,510	\$247,653,365	\$209,393,213	3,509
Other Services	\$3,680,492,813	\$2,289,529,054	\$1,963,961,374	47,335
TOTAL	\$11,162,032,326	\$5,795,598,630	\$4,015,044,211	86,460

NOTE: Assumes percentage leveraging of external funds based on 2010-2016 actual and future budgeted levels. SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Annual and Cumulative Ten-Year Impact of All Direct Outlays for Operations and Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas



The Annual Impact of All Direct Outlays for Operations and Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Based on Operations and Awards in Fiscal Year 2016)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)
Agriculture	\$24,424,141	\$7,259,866	\$4,803,750	77
Mining	\$21,024,334	\$4,873,617	\$2,681,613	16
Construction	\$37,460,760	\$20,077,250	\$16,544,909	235
Nondurable Manufacturing	\$140,093,464	\$40,665,974	\$21,555,230	370
Durable Manufacturing	\$36,415,671	\$14,297,966	\$9,213,241	130
Transportation and Utilities	\$115,537,854	\$45,696,732	\$26,629,829	301
Information	\$32,267,280	\$19,831,172	\$8,548,644	81
Wholesale Trade	\$44,394,781	\$30,044,608	\$17,323,989	199
Retail Trade (including Restaurants)	\$203,566,865	\$152,782,337	\$88,828,304	2,755
FIRE	\$236,505,303	\$63,721,831	\$21,469,718	224
Business Services	\$62,662,546	\$38,187,710	\$31,151,383	376
Health Services	\$75,780,977	\$53,695,061	\$45,399,672	760
Other Services	\$454,719,584	\$282,067,751	\$241,749,640	5,824
TOTAL	\$1,484,853,560	\$773,201,876	\$535,899,923	11,346
SOURCE: US Multi-Regi	onal Impact Assessment Sys	stem, The Perryman Group	0	



The Cumulative Ten-Year Impact of All Direct Outlays for Operations and Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Based on Actual Operations and Awards in Fiscal Years 2010-2016 and Future Budgeted and Stabilized Levels)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Person Years)
Agriculture	\$203,168,818	\$60,347,741	\$39,930,377	636
Mining	\$174,705,059	\$40,502,153	\$22,287,655	130
Construction	\$310,593,850	\$166,441,604	\$137,158,281	1,950
Nondurable Manufacturing	\$1,165,467,207	\$338,340,047	\$179,313,071	3,076
Durable Manufacturing	\$302,777,952	\$118,870,126	\$76,609,116	1,081
Transportation and Utilities	\$959,760,082	\$379,570,014	\$221,182,110	2,503
Information	\$268,313,318	\$164,904,827	\$71,085,737	672
Wholesale Trade	\$369,334,640	\$249,950,525	\$144,123,704	1,652
Retail Trade (including Restaurants)	\$1,693,525,203	\$1,271,062,753	\$739,005,897	22,919
FIRE	\$1,965,600,121	\$529,283,262	\$178,515,311	1,859
Business Services	\$519,511,224	\$316,628,271	\$258,287,515	3,119
Health Services	\$664,901,455	\$471,611,896	\$398,752,227	6,672
Other Services	\$3,749,833,773	\$2,325,312,024	\$1,992,733,740	48,010
TOTAL	\$12,347,492,704	\$6,432,825,242	\$4,458,984,740	94,280

NOTE: Includes effects of leveraged external funds for prevention and research and assumes stabilized funding based on 2010-2016 actual and future budgeted levels.

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



Annual and Cumulative Ten-Year Impact of Outlays for Prevention and Screening (Downstream) Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas



The Annual Impact of Outlays for Prevention and Screening (Downstream) Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Based on Outlays for Fiscal Year 2016)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)
Agriculture	\$8,481,726	\$2,452,553	\$1,527,924	27
Mining	\$43,787,273	\$19,780,317	\$6,960,101	29
Construction	\$19,752,240	\$9,722,499	\$7,482,362	114
Nondurable Manufacturing	\$69,824,861	\$19,402,322	\$10,197,003	122
Durable Manufacturing	\$31,141,982	\$12,846,862	\$8,596,061	90
Transportation and Utilities	\$58,607,793	\$20,295,193	\$11,616,110	128
Information	\$14,993,926	\$9,771,713	\$4,285,795	39
Wholesale Trade	\$20,368,354	\$15,326,770	\$8,660,688	100
Retail Trade (including Restaurants)	\$83,085,231	\$63,796,782	\$36,859,280	1,159
FIRE	\$119,268,497	\$36,878,236	\$13,840,979	139
Business Services	\$36,560,658	\$25,645,950	\$20,801,902	248
Health Services	\$45,897,086	\$35,062,157	\$29,006,140	494
Other Services	\$37,911,894	\$19,898,221	\$15,370,407	364
TOTAL	\$589,681,522	\$290,879,575	\$175,204,752	3,054

