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:

2017 Update

THE PERRYMAN GROUP

510 N. Valley Mills Dr., Suite 300

Waco, TX 76710

ph. 254.751.9595, fax 254.751.7855

info@perrymangroup.com

www.perrymangroup.com





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Introduction

The Cancer Prevention and Research Institute of Texas (CPRIT) has been working to reduce the tragically high human and financial cost of cancer since 2010. CPRIT has helped attract more than 100 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 more than 200 new patents and patent applications, generated more than 100 clinical trials, and provided grants for screening and related education which have provided almost four million prevention services and are improving access to lifesaving testing for some of the state's most vulnerable populations.

Reducing the burden of cancer provides benefits to individuals, families, hospitals, state and local governments, insurance providers, and society as a whole. Through research and prevention/screening, 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 the productivity and lifespan 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).

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 \$38.7 billion in 2017 (about \$3.8 billion higher than in 2016), with total economic losses (including spinoff effects) of an estimated \$100.8 billion in output and over 1,045,800 jobs.
- The current total annual impact of all CPRIT operations, prevention/screening and research programs (including initial outlays and multiplier effects) includes \$705.5 million in output (real gross product) in 2017 as well as 10,139 jobs. When all secondary benefits are considered, these values rise to \$10.9 billion in output and 98,430 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 \$513.4 million in 2017; local public



entities receive \$239.8 million. Over the ten-year life of the current commitment, these gross incremental taxes are expected to total just under \$4.5 billion for the State and almost \$2.1 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 just over \$4.1 billion to the State and almost \$1.9 billion to local governments. These amounts are well in excess of the total commitment of State resources.

- If funding for CPRIT is not renewed, the net cumulative economic losses over the initial 10 years of these initiatives not being continued include an estimated \$107.3 billion in lost gross product and some 928,829 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.

Summary of Economic Benefits

Every Dollar Invested Through CPRIT Returns:

(Including Initial Outlays and Secondary (Downstream) Effects)

\$24.04	In Treatment Cost Savings and Resulting Economic Benefits through Earlier Detection from Prevention/Screening Activity in 2017
\$61.02	In Economic Activity (Total Expenditures) in 2017
\$34.33	In Output (Real Gross Product) in 2017
\$23.97	In Personal Income in 2017
\$8.13	In Retail Sales in 2017
\$2.06	In State Tax Receipts as of the 10 th Year of Operation (assuming stabilized levels of awards)
\$0.95	In Local Government Tax Receipts as of the 10 th Year of Operation (assuming stabilized levels of awards)

Source: The Perryman Group



Report Components

An approach consistent to prior years was used where possible in this 2017 update. At present, the initial CPRIT grants have been in place for more than seven 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 2016 are also given: both of these elements are newer features of the report which were included for the first time in the 2015 edition. A new addition to this year's report is an analysis of the losses associated with the top four cancer sites for annual deaths in Texas for 2017 which include lung and bronchus, colorectal, breast, and pancreas.

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 the 2015 report, 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 in new cases 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 1,688,780 new cases of cancer (836,150 male and 852,630 female) and 600,920 deaths from cancer (318,420 male and 282,500 female) in the US in 2017. The number of new cases expected in 2017 is slightly higher than the number for 2016 due to an increase in cases for women as the male estimates are slightly lower than in 2016. The expected cancer deaths show a slight increase of 5,230 over 2016.¹
- In Texas, a total of 116,200 new cases of cancer are expected in 2017, with 40,260 cancer deaths projected.² Compared to the American Cancer Society estimates for 2016, about 490 fewer cases and about 810 more deaths are expected in 2017. The Texas Cancer Registry projects slightly higher numbers for Texas in 2017 than the American Cancer Society with 120,173 new cases (62,215 male and 57,957 female), as well as 44,523 deaths (24,256 male and 20,267 female).³ As with the nation, cancer remains the second leading cause of death in the state after cardiovascular disease.⁴

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 \$38.7 billion in 2017, up notably from

¹ Cancer facts & figures 2017. (2017). American Cancer Society.

² Cancer facts & figures 2017. (2017). American Cancer Society.

³ Texas Cancer Registry, Cancer Epidemiology and Surveillance Branch, Texas Department of State Health Service, April 2017. Because of the additional detail provided in these estimates, they are used in much of the current analysis.

⁴ Cancer facts & figures 2017. (2017). American Cancer Society.



\$34.9 billion in 2016 and \$31.3 billion two years ago (according to TPG's update of existing information from the National Institutes of Health⁵ and a study of costs in Texas.⁶) In 2010, cancer treatment costs in Texas were \$11.5 billion in current dollars and just under \$13.0 billion in constant 2017 dollars. By 2020, treatment costs are expected to be \$18.9 billion in current dollars (a 64.6 % rise) and \$17.7 billion in constant 2017 dollars (a 36.3% 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 2016 was just over \$5.9 billion.
- The cost of treating cancer in Texas paid through Medicaid in 2016 was almost \$226.0 million.
- The CHIP program spent some \$5.3 million treating cancer in 2016.
- Costs of cancer treatment to Medicare totaled an estimated \$4.0 billion.
- The cost of treating cancer to other third-party payers in 2016 was determined to be just over \$2.6 billion.
- The out-of-pocket cost to cancer patients in 2016 was approximately \$2.0 billion.⁷

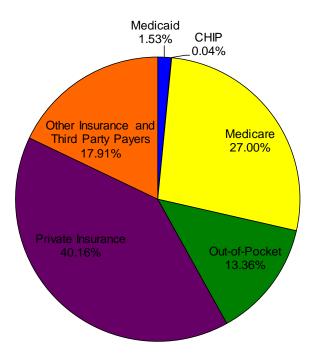
⁵ The National Institutes of Health (NIH) estimated the total overall cost of cancer in 2010 (the latest year for which such information is available) to be \$263.8 billion including direct medical costs of \$102.8 billion (including the total of all health expenditures), indirect morbidity costs (the cost of lost productivity due to illness) of \$20.9 billion, and indirect mortality costs (the cost of lost productivity due to premature death) of \$140.1 billion. See Cancer facts & figures 2011. (2011). American Cancer Society.

⁶ 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.

⁷ Medicaid and CHIP cancer expenditure data from AHQP Claims Universe, Texas Medicaid and Healthcare Partnership (TMHP); Enc_Best Picture Universe, TMHP; prepared by Data Quality and Dissemination, Center for Analytics and Decisions Support, Texas Health and Human Services Commission, October 2017. 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 Data Quality and Dissemination, Center for Analytics and Decisions Support, Texas Health and Human Services Commission, October 2017. All other expenditures are approximations by The Perryman Group based on best available data.

The Cost of Cancer Goes Well 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.

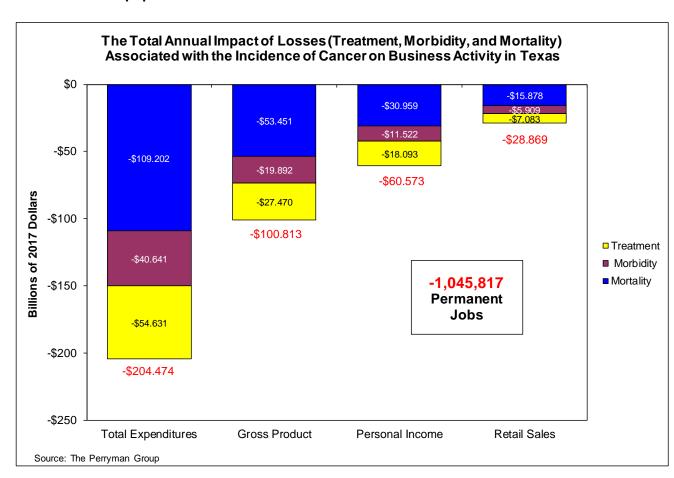
Dynamic State and local government revenues reflect tax receipts stemming from the increase in total economic activity. Monetary values were quantified on a constant (2017) basis, which eliminates inflationary effects and allows comparison across various time periods. See the Appendices to this report for additional information regarding the methods and assumptions used in this analysis.



Cancer Costs the Texas Economy \$204.5 Billion per Year

The Perryman Group's analysis indicates a total cost to the Texas economy of almost \$204.5 billion in reduced annual spending, \$100.8 billion in output losses per annum, and 1,045,800 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 \$169.9 billion in spending, \$83.8 billion in output, and 879,800 jobs. (These totals represent approximately 5.5% of the total output of the Texas economy and 8.2% of employment).
- The yearly loss in State fiscal revenues (including Medicaid and CHIP and uncompensated care) is some \$8.1 billion, while losses to local governments include about \$3.4 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 Fee	CT ON BUSINESS ACT	-13 (ITS)
ANNUAL EFFE		
	GROSS PRODUCT (Billions of 2017 Dollars)	(Permanent Jobs)
Panhandle	(\$1.856)	(19,467)
South Plains	(\$1.722)	(18,920)
Nortex	(\$1.362)	(14,415)
North Central Texas	(\$24.763)	(250,386)
Ark-Tex	(\$1.480)	(17,188)
East Texas	(\$4.978)	(52,849)
West Central Texas	(\$1.925)	(20,480)
Rio Grande	(\$3.152)	(33,744)
Permian Basin	(\$1.756)	(17,657)
Concho Valley	(\$0.807)	(8,502)
Heart of Texas	(\$1.922)	(21,493)
Capital Area	(\$5.202)	(56,609)
Brazos Valley	(\$1.161)	(12,827)
Deep East Texas	(\$2.166)	(24,934)
South East Texas	(\$2.161)	(24,315)
Houston-Galveston		
Area	(\$23.867)	(225,364)
Golden Crescent	(\$1.002)	(10,693)
Alamo Area	(\$9.562)	(104,129)
South Texas	(\$0.728)	(7,985)
Coastal Bend	(\$2.816)	(29,191)
Lower Rio Grande		
Valley	(\$3.131)	(36,210)
Texoma	(\$1.105)	(12,713)
Central Texas	(\$1.616)	(19,064)
Middle Rio Grande	(\$0.573)	(6,682)
Border Region	(\$7.587)	(84,656)
TOTAL STATE	(\$100.813)	(1,045,817)

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

Source: The Perryman Group



The Top Four Death Causing Cancers in Texas Cost the Texas Economy \$39.8 Billion per Year

As a new component of this year's analysis, The Perryman Group analyzed the losses associated with the top four cancer sites for annual deaths in Texas for 2017 which include lung and bronchus, colorectal, breast, and pancreas.

- The Perryman Group determined the total direct annual medical cost of these
 cancers in Texas is \$3.2 billion. The analysis also indicates a total cost to the Texas
 economy of just over \$39.8 billion in reduced annual spending, \$19.6 billion in
 reduced output per year, and 204,036 lost jobs from cancer treatment, morbidity,
 and mortality and the associated spillover effects.
- The following table illustrates total losses for each of these four cancers. Specifically, the analysis measures the total lifetime losses associated with the deaths in 2017 resulting from these four sites. Details of losses from treatment, morbidity, and mortality for each of these cancers can be found in the appendices.

The Total Impact of Losses (Treatment, Morbidity, and Mortality) from Lung and Bronchus, Colorectal, Breast, and Pancreatic Cancer Deaths in 2017 on Texas Business Activity

(Monetary Values in Billions of Constant 2017 Dollars)

ECONOMIC LOSSES

	Lung and Bronchus	Colorectal	Breast	Pancreatic	TOTAL
Total Expenditures	(\$20.7)	(\$8.7)	(\$4.6)	(\$5.8)	(\$39.8)
Gross Product	(\$10.2)	(\$4.3)	(\$2.3)	(\$2.8)	(\$19.6)
Personal Income	(\$6.1)	(\$2.6)	(\$1.4)	(\$1.7)	(\$11.8)
Retail Sales	(\$2.9)	(\$1.2)	(\$0.6)	(\$0.8)	(\$5.6)
Employment (Permanent Jobs)	(106,449)	(44,555)	(23,399)	(29,633)	(204,036)

Note: Medical costs based on (1) estimated costs per site for cancer cases over the diagnosis period as estimated by the National Institutes of Health (adjusted to reflect current dollars based on the Medical Services CPI for Texas areas as maintained by the US Bureau of Labor Statistics), (2) estimated deaths by cancer site in Texas for 2017 as compiled by the Texas Cancer Registry, and (3) estimated patterns following diagnosis based on patterns of incidence and death by site. Morbidity and mortality effects are estimated based on patterns relative to medical costs in Texas and approximate cost allocations over the disease cycle (which provides a reasonable proxy for morbidity and mortality patterns). Columns may not add to total due to rounding.

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 \$24.04 in treatment cost savings and resulting economic benefits through earlier detection.⁸
- The Perryman Group's analysis also estimates that **every \$1 spent on screening/prevention saves \$1.81 in direct health spending**. (These savings are included in the \$24.04 listed above.)

⁸ The reported benefits from screening and prevention are 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 10,139 Jobs in Texas in 2017

The direct outlays and related "multiplier" effects emanating from CPRIT operations and programs generated a sizable increase in business activity in Texas including \$705.5 million in output (gross product) and 10,139 jobs during fiscal year 2017.

- 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 2017 Dollars)

ECONOMIC BENEFITS

	Operations	Prevention & Screening	Research	TOTAL
Total Expenditures	\$28.8	\$108.7	\$1,216.5	\$1,354.0
Gross Product	\$14.6	\$59.2	\$631.6	\$705.5
Personal Income	\$10.0	\$41.4	\$437.6	\$489.0
Retail Sales	\$3.8	\$15.5	\$166.4	\$185.7
Employment (Permanent Jobs)	133	752	9,254	10,139
FISCAL BENEFITS				
State (Texas)	\$0.7	\$2.9	\$32.3	\$35.9
Local Governmental Entities Throughout the State	\$0.3	\$1.6	\$19.3	\$21.3
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 \$335.8 million in output (gross product) and 3,484 jobs in 2017 (on a net present value basis assuming typical outcomes from available academic studies⁹). Effects over 10 years are included in the Appendices to this report.
- The economic benefits of CPRIT-funded research activity compound over time. Current estimates of these secondary effects stemming from research include \$9.9 billion in output and 84,807 jobs in 2017. These gains are expected to continue to

⁹ As noted above, 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 III-health at Population Level, For Working Group on Public Health Policy Framework, May 2012.



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 98,430 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 \$19.5 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 \$10.9 billion in output and 98,430 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 2017 Dollars)

(IVIOITEL	ary values in Millions of Constant 2017 Dollars)	
ECONOMIC BENE	FITS*	
Total Expenditures		\$19,473.7
Gross Product		\$10,900.7
Personal Income		\$7,608.0
Retail Sales		\$2,599.3
Employment (Permanent Jobs)		98,430
FISCAL BENEFITS		
State (Texas)		\$513.4
Local Governmental Entities Throughout the State		\$239.8
*Based on budgeted Source: The Perryma	operations and reported awards in fiscal year 2017.	

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 2045 would include \$16.2 billion in gross product and about 168,440 permanent jobs. 10 Fiscal benefits of such a reduction in cancer incidence include an estimated \$912.4 million to the State each year and \$418.5 million to local government entities (in constant 2017 dollars). Moreover, these benefits do not include the obvious gains in quality of

¹⁰ Note that the time horizon has been increased from 2040 to 2045 this year to assure an ongoing assessment on a long-term basis. This change is consistent with the most recent long-term simulations of the Texas Econometric Model.