NOTE: Based on typical results of screening and prevention measures determined in various studies. Includes effects of leveraged external funds for screening and prevention purposes.

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Cumulative Ten-Year Impact of Outlays for Prevention and Screening (Downstream) Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Based on Reported Outlays for Fiscal Year 2010-2016 with Outlays for Future Fiscal Years Reflecting Budgeted and Stabilized Levels)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Person Years)
Agriculture	\$80,772,445	\$23,355,943	\$14,550,595	254
Mining	\$416,991,185	\$188,370,213	\$66,281,838	277
Construction	\$188,102,834	\$92,588,462	\$71,255,381	1,087
Nondurable Manufacturing	\$664,950,102	\$184,770,519	\$97,107,222	1,161
Durable Manufacturing	\$296,568,644	\$122,342,129	\$81,861,263	857
Transportation and Utilities	\$558,128,682	\$193,273,429	\$110,621,540	1,222
Information	\$142,788,865	\$93,057,139	\$40,814,114	375
Wholesale Trade	\$193,970,152	\$145,958,579	\$82,476,720	957
Retail Trade (including Restaurants)	\$791,230,109	\$607,544,017	\$351,015,118	11,040
FIRE	\$1,135,807,476	\$351,195,634	\$131,809,221	1,323
Business Services	\$348,171,307	\$244,229,300	\$198,098,876	2,360
Health Services	\$437,083,171	\$333,900,912	\$276,228,771	4,708
Other Services	\$361,039,281	\$189,493,027	\$146,374,133	3,464
TOTAL	\$5,615,604,253	\$2,770,079,303	\$1,668,494,791	29,087

NOTE: Based on typical results of screening and prevention measures determined in various studies. Includes effects of leveraged external funds for screening and prevention purposes.

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Anticipated Benefits of the Research and Related Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas



The Anticipated Annual Benefits of the Research and Related Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Benefits in 2016 Based on Research Awards in Fiscal Years 2010-2016)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)
Agriculture	\$183,040,470	\$62,849,912	\$44,417,585	573
Mining	\$884,038,182	\$405,463,537	\$149,894,680	589
Construction	\$406,520,617	\$206,579,395	\$161,922,636	2,356
Nondurable Manufacturing	\$1,726,930,353	\$721,765,465	\$538,258,977	3,098
Durable Manufacturing	\$730,251,959	\$365,541,795	\$280,802,779	2,241
Transportation and Utilities	\$1,225,488,507	\$461,733,232	\$288,717,177	2,716
Information	\$316,994,591	\$212,890,654	\$103,529,790	831
Wholesale Trade	\$439,992,622	\$339,489,499	\$206,602,266	2,156
Retail Trade (including Restaurants)	\$1,748,410,250	\$1,363,898,253	\$826,903,655	24,364
FIRE	\$2,473,433,379	\$830,997,293	\$371,753,444	2,873
Business Services	\$764,724,007	\$547,141,130	\$450,575,835	5,157
Health Services	\$935,717,567	\$719,725,076	\$598,999,387	10,062
Other Services	\$1,029,196,089	\$670,096,540	\$579,835,314	7,660
TOTAL	\$12,864,738,594	\$6,908,171,780	\$4,602,213,525	64,674

NOTE: Based on typical annual rate of return to health-related research, the location of additional researchers to the state, and standard patterns in spinoff companies from research outlays (fully adjusted for attrition and verified for reasonableness with available data). Includes effects of leveraged external research funding.