- life and would not be restricted to Texas; they would bring better outcomes throughout the country and, indeed, the entire world.
- Through November 2017, CPRIT had funded 1191 awards for cancer research, product development, and prevention since 2010 with the awards totaling \$1,886,823,912.11 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 135 cancer researchers and their labs to Texas. CPRIT's efforts have resulted in 108 new clinical trials with almost 9,800 patients. CPRIT has delivered over 1.85 million education and training services and over 2.03 million clinical services to Texans from every county in the state. CPRIT has awarded 32 grants for product development totaling just under \$330 million. With matching funds, the total investment for research and development is more than \$494 million as well as \$1.37 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 2,000 findings and received or applied for over 200 of patents. 12
- 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 2045 equivalent to that of the US, incremental gains would include \$19.5 billion in annual gross product and 173,415 jobs. If the state's concentration in the biomedical industry in 2045 reached a level equivalent to California, the incremental economic benefits would include \$27.0 billion in gross product each year and about 235,800 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 \$114.3 billion in lost gross product and some 1,030,221 lost person-years of employment. The gross fiscal losses over ten years of not extending CPRIT and its programs include almost \$5.4 billion to the State and \$2.5 billion to local governments. Note that these losses do

¹¹ Grant Counter, Cancer Prevention & Research Institute of Texas website, December 4, 2017.

¹² Achievements Report, August 2017, 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 \$107.3 billion in lost gross product and some 928,829 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 2017 Dollars)

ECONOMIC LOSS	ES*
Total Expenditures	(\$190.6)
Gross Product	(\$107.3)
Personal Income	(\$74.9)
Retail Sales	(\$25.4)
Employment (Person Years)	(928,829)
FISCAL LOSSES	
State (Texas)	(\$5.0)
Local Governmental Entities Throughout the State	(\$2.3)

^{*}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 from its efforts including some \$10.9 billion in output (gross product) and 98,430 jobs in 2017 (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.

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:

2017 Update

APPENDICES

THE PERRYMAN GROUP

510 N. Valley Mills Dr., Suite 300

Waco, TX 76710

ph. 254.751.9595, fax 254.751.7855

info@perrymangroup.com

www.perrymangroup.com





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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, has been peer reviewed on numerous occasions, 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 Dell Medical School 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 (the only non-medical professional to ever be so honored), while an analysis of the economics of Medicaid expansion under the Affordable Care Act helped frame the debate over participation. His work on health related aspects of issues such as indigent health care, mental health, jail diversion and drug treatment, hunger, and child maltreatment resulted in Dr. Perryman receiving the Cesar E. Chavez Legacy Award for his humanitarian efforts.



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 nearly 40 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

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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

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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 some 35 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 2017, 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 \$38.7 billion, up from \$34.9 billion last year and \$31.3 billion two years ago. The current estimate of \$38.7 billion is an increase of 76.7% above the estimate of \$21.9 billion in 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 2016 by payer is provided. The cancer expenditures by Medicaid and CHIP were provided by Data Quality and Dissemination, Center for Analytics and 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. A new addition to this year's report



is an analysis of the losses associated with the top four cancer sites for annual deaths in Texas for 2017 which include lung and bronchus, colorectal, breast, and pancreas. Specifically, this segment of the analysis measures the long-term consequences to the economy of the deaths from these four sites experienced in 2017. For this analysis, medical costs were based on (1) estimated costs per site for cancer cases over the diagnosis period as estimated by the National Institutes of Health (adjusted to reflect current dollars based on the Medical Services CPI for Texas areas as maintained by the US Bureau of Labor Statistics), (2) estimated deaths by cancer site in Texas for 2017 as compiled by the Texas Cancer Registry, and (3) estimated patterns following diagnosis based on patterns of incidence and death by site. Morbidity and mortality effects are estimated based on patterns relative to medical costs in Texas and approximate cost allocations over the disease cycle (which provides a reasonable proxy for morbidity and mortality patterns).

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 significantly higher than in earlier 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.

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 2045 equivalent to that of the US.
- Scenario II presumes Texas achieves a concentration in the biomedical industry
 (pharmaceuticals and medical equipment) by 2045 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

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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 2016 and \$1 million in 2017, it is appropriate to say that \$2 million was achieved in the 2016-17 period. If the same area has 100 people working in 2016 and 100 in 2017, 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



Results by Detailed Industrial Category									
Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)					
Agriculture	(\$998,257,399)	(\$273,653,186)	(\$180,023,444)	(2,774)					
Mining	(\$1,625,113,724)	(\$371,263,394)	(\$190,431,162)	(987)					
Construction	(\$1,373,969,062)	(\$700,406,303)	(\$577,178,543)	(8,016)					
Nondurable Manufacturing	(\$5,979,339,209)	(\$1,685,435,295)	(\$877,162,656)	(13,586)					
Durable Manufacturing	(\$2,081,741,474)	(\$831,221,264)	(\$542,596,071)	(6,918)					
Transportation and Utilities	(\$6,327,165,190)	(\$2,174,976,187)	(\$1,305,516,444)	(15,348)					
Information	(\$1,323,562,213)	(\$811,470,214)	(\$350,480,939)	(3,198)					
Wholesale Trade	(\$1,762,655,088)	(\$1,192,646,612)	(\$687,690,547)	(7,580)					
Retail Trade (including Restaurants)	(\$7,082,534,085)	(\$5,315,094,976)	(\$3,090,180,730)	(93,420)					
FIRE	(\$10,331,398,242)	(\$3,534,380,253)	(\$1,487,143,227)	(15,954)					
Business Services	(\$3,183,304,432)	(\$2,024,758,442)	(\$1,651,684,027)	(19,838)					
Health Services	(\$9,268,852,183)	(\$6,855,620,492)	(\$5,796,490,548)	(94,655)					
Other Services	(\$3,292,791,555)	(\$1,698,742,842)	(\$1,355,999,509)	(31,847)					
TOTAL	(\$54,630,683,854)	(\$27,469,669,460)	(\$18,092,577,846)	(314,121)					
Source: US Multi-Regiona	I Impact Assessment System	, The Perryman Group							





The Total Annual Impact of Direct Medical Expenses and Related Outlays **Associated with Cancer Treatment on Business Activity in Texas: Comptroller's Economic Region Results Real Retail Total Personal Economic Expenditures Gross Product** Income **Employment** Sales Region (Permanent Jobs) (2017 Dollars) (2017 Dollars) (2017 Dollars) (2017 Dollars) **High Plains** (\$1,863,182,630)(\$963,198,122) (\$634,963,396) (\$273,683,438) -11,268 **Northwest Texas** (\$1,524,673,071)(\$798,494,190) (\$531,725,798) (\$237,116,684) -9,562 (\$7,127,219,304) (\$4,647,787,010) Metroplex (\$14,212,268,721) (\$1,748,283,337)-79,725 **Upper East Texas** (\$3,270,028,954) (\$1,690,076,742) (\$1,130,895,945) (\$484,461,046) -20,202 **Southeast Texas** (\$2,224,604,586) (\$1,161,927,138) (\$787,840,695) (\$349,321,666) -14,123 **Gulf Coast** (\$4,114,032,469) -68,620 (\$13,257,182,075) (\$6,288,430,375) (\$1,408,045,434)(\$418,897,922) Capital (\$1,027,569,733)-17,966 (\$2,946,935,299) (\$1,557,458,634) **Central Texas** (\$2,499,716,917) (\$1,304,510,019) (\$868,448,654) (\$374,292,616) -15,645 -34,704 Alamo (\$5,805,376,339)(\$2,987,339,346) (\$1,975,214,209) (\$788,529,855) **South Texas** -24,658 (\$3,967,132,071)(\$2,049,432,425) (\$1,369,142,488) (\$588,548,398) **West Texas** -7,318 (\$1,238,830,224) (\$624,960,816) (\$410,922,537) (\$186,072,713) **Upper Rio Grande** (\$1,820,752,968) (\$916,622,348) (\$594,034,911) (\$225,280,977) -10,332 TOTAL STATE (\$54,630,683,854) (\$27,469,669,460) (\$18,092,577,846) (\$7,082,534,085) -314,121 **IMPACT** SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group



The Total Annual Impact of Direct Medical Expenses and Related Outlavs **Associated with Cancer Treatment on Business Activity in Texas:** Council of Governments (COG) Region Results **Total Personal Real Retail Expenditures Gross Product Employment** Income Sales COG (2017 Dollars) (2017 Dollars) (2017 Dollars) (2017 Dollars) (Permanent Jobs) **Panhandle** (\$943,458,999) (\$479,379,808) (\$315,102,669) (\$140,492,331) -5,609 **South Plains** (\$919,723,630) (\$483,818,314) (\$319,860,727) (\$133,191,106) -5,659 **Nortex** (\$611,282,969) (\$325,154,418) (\$217,753,474) (\$98,431,625) -3,923 **North Central** (\$13,628,586,149) (\$6,818,111,952) (\$4,439,995,017) (\$1,657,568,269) -75.979 **Texas** Ark-Tex (\$758,600,670)(\$396.538.302) (\$267,874,050)(\$120,285,274) -4.838**East Texas** -15,364 (\$2,511,428,284) (\$1,293,538,440) (\$863,021,895) (\$364,175,773) **West Central** (\$913,390,102)(\$473,339,772) (\$313,972,324)(\$138,685,059) -5,639 Texas -10,332 **Rio Grande** (\$1,820,752,968) (\$916,622,348) (\$594,034,911)(\$225,280,977)**Permian Basin** (\$831,645,101) (\$419,753,669) (\$277,323,186)(\$126,738,204) -4,909 **Concho Valley** (\$407,185,123) (\$205,207,147) (\$133,599,351) (\$59,334,509)-2,409 **Heart of Texas** (\$1,030,492,265) (\$523,885,582) (\$345,086,929) (\$142,959,383) -6,178 **Capital Area** (\$2,946,935,299) (\$1,557,458,634) (\$1,027,569,733) (\$418,897,922) -17,966 **Brazos Valley** -3,755 (\$600,103,023)(\$312,839,926)(\$207,782,490)(\$94,122,214)**Deep East Texas** (\$1,128,852,930) (\$596,334,549)(\$403,113,013)(\$181,648,240) -7,296**South East Texas** (\$565,592,588) -6,827 (\$1,095,751,657) (\$384,727,682)(\$167,673,426) Houston-(\$13,257,182,075) (\$6,288,430,375) (\$4,114,032,469) (\$1,408,045,434)-68,620 **Galveston Area Golden Crescent** (\$504,653,771) (\$258,496,072) (\$173,712,097) (\$76,518,942) -3,098 Alamo Area -31,610 (\$5,301,813,911)(\$2,729,317,994) (\$1,801,788,226) (\$712,137,643) **South Texas** (\$137,330,690) (\$380,163,855)(\$203,238,872)(\$65,265,119)-2,525 **Coastal Bend** (\$1,474,339,188) (\$723,369,933) (\$480,255,302) -8,509 (\$208,320,948) Lower Rio Grande (\$1,815,145,304) (\$962,975,811) (\$643,899,085) (\$266,500,360) -11,648 Valley -3,745 **Texoma** (\$583,682,572)(\$309,107,353)(\$207,791,993) (\$90,715,068) **Central Texas** (\$869,121,629) (\$467,784,511)(\$315,579,236)(\$137,211,018)-5,711 Middle Rio Grande (\$296,392,381) (\$159,373,088) (\$107,371,297)(\$48,335,239)-1,971 **Border Region** (\$4,314,581,040) (\$2,243,380,811) (\$1,483,418,660) (\$605,780,003) -26,490 **TOTAL STATE** (\$54,630,683,854) -314,121 (\$27,469,669,460) (\$18,092,577,846) (\$7,082,534,085)

IMPACT



The Total Annual Impact of Direct Medical Expenses and Related Outlavs **Associated with Cancer Treatment on Business Activity in Texas:** Metropolitan Statistical Area (MSA) and Rural Texas Results Total Personal **Real Retail Expenditures Gross Product Employment** Income Sales **MSA** (2017 Dollars) (2017 Dollars) (2017 Dollars) (2017 Dollars) (Permanent Jobs) Abilene (\$446,145,559) (\$226,604,351) (\$149,374,900) (\$59,922,952) -2,623 **Amarillo** (\$624,985,267) (\$326,902,894) (\$215,772,428) (\$89,277,267)-3,805 Austin-Round (\$2,536,197,509)(\$1,349,248,541) (\$890,854,795) (\$359,592,397)-15,522 Rock **Beaumont-Port** (\$1,114,791,531) (\$576,959,910) (\$392,720,616) (\$171,973,435) -6,974 **Arthur** Brownsville-(\$734,863,442)(\$381,457,115)(\$252,516,549) (\$104,064,107) -4,565 Harlingen College Station-(\$387,040,953) (\$200,434,461) (\$133,083,902) (\$58,243,493) -2.397 Bryan **Corpus Christi** -6,531 (\$1,168,573,605)(\$562,918,763) (\$372,440,840) (\$156,295,031) **Dallas-Plano-Irving** (\$8,286,468,285) (\$4,124,993,011) (\$2,666,555,135)(\$962,464,930)-45,037MD* Fort Worth-(\$5,030,809,946) (\$2,533,666,871) (\$1,666,896,122) (\$648,244,285)-29,011 Arlington MD* El Paso (\$889,859,752) -10,010 (\$1,769,929,494) (\$576,320,413)(\$216,744,224)**Houston-The** -65,335 Woodlands-Sugar (\$12,749,911,430) (\$6,022,275,912)(\$3,934,836,828) (\$1,324,142,781)Land Killeen-Temple (\$753,289,454) (\$406,740,192) (\$274,255,564) (\$117,027,111) -4,953 Laredo (\$288,678,645) (\$152,743,307) (\$102,476,109) (\$47,080,907)-1,865 Longview (\$611,664,082) (\$317,081,438) (\$213,537,848) (\$91,039,283)-3,788 (\$97,174,953) Lubbock (\$713,023,971)(\$378,625,589)(\$250,956,296) -4,392 McAllen-Edinburg-(\$1,044,221,553) (\$561,523,012) (\$378,058,752) (\$155,826,099) -6,836 Mission Midland (\$131,896,387) (\$37,575,770)-1,492 (\$260,003,493)(\$86,219,488) Odessa -1,813 (\$296,594,844) (\$151,865,926) (\$102,616,543) (\$44,020,198)San Angelo -1,717 (\$293,006,155) (\$147,291,077) (\$95,504,765) (\$40,255,392) San Antonio-New (\$4,950,660,194) (\$2,549,070,731) (\$1,682,343,264) (\$659,132,695) -29,450 **Braunfels Sherman-Denison** (\$361,212,110) (\$195,625,900) (\$132,049,449) (\$56,983,201)-2,392 Texarkana (\$252,134,540) (\$136,098,153) (\$92,152,170)(\$38,889,009)-1,646 Tyler (\$646,352,055)(\$327,401,035)(\$213,428,887)(\$87,148,308)-3,768Victoria (\$264,095,494) (\$134,511,574) (\$90,590,758)(\$38,708,967)-1,593 Waco (\$742,655,165)(\$376,398,290)(\$246,370,156)(\$97,496,251)-4,370Wichita Falls (\$379,466,799)(\$206,014,033) (\$138,605,938) (\$60,619,606) -2,484 **Rural Area** (\$7,923,908,281) (\$4,101,461,235) (\$2,742,039,331)(\$1,262,591,436) -49,753 **TOTAL STATE** (\$54,630,683,854) (\$27,469,669,460) (\$7,082,534,085) -314,121 (\$18,092,577,846) **IMPACT**

*Metropolitan Division



The Total Annual Impact of Direct Medical Expenses and Related Outlays Associated with Cancer Treatment on Business Activity in Texas:

	Total		Personal		Employment
County	Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Income (2017 Dollars)	Retail Sales (2017 Dollars)	(Permanent
Anderson	(\$130,398,051)	(\$71,847,488)	(\$48,845,608)	(\$20,380,147)	-870
Andrews	(\$26,351,338)	(\$13,008,119)	(\$8,301,055)	(\$4,195,315)	-145
Angelina	(\$246,638,298)	(\$129,049,029)	(\$86,707,803)	(\$37,538,696)	-1,563
Aransas	(\$105,444,783)	(\$48,841,277)	(\$31,117,229)	(\$15,573,608)	-562
Archer	(\$16,960,061)	(\$8,384,813)	(\$5,369,277)	(\$2,955,431)	-100
Armstrong	(\$6,385,073)	(\$3,313,680)	(\$2,275,481)	(\$685,606)	-38
Atascosa	(\$102,933,857)	(\$50,978,425)	(\$34,111,504)	(\$14,313,316)	-598
Austin	(\$72,561,100)	(\$34,117,024)	(\$21,821,345)	(\$9,027,664)	-364
Bailey	(\$9,984,804)	(\$5,122,244)	(\$3,210,821)	(\$1,802,396)	-57
Bandera	(\$67,079,122)	(\$33,452,390)	(\$21,647,681)	(\$10,712,482)	-394
Bastrop	(\$171,851,560)	(\$85,526,864)	(\$55,698,629)	(\$26,376,110)	-1,011
Baylor	(\$16,330,775)	(\$8,800,023)	(\$5,943,435)	(\$2,610,605)	-106
Bee	(\$52,997,571)	(\$28,584,326)	(\$19,469,054)	(\$9,002,085)	-357
Bell	(\$562,503,270)	(\$306,523,396)	(\$207,343,697)	(\$86,600,062)	-3,720
Bexar	(\$3,972,076,030)	(\$2,058,483,657)	(\$1,360,318,605)	(\$508,977,910)	-23,563
Blanco	(\$27,195,779)	(\$13,471,596)	(\$8,711,050)	(\$3,936,007)	-157
Borden	(\$7,381,689)	(\$3,361,355)	(\$2,015,153)	(\$1,013,772)	-33
Bosque	(\$60,606,996)	(\$31,610,013)	(\$21,388,412)	(\$7,924,436)	-377
Bowie	(\$252,134,540)	(\$136,098,153)	(\$92,152,170)	(\$38,889,009)	-1,646
Brazoria	(\$559,653,782)	(\$271,874,364)	(\$180,163,056)	(\$87,376,055)	-3,257
Brazos	(\$289,528,233)	(\$149,918,648)	(\$99,313,533)	(\$40,419,364)	-1,773
Brewster	(\$22,930,485)	(\$12,748,711)	(\$8,619,283)	(\$3,690,855)	-154
Briscoe	(\$4,074,555)	(\$1,833,264)	(\$1,128,056)	(\$715,362)	-21
Brooks	(\$13,767,190)	(\$7,785,754)	(\$5,451,835)	(\$2,700,626)	-102
Brown	(\$108,242,656)	(\$60,864,333)	(\$41,389,425)	(\$19,354,484)	-773
Burleson	(\$48,893,772)	(\$25,442,934)	(\$16,923,106)	(\$9,002,085)	-309
Burnet	(\$129,286,407)	(\$64,546,881)	(\$42,033,916)	(\$18,544,296)	-750
Caldwell	(\$93,186,730)	(\$47,451,735)	(\$32,312,134)	(\$13,863,212)	-580
Calhoun	(\$33,375,517)	(\$13,917,397)	(\$8,961,263)	(\$4,520,552)	-160
Callahan	(\$44,618,062)	(\$21,777,844)	(\$14,288,099)	(\$6,751,564)	-257
Cameron	(\$734,863,442)	(\$381,457,115)	(\$252,516,549)	(\$104,064,107)	-4,565
Camp	(\$31,154,262)	(\$16,443,003)	(\$11,244,347)	(\$4,393,555)	-201
Carson	(\$7,343,971)	(\$2,903,260)	(\$1,700,571)	(\$562,205)	-28
Cass	(\$84,987,260)	(\$44,212,094)	(\$29,995,176)	(\$14,949,618)	-550
Castro	(\$8,535,020)	(\$3,908,721)	(\$2,449,781)	(\$1,473,008)	-47
Chambers	(\$64,663,734)	(\$25,868,852)	(\$16,138,532)	(\$7,471,423)	-282
Cherokee	(\$130,024,316)	(\$69,855,116)	(\$48,053,243)	(\$20,277,582)	-869
Childress	(\$17,966,620)	(\$9,384,560)	(\$6,346,092)	(\$3,060,709)	-118
Clay	(\$30,090,452)	(\$15,272,172)	(\$10,369,469)	(\$4,281,808)	-181
Cochran	(\$3,919,570)	(\$1,866,453)	(\$1,194,582)	(\$541,076)	-21
Coke	(\$12,494,602)	(\$6,060,737)	(\$3,911,877)	(\$2,076,023)	-69
Coleman	(\$33,695,213)	(\$17,675,803)	(\$11,858,923)	(\$5,311,230)	-213
Collin	(\$1,158,030,390)	(\$603,342,370)	(\$398,021,563)	(\$163,263,711)	-6,902
Collingsworth	(\$7,812,592)	(\$4,214,235)	(\$2,814,956)	(\$1,467,121)	-51



	County Results						
	Total		Personal		Employment		
County	Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Income (2017 Dollars)	Retail Sales (2017 Dollars)	(Permanent Jobs)		
Colorado	(\$74,149,511)	(\$38,368,061)	(\$25,889,107)	(\$11,957,455)	-484		
Comal	(\$288,456,141)	(\$147,048,182)	(\$96,606,592)	(\$41,679,656)	-1,763		
Comanche	(\$45,228,132)	(\$23,989,244)	(\$16,209,343)	(\$6,713,635)	-288		
Concho	(\$7,737,962)	(\$4,228,480)	(\$2,972,452)	(\$1,133,138)	-53		
Cooke	(\$110,345,829)	(\$53,840,078)	(\$35,586,703)	(\$17,193,983)	-637		
Coryell	(\$123,017,224)	(\$64,798,970)	(\$43,189,442)	(\$19,624,546)	-794		
Cottle	(\$6,451,577)	(\$3,686,005)	(\$2,493,167)	(\$1,048,266)	-43		
Crane	(\$5,129,931)	(\$2,784,694)	(\$1,933,237)	(\$712,380)	-34		
Crockett	(\$6,343,467)	(\$3,174,216)	(\$2,023,518)	(\$1,440,334)	-40		
Crosby	(\$14,539,833)	(\$8,048,180)	(\$5,520,102)	(\$1,696,327)	-95		
Culberson	(\$3,905,100)	(\$2,219,936)	(\$1,488,146)	(\$990,229)	-30		
Dallam	(\$10,010,273)	(\$5,086,305)	(\$3,189,707)	(\$1,469,376)	-57		
Dallas	(\$5,260,658,175)	(\$2,580,979,275)	(\$1,650,641,975)	(\$537,897,116)	-27,184		
Dawson	(\$30,160,118)	(\$14,516,869)	(\$8,920,808)	(\$5,192,423)	-164		
Deaf Smith	(\$21,878,263)	(\$10,468,817)	(\$6,665,894)	(\$2,811,861)	-117		
Delta	(\$14,100,912)	(\$7,456,521)	(\$5,161,519)	(\$1,421,488)	-86		
Denton	(\$1,023,524,425)	(\$513,185,998)	(\$335,107,193)	(\$130,710,280)	-5,808		
DeWitt	(\$66,730,455)	(\$35,280,861)	(\$23,864,433)	(\$10,082,336)	-429		
Dickens	(\$7,295,238)	(\$3,764,229)	(\$2,471,477)	(\$1,307,503)	-44		
Dimmit	(\$15,655,235)	(\$8,311,688)	(\$5,745,364)	(\$2,880,667)	-108		
Donley	(\$13,058,180)	(\$7,434,547)	(\$5,159,490)	(\$2,610,605)	-98		
Duval	(\$23,833,125)	(\$12,126,657)	(\$8,269,851)	(\$3,175,899)	-147		
Eastland	(\$57,107,868)	(\$28,836,919)	(\$19,217,254)	(\$9,812,273)	-360		
Ector	(\$296,594,844)	(\$151,865,926)	(\$102,616,543)	(\$44,020,198)	-1,813		
Edwards	(\$4,295,905)	(\$2,066,735)	(\$1,238,140)	(\$733,030)	-23		
El Paso	(\$1,767,161,645)	(\$888,495,221)	(\$575,512,467)	(\$215,960,029)	-9,992		
Ellis	(\$277,514,203)	(\$133,469,302)	(\$86,112,311)	(\$41,743,240)	-1,565		
Erath	(\$77,619,082)	(\$42,943,731)	(\$29,440,282)	(\$13,593,149)	-545		
Falls	(\$52,602,813)	(\$28,600,041)	(\$19,497,060)	(\$7,835,480)	-347		
Fannin	(\$112,124,633)	(\$59,641,375)	(\$40,155,841)	(\$16,537,884)	-717		
Fayette	(\$101,969,572)	(\$52,535,184)	(\$34,787,518)	(\$14,043,253)	-616		
Fisher	(\$11,914,772)	(\$6,527,946)	(\$4,392,023)	(\$1,968,068)	-79		
Floyd	(\$12,159,427)	(\$5,710,680)	(\$3,631,338)	(\$1,400,596)	-63		
Foard	(\$3,075,218)	(\$1,753,414)	(\$1,237,973)	(\$467,297)	-22		
Fort Bend	(\$935,285,134)	(\$442,764,289)	(\$284,642,093)	(\$122,177,152)	-4,900		
Franklin	(\$23,807,837)	(\$12,216,113)	(\$8,205,018)	(\$3,700,355)	-149		
Freestone	(\$50,840,745)	(\$25,380,812)	(\$16,607,420)	(\$9,002,085)	-307		
Frio	(\$33,355,156)	(\$16,567,850)	(\$10,931,212)	(\$4,807,081)	-195		
Gaines	(\$19,565,502)	(\$8,790,318)	(\$5,409,930)	(\$2,955,769)	-96		
Galveston	(\$857,643,881)	(\$426,095,827)	(\$282,084,886)	(\$116,036,881)	-4,961		
Garza	(\$10,439,031)	(\$4,869,631)	(\$3,092,133)	(\$1,810,826)	-56		
Gillespie	(\$96,859,755)	(\$49,772,053)	(\$33,251,675)	(\$14,403,337)	-601		
Glasscock	(\$993,186)	(\$425,137)	(\$252,411)	(\$86,507)	-4		
Goliad	(\$17,662,966)	(\$9,520,179)	(\$6,578,883)	(\$3,690,855)	-125		



The Total Annual Impact of Direct Medical Expenses and Related Outlays Associated with Cancer Treatment on Business Activity in Texas:

County Results						
	Total		Personal		Employment	
County	Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Income (2017 Dollars)	Retail Sales (2017 Dollars)	(Permanent Jobs)	
Gonzales	(\$37,873,446)	(\$20,043,659)	(\$13,664,388)	(\$5,989,599)	-247	
Gray	(\$73,238,595)	(\$36,284,606)	(\$24,532,422)	(\$11,477,183)	-440	
Grayson	(\$361,212,110)	(\$195,625,900)	(\$132,049,449)	(\$56,983,201)	-2,392	
Gregg	(\$363,731,558)	(\$193,679,500)	(\$131,413,909)	(\$53,742,450)	-2,325	
Grimes	(\$45,162,998)	(\$23,403,253)	(\$15,758,751)	(\$7,664,898)	-288	
Guadalupe	(\$230,091,581)	(\$114,970,094)	(\$74,836,852)	(\$39,879,238)	-1,400	
Hale	(\$58,853,675)	(\$32,495,563)	(\$21,946,472)	(\$11,262,345)	-412	
Hall	(\$11,364,947)	(\$5,833,888)	(\$3,761,557)	(\$1,725,979)	-67	
Hamilton	(\$24,660,882)	(\$12,978,444)	(\$8,818,360)	(\$4,230,980)	-162	
Hansford	(\$6,304,576)	(\$2,543,198)	(\$1,489,994)	(\$747,230)	-25	
Hardeman	(\$11,229,515)	(\$6,112,476)	(\$4,066,341)	(\$2,430,563)	-79	
Hardin	(\$139,456,624)	(\$70,283,870)	(\$46,236,660)	(\$22,865,297)	-838	
Harris	(\$8,945,225,803)	(\$4,171,875,917)	(\$2,718,156,391)	(\$812,483,993)	-44,082	
Harrison	(\$194,633,475)	(\$94,050,010)	(\$63,234,480)	(\$23,652,857)	-1,079	
Hartley	(\$2,715,841)	(\$1,297,798)	(\$834,237)	(\$393,055)	-15	
Haskell	(\$17,630,422)	(\$9,370,896)	(\$6,477,465)	(\$2,637,636)	-114	
Hays	(\$243,482,720)	(\$128,234,890)	(\$84,896,190)	(\$36,728,509)	-1,525	
Hemphill	(\$4,359,143)	(\$1,999,381)	(\$1,273,165)	(\$591,058)	-22	
Henderson	(\$310,947,633)	(\$158,369,393)	(\$104,634,975)	(\$44,560,323)	-1,876	
Hidalgo	(\$1,044,221,553)	(\$561,523,012)	(\$378,058,752)	(\$155,826,099)	-6,836	
Hill	(\$113,647,260)	(\$57,010,968)	(\$37,555,728)	(\$17,644,087)	-703	
Hockley	(\$39,613,024)	(\$20,222,201)	(\$13,655,389)	(\$6,718,630)	-253	
Hood	(\$183,302,731)	(\$93,230,102)	(\$62,199,795)	(\$27,456,361)	-1,116	
Hopkins	(\$87,902,460)	(\$45,552,963)	(\$30,237,057)	(\$15,933,691)	-559	
Houston	(\$87,759,817)	(\$44,477,353)	(\$30,061,995)	(\$10,128,807)	-505	
Howard	(\$92,647,751)	(\$46,471,639)	(\$31,163,155)	(\$13,773,191)	-557	
Hudspeth	(\$2,767,849)	(\$1,364,531)	(\$807,946)	(\$784,194)	-17	
Hunt	(\$212,331,412)	(\$110,575,100)	(\$73,781,921)	(\$35,738,279)	-1,355	
Hutchinson	(\$51,227,150)	(\$23,275,186)	(\$14,951,925)	(\$10,381,928)	-283	
Irion	(\$3,434,055)	(\$1,349,670)	(\$780,201)	(\$466,175)	-14	
Jack	(\$18,772,853)	(\$8,993,168)	(\$5,823,245)	(\$3,318,956)	-106	
Jackson	(\$31,192,969)	(\$15,666,661)	(\$10,087,185)	(\$5,781,363)	-187	
Jasper	(\$105,056,382)	(\$56,443,702)	(\$38,459,938)	(\$17,760,697)	-707	
Jeff Davis	(\$8,131,247)	(\$4,230,645)	(\$2,835,717)	(\$1,245,064)	-51	
Jefferson	(\$730,224,855)	(\$379,739,290)	(\$259,956,578)	(\$107,574,921)	-4,565	
Jim Hogg	(\$10,195,135)	(\$5,065,865)	(\$3,186,667)	(\$2,160,501)	-61	
Jim Wells	(\$82,196,968)	(\$45,618,926)	(\$30,850,524)	(\$14,043,253)	-560	
Johnson	(\$350,867,436)	(\$181,242,617)	(\$122,208,424)	(\$52,122,075)	-2,201	
Jones	(\$57,850,593)	(\$29,906,373)	(\$20,128,585)	(\$8,070,940)	-358	
Karnes	(\$43,890,407)	(\$20,976,099)	(\$13,818,275)	(\$6,211,439)	-245	
Kaufman	(\$228,784,848)	(\$117,820,399)	(\$78,966,010)	(\$34,928,091)	-1,445	
Kendall	(\$90,595,190)	(\$44,064,055)	(\$28,695,184)	(\$13,413,107)	-516	
Kenedy	(\$2,444,109)	(\$1,140,874)	(\$725,731)	(\$688,860)	-17	
Kent	(\$2,799,714)	(\$1,276,761)	(\$782,114)	(\$406,595)	-13	



The Total Annual Impact of Direct Medical Expenses and Related Outlays Associated with Cancer Treatment on Business Activity in Texas:

	Total		Personal		Employment
County	Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Income (2017 Dollars)	Retail Sales (2017 Dollars)	(Permanent Jobs)
Kerr	(\$175,957,056)	(\$92,456,541)	(\$61,157,686)	(\$27,456,361)	-1,114
Kimble	(\$15,931,120)	(\$7,225,540)	(\$4,477,952)	(\$2,430,563)	-82
King	(\$3,417,745)	(\$1,608,771)	(\$998,246)	(\$362,446)	-16
Kinney	(\$12,582,969)	(\$5,991,104)	(\$3,733,285)	(\$1,939,040)	-69
Kleberg	(\$68,793,414)	(\$35,355,051)	(\$23,740,782)	(\$10,532,440)	-431
Knox	(\$10,811,628)	(\$5,732,461)	(\$3,871,042)	(\$1,444,512)	-67
La Salle	(\$10,175,516)	(\$5,517,774)	(\$3,756,768)	(\$1,890,438)	-71
Lamar	(\$155,366,386)	(\$80,384,756)	(\$54,509,201)	(\$24,377,935)	-991
Lamb	(\$23,181,248)	(\$11,101,450)	(\$7,244,957)	(\$3,460,828)	-128
Lampasas	(\$67,768,959)	(\$35,417,826)	(\$23,722,425)	(\$10,802,503)	-439
Lavaca	(\$71,385,890)	(\$39,075,920)	(\$26,544,070)	(\$11,436,125)	-482
Lee	(\$42,380,599)	(\$21,155,359)	(\$13,868,105)	(\$6,308,152)	-246
Leon	(\$40,452,519)	(\$20,676,572)	(\$13,032,622)	(\$8,391,983)	-246
Liberty	(\$201,202,737)	(\$105,504,302)	(\$71,784,599)	(\$29,988,536)	-1,266
Limestone	(\$62,742,100)	(\$33,485,498)	(\$23,165,213)	(\$10,892,523)	-422
Lipscomb	(\$6,962,400)	(\$3,037,605)	(\$1,838,076)	(\$796,649)	-32
Live Oak	(\$43,826,706)	(\$21,089,471)	(\$13,880,668)	(\$7,561,752)	-255
Llano	(\$109,905,432)	(\$56,501,074)	(\$37,314,350)	(\$16,473,816)	-674
Loving	(\$1,158,763)	(\$381,978)	(\$241,139)	(\$126,461)	-4
Lubbock	(\$688,874,315)	(\$365,886,924)	(\$242,490,312)	(\$94,521,897)	-4,249
Lynn	(\$9,609,823)	(\$4,690,485)	(\$2,945,883)	(\$956,729)	-48
Madison	(\$29,275,144)	(\$15,440,697)	(\$10,309,197)	(\$5,041,168)	-191
Marion	(\$38,403,815)	(\$19,925,058)	(\$13,487,566)	(\$6,301,460)	-251
Martin	(\$8,276,646)	(\$4,076,420)	(\$2,736,600)	(\$1,069,024)	-47
Mason	(\$16,946,054)	(\$8,527,272)	(\$5,594,136)	(\$2,520,584)	-101
Matagorda	(\$91,161,028)	(\$42,675,662)	(\$28,013,185)	(\$16,146,995)	-519
Maverick	(\$77,678,237)	(\$40,915,505)	(\$27,351,036)	(\$12,602,920)	-509
McCulloch	(\$28,492,959)	(\$15,147,563)	(\$10,305,691)	(\$4,591,064)	-185
McLennan	(\$690,052,352)	(\$347,798,250)	(\$226,873,096)	(\$89,660,771)	-4,023
McMullen	(\$1,091,343)	(\$474,720)	(\$286,114)	(\$126,731)	-5
Medina	(\$101,984,771)	(\$50,433,768)	(\$32,849,568)	(\$15,303,545)	-604
Menard	(\$7,281,375)	(\$3,696,166)	(\$2,330,897)	(\$1,440,334)	-43
Midland	(\$251,726,847)	(\$127,819,968)	(\$83,482,888)	(\$36,506,746)	-1,446
Milam	(\$61,888,629)	(\$31,538,767)	(\$21,338,179)	(\$10,540,015)	-390
Mills	(\$12,428,132)	(\$7,392,184)	(\$5,128,277)	(\$2,352,203)	-94
Mitchell	(\$22,332,708)	(\$11,953,718)	(\$8,089,949)	(\$3,654,133)	-145
Montague	(\$70,444,988)	(\$35,364,004)	(\$23,411,987)	(\$10,532,440)	-428
Montgomery	(\$1,039,460,072)	(\$511,259,444)	(\$339,803,762)	(\$127,878,365)	-5,841
Moore	(\$32,732,572)	(\$13,915,111)	(\$8,750,597)	(\$4,505,151)	-155
Morris	(\$34,796,896)	(\$15,882,096)	(\$10,645,103)	(\$3,778,927)	-182
Motley	(\$5,187,364)	(\$2,519,655)	(\$1,592,691)	(\$773,611)	-29
Nacogdoches	(\$146,106,565)	(\$79,445,234)	(\$54,495,863)	(\$24,935,777)	-1,015
Navarro	(\$141,278,464)	(\$72,221,771)	(\$48,618,646)	(\$19,402,694)	-869
Newton	(\$19,039,874)	(\$11,367,321)	(\$7,992,934)	(\$4,300,009)	-147



	Total	County F	Personal		Employment
Country	Expenditures	Gross Product	Income	Retail Sales	(Permanent
County Nolan	(2017 Dollars) (\$49,253,134)	(2017 Dollars) (\$25,745,426)	(2017 Dollars) (\$16,916,189)	(2017 Dollars) (\$7,826,453)	Jobs) -305
Nueces	(\$905,265,765)	(\$436,458,922)	(\$288,764,777)	(\$115,046,652)	-5,006
Ochiltree	· · · · · · · · · · · · · · · · · · ·	, , , , ,	(, , , ,		-5,000
Oldham	(\$12,558,967)	(\$5,733,549) (\$797,311)	(\$3,636,650) (\$522,530)	(\$1,901,034) (\$418,472)	-04
Orange		(\$115,569,429)	· · · · · · · · · · · · · · · · · · ·	•	-1,423
Palo Pinto	(\$226,070,177) (\$92,410,372)	(\$44,286,566)	(\$78,534,443)	(\$37,233,208) (\$13,863,212)	-1,423
Panola	(\$66,091,370)	(\$33,421,191)	(\$22,661,279)	(\$10,016,596)	-403
Parker	(\$269,490,928)	(\$128,262,089)	(\$81,631,270)	(\$39,519,155)	-1,477
	· · · · · · · · · · · · · · · · · · ·				-1,477
Parmer	(\$7,155,705) (\$25,242,014)	(\$3,097,988)	(\$2,010,161)	(\$537,387)	
Pecos Polk	(\$25,342,914)	(\$12,765,019)	(\$8,372,640)	(\$4,591,064)	-157
	(\$192,871,411)	(\$101,467,473)	(\$67,507,304)	(\$32,857,612)	-1,217
Potter Presidio	(\$326,537,472)	(\$171,327,664)	(\$114,003,234)	(\$44,830,385)	-1,991
	(\$15,856,642)	(\$7,563,303)	(\$4,771,353)	(\$2,610,605)	-87
Rains	(\$27,157,266)	(\$12,387,668)	(\$7,501,983)	(\$5,001,572)	-140
Randall	(\$283,239,810)	(\$148,560,979)	(\$97,270,612)	(\$42,780,600)	-1,736
Reagan	(\$3,618,840)	(\$1,771,257)	(\$1,082,093)	(\$774,215)	-20
Real	(\$15,243,517)	(\$7,358,561)	(\$4,811,092)	(\$2,160,501)	-86
Red River	(\$49,258,057)	(\$25,593,431)	(\$17,067,162)	(\$7,079,186)	-307
Reeves	(\$23,538,672)	(\$11,719,695)	(\$7,655,787)	(\$4,681,084)	-147
Refugio	(\$17,906,500)	(\$8,750,111)	(\$5,426,016)	(\$4,321,001)	-109
Roberts	(\$1,518,319)	(\$658,367)	(\$392,848)	(\$352,810)	-8
Robertson	(\$48,618,948)	(\$25,072,879)	(\$16,847,263)	(\$8,822,044)	-314
Rockwall	(\$125,624,832)	(\$65,620,568)	(\$43,924,161)	(\$18,184,213)	-778
Runnels	(\$36,625,270)	(\$16,810,131)	(\$10,764,735)	(\$5,012,912)	-194
Rusk	(\$133,050,008)	(\$65,431,140)	(\$44,132,811)	(\$18,752,537)	-781
Sabine	(\$39,837,941)	(\$20,553,951)	(\$14,318,229)	(\$6,632,841)	-261
San Augustine	(\$34,008,925)	(\$17,177,476)	(\$11,504,520)	(\$4,716,777)	-204
San Jacinto	(\$74,893,495)	(\$37,704,804)	(\$24,900,995)	(\$12,242,836)	-455
San Patricio	(\$157,863,056)	(\$77,618,564)	(\$52,558,834)	(\$25,674,772)	-964
San Saba	(\$16,854,533)	(\$9,134,925)	(\$6,038,855)	(\$3,060,709)	-113
Schleicher	(\$5,134,068)	(\$2,718,503)	(\$1,905,445)	(\$512,362)	-32
Scurry	(\$34,559,944)	(\$18,226,634)	(\$11,544,940)	(\$7,164,080)	-219
Shackelford	(\$6,839,623)	(\$3,398,391)	(\$2,226,123)	(\$1,142,687)	-41
Shelby	(\$59,299,002)	(\$32,194,022)	(\$22,384,983)	(\$10,091,291)	-408
Sherman	(\$1,685,254)	(\$705,711)	(\$426,421)	(\$211,487)	-8
Smith	(\$646,352,055)	(\$327,401,035)	(\$213,428,887)	(\$87,148,308)	-3,768
Somervell	(\$11,741,088)	(\$5,809,618)	(\$4,028,570)	(\$1,174,384)	-69
Starr	(\$62,602,694)	(\$35,569,195)	(\$24,980,014)	(\$12,422,878)	-472
Stephens	(\$23,313,804)	(\$12,671,832)	(\$8,433,450)	(\$5,012,269)	-159
Sterling	(\$1,777,713)	(\$992,846)	(\$663,758)	(\$450,104)	-13
Stonewall	(\$3,934,827)	(\$2,179,910)	(\$1,480,772)	(\$821,972)	-28
Sutton	(\$8,420,808)	(\$4,373,491)	(\$2,826,769)	(\$1,710,396)	-53
Swisher	(\$11,804,312)	(\$5,433,228)	(\$3,401,450)	(\$1,654,269)	-62
Tarrant	(\$4,104,641,494)	(\$2,068,889,298)	(\$1,360,065,061)	(\$508,887,889)	-23,478



County Nesuns						
	Total		Personal		Employment	
Country	Expenditures	Gross Product	Income	Retail Sales	(Permanent	
County	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	Jobs)	
Taylor Terrell	(\$343,676,904)	(\$174,920,134)	(\$114,958,215)	(\$45,100,448)	-2,009 -14	
	(\$2,126,532)	(\$1,170,691)	(\$782,677)	(\$398,307)		
Terry	(\$21,781,880)	(\$10,764,122)	(\$6,601,156)	(\$4,484,961)	-126	
Throckmorton	(\$2,954,828)	(\$1,475,017)	(\$943,677)	(\$479,168)	-17	
Titus	(\$56,246,322)	(\$29,142,175)	(\$19,901,644)	(\$10,155,065)	-369	
Tom Green	(\$289,572,100)	(\$145,941,407)	(\$94,724,564)	(\$39,789,218)	-1,704	
Travis	(\$1,605,940,395)	(\$862,110,872)	(\$567,685,385)	(\$214,105,742)	-9,725	
Trinity	(\$57,436,913)	(\$31,459,965)	(\$21,224,729)	(\$9,792,445)	-390	
Tyler	(\$65,904,306)	(\$34,994,217)	(\$23,553,721)	(\$10,650,452)	-424	
Upshur	(\$114,882,516)	(\$57,970,798)	(\$37,991,127)	(\$18,544,296)	-682	
Upton	(\$6,802,838)	(\$3,382,363)	(\$2,198,662)	(\$982,441)	-39	
Uvalde	(\$61,559,779)	(\$32,586,769)	(\$21,943,260)	(\$9,452,190)	-400	
Val Verde	(\$85,031,144)	(\$48,218,200)	(\$32,804,052)	(\$13,863,212)	-593	
Van Zandt	(\$148,208,686)	(\$83,529,119)	(\$57,017,445)	(\$25,926,006)	-1,048	
Victoria	(\$246,432,529)	(\$124,991,395)	(\$84,011,874)	(\$35,018,112)	-1,468	
Walker	(\$230,030,675)	(\$124,978,016)	(\$84,252,752)	(\$37,178,613)	-1,533	
Waller	(\$74,215,186)	(\$32,915,893)	(\$20,242,164)	(\$11,702,711)	-382	
Ward	(\$22,136,558)	(\$11,326,750)	(\$7,386,134)	(\$4,230,980)	-138	
Washington	(\$98,171,409)	(\$52,884,943)	(\$35,598,018)	(\$14,780,672)	-633	
Webb	(\$288,678,645)	(\$152,743,307)	(\$102,476,109)	(\$47,080,907)	-1,865	
Wharton	(\$111,929,432)	(\$60,132,723)	(\$41,040,596)	(\$18,619,589)	-749	
Wheeler	(\$11,510,448)	(\$6,330,849)	(\$4,276,761)	(\$2,331,802)	-81	
Wichita	(\$332,416,286)	(\$182,357,048)	(\$122,867,191)	(\$53,382,367)	-2,203	
Wilbarger	(\$47,982,458)	(\$24,592,970)	(\$16,567,738)	(\$7,291,689)	-297	
Willacy	(\$36,060,308)	(\$19,995,684)	(\$13,323,784)	(\$6,610,154)	-247	
Williamson	(\$421,736,105)	(\$225,924,180)	(\$150,262,456)	(\$68,518,824)	-2,682	
Wilson	(\$97,443,501)	(\$49,640,159)	(\$33,277,278)	(\$14,853,441)	-611	
Winkler	(\$11,710,971)	(\$5,886,728)	(\$3,854,366)	(\$2,202,543)	-71	
Wise	(\$110,766,269)	(\$56,233,147)	(\$36,763,003)	(\$19,084,421)	-669	
Wood	(\$176,393,272)	(\$89,227,922)	(\$59,374,234)	(\$25,478,085)	-1,071	
Yoakum	(\$10,866,655)	(\$5,147,728)	(\$3,265,168)	(\$2,090,936)	-62	
Young	(\$57,528,787)	(\$29,838,326)	(\$19,603,651)	(\$10,112,205)	-357	
Zapata	(\$18,687,381)	(\$9,860,505)	(\$6,687,899)	(\$3,600,834)	-126	
Zavala	(\$14,170,077)	(\$8,406,753)	(\$5,988,300)	(\$2,813,243)	-114	
	(+ : :, : : 0,0 : 1)	(+3, .55, .55)	(+-,000,000)	(+=,0:0,2:0)		
TOTAL STATE	(\$54,630,683,854)	(\$27,469,669,460)	(\$18,092,577,846)	(\$7,082,534,085)	-314,121	