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Anticipated Annual Benefits of the Research and Related Programs
Associated with the Cancer Prevention and Research Institute of
Texas (CPRIT) on Business Activity in Texas
(Impact in Year 10 Assuming Sustainable Level of Research Funding
Achieved Through Conclusion of Program)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)
Agriculture	\$288,031,505	\$98,900,285	\$69,895,275	901
Mining	\$1,391,117,757	\$638,035,254	\$235,873,467	927
Construction	\$639,698,670	\$325,072,232	\$254,800,594	3,707
Nondurable Manufacturing	\$2,717,488,370	\$1,135,766,276	\$847,001,447	4,874
Durable Manufacturing	\$1,149,120,579	\$575,214,614	\$441,869,752	3,527
Transportation and Utilities	\$1,928,422,162	\$726,580,945	\$454,323,806	4,273
Information	\$498,820,993	\$335,003,595	\$162,913,923	1,307
Wholesale Trade	\$692,370,037	\$534,218,861	\$325,108,222	3,392
Retail Trade (including Restaurants)	\$2,751,289,021	\$2,146,222,999	\$1,301,211,170	38,339
FIRE	\$3,892,181,540	\$1,307,652,897	\$584,989,232	4,520
Business Services	\$1,203,365,609	\$860,978,357	\$709,023,725	8,115
Health Services	\$1,472,440,161	\$1,132,555,531	\$942,582,233	15,833
Other Services	\$1,619,537,463	\$1,054,460,332	\$912,425,750	12,054
TOTAL	\$20,243,883,867	\$10,870,662,177	\$7,242,018,596	101,771

NOTE: Based on typical annual rate of return to health-related research, the location of additional researchers to the state at the current rate, and standard patterns in spinoff companies from research outlays (fully adjusted for attrition and verified for reasonableness with available data). Includes effects of leveraged external research funding. SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Anticipated Cumulative Ten-Year Benefits of the Research and Related Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Cumulative Impact Over Ten Years Assuming Sustainable Level of Research Funding Achieved Through Conclusion of Program)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Person Years)
Agriculture	\$2,278,403,524	\$782,326,776	\$552,889,659	7,129
Mining	\$11,004,100,402	\$5,047,023,486	\$1,865,819,984	7,330
Construction	\$5,060,181,537	\$2,571,405,232	\$2,015,538,446	29,327
Nondurable Manufacturing	\$21,496,034,192	\$8,984,204,300	\$6,699,999,998	38,558
Durable Manufacturing	\$9,089,840,279	\$4,550,096,015	\$3,495,303,751	27,900
Transportation and Utilities	\$15,254,316,887	\$5,747,442,753	\$3,593,818,534	33,804
Information	\$3,945,802,766	\$2,649,964,873	\$1,288,691,171	10,342
Wholesale Trade	\$5,476,825,642	\$4,225,809,034	\$2,571,689,920	26,834
Retail Trade (including Restaurants)	\$21,763,406,065	\$16,977,177,701	\$10,292,916,101	303,268
FIRE	\$30,788,160,269	\$10,343,871,826	\$4,627,415,769	35,756
Business Services	\$9,518,932,467	\$6,810,560,957	\$5,608,560,613	64,193
Health Services	\$11,647,381,599	\$8,958,806,478	\$7,456,068,671	125,246
Other Services	\$12,810,959,212	\$8,341,053,307	\$7,217,523,112	95,351
TOTAL	\$160,134,344,841	\$85,989,742,738	\$57,286,235,729	805,038

NOTE: Based on typical annual rate of return to health-related research, the location of additional researchers to the state at the current rate, and standard patterns in spinoff companies from research outlays (fully adjusted for attrition and verified for reasonableness with available data). Includes effects of leveraged external research funding. SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Anticipated Gross Benefits of All Prevention and Research Programs
Associated with the Cancer Prevention and Research Institute of Texas (CPRIT)
on Business Activity in Texas



The Anticipated Gross Annual Benefits of All Prevention and Research Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Based on Operations and Awards in Fiscal Year 2016)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)			
Agriculture	\$215,946,338	\$72,562,331	\$50,749,260	676			
Mining	\$948,849,789	\$430,117,471	\$159,536,394	634			
Construction	\$463,733,617	\$236,379,144	\$185,949,906	2,705			
Nondurable Manufacturing	\$1,936,848,678	\$781,833,761	\$570,011,210	3,589			
Durable Manufacturing	\$797,809,612	\$392,686,623	\$298,612,080	2,461			
Transportation and Utilities	\$1,399,634,154	\$527,725,156	\$326,963,117	3,145			
Information	\$364,255,797	\$242,493,539	\$116,364,229	951			
Wholesale Trade	\$504,755,757	\$384,860,878	\$232,586,944	2,455			
Retail Trade (including Restaurants)	\$2,035,062,346	\$1,580,477,372	\$952,591,239	28,278			
FIRE	\$2,829,207,179	\$931,597,360	\$407,064,142	3,235			
Business Services	\$863,947,212	\$610,974,790	\$502,529,120	5,781			
Health Services	\$1,057,395,630	\$808,482,294	\$673,405,199	11,316			
Other Services	\$1,521,827,567	\$972,062,512	\$836,955,361	13,848			
TOTAL	\$14,939,273,676	\$7,972,253,232	\$5,313,318,200	79,075			
SOURCE: US Multi-Reg	SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group						



The Anticipated Gross Annual Benefits of All Prevention and Research Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Impact in Year 10 Based Upon Attaining Sustainable Levels of Prevention and Research Funding Through Conclusion of Program)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)		
Agriculture	\$320,937,372	\$108,612,705	\$76,226,949	1,004		
Mining	\$1,455,929,363	\$662,689,188	\$245,515,181	971		
Construction	\$696,911,670	\$354,871,981	\$278,827,865	4,057		
Nondurable Manufacturing	\$2,927,406,695	\$1,195,834,572	\$878,753,681	5,366		
Durable Manufacturing	\$1,216,678,232	\$602,359,442	\$459,679,053	3,747		
Transportation and Utilities	\$2,102,567,809	\$792,572,869	\$492,569,746	4,703		
Information	\$546,082,200	\$364,606,480	\$175,748,363	1,428		
Wholesale Trade	\$757,133,172	\$579,590,240	\$351,092,899	3,691		
Retail Trade (including Restaurants)	\$3,037,941,118	\$2,362,802,117	\$1,426,898,754	42,253		
FIRE	\$4,247,955,340	\$1,408,252,964	\$620,299,930	4,883		
Business Services	\$1,302,588,813	\$924,812,016	\$760,977,010	8,739		
Health Services	\$1,594,118,223	\$1,221,312,749	\$1,016,988,044	17,087		
Other Services	\$2,112,168,941	\$1,356,426,305	\$1,169,545,797	18,242		
TOTAL	\$22,318,418,949	\$11,934,743,628	\$7,953,123,271	116,172		
SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group						



The Anticipated Gross Cumulative Ten-Year Benefits of All Prevention and Research Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Cumulative Impact Over Ten Years Assuming Sustainable Level of Prevention and Research Funding Achieved Through Conclusion of Program)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Person Years)			
Agriculture	\$2,562,344,788	\$866,030,460	\$607,370,631	8,019			
Mining	\$11,595,796,646	\$5,275,895,851	\$1,954,389,477	7,737			
Construction	\$5,558,878,221	\$2,830,435,298	\$2,223,952,108	32,364			
Nondurable Manufacturing	\$23,326,451,501	\$9,507,314,867	\$6,976,420,291	42,795			
Durable Manufacturing	\$9,689,186,875	\$4,791,308,270	\$3,653,774,130	29,839			
Transportation and Utilities	\$16,772,205,651	\$6,320,286,196	\$3,925,622,183	37,529			
Information	\$4,356,904,950	\$2,907,926,839	\$1,400,591,022	11,389			
Wholesale Trade	\$6,040,130,434	\$4,621,718,138	\$2,798,290,344	29,443			
Retail Trade (including Restaurants)	\$24,248,161,376	\$18,855,784,470	\$11,382,937,115	337,227			
FIRE	\$33,889,567,866	\$11,224,350,723	\$4,937,740,301	38,938			
Business Services	\$10,386,614,998	\$7,371,418,529	\$6,064,947,004	69,672			
Health Services	\$12,749,366,226	\$9,764,319,286	\$8,131,049,669	136,627			
Other Services	\$16,921,832,266	\$10,855,858,358	\$9,356,630,985	146,825			
TOTAL	\$178,097,441,798	\$95,192,647,283	\$63,413,715,260	928,405			
SOURCE: US Multi-Reg	SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group						



The Anticipated Net Benefits of All Prevention and Research Programs
Associated with the Cancer Prevention and Research Institute of Texas (CPRIT)
on Business Activity in Texas