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		Personal		Employment			
Have Division	Expenditures	Gross Product	Income	Retail Sales	(Permanent			
House District	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	Jobs)			
1	(\$480,566,819)	(\$254,292,453)	(\$171,933,551)	(\$74,046,485)	-3,093			
2	(\$448,442,558)	(\$239,657,182)	(\$161,036,423)	(\$77,597,976)	-2,962			
3	(\$350,711,565)	(\$168,910,905)	(\$110,629,965)	(\$45,718,356)	-1,936			
4	(\$486,871,383)	(\$249,266,995)	(\$165,813,039)	(\$71,913,159)	-3,002			
5	(\$480,872,512)	(\$241,659,114)	(\$159,890,244)	(\$69,722,797)	-2,867			
6	(\$491,227,562)	(\$248,824,786)	(\$162,205,954)	(\$66,232,714)	-2,864			
7	(\$478,614,074)	(\$251,650,298)	(\$169,405,036)	(\$72,286,746)	-3,006			
8	(\$436,164,520)	(\$226,461,039)	(\$151,627,402)	(\$66,429,014)	-2,749			
9	(\$483,252,865)	(\$244,356,325)	(\$166,081,713)	(\$71,644,663)	-2,952			
10	(\$330,375,301)	(\$160,392,099)	(\$103,900,257)	(\$49,318,494)	-1,884			
11	(\$409,180,890)	(\$214,731,490)	(\$146,681,917)	(\$63,965,895)	-2,665			
12	(\$417,304,083)	(\$215,484,877)	(\$143,461,630)	(\$60,915,376)	-2,573			
13	(\$512,294,253)	(\$265,827,319)	(\$177,321,915)	(\$77,912,154)	-3,176			
14	(\$243,203,716)	(\$125,931,664)	(\$83,423,368)	(\$33,952,265)	-1,490			
15	(\$381,481,847)	(\$187,632,216)	(\$124,707,981)	(\$46,931,360)	-2,144			
16	(\$381,481,847)	(\$187,632,216)	(\$124,707,981)	(\$46,931,360)	-2,144			
17	(\$389,182,741)	(\$195,153,716)	(\$129,361,532)	(\$58,748,512)	-2,330			
18	(\$506,126,907)	(\$268,187,122)	(\$180,938,346)	(\$79,409,985)	-3,254			
19	(\$522,328,597)	(\$274,556,584)	(\$183,750,557)	(\$88,434,067)	-3,333			
20	(\$283,956,979)	(\$145,788,968)	(\$96,429,835)	(\$44,158,453)	-1,730			
21	(\$488,951,125)	(\$252,275,573)	(\$172,118,812)	(\$75,960,180)	-3,067			
22	(\$467,343,907)	(\$243,033,146)	(\$166,372,210)	(\$68,847,949)	-2,922			
23	(\$442,027,041)	(\$213,351,016)	(\$140,255,882)	(\$58,527,651)	-2,465			
24	(\$480,280,573)	(\$238,613,663)	(\$157,967,536)	(\$64,980,653)	-2,778			
25	(\$337,408,692)	(\$162,300,383)	(\$107,284,929)	(\$54,592,459)	-1,952			
26	(\$254,397,557)	(\$120,431,887)	(\$77,422,649)	(\$33,232,185)	-1,333			
27	(\$254,397,557)	(\$120,431,887)	(\$77,422,649)	(\$33,232,185)	-1,333			
28	(\$254,397,557)	(\$120,431,887)	(\$77,422,649)	(\$33,232,185)	-1,333			
29	(\$313,406,118)	(\$152,249,644)	(\$100,891,311)	(\$48,930,591)	-1,824			
30	(\$487,552,751)	(\$241,301,220)	(\$159,959,700)	(\$73,206,464)	-2,852			
31	(\$306,929,984)	(\$159,744,417)	(\$107,972,937)	(\$51,651,154)	-1,975			
32	(\$443,580,225)	(\$213,864,872)	(\$141,494,741)	(\$56,372,859)	-2,453			
33	(\$264,588,479)	(\$138,021,652)	(\$91,686,748)	(\$37,775,858)	-1,606			
34	(\$461,685,540)	(\$222,594,050)	(\$147,270,036)	(\$58,673,792)	-2,553			
35	(\$258,587,144)	(\$136,722,655)	(\$91,319,334)	(\$37,636,639)	-1,651			
36	(\$227,640,299)	(\$122,412,017)	(\$82,416,808)	(\$33,970,090)	-1,490			
37	(\$308,642,646)	(\$160,211,988)	(\$106,056,951)	(\$43,706,925)	-1,917			
38	(\$301,294,011)	(\$156,397,417)	(\$103,531,785)	(\$42,666,284)	-1,872			
39	(\$227,640,299)	(\$122,412,017)	(\$82,416,808)	(\$33,970,090)	-1,490			
40	(\$227,640,299)	(\$122,412,017)	(\$82,416,808)	(\$33,970,090)	-1,490			
41	(\$227,640,299)	(\$122,412,017)	(\$82,416,808)	(\$33,970,090)	-1,490			
42	(\$184,754,333)	(\$97,755,716)	(\$65,584,710)	(\$30,131,780)	-1,194			
43	(\$361,851,009)	(\$187,176,867)	(\$126,619,194)	(\$59,252,550)	-2,311			
44	(\$327,535,082)	(\$164,610,254)	(\$108,114,130)	(\$54,732,679)	-2,011			
45	(\$270,678,499)	(\$141,706,486)	(\$93,607,240)	(\$40,664,515)	-1,681			



	Total		Personal		Employment
	Expenditures	Gross Product	Income	Retail Sales	(Permanen
House District	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	Jobs
46	(\$261,768,284)	(\$140,524,072)	(\$92,532,718)	(\$34,899,236)	-1,58
47	(\$273,009,867)	(\$146,558,848)	(\$96,506,515)	(\$36,397,976)	-1,65
48	(\$273,009,867)	(\$146,558,848)	(\$96,506,515)	(\$36,397,976)	-1,65
49	(\$263,374,225)	(\$141,386,183)	(\$93,100,403)	(\$35,113,342)	-1,59
50	(\$261,768,284)	(\$140,524,072)	(\$92,532,718)	(\$34,899,236)	-1,58
51	(\$273,009,867)	(\$146,558,848)	(\$96,506,515)	(\$36,397,976)	-1,65
52	(\$164,477,081)	(\$88,110,430)	(\$58,602,358)	(\$26,722,341)	-1,04
53	(\$534,522,697)	(\$271,984,257)	(\$178,177,234)	(\$82,894,306)	-3,24
54	(\$337,770,529)	(\$182,549,056)	(\$123,247,400)	(\$52,370,532)	-2,22
55	(\$292,501,701)	(\$159,392,166)	(\$107,818,723)	(\$45,032,032)	-1,93
56	(\$483,036,646)	(\$243,458,775)	(\$158,811,167)	(\$62,762,540)	-2,81
57	(\$495,571,615)	(\$258,281,093)	(\$172,840,865)	(\$75,609,876)	-3,10
58	(\$411,474,431)	(\$212,852,630)	(\$143,596,836)	(\$60,046,511)	-2,57
59	(\$340,042,033)	(\$182,194,678)	(\$123,158,818)	(\$55,340,670)	-2,24
60	(\$549,530,329)	(\$282,741,790)	(\$188,097,903)	(\$88,704,079)	-3,43
61	(\$380,257,197)	(\$184,495,236)	(\$118,394,272)	(\$58,603,576)	-2,14
62	(\$487,437,656)	(\$262,723,795)	(\$177,366,809)	(\$74,942,572)	-3,19
63	(\$255,881,106)	(\$128,296,500)	(\$83,776,798)	(\$32,677,570)	-1,45
64	(\$255,881,106)	(\$128,296,500)	(\$83,776,798)	(\$32,677,570)	-1,45
65	(\$255,881,106)	(\$128,296,500)	(\$83,776,798)	(\$32,677,570)	-1,45
66	(\$254,766,686)	(\$132,735,321)	(\$87,564,744)	(\$35,918,016)	-1,51
67	(\$254,766,686)	(\$132,735,321)	(\$87,564,744)	(\$35,918,016)	-1,51
68	(\$463,683,814)	(\$235,542,234)	(\$156,134,236)	(\$74,178,461)	-2,81
69	(\$409,684,420)	(\$222,299,931)	(\$149,658,388)	(\$65,142,019)	-2,67
70	(\$254,766,686)	(\$132,735,321)	(\$87,564,744)	(\$35,918,016)	-1,5′
71	(\$450,780,631)	(\$230,571,933)	(\$152,002,990)	(\$60,997,840)	-2,67
72	(\$448,901,479)	(\$224,051,304)	(\$146,315,246)	(\$63,561,482)	-2,62
73	(\$475,911,086)	(\$240,884,290)	(\$158,553,450)	(\$69,496,099)	-2,88
74	(\$281,050,554)	(\$149,289,319)	(\$99,463,060)	(\$47,523,035)	-1,83
75	(\$353,432,329)	(\$177,699,044)	(\$115,102,493)	(\$43,192,006)	-1,99
76	(\$353,432,329)	(\$177,699,044)	(\$115,102,493)	(\$43,192,006)	-1,99
77	(\$353,432,329)	(\$177,699,044)	(\$115,102,493)	(\$43,192,006)	-1,99
78	(\$353,432,329)	(\$177,699,044)	(\$115,102,493)	(\$43,192,006)	-1,99
79	(\$353,432,329)	(\$177,699,044)	(\$115,102,493)	(\$43,192,006)	-1,99
80	(\$247,351,940)	(\$130,721,155)	(\$88,187,434)	(\$40,503,142)	-1,6′
81	(\$356,793,711)	(\$182,087,523)	(\$122,158,097)	(\$54,649,036)	-2,16
82	(\$302,096,381)	(\$152,580,313)	(\$99,272,196)	(\$44,463,013)	-1,72
83	(\$390,781,272)	(\$204,141,401)	(\$133,603,135)	(\$58,038,203)	-2,36
84	(\$413,324,589)	(\$219,532,154)	(\$145,494,187)	(\$56,713,138)	-2,54
85	(\$315,214,865)	(\$157,268,014)	(\$103,501,926)	(\$46,881,548)	-1,83
86	(\$326,478,834)	(\$169,309,199)	(\$110,493,141)	(\$48,410,750)	-1,97
87	(\$419,526,419)	(\$212,126,932)	(\$139,832,748)	(\$60,491,157)	-2,46
88	(\$295,218,115)	(\$148,135,784)	(\$98,094,802)	(\$48,881,023)	-1,79
89	(\$254,766,686)	(\$132,735,321)	(\$87,564,744)	(\$35,918,016)	-1,51
90	(\$373,522,376)	(\$188,268,926)	(\$123,765,921)	(\$46,308,798)	-2,13



	Total		Personal		Employment
	Expenditures	Gross Product	Income	Retail Sales	(Permanen
House District	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	Jobs
91	(\$373,522,376)	(\$188,268,926)	(\$123,765,921)	(\$46,308,798)	-2,13
92	(\$373,522,376)	(\$188,268,926)	(\$123,765,921)	(\$46,308,798)	-2,13
93	(\$373,522,376)	(\$188,268,926)	(\$123,765,921)	(\$46,308,798)	-2,13
94	(\$373,522,376)	(\$188,268,926)	(\$123,765,921)	(\$46,308,798)	-2,13
95	(\$373,522,376)	(\$188,268,926)	(\$123,765,921)	(\$46,308,798)	-2,13
96	(\$373,522,376)	(\$188,268,926)	(\$123,765,921)	(\$46,308,798)	-2,13
97	(\$373,522,376)	(\$188,268,926)	(\$123,765,921)	(\$46,308,798)	-2,13
98	(\$373,522,376)	(\$188,268,926)	(\$123,765,921)	(\$46,308,798)	-2,13
99	(\$373,522,376)	(\$188,268,926)	(\$123,765,921)	(\$46,308,798)	-2,13
100	(\$373,506,730)	(\$183,249,529)	(\$117,195,580)	(\$38,190,695)	-1,93
101	(\$369,417,734)	(\$186,200,037)	(\$122,405,855)	(\$45,799,910)	-2,11
102	(\$373,506,730)	(\$183,249,529)	(\$117,195,580)	(\$38,190,695)	-1,93
103	(\$373,506,730)	(\$183,249,529)	(\$117,195,580)	(\$38,190,695)	-1,93
104	(\$373,506,730)	(\$183,249,529)	(\$117,195,580)	(\$38,190,695)	-1,93
105	(\$373,506,730)	(\$183,249,529)	(\$117,195,580)	(\$38,190,695)	-1,93
106	(\$255,881,106)	(\$128,296,500)	(\$83,776,798)	(\$32,677,570)	-1,4
107	(\$373,506,730)	(\$183,249,529)	(\$117,195,580)	(\$38,190,695)	-1,93
108	(\$373,506,730)	(\$183,249,529)	(\$117,195,580)	(\$38,190,695)	-1,93
109	(\$373,506,730)	(\$183,249,529)	(\$117,195,580)	(\$38,190,695)	-1,93
110	(\$373,506,730)	(\$183,249,529)	(\$117,195,580)	(\$38,190,695)	-1,93
111	(\$381,397,718)	(\$187,120,997)	(\$119,671,543)	(\$38,997,541)	-1,97
112	(\$373,506,730)	(\$183,249,529)	(\$117,195,580)	(\$38,190,695)	-1,93
113	(\$381,397,718)	(\$187,120,997)	(\$119,671,543)	(\$38,997,541)	-1,97
114	(\$381,397,718)	(\$187,120,997)	(\$119,671,543)	(\$38,997,541)	-1,97
115	(\$381,397,718)	(\$187,120,997)	(\$119,671,543)	(\$38,997,541)	-1,97
116	(\$397,207,603)	(\$205,848,366)	(\$136,031,861)	(\$50,897,791)	-2,3
117	(\$397,207,603)	(\$205,848,366)	(\$136,031,861)	(\$50,897,791)	-2,3
118	(\$397,207,603)	(\$205,848,366)	(\$136,031,861)	(\$50,897,791)	-2,3
119	(\$397,207,603)	(\$205,848,366)	(\$136,031,861)	(\$50,897,791)	-2,3
120	(\$397,207,603)	(\$205,848,366)	(\$136,031,861)	(\$50,897,791)	-2,3
121	(\$397,207,603)	(\$205,848,366)	(\$136,031,861)	(\$50,897,791)	-2,3
122	(\$397,207,603)	(\$205,848,366)	(\$136,031,861)	(\$50,897,791)	-2,3
123	(\$397,207,603)	(\$205,848,366)	(\$136,031,861)	(\$50,897,791)	-2,3
124	(\$397,207,603)	(\$205,848,366)	(\$136,031,861)	(\$50,897,791)	-2,3
125	(\$397,207,603)	(\$205,848,366)	(\$136,031,861)	(\$50,897,791)	-2,3
126	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,8
127	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,8
128	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,8
129	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,85
130	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,8
131	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,8
132	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,8
133	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,85
134	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,85
135	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,85



	Total Expenditures	Gross Product	Personal Income	Retail Sales	Employment (Permanent
House District	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	` Jobs)
136	(\$164,477,081)	(\$88,110,430)	(\$58,602,358)	(\$26,722,341)	-1,046
137	(\$366,754,258)	(\$171,046,913)	(\$111,444,412)	(\$33,311,844)	-1,807
138	(\$366,754,258)	(\$171,046,913)	(\$111,444,412)	(\$33,311,844)	-1,807
139	(\$366,754,258)	(\$171,046,913)	(\$111,444,412)	(\$33,311,844)	-1,807
140	(\$366,754,258)	(\$171,046,913)	(\$111,444,412)	(\$33,311,844)	-1,807
141	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,851
142	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,851
143	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,851
144	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,851
145	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,851
146	(\$375,699,484)	(\$175,218,789)	(\$114,162,568)	(\$34,124,328)	-1,851
147	(\$366,754,258)	(\$171,046,913)	(\$111,444,412)	(\$33,311,844)	-1,807
148	(\$366,754,258)	(\$171,046,913)	(\$111,444,412)	(\$33,311,844)	-1,807
149	(\$366,754,258)	(\$171,046,913)	(\$111,444,412)	(\$33,311,844)	-1,807
150	(\$366,754,258)	(\$171,046,913)	(\$111,444,412)	(\$33,311,844)	-1,807
TOTAL	(\$54,630,683,854)	(\$27,469,669,460)	(\$18,092,577,846)	(\$7,082,534,085)	-314,121