The Anticipated Net Annual Benefits of All Prevention and Research Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Based on Operations and Awards in Fiscal Year 2016)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)						
Agriculture	\$191,522,196	\$65,302,465	\$45,945,509	599						
Mining	\$927,825,455	\$425,243,854	\$156,854,781	618						
Construction	\$426,272,858	\$216,301,894	\$169,404,998	2,470						
Nondurable Manufacturing	\$1,796,755,215	\$741,167,786	\$548,455,980	3,220						
Durable Manufacturing	\$761,393,942	\$378,388,657	\$289,398,840	2,331						
Transportation and Utilities	\$1,284,096,300	\$482,028,425	\$300,333,287	2,844						
Information	\$331,988,517	\$222,662,367	\$107,815,585	870						
Wholesale Trade	\$460,360,976	\$354,816,270	\$215,262,955	2,256						
Retail Trade (including Restaurants)	\$1,831,495,481	\$1,427,695,035	\$863,762,935	25,523						
FIRE	\$2,592,701,876	\$867,875,529	\$385,594,424	3,011						
Business Services	\$801,284,665	\$572,787,080	\$471,377,737	5,405						
Health Services	\$981,614,653	\$754,787,233	\$628,005,527	10,556						
Other Services	\$1,067,107,983	\$689,994,761	\$595,205,721	8,024						
TOTAL	\$13,454,420,116	\$7,199,051,356	\$4,777,418,277	67,729						
SOURCE: US Multi-Regi	ional Impact Assessment S	ystem, The Perryman Grou	ıp	SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group						



The Anticipated Net Annual Benefits of All Prevention and Research Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Impact in Year 10 Based Upon Attaining Sustainable Levels of Prevention and Research Funding Through Conclusion of Program)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Inco (2016 Dolla		loyment nt Jobs)
Agriculture		\$296,513,231 \$	101,352,839	\$71,423,199	928
Mining	\$1	1,434,905,030 \$	657,815,571	\$242,833,568	956
Construction		\$659,450,910 \$	334,794,731	\$262,282,956	3,822
Nondurable Manufactur	ing \$2	2,787,313,232 \$1,	155,168,598	\$857,198,451	4,996
Durable Manufacturing	\$1	1,180,262,561 \$	588,061,476	\$450,465,812	3,617
Transportation and Util	ities \$1	1,987,029,955 \$	746,876,138	\$465,939,916	4,402
Information		\$513,814,919 \$	344,775,308	\$167,199,719	1,347
Wholesale Trade		\$712,738,391 \$	549,545,632	\$333,768,910	3,493
Retail Trade (including	Restaurants) \$2	2,834,374,252 \$2,	210,019,781 \$ ⁻	1,338,070,450	39,498
FIRE	\$4	1,011,450,038 \$1,	344,531,133	\$598,830,211	4,659
Business Services	\$1	1,239,926,267 \$	886,624,307	\$729,825,627	8,363
Health Services	\$1	1,518,337,246 \$1,	167,617,688	\$971,588,373	16,328
Other Services	\$1	1,657,449,357 \$1,	074,358,554	\$927,796,157	12,418
TOTAL	\$20),833,565,389 \$11,	161,541,752 \$7	7,417,223,348	104,826
SOURCE: US Multi-Regi	onal Impact Assessment S	System, The Perryman Gro	oup		



The Anticipated Net Cumulative Ten-Year Benefits of All Prevention and Research Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Cumulative Impact Over Ten Years Assuming Sustainable Level of Prevention and Research Funding Achieved Through Conclusion of Program)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Person Years)
Agriculture	\$2,359,175,969	\$805,682,719	\$567,440,254	7,383
Mining	\$11,421,091,586	\$5,235,393,698	\$1,932,101,822	7,607
Construction	\$5,248,284,371	\$2,663,993,694	\$2,086,793,827	30,414
Nondurable Manufacturing	\$22,160,984,294	\$9,168,974,819	\$6,797,107,220	39,719
Durable Manufacturing	\$9,386,408,923	\$4,672,438,144	\$3,577,165,014	28,758
Transportation and Utilities	\$15,812,445,569	\$5,940,716,182	\$3,704,440,073	35,026
Information	\$4,088,591,631	\$2,743,022,012	\$1,329,505,285	10,717
Wholesale Trade	\$5,670,795,794	\$4,371,767,613	\$2,654,166,640	27,791
Retail Trade (including Restaurants)	\$22,554,636,174	\$17,584,721,718	\$10,643,931,218	314,308
FIRE	\$31,923,967,745	\$10,695,067,461	\$4,759,224,990	37,079
Business Services	\$9,867,103,774	\$7,054,790,257	\$5,806,659,489	66,553
Health Services	\$12,084,464,771	\$9,292,707,390	\$7,732,297,443	129,955
Other Services	\$13,171,998,494	\$8,530,546,334	\$7,363,897,245	98,815
TOTAL	\$165,749,949,094	\$88,759,822,041	\$58,954,730,520	834,124
SOURCE: US Multi-Reg	ional Impact Assessment Sys	stem, The Perryman Group		



The Potential Annual Impact of a Substantial Reduction in Cancer Incidence as a Consequence of the Catalytic Effect Resulting from the Initiatives of the Cancer Prevention and Research Institute of Texas (CPRIT) (as of 2040)



The Potential Annual Impact of a Substantial Reduction in Cancer Incidence as a Consequence of the Catalytic Effect Resulting from the Initiatives of the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (as of 2040)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)
Agriculture	\$371,695,327	\$107,478,421	\$66,958,331	1,168
Mining	\$1,918,892,932	\$866,834,320	\$305,013,046	1,274
Construction	\$865,603,906	\$426,069,788	\$327,900,090	5,004
Nondurable Manufacturing	\$3,059,940,111	\$850,269,399	\$446,864,030	5,344
Durable Manufacturing	\$1,364,737,421	\$562,988,994	\$376,705,804	3,946
Transportation and Utilities	\$2,568,373,678	\$889,397,739	\$509,053,664	5,626
Information	\$657,079,944	\$428,226,526	\$187,816,717	1,728
Wholesale Trade	\$892,603,891	\$671,666,203	\$379,537,986	4,404
Retail Trade (including Restaurants)	\$3,641,050,267	\$2,795,771,140	\$1,615,286,973	50,803
FIRE	\$5,226,712,265	\$1,616,117,667	\$606,554,267	6,088
Business Services	\$1,602,200,440	\$1,123,884,378	\$911,603,282	10,858
Health Services	\$2,011,351,413	\$1,536,531,522	\$1,271,138,231	21,667
Other Services	\$1,661,415,758	\$872,001,240	\$673,578,484	15,941
TOTAL	\$25,841,657,353	\$12,747,237,337	\$7,678,010,906	133,850

NOTE: This scenario assumes that the incidence of and death rate from cancer in Texas over time is reduced to the average of current levels observed in the five states with the lowest incidence and death rates.

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Potential Annual Impact of a Substantial Reduction in Cancer Incidence as a Consequence of the Catalytic Effect Resulting from the Initiatives of the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in the United States (as of 2040)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)
Agriculture	\$4,235,925,433	\$1,233,370,512	\$758,077,627	13,212
Mining	\$18,804,115,499	\$8,474,649,186	\$3,009,150,429	12,733
Construction	\$8,711,716,141	\$4,305,841,450	\$3,310,547,563	50,565
Nondurable Manufacturing	\$55,123,773,209	\$14,466,871,119	\$7,488,041,305	91,862
Durable Manufacturing	\$16,986,894,186	\$6,838,266,544	\$4,574,641,614	48,178
Transportation and Utilities	\$30,778,078,892	\$10,292,296,840	\$5,801,720,908	62,161
Information	\$6,697,507,643	\$4,365,871,096	\$1,914,046,179	17,573
Wholesale Trade	\$8,942,429,557	\$6,728,995,664	\$3,802,349,218	44,118
Retail Trade (including Restaurants)	\$36,685,774,400	\$28,143,433,162	\$16,255,462,755	512,059
FIRE	\$51,991,369,697	\$16,304,298,605	\$6,266,192,743	62,783
Business Services	\$16,146,102,664	\$11,325,894,123	\$9,186,640,958	109,424
Health Services	\$19,930,040,162	\$15,225,153,968	\$12,595,430,029	214,690
Other Services	\$17,223,009,244	\$9,003,718,836	\$6,975,356,404	165,530
TOTAL	\$292,256,736,727	\$136,708,661,104	\$81,937,657,733	1,404,887

NOTE: This scenario assumes that the incidence of and death rate from cancer in the US over time is reduced to the average of current levels observed in the five states with the lowest incidence and death rates.