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		Personal	2 / 11 2 /	
Senate District	Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)
1	(\$3,435,435,017)	(\$1,784,743,998)	(\$1,184,410,771)	(\$478,448,251)	-20,843
2	(\$3,032,033,462)	(\$1,557,704,238)	(\$1,032,200,294)	(\$411,442,461)	-18,075
3	(\$1,897,532,684)	(\$975,592,392)	(\$649,234,409)	(\$280,096,414)	-11,722
4	(\$1,208,139,775)	(\$628,945,362)	(\$414,986,946)	(\$171,192,040)	-7,206
5	(\$674,672,366)	(\$346,132,165)	(\$229,718,516)	(\$102,970,514)	-4,185
6	(\$14,539,833)	(\$8,048,180)	(\$5,520,102)	(\$1,696,327)	-95
7	(\$3,905,100)	(\$2,219,936)	(\$1,488,146)	(\$990,229)	-30
8	(\$483,469,509)	(\$237,374,439)	(\$151,747,485)	(\$49,880,116)	-2,504
9	(\$2,077,959,979)	(\$1,019,486,814)	(\$652,003,580)	(\$212,469,361)	-10,738
10	(\$894,311,890)	(\$438,766,477)	(\$280,609,136)	(\$91,442,510)	-4,621
11	(\$1,866,965,452)	(\$915,423,535)	(\$585,058,184)	(\$193,578,790)	-9,660
12	(\$188,100,065)	(\$94,698,140)	(\$62,129,742)	(\$23,642,235)	-1,073
13	(\$916,255,728)	(\$461,225,239)	(\$302,003,404)	(\$118,571,868)	-5,250
14	(\$22,950,474)	(\$12,075,917)	(\$8,216,841)	(\$4,188,171)	-151
15	(\$13,058,180)	(\$7,434,547)	(\$5,159,490)	(\$2,610,605)	-98
16	(\$23,833,125)	(\$12,126,657)	(\$8,269,851)	(\$3,175,899)	-147
17	(\$357,998,617)	(\$182,769,580)	(\$123,071,937)	(\$54,565,500)	-2,195
18	(\$4,444,931,592)	(\$2,206,558,924)	(\$1,439,243,592)	(\$588,528,990)	-25,215
19	(\$5,585,099,601)	(\$2,684,556,312)	(\$1,762,687,544)	(\$604,557,296)	-29,519
20	(\$4,472,612,902)	(\$2,085,937,959)	(\$1,359,078,196)	(\$406,241,997)	-22,041
21	(\$2,906,319,863)	(\$1,498,906,515)	(\$1,000,416,941)	(\$416,941,296)	-17,858
22	(\$1,391,299,049)	(\$721,625,731)	(\$489,140,404)	(\$214,854,932)	-8,736
23	(\$57,850,593)	(\$29,906,373)	(\$20,128,585)	(\$8,070,940)	-358
24	(\$1,026,266,798)	(\$526,300,740)	(\$350,611,834)	(\$158,089,436)	-6,372
25	(\$465,091,894)	(\$240,294,522)	(\$161,015,529)	(\$74,105,259)	-2,895
26	(\$1,158,763)	(\$381,978)	(\$241,139)	(\$126,461)	-4
27	(\$774,439,743)	(\$410,019,583)	(\$271,969,558)	(\$107,890,278)	-4,785
28	(\$6,114,498,487)	(\$3,059,633,692)	(\$2,024,930,403)	(\$869,994,745)	-35,924
29	(\$122,687,170)	(\$65,672,474)	(\$44,100,346)	(\$21,971,130)	-814
30	(\$4,979,377,122)	(\$2,516,502,203)	(\$1,654,222,616)	(\$633,024,091)	-28,712
31	(\$5,177,889,026)	(\$2,738,604,837)	(\$1,818,962,325)	(\$777,175,944)	-32,294
TOTAL	(\$54,630,683,854)	(\$27,469,669,460)	(\$18,092,577,846)	(\$7,082,534,085)	-314,121

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.



	Resuit	s by US Congress	Sional District III	Техаб	
US					
Congressional	Total		Personal		
District in	Expenditures	Gross Product	Income	Retail Sales	Employment
Texas	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Permanent Jobs)
1	(\$2,032,392,222)	(\$1,044,280,146)	(\$698,622,224)	(\$292,658,534)	-12,427
2	(\$1,520,688,387)	(\$709,218,906)	(\$462,086,586)	(\$138,122,279)	-7,494
3	(\$1,030,647,047)	(\$536,974,709)	(\$354,239,191)	(\$145,304,702)	-6,143
4	(\$1,803,779,456)	(\$946,923,942)	(\$636,134,274)	(\$284,384,186)	-11,486
5	(\$1,794,219,507)	(\$918,079,924)	(\$605,419,183)	(\$237,174,158)	-10,578
6	(\$1,568,092,286)	(\$784,980,077)	(\$515,549,174)	(\$203,634,543)	-9,007
7	(\$1,520,688,387)	(\$709,218,906)	(\$462,086,586)	(\$138,122,279)	-7,494
8	(\$1,759,509,162)	(\$880,638,445)	(\$586,018,683)	(\$229,617,525)	-10,186
9	(\$1,486,152,896)	(\$694,753,701)	(\$451,702,418)	(\$144,292,047)	-7,396
10	(\$1,474,688,667)	(\$733,521,424)	(\$480,380,574)	(\$181,686,867)	-8,229
11	(\$1,820,154,825)	(\$930,155,167)	(\$615,362,844)	(\$276,933,571)	-11,042
12	(\$1,585,128,636)	(\$791,548,699)	(\$517,589,009)	(\$204,717,325)	-9,016
13	(\$1,691,133,049)	(\$871,797,984)	(\$577,226,990)	(\$260,099,153)	-10,321
14	(\$1,862,099,090)	(\$939,053,555)	(\$630,321,361)	(\$266,426,069)	-11,122
15	(\$1,056,745,798)	(\$554,883,917)	(\$370,910,150)	(\$163,915,336)	-6,751
16	(\$1,537,430,631)	(\$772,990,843)	(\$500,695,847)	(\$187,885,225)	-8,693
17	(\$1,551,815,717)	(\$798,501,743)	(\$526,631,954)	(\$221,052,510)	-9,376
18	(\$1,520,688,387)	(\$709,218,906)	(\$462,086,586)	(\$138,122,279)	-7,494
19	(\$1,628,662,446)	(\$845,121,356)	(\$557,835,426)	(\$236,859,625)	-9,891
20	(\$1,628,551,172)	(\$843,978,300)	(\$557,730,628)	(\$208,680,943)	-9,661
21	(\$1,618,615,981)	(\$838,425,935)	(\$552,622,331)	(\$225,007,626)	-9,755
22	(\$1,165,791,796)	(\$554,166,661)	(\$359,727,856)	(\$152,444,332)	-6,218
23	(\$1,454,162,019)	(\$752,025,801)	(\$496,616,735)	(\$206,988,636)	-8,824
24	(\$1,490,401,764)	(\$740,804,199)	(\$480,117,850)	(\$169,308,546)	-8,107
25	(\$1,425,472,764)	(\$745,852,358)	(\$496,764,153)	(\$208,413,668)	-8,870
26	(\$1,183,157,250)	(\$594,036,502)	(\$388,594,817)	(\$149,738,461)	-6,726
27	(\$1,865,703,559)	(\$916,480,982)	(\$608,539,514)	(\$265,953,612)	-10,781
28	(\$1,099,343,212)	(\$576,459,358)	(\$386,166,613)	(\$163,702,725)	-6,917
29	(\$1,520,688,387)	(\$709,218,906)	(\$462,086,586)	(\$138,122,279)	-7,494
30	(\$1,546,633,503)	(\$758,807,907)	(\$485,288,741)	(\$158,141,752)	-7,992
31	(\$922,364,016)	(\$498,730,003)	(\$334,798,347)	(\$145,592,879)	-5,993
32	(\$1,510,902,163)	(\$743,388,863)	(\$476,157,195)	(\$157,179,632)	-7,862
33	(\$1,568,980,610)	(\$780,235,858)	(\$506,008,658)	(\$177,373,266)	-8,538
34	(\$1,270,197,197)	(\$666,617,713)	(\$445,052,754)	(\$190,602,448)	-8,073
35			(4	(0100 110 110)	0.004
	(\$1,385,118,555)	(\$723,328,525)	(\$477,745,364)	(\$186,149,113)	-8,334
36	(\$1,385,118,555) (\$1,729,883,308)	(\$723,328,525) (\$855,249,239)	(\$477,745,364) (\$567,660,643)	(\$186,149,113) (\$228,125,954)	-8,334 -9,831

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 (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)
Agriculture	(\$521,373,074)	(\$155,219,715)	(\$93,863,953)	(1,676)
Mining	(\$3,740,921,251)	(\$1,797,821,275)	(\$614,817,310)	(2,428)
Construction	(\$1,496,920,864)	(\$729,648,928)	(\$550,186,643)	(8,318)
Nondurable Manufacturing	(\$4,957,906,921)	(\$1,370,537,750)	(\$722,859,848)	(7,411)
Durable Manufacturing	(\$2,385,220,108)	(\$992,157,202)	(\$667,910,865)	(6,385)
Transportation and Utilities	(\$3,772,344,264)	(\$1,311,090,846)	(\$732,375,836)	(7,494)
Information	(\$1,052,871,094)	(\$701,367,741)	(\$309,227,106)	(2,746)
Wholesale Trade	(\$1,440,767,806)	(\$1,123,913,589)	(\$630,996,332)	(7,167)
Retail Trade (including Restaurants)	(\$5,909,074,190)	(\$4,573,908,800)	(\$2,636,877,549)	(80,928)
FIRE	(\$8,433,545,548)	(\$2,506,606,981)	(\$892,998,069)	(8,301)
Business Services	(\$2,580,375,346)	(\$1,871,957,472)	(\$1,515,594,024)	(17,335)
Health Services	(\$1,671,307,565)	(\$1,343,713,521)	(\$1,074,454,153)	(18,438)
Other Services	(\$2,678,170,595)	(\$1,414,420,260)	(\$1,079,544,185)	(24,651)
TOTAL	(\$40,640,798,625)	(\$19,892,364,078)	(\$11,521,705,873)	(193,278)
SOURCE: US Multi-Region	nal Impact Assessment System,	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

Comparence of Economic Region Results						
Economic Region	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)	
High Plains	(\$1,356,083,086)	(\$692,736,364)	(\$401,270,524)	(\$228,531,597)	-7,005	
Northwest Texas	(\$1,146,858,070)	(\$590,141,716)	(\$335,665,244)	(\$197,927,961)	-5,852	
Metroplex	(\$10,532,151,920)	(\$5,179,016,280)	(\$2,997,592,890)	(\$1,458,002,918)	-49,460	
Upper East Texas	(\$2,383,331,422)	(\$1,197,459,301)	(\$692,990,209)	(\$404,577,503)	-12,168	
Southeast Texas	(\$1,582,934,594)	(\$795,487,599)	(\$481,329,599)	(\$291,695,275)	-8,600	
Gulf Coast	(\$10,623,247,138)	(\$4,907,245,988)	(\$2,780,575,804)	(\$1,174,822,698)	-42,662	
Capital	(\$2,122,021,522)	(\$1,093,069,830)	(\$651,998,896)	(\$348,986,503)	-11,331	
Central Texas	(\$1,732,673,676)	(\$873,756,353)	(\$517,867,382)	(\$312,407,698)	-9,469	
Alamo	(\$4,103,485,093)	(\$2,041,262,154)	(\$1,203,955,459)	(\$657,879,267)	-21,048	
South Texas	(\$2,830,607,906)	(\$1,429,555,650)	(\$832,148,799)	(\$491,024,212)	-14,889	
West Texas	(\$982,581,988)	(\$488,643,702)	(\$273,003,446)	(\$155,281,807)	-4,617	
Upper Rio Grande	(\$1,244,822,209)	(\$603,989,141)	(\$353,307,624)	(\$187,936,750)	-6,176	
TOTAL STATE IMPACT	(\$40,640,798,625)	(\$19,892,364,078)	(\$11,521,705,873)	(\$5,909,074,190)	-193,278	
SOURCE: US Multi-Region	nal 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 (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)			
Panhandle	(\$715,271,914)	(\$360,898,676)	(\$205,401,101)	(\$117,320,097)	-3,538			
South Plains	(\$640,811,172)	(\$331,837,689)	(\$195,869,423)	(\$111,211,500)	-3,467			
Nortex	(\$470,128,383)	(\$246,330,951)	(\$140,090,422)	(\$82,125,965)	-2,429			
North Central Texas	(\$10,134,019,824)	(\$4,975,385,183)	(\$2,874,645,056)	(\$1,382,307,612)	-47,226			
Ark-Tex	(\$516,110,748)	(\$260,965,019)	(\$156,969,539)	(\$100,461,990)	-2,902			
East Texas	(\$1,867,220,674)	(\$936,494,282)	(\$536,020,670)	(\$304,115,512)	-9,267			
West Central Texas	(\$676,729,687)	(\$343,810,765)	(\$195,574,822)	(\$115,801,996)	-3,423			
Rio Grande	(\$1,244,822,209)	(\$603,989,141)	(\$353,307,624)	(\$187,936,750)	-6,176			
Permian Basin	(\$677,657,338)	(\$338,849,166)	(\$189,642,094)	(\$105,774,448)	-3,138			
Concho Valley	(\$304,924,651)	(\$149,794,536)	(\$83,361,351)	(\$49,507,359)	-1,479			
Heart of Texas	(\$709,744,293)	(\$342,910,169)	(\$201,199,881)	(\$119,344,505)	-3,661			
Capital Area	(\$2,122,021,522)	(\$1,093,069,830)	(\$651,998,896)	(\$348,986,503)	-11,331			
Brazos Valley	(\$441,553,416)	(\$225,694,930)	(\$130,941,429)	(\$78,572,133)	-2,348			
Deep East Texas	(\$788,021,571)	(\$403,517,832)	(\$241,379,403)	(\$151,788,756)	-4,416			
South East Texas	(\$794,913,024)	(\$391,969,767)	(\$239,950,196)	(\$139,906,519)	-4,185			
Houston-Galveston Area	(\$10,623,247,138)	(\$4,907,245,988)	(\$2,780,575,804)	(\$1,174,822,698)	-42,662			
Golden Crescent	(\$385,546,279)	(\$191,308,938)	(\$110,591,661)	(\$63,898,624)	-1,897			
Alamo Area	(\$3,718,955,048)	(\$1,850,442,801)	(\$1,093,615,089)	(\$594,086,204)	-19,154			
South Texas	(\$283,776,381)	(\$150,170,454)	(\$84,226,636)	(\$54,446,273)	-1,521			
Coastal Bend	(\$1,145,786,509)	(\$544,861,970)	(\$309,631,169)	(\$173,817,287)	-5,247			
Lower Rio Grande Valley	(\$1,199,377,969)	(\$628,445,993)	(\$375,929,439)	(\$222,324,617)	-6,948			
Texoma	(\$398,132,096)	(\$203,631,097)	(\$122,947,833)	(\$75,695,306)	-2,234			
Central Texas	(\$581,375,967)	(\$305,151,254)	(\$185,726,073)	(\$114,491,060)	-3,460			
Middle Rio Grande	(\$200,650,815)	(\$105,587,648)	(\$62,110,263)	(\$40,330,474)	-1,169			
Border Region	(\$2,930,422,122)	(\$1,489,255,609)	(\$876,205,249)	(\$505,370,015)	-15,826			
TOTAL STATE	(\$40,640,798,625)	(\$19,892,364,078)	(\$11,521,705,873)	(\$5,909,074,190)	-193,278			
SOURCE: US Multi-Re	egional Impact Assessm	ent System, The Perrym	an Group					



Metropolitan Statistical Area (MSA) and Rural Texas Results						
	Total		Personal			
MSA	Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)	
Abilene	(\$331,696,178)	(\$165,040,457)	(\$93,270,120)	(\$50,010,115)	-1,577	
Amarillo	(\$457,861,889)	(\$237,463,562)	(\$135,928,513)	(\$74,514,857)	-2,343	
Austin-Round Rock	(\$1,825,611,317)	(\$947,449,978)	(\$568,763,908)	(\$299,502,422)	-9,843	
Beaumont-Port Arthur	(\$808,078,178)	(\$400,173,997)	(\$245,262,019)	(\$143,526,161)	-4,283	
Brownsville- Harlingen	(\$481,809,743)	(\$244,102,949)	(\$145,544,276)	(\$86,813,643)	-2,710	
College Station- Bryan	(\$285,429,520)	(\$144,788,441)	(\$83,830,787)	(\$48,588,605)	-1,492	
Corpus Christi	(\$909,005,379)	(\$422,305,580)	(\$241,337,648)	(\$130,417,719)	-4,033	
Dallas-Plano-Irving MD*	(\$6,229,815,184)	(\$3,052,067,641)	(\$1,753,925,794)	(\$802,403,712)	-28,288	
Fort Worth- Arlington MD*	(\$3,684,612,355)	(\$1,813,975,725)	(\$1,055,923,717)	(\$540,782,011)	-17,756	
El Paso	(\$1,209,453,955)	(\$585,559,608)	(\$342,378,863)	(\$180,814,700)	-5,973	
Houston-The Woodlands-Sugar Land	(\$10,255,561,512)	(\$4,722,106,798)	(\$2,671,758,792)	(\$1,104,792,453)	-40,664	
Killeen-Temple	(\$499,635,942)	(\$262,986,878)	(\$160,324,914)	(\$97,627,799)	-2,984	
Laredo	(\$218,786,817)	(\$114,672,091)	(\$63,550,634)	(\$39,276,415)	-1,123	
Longview	(\$467,633,234)	(\$240,302,189)	(\$138,882,866)	(\$75,979,181)	-2,351	
Lubbock	(\$485,670,646)	(\$252,775,540)	(\$150,663,706)	(\$81,069,162)	-2,645	
McAllen-Edinburg- Mission	(\$693,312,428)	(\$370,637,845)	(\$222,440,002)	(\$129,995,170)	-4,088	
Midland	(\$210,999,685)	(\$106,881,544)	(\$59,329,426)	(\$31,343,974)	-961	
Odessa	(\$240,046,593)	(\$118,721,473)	(\$67,947,328)	(\$36,723,072)	-1,114	
San Angelo	(\$215,662,760)	(\$105,023,272)	(\$58,008,722)	(\$33,586,814)	-1,031	
San Antonio-New Braunfels	(\$3,461,715,729)	(\$1,724,848,118)	(\$1,021,491,829)	(\$549,869,806)	-17,846	
Sherman-Denison	(\$234,362,056)	(\$121,769,556)	(\$74,239,219)	(\$47,537,228)	-1,386	
Texarkana	(\$166,746,806)	(\$87,845,760)	(\$53,279,370)	(\$32,442,469)	-976	
Tyler	(\$492,014,094)	(\$242,078,457)	(\$133,688,163)	(\$72,713,970)	-2,252	
Victoria	(\$209,205,230)	(\$102,789,795)	(\$58,756,734)	(\$32,292,272)	-971	
Waco	(\$505,542,135)	(\$243,271,609)	(\$143,531,491)	(\$81,363,837)	-2,586	
Wichita Falls	(\$293,613,871)	(\$157,379,697)	(\$89,575,111)	(\$50,583,080)	-1,535	
Rural Area	(\$5,766,915,393)	(\$2,905,345,520)	(\$1,688,071,923)	(\$1,054,503,542)	-30,466	
TOTAL STATE	(\$40,640,798,625)	(\$19,892,364,078)	(\$11,521,705,873)	(\$5,909,074,190)	-193,278	

*Metropolitan Division



Personal Total **Income Expenditures Gross Product** Retail Sales **Employment MSA** (2017 Dollars) (Permanent Jobs) (2017 Dollars) (2017 Dollars) (2017 Dollars) Anderson (\$50,942,249) (\$29,505,131)(\$17,030,225)-517 (\$93,660,345)**Andrews** (\$22,768,218) (\$11,805,350) (\$6,506,614)(\$3,517,138)-106 **Angelina** -928 (\$167,277,151)(\$83,652,635)(\$50,830,839)(\$31,315,994)**Aransas** -372 (\$87,055,702)(\$40,217,152)(\$21,922,433)(\$12,992,007)Archer (\$14,185,488) (\$7,330,582)(\$3,930,167)(\$2,457,086)-70 Armstrong (\$4,767,255) (\$2,409,045)(\$571,923)-22 (\$1,358,922)Atascosa (\$80,233,533) (\$38,761,948) (\$21,866,838) (\$11,940,631)-362 Austin -257 (\$56,654,443) (\$26,913,624) (\$16,154,644) (\$7,572,761)Bailey -41 (\$7,054,555)(\$3,636,696)(\$2,183,986)(\$1,505,692)**Bandera** (\$50,532,669)(\$24,017,512) (\$13,544,376)(\$8,936,699)-250 **Bastrop** (\$121,889,820) (\$59,913,966)(\$35,389,847)(\$22,003,804)-653 **Baylor** (\$11,625,676) (\$6,187,732)(\$3,601,175)(\$2,177,851)-64 Bee (\$39,785,332)(\$21,111,008) (\$11,883,250)(\$7,509,831)-215 Bell (\$370,530,608)(\$197,841,437)(\$121,763,014)(\$72,244,572)-2,244**Bexar** (\$2,752,327,002)(\$1,381,037,850)(\$822,557,183)(\$424,605,829) -14,193 Blanco (\$18,699,835) (\$8,866,224)(\$3,278,515)-96 (\$5,072,102)**Borden** (\$6,792,848) (\$3,379,212)(\$857,335)-27 (\$1,797,322)**Bosque** (\$39,746,683)(\$19,595,610) (\$11,866,474)(\$6,664,673)-213 -976 **Bowie** (\$166,746,806) (\$87,845,760) (\$53,279,370)(\$32,442,469)Brazoria (\$440,888,024)(\$210,208,565) (\$123,668,489) (\$73,085,792)-2,130 **Brazos** (\$107,011,565) -1,086 (\$211,751,611) (\$61,721,411) (\$33,719,140)**Brewster** (\$15,413,002)(\$3,079,031)-95 (\$8,460,658)(\$5,142,719)**Briscoe** (\$3,451,920)(\$1,624,819)-17 (\$934,077)(\$593,188)**Brooks** (\$10,599,562) -61 (\$5,783,906)(\$3,349,837)(\$2,252,949)**Brown** (\$69,657,573)(\$37,781,116)(\$22,986,482)(\$16,146,136) -448 **Burleson** (\$39,466,216)(\$20,945,611)(\$11,969,133)(\$7,509,831)-210 **Burnet** (\$94,174,149)(\$45,085,585)(\$26,065,189)(\$15,470,251)-464 Caldwell (\$69,138,889) (\$34,748,716) (\$19,909,405) (\$11,565,139) -348 Calhoun (\$28,706,951)(\$11,790,526) (\$3,763,827)-111 (\$6,777,828)Callahan (\$34,435,193)(\$16,704,100)(\$9,149,745)(\$5,632,373)-161 Cameron (\$481,809,743) (\$244,102,949) (\$145,544,276) (\$86,813,643) -2,710 Camp (\$10,044,185)-110 (\$20,482,251) (\$5,971,202)(\$3,690,412)Carson (\$5,993,201)(\$2,528,003)(\$1,179,400)(\$470,144)-18 Cass (\$58,929,664)(\$29,822,115)(\$17,796,469)(\$12,485,993)-335 Castro (\$2,899,855)-33 (\$5,978,128) (\$1,722,217)(\$1,237,330)Chambers -209 (\$58,446,301)(\$25,164,890)(\$13,610,347)(\$6,218,052)Cherokee (\$17,008,731)-491 (\$86,941,025)(\$43,689,817)(\$26,919,835)Childress (\$12,794,455)(\$6,402,563)(\$3,686,675)(\$2,553,342)-70 -117 Clay (\$11,698,123) (\$22,953,148) (\$7,008,203)(\$3,592,698)Cochran -15 (\$3,450,377)(\$453,897)(\$1,848,622)(\$962,417)Coke (\$10,960,882)(\$5,305,849)(\$2,962,925)(\$1,736,637)-49 Coleman (\$25,376,375)(\$13,128,889) (\$7,306,319)(\$4,430,800)-128 Collin -4,353 (\$832,748,787) (\$428,198,229) (\$253,609,620) (\$136,271,875)Collingsworth -34 (\$5,807,500)(\$3,196,970)(\$1,919,338)(\$1,228,093)Colorado (\$50,164,554)(\$25,538,430) (\$14,726,498)(\$9.980.615)-286



County Results Personal Total **Income Expenditures Gross Product** Retail Sales **Employment MSA** (2017 Dollars) (Permanent Jobs) (2017 Dollars) (2017 Dollars) (2017 Dollars) Comal (\$196,132,233) (\$94,991,900)(\$55,323,838)(\$34,770,516)-1,046 Comanche (\$29,402,695)(\$14,961,905) (\$9,015,456)(\$5,621,372)-165 Concho -31 (\$5,082,368)(\$2,718,901)(\$1,710,053)(\$942,464)Cooke -436 (\$91,755,699)(\$45,719,383)(\$26,492,719)(\$14,343,777)Coryell -479 (\$84,102,059) (\$42,474,702)(\$25,146,878) (\$16,371,431)Cottle (\$4,866,699)(\$2,827,904)(\$1,684,710)(\$877,819)-28 Crane (\$3,925,928)(\$2,135,587)(\$1,161,476)(\$595,128)-19 Crockett (\$2,907,668)-29 (\$5,627,463)(\$1,588,719)(\$1,201,573)Crosby -50 (\$10,019,297)(\$5,421,048)(\$3,043,452)(\$1,418,907)Culberson (\$2,813,986)(\$1,675,525)(\$984,098)(\$826,081)-20 **Dallam** (\$7,259,656)(\$3,896,332)(\$2,321,278)(\$1,224,548)-41 **Dallas** (\$448,098,666) -17,213 (\$4,059,967,290) (\$1,979,371,154) (\$1,117,344,525)Dawson (\$25,052,502)(\$12,672,848) (\$6,897,682)(\$4,336,521) -120 **Deaf Smith** (\$15,296,048) (\$7,474,694)(\$4,399,191)(\$2,344,647)-78 Delta (\$9,348,305)(\$4,889,187)(\$2,956,637)(\$1,194,946)-48 **Denton** (\$740,803,161) (\$355,168,465)(\$209,894,011) (\$109,042,742) -3,562**DeWitt** (\$46,198,296) (\$23,202,329) (\$13,844,794) (\$8,411,010)-250 **Dickens** (\$5,531,466)(\$2,920,410)(\$1,759,159)(\$1,094,378)-31 Dimmit (\$11,526,816)(\$6,005,896)(\$3,368,397)(\$2,403,146)-63 Donley -57 (\$8,368,094)(\$4,727,383)(\$2,858,792)(\$2,177,851)Duval (\$18,373,816) -82 (\$8,968,705)(\$4,827,178)(\$2,654,334)**Eastland** (\$44,812,010)(\$22,198,988)(\$12,444,648)-224 (\$8,185,715)**Ector** (\$240,046,593)(\$118,721,473)(\$67,947,328)(\$36,723,072)-1,114**Edwards** -17 (\$3,522,016)(\$1,737,474)(\$930,328)(\$616,069)El Paso (\$1,207,391,016) (\$584,484,514) (\$341,770,783) (\$180,160,839)-5,959 **Ellis** (\$207,406,079)(\$96,031,023)(\$56,975,135)(\$34,868,399) -1,007 **Erath** (\$51,038,042)(\$27,597,646)(\$16,913,243) (\$11,339,844)-326 Falls (\$33,521,625) (\$17,764,814)(\$10,865,868) (\$6,565,923)-201 **Fannin** (\$72,014,341)(\$36,142,158) (\$22,215,895)(\$13,814,301)-411 **Fayette** (\$75,840,238)(\$38,737,346)(\$21,768,191)(\$11,715,336)-371 **Fisher** -45 (\$7,691,128)(\$3,987,995)(\$2,333,629)(\$1,644,615)Floyd -39 (\$8,530,468)(\$3,841,751)(\$2,218,948)(\$1,175,044)Foard (\$1,874,446)(\$1,053,840)(\$650,178)(\$392,081)-12 Fort Bend (\$204,398,839) -3,253 (\$775,646,836) (\$364,104,745)(\$101,970,187)Franklin (\$17,879,585)(\$8,897,929)(\$4,833,016)(\$3,098,952)-86 Freestone (\$40,877,609)(\$20,219,664)(\$10,993,760)(\$7,509,831)-197 Frio (\$25,303,305) (\$12,260,892)(\$6,664,045)(\$4,008,341)-115 Gaines (\$7,988,702)-70 (\$16,511,346) (\$4,191,675)(\$2,472,509)Galveston -2,947 (\$619,724,526) (\$289,204,379)(\$169,001,789)(\$96,801,718)Garza (\$9,109,643)(\$4,467,581)(\$2,458,796)(\$1,515,269)-42 -362 Gillespie (\$67,178,429)(\$32,900,213) (\$19,542,338)(\$12,015,729) Glasscock (\$874,297)(\$73,282)-3 (\$431,572)(\$209,338)Goliad (\$13,975,070)(\$7,486,644)(\$4,278,507)(\$3,079,031)-79 **Gonzales** (\$25,909,142)(\$13,219,378)(\$7,907,657)(\$5,035,463)-146 Gray (\$60,311,669)(\$28,201,688) (\$15,806,220) (\$9,590,582)-262



County Results Personal Total **Income Expenditures Gross Product Retail Sales Employment MSA** (2017 Dollars) (Permanent Jobs) (2017 Dollars) (2017 Dollars) (2017 Dollars) Grayson (\$234,362,056)(\$121,769,556) (\$74,239,219) (\$47,537,228) -1,386Gregg (\$276,832,428) (\$146,093,047) (\$84,794,853) (\$44,833,689) -1,419 **Grimes** (\$18,050,464)-190 (\$35,852,194)(\$10,661,102)(\$6,438,687)Guadalupe -938 (\$174,035,224)(\$86,119,410)(\$50,935,074)(\$33,268,550)Hale (\$20,769,895)(\$9,427,010) -247 (\$38,705,889) (\$12,578,216) (\$2,221,974) Hall (\$7,624,929)(\$3,850,430)(\$1,444,346)-41 Hamilton (\$16,704,860) (\$8,249,266)(\$4,984,833)(\$3,529,620)-96 Hansford (\$2,856,752)-19 (\$6,311,228)(\$1,385,664)(\$626,821)Hardeman (\$2,027,654) -50 (\$7,686,258)(\$4,224,109)(\$2,491,363)Hardin (\$107,165,226)(\$52,623,160) (\$29,980,436)(\$19,074,970)-531 Harris (\$7,261,425,669) (\$3,304,445,264) (\$1,859,486,439) (\$677,506,206)-27,206 -642 Harrison (\$153,187,055)(\$71,275,091) (\$40,683,959)(\$19,799,350)Hartley (\$1,791,100)(\$882,951)(\$510,310)(\$328,966)-10 Haskell (\$12,787,393)(\$6,586,742)(\$3,836,415)(\$2,211,920)-67 Hays (\$172,080,540)(\$87,045,213)(\$51,661,943)(\$30,640,109)-935 Hemphill (\$3,929,379)(\$1,852,152)(\$946,605)(\$496,972)-15 Henderson (\$224,899,083) (\$108,837,522) (\$62,780,824) (\$37,173,662) -1,133 Hidalgo (\$693,312,428) (\$370,637,845) (\$222,440,002) (\$129,995,170) -4,088 Hill (\$77,756,642) (\$36,152,953) (\$20,849,707)(\$14,719,268) -413 Hockley -159 (\$31,085,233)(\$15,993,198)(\$8,895,419)(\$5,611,490)Hood (\$130,086,098) (\$22,904,984)-669 (\$61,465,375)(\$36,376,677)**Hopkins** (\$61,523,989)(\$32,256,582)(\$13,292,400)-370 (\$19,609,451)-299 Houston (\$8,514,691)(\$62,733,791)(\$30,704,423)(\$18,701,671)Howard (\$74,188,092) (\$35,679,067) (\$20,074,164) (\$11,490,041)-336 Hudspeth (\$2,062,939)(\$1,075,094)(\$608,080)(\$653,861)-14 Hunt (\$144,638,815)(\$72,604,661) (\$43,795,695)(\$29,814,028) -826 -212 Hutchinson (\$48,316,375)(\$22,672,320) (\$12,620,226) (\$8,682,196)Irion (\$3,235,238)(\$1,356,396)(\$695,203) (\$393,363)-11 **Jack** (\$16,375,899)(\$8,218,551)(\$4,646,302)(\$2,766,399)-78 **Jackson** (\$26,392,513)(\$13,657,843)(\$7,386,852)(\$4,828,801)-130 Jasper (\$71,782,393)(\$36,567,463)(\$21,919,041)(\$14,828,079)-418 **Jeff Davis** -30 (\$5,638,773)(\$2,769,893)(\$1,608,373)(\$1,039,087)**Jefferson** (\$517,804,618) (\$255,959,924) (\$159,237,258)(\$89,742,477)-2,761 Jim Hogg (\$9,038,201)(\$4,572,313)(\$2,459,251)(\$1,802,359)-44 Jim Wells (\$59,516,641) (\$32,952,363) (\$18,487,981)(\$11,715,336) -331 **Johnson** (\$242,401,917)(\$119,590,371)(\$43,481,920)-1,317 (\$73,353,412)**Jones** -211 (\$43,131,090) (\$21,820,578)(\$12,285,162)(\$6,753,490)**Karnes** (\$35,740,026) (\$5,181,783)-149 (\$16,381,043)(\$8,983,093)Kaufman (\$160,390,119)(\$78,018,004) (\$46,792,689)(\$29,138,143)-864 Kendall (\$32,340,307) (\$18,534,184) (\$70,035,099)(\$11,189,648)-326 Kenedy (\$2,945,314)(\$1,512,591)(\$776,644)(\$567,639)-15 Kent (\$2,434,018)(\$1,178,427)(\$638,791)(\$342,831)-10 Kerr (\$128,001,326) (\$63,562,950) (\$36,682,493) (\$22,904,984)-678 **Kimble** (\$3,131,892)(\$2,027,654)(\$13,025,097)(\$5,701,757)-55