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



Incremental Impact Associated with Becoming a Major Center of Biomedical Production as a Partial Consequence of the Catalytic Effect Resulting from the Initiatives of the Cancer Prevention and Research Institute of Texas (CPRIT) and Other Initiatives on Business Activity in Texas



The Potential Annual Incremental Impact Associated with Becoming a Major Center of Biomedical Production as a Partial Consequence of the Catalytic Effect Resulting from the Initiatives of the Cancer Prevention and Research Institute of Texas (CPRIT) and Other Initiatives on Business Activity in Texas (Scenario I* as of 2040)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)
Agriculture	\$609,583,407	\$171,389,015	\$113,035,258	1,727
Mining	\$522,808,061	\$124,306,908	\$69,105,185	405
Construction	\$587,736,001	\$313,650,122	\$258,467,238	3,511
Nondurable Manufacturing	\$12,703,164,638	\$5,203,488,027	\$2,530,965,046	24,961
Durable Manufacturing	\$7,866,206,710	\$3,274,677,525	\$2,420,542,973	30,383
Transportation and Utilities	\$2,684,242,993	\$1,076,101,840	\$628,365,392	6,873
Information	\$814,008,425	\$496,086,830	\$213,624,868	1,898
Wholesale Trade	\$1,615,896,863	\$1,092,492,056	\$629,940,652	6,784
Retail Trade (including Restaurants)	\$4,310,303,426	\$3,199,396,640	\$1,853,962,240	55,547
FIRE	\$4,435,158,544	\$1,167,536,960	\$455,491,522	4,499
Business Services	\$1,553,631,521	\$938,082,034	\$765,234,562	8,968
Health Services	\$979,275,167	\$684,696,815	\$578,917,497	9,210
Other Services	\$1,877,651,562	\$971,555,215	\$781,691,956	18,005
TOTAL	\$40,559,667,317	\$18,713,459,986	\$11,299,344,388	172,770

^{*}This scenario assumes that Texas achieves a concentration in the biomedical industry (pharmaceuticals and medical equipment) by 2040 equivalent to that of the US. Only incremental gains above baseline projections are included. SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Potential Annual Incremental Impact Associated with Becoming a Major Center of Biomedical Production as a Partial Consequence of the Catalytic Effect Resulting from the Initiatives of the Cancer Prevention and Research Institute of Texas (CPRIT) and Other Initiatives on Business Activity in Texas (Scenario II* as of 2040)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Permanent Jobs)
Agriculture	\$839,569,462	\$236,657,007	\$155,993,877	2,382
Mining	\$711,119,782	\$169,231,684	\$93,976,292	551
Construction	\$793,598,888	\$423,529,330	\$349,014,546	4,740
Nondurable Manufacturing	\$18,555,440,819	\$7,682,055,547	\$3,726,273,604	35,840
Durable Manufacturing	\$9,237,504,613	\$3,847,643,654	\$2,833,242,042	35,659
Transportation and Utilities	\$3,616,409,744	\$1,451,169,028	\$847,763,713	9,280
Information	\$1,115,687,817	\$679,234,572	\$292,443,530	2,596
Wholesale Trade	\$2,171,064,300	\$1,467,930,011	\$846,421,520	9,116
Retail Trade (including Restaurants)	\$5,798,830,982	\$4,300,747,742	\$2,491,584,495	74,739
FIRE	\$5,995,784,914	\$1,588,139,812	\$617,779,100	6,095
Business Services	\$2,150,367,108	\$1,297,394,071	\$1,058,341,113	12,403
Health Services	\$1,312,752,659	\$917,926,511	\$776,115,368	12,347
Other Services	\$2,530,929,494	\$1,310,305,413	\$1,054,482,536	24,275
TOTAL	\$54,829,060,583	\$25,371,964,380	\$15,143,431,737	230,024

^{*}This scenario assumes that Texas achieves a concentration in the biomedical industry (pharmaceuticals and medical equipment) by 2040 equivalent to that of California. Only incremental gains above baseline projections are included. SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



Losses from Failing to Extend the Prevention and Research Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas



The Anticipated Gross Cumulative Ten-Year Losses of Failing to Extend the Prevention and Research Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Cumulative Impact Over Ten Years Assuming Loss of Current Level of Prevention and Research Funding)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Person Years)
Agriculture	(\$3,357,969,747)	(\$1,137,149,900)	(\$798,328,604)	(10,509)
Mining	(\$15,276,974,034)	(\$6,956,055,530)	(\$2,576,839,401)	(10,192)
Construction	(\$7,299,138,506)	(\$3,716,425,217)	(\$2,919,730,776)	(42,481)
Nondurable Manufacturing	(\$30,676,024,572)	(\$12,544,289,788)	(\$9,224,506,527)	(56,176)
Durable Manufacturing	(\$12,759,615,895)	(\$6,320,348,773)	(\$4,824,752,010)	(39,291)
Transportation and Utilities	(\$22,020,554,897)	(\$8,300,573,239)	(\$5,160,084,006)	(49,236)
Information	(\$5,718,164,732)	(\$3,818,893,812)	(\$1,841,531,240)	(14,951)
Wholesale Trade	(\$7,928,526,788)	(\$6,071,506,961)	(\$3,678,652,965)	(38,664)
Retail Trade (including Restaurants)	(\$31,798,806,617)	(\$24,735,261,858)	(\$14,940,284,951)	(442,305)
FIRE	(\$44,487,537,551)	(\$14,757,150,354)	(\$6,504,796,397)	(51,159)
Business Services	(\$13,646,706,828)	(\$9,692,300,599)	(\$7,975,556,840)	(91,577)
Health Services	(\$16,700,817,018)	(\$12,797,415,129)	(\$10,656,160,479)	(179,042)
Other Services	(\$21,957,211,986)	(\$14,108,261,218)	(\$12,166,180,213)	(188,639)
TOTAL	(\$233,628,049,172)	(\$124,955,632,378)	(\$83,267,404,409)	(1,214,220)

NOTE: Assumes CPRIT and its programs are not extended beyond the initial authorization. Losses are based on a comparison to the situation where CPRIT and all of its programs are continued for an additional ten years beyond the original authorization. All funding levels are sustained at the stabilized levels currently anticipated for the final year of the current program. Measured impacts do not include the residual benefits of the initial ten-year commitment, since those gains will accrue irrespective of whether or not the extension occurs.

SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Anticipated Net Cumulative Ten-Year Losses of Failing to Extend the Prevention and Research Programs Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Cumulative Impact Over Ten Years Assuming Loss of Current Level of Prevention and Research Funding)

Category	Total Expenditures (2016 Dollars)	Gross Product (2016 Dollars)	Personal Income (2016 Dollars)	Employment (Person Years)
Agriculture	(\$3,113,728,336)	(\$1,064,551,238)	(\$750,291,100)	(9,744)
Mining	(\$15,066,730,698)	(\$6,907,319,356)	(\$2,550,023,270)	(10,036)
Construction	(\$6,924,530,910)	(\$3,515,652,713)	(\$2,754,281,688)	(40,129)
Nondurable Manufacturing	(\$29,275,089,935)	(\$12,137,630,043)	(\$9,008,954,227)	(52,478)
Durable Manufacturing	(\$12,395,459,187)	(\$6,177,369,113)	(\$4,732,619,602)	(37,991)
Transportation and Utilities	(\$20,865,176,354)	(\$7,843,605,922)	(\$4,893,785,712)	(46,222)
Information	(\$5,395,491,931)	(\$3,620,582,097)	(\$1,756,044,800)	(14,142)
Wholesale Trade	(\$7,484,578,978)	(\$5,771,060,881)	(\$3,505,413,073)	(36,678)
Retail Trade (including Restaurants)	(\$29,763,137,964)	(\$23,207,438,492)	(\$14,052,001,911)	(414,757)
FIRE	(\$42,122,484,524)	(\$14,119,932,041)	(\$6,290,099,215)	(48,923)
Business Services	(\$13,020,081,364)	(\$9,310,423,502)	(\$7,664,043,008)	(87,817)
Health Services	(\$15,943,007,252)	(\$12,260,464,514)	(\$10,202,163,761)	(171,447)
Other Services	(\$17,410,016,142)	(\$11,287,583,706)	(\$9,748,683,814)	(130,398)
TOTAL	(\$218,779,513,573)	(\$117,223,613,619)	(\$77,908,405,183)	(1,100,761)

NOTE: Assumes CPRIT and its programs are not extended beyond the initial authorization. Losses are based on a comparison to the situation where CPRIT and all of its programs are continued for an additional ten years beyond the original authorization. All funding levels are sustained at the stabilized levels currently anticipated for the final year of the current program. Measured impacts do not include the residual benefits of the initial ten-year commitment, since those gains will accrue irrespective of whether or not the extension occurs. SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group