(\$2,320,451)

(\$1,246,441)

King

(\$749.892)

-12

(\$307,098)



County Results Personal Total **Income Expenditures Gross Product** Retail Sales **Employment MSA** (2017 Dollars) (Permanent Jobs) (2017 Dollars) (2017 Dollars) (2017 Dollars) Kinney (\$10,396,702)(\$4,900,807)(\$2,516,815)(\$1,614,717)-45 **Kleberg** (\$52,051,677)(\$26,396,627) (\$8,786,502)-260 (\$14,812,157)Knox -39 (\$8,435,084)(\$4,453,180)(\$2,459,017)(\$1,215,075)La Salle (\$7,241,298)(\$3,911,869)(\$2,143,149)(\$1,577,064)-41 Lamar (\$30,417,950) (\$100,748,866)(\$49,965,739)(\$20,344,697)-582 Lamb (\$16,674,768) (\$7,711,315) (\$4,569,497)(\$2,907,498)-80 Lampasas (\$45,003,275)(\$22,670,739) (\$13,415,022)(\$9,011,797)-261 Lavaca (\$9,567,252)-288 (\$49,134,146) (\$26,649,067)(\$15,917,798)Lee -157 (\$32,088,060)(\$16,190,734)(\$9,159,648)(\$5,276,989)Leon (\$32,484,556)(\$17,423,308)(\$9,809,856)(\$6,999,488)-182 Liberty (\$151,761,740)(\$78,156,011) (\$45,485,060)(\$25,029,346)-775 -252 Limestone (\$45,821,224)(\$23,670,332)(\$13,958,448)(\$9,086,895)Lipscomb (\$5,791,450)(\$2,784,610)(\$1,393,874)(\$672,683)-22 Live Oak -168 (\$37,098,200)(\$17,622,548)(\$9,815,098)(\$6,308,258)Llano (\$75,607,923)(\$36,739,963)(\$21,169,857)(\$13,742,990)-400 Loving (\$1,706,913)(\$827,787)(\$344,792)(\$105,143)-4 Lubbock (\$468,812,570) (\$244,020,074) (\$145,687,997) (\$78,853,223) -2,564 Lynn (\$6,838,780)(\$3,334,418)(\$1,932,257)(\$797,032)-31 Madison (\$19,028,233) (\$9,746,024)(\$5,491,612)(\$4,205,505)-109-151 Marion (\$13,758,675) (\$26,862,756) (\$7,952,002)(\$5,256,882)Martin (\$3,037,162)(\$899,473)-27 (\$6,396,274)(\$1,673,071)Mason (\$12,966,784)(\$6,423,092)(\$2,102,753)-61 (\$3,451,750)(\$77,122,508)(\$13,483,408)Matagorda (\$35,394,998)(\$20,642,500)-362 Maverick -296 (\$52,002,842) (\$26,712,252) (\$15,406,323) (\$10,513,763) McCulloch -111 (\$19,472,417) (\$10,118,657)(\$6,126,003)(\$3,830,014)McLennan (\$472,020,510) (\$225,506,795)(\$132,665,623) (\$74,797,914)-2,385McMullen (\$1,016,233)(\$489,586) (\$251,292)(\$105,561)-4 -369 Medina (\$71,915,028) (\$34,474,824)(\$19,596,331) (\$12,766,712)Menard -32 (\$6,236,165)(\$3,258,537)(\$1,782,076)(\$1,201,573)Midland (\$204,603,411) (\$103,844,382)(\$57,656,355)(\$30,444,501)-934 Milam (\$46,104,476)(\$23,265,973) (\$13,912,925)(\$8,810,978)-254 Mills -56 (\$7,562,433) (\$4,583,757) (\$2,903,791)(\$1,969,320)Mitchell (\$17,082,968)(\$3,049,396)-87 (\$8,834,078)(\$4,994,373)Montague (\$53,146,310)(\$25,941,176) (\$14,173,623)(\$8,786,502)-253 Montgomery (\$830,769,531)(\$397,306,070) (\$225,352,125) (\$106,845,610) -3,623Moore (\$27,583,816)(\$12,077,606) (\$3,759,512)-108 (\$6,643,636)**Morris** (\$26,731,819)(\$11,717,629)(\$7,018,450)(\$3,172,337)-111 Motley (\$1,951,095)(\$648,818)-18 (\$4,108,230)(\$1,032,808)**Nacogdoches** (\$95,344,307)(\$50,820,071)(\$31,103,064)(\$20,802,231)-607 Navarro -516 (\$95,172,364) (\$47,234,536) (\$28,485,621) (\$16,216,906) Newton (\$13,165,155)(\$8,204,230)(\$5,311,823)(\$3,619,642)-98 Nolan (\$37,511,602)(\$19,783,161)(\$11,100,838)(\$6,534,128)-192 **Nueces** (\$323,918,879) -3,069(\$697,632,376)(\$185,976,150) (\$95,975,637)**Ochiltree** (\$2,988,229)-48 (\$11,543,356)(\$5,560,420)(\$1,591,574)Oldham (\$1,105,589)(\$625,078)(\$382,151)(\$351,122)-8



County Results Personal Total **Income Expenditures Gross Product Retail Sales Employment MSA** (2017 Dollars) (Permanent Jobs) (2017 Dollars) (2017 Dollars) (2017 Dollars) Orange (\$169,943,179) (\$83,386,683)(\$50,732,501) (\$31,089,072)-892 **Palo Pinto** (\$73,381,879)(\$34,509,634) (\$19,396,681) (\$11,565,139)-340 **Panola** (\$8,396,850)-252 (\$50,695,215)(\$25,845,137)(\$14,715,323)**Parker** -989 (\$208,361,975)(\$97,431,942)(\$56,192,399)(\$32,968,157)**Parmer** (\$4,893,635) (\$2,244,162) (\$1,293,261) (\$449,220)-21 **Pecos** (\$20,656,509) (\$10,337,094)(\$5,689,650)(\$3,830,014)-103 Polk (\$149,694,946) (\$76,694,399) (\$43,365,562)(\$27,410,882)-759 Potter -1,190 (\$236,686,504) (\$123,390,153)(\$70,062,129)(\$37,398,957)Presidio (\$11,502,492)-59 (\$5,523,457)(\$3,193,571)(\$2,177,851)Rains (\$23,145,837)(\$10,787,905)(\$5,987,187)(\$4,180,904)-109 Randall (\$209,309,339)(\$108,511,284) (\$62,945,910)(\$35,722,711)-1,105 Reagan (\$3,440,973)(\$1,780,158)(\$952,080)(\$648,887)-16 Real (\$11,824,122) (\$5,404,177)(\$2,931,567)(\$1,802,359)-50 **Red River** (\$34,143,833)(\$16,218,498)(\$9,321,070)(\$5,943,335)-171 Reeves (\$18,576,954)(\$9,595,469)(\$5,323,383)(\$3,905,112)-99 Refugio (\$16,410,587) (\$8,208,643) (\$4,341,378)(\$3,604,719) -81 Roberts (\$1,580,887)(\$719,297)(\$373,566)(\$294,404)-7 Robertson (\$16,831,264) (\$10,140,242)(\$7,359,634)-196 (\$34,211,693)Rockwall -464 (\$83,860,933)(\$42,676,105) (\$25,514,120) (\$15,169,858)Runnels (\$29,246,121)(\$13,169,125)(\$7,176,417)(\$4,199,860)-121 Rusk (\$103,419,831) (\$50,393,726)(\$29,014,485)(\$15,675,240)-489 (\$5,562,611) Sabine (\$27,801,709)(\$13,779,993)(\$8,586,158)-157 San Augustine (\$11,604,415) (\$24,148,239)(\$6,408,991)(\$3,960,877)-115 San Jacinto (\$54,939,413)(\$26,865,209)(\$15,809,535)(\$10,213,370)-293 San Patricio (\$124,317,301) (\$58,169,550) (\$21,450,076)-592 (\$33,439,065)San Saba (\$11,368,256)(\$6,065,379)(\$3,599,610)(\$2,553,342)-71 **Schleicher** (\$3,784,060)(\$1,943,568)(\$1,079,325)(\$426,631)-17 -157 Scurry (\$29,167,256) (\$15,927,019) (\$5,979,982)(\$8,729,262)Shackelford (\$6,153,084)(\$955,564)-28 (\$3,096,966)(\$1,653,786)Shelby (\$37,879,098)(\$20,448,582)(\$13,018,925)(\$8,477,063)-246 Sherman (\$1,245,761)(\$576,118)(\$328,512)(\$177,724)-6 **Smith** (\$242,078,457) -2,252 (\$492,014,094) (\$133,688,163) (\$72,713,970)Somervell (\$8,507,456)(\$3,954,134)(\$2,424,070)(\$975,378)-42 Starr (\$41,343,997)(\$23,376,243)(\$14,005,714)(\$10,363,566) -276 **Stephens** (\$19,709,258)(\$10,652,499) (\$5,977,533)(\$4,184,634)-106 Sterling (\$1,467,359)(\$375,492)-9 (\$845,157)(\$479,949)Stonewall (\$987,005)(\$687,846)-18 (\$3,126,763)(\$1,753,877)Sutton (\$1,426,868)-37 (\$7,198,323)(\$3,767,919)(\$2,087,859)**Swisher** (\$8,567,491)(\$3,957,160)(\$2,322,175)(\$1,382,989)-42 **Tarrant** (\$1,484,400,065) (\$3,004,622,385) (\$861,138,850)(\$424,530,731)-14,282 (\$71,835,213) **Taylor** (\$254,129,895)(\$126,515,779) (\$37,624,252)-1.205**Terrell** (\$1,794,750)(\$1,062,374)(\$631,287)(\$331,902)-11 Terry (\$19,008,264) (\$5,162,417)(\$3,746,839)-92 (\$9,817,268)**Throckmorton** (\$2,440,180)-11 (\$1,276,340)(\$664,733)(\$402,007)**Titus** (\$40,057,880)(\$19,351,580)(\$11,737,125)(\$8,486,860)-222



County Results							
	Total		Personal				
	Expenditures	Gross Product	Income	Retail Sales	Employment		
MSA	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Permanent Jobs)		
Tom Green	(\$212,427,522)	(\$103,666,876)	(\$57,313,519)	(\$33,193,452)	-1,020		
Travis	(\$1,153,609,701)	(\$600,786,572)	(\$360,282,978)	(\$178,132,310)	-6,094		
Trinity	(\$38,653,528)	(\$21,118,422)	(\$12,429,095)	(\$8,181,970)	-237		
Tyler	(\$44,601,841)	(\$23,057,989)	(\$13,894,699)	(\$8,901,347)	-258		
Upshur	(\$87,380,975)	(\$43,815,416)	(\$25,073,528)	(\$15,470,251)	-443		
Upton	(\$5,561,237)	(\$2,815,101)	(\$1,487,423)	(\$823,197)	-24		
Uvalde	(\$41,669,677)	(\$21,745,647)	(\$12,923,725)	(\$7,885,322)	-241		
Val Verde	(\$54,858,637)	(\$30,656,908)	(\$19,003,394)	(\$11,565,139)	-354		
Van Zandt	(\$99,404,162)	(\$56,095,153)	(\$32,900,259)	(\$21,628,312)	-620		
Victoria	(\$195,230,160)	(\$95,303,150)	(\$54,478,226)	(\$29,213,242)	-892		
Walker	(\$155,836,629)	(\$80,091,594)	(\$48,451,240)	(\$31,015,601)	-908		
Waller	(\$60,244,442)	(\$26,603,249)	(\$14,601,060)	(\$9,762,780)	-265		
Ward	(\$18,052,332)	(\$9,267,047)	(\$5,146,919)	(\$3,529,620)	-92		
Washington	(\$68,758,913)	(\$35,686,694)	(\$21,148,071)	(\$12,339,849)	-376		
Webb	(\$218,786,817)	(\$114,672,091)	(\$63,550,634)	(\$39,276,415)	-1,123		
Wharton	(\$84,561,936)	(\$44,114,169)	(\$24,996,773)	(\$15,550,621)	-442		
Wheeler	(\$8,963,148)	(\$4,976,833)	(\$2,796,767)	(\$1,948,252)	-51		
Wichita	(\$256,475,234)	(\$138,350,992)	(\$78,636,741)	(\$44,533,296)	-1,348		
Wilbarger	(\$32,940,420)	(\$15,791,406)	(\$9,534,069)	(\$6,082,963)	-173		
Willacy	(\$24,255,798)	(\$13,705,199)	(\$7,945,160)	(\$5,515,804)	-150		
Williamson	(\$308,892,367)	(\$164,955,512)	(\$101,519,734)	(\$57,161,059)	-1,813		
Wilson	(\$66,504,941)	(\$33,104,366)	(\$19,134,006)	(\$12,391,221)	-363		
Winkler	(\$10,149,136)	(\$5,248,939)	(\$2,903,615)	(\$1,840,459)	-50		
Wise	(\$90,632,523)	(\$47,133,837)	(\$26,438,308)	(\$15,920,841)	-458		
Wood	(\$128,295,617)	(\$62,837,901)	(\$36,033,920)	(\$21,257,034)	-640		
Yoakum	(\$9,561,184)	(\$4,857,875)	(\$2,634,162)	(\$1,749,305)	-46		
Young	(\$47,998,805)	(\$24,706,537)	(\$13,733,892)	(\$8,431,615)	-235		
Zapata	(\$14,607,366)	(\$7,549,806)	(\$4,211,037)	(\$3,003,932)	-78		
Zavala	(\$7,608,705)	(\$4,512,618)	(\$2,886,566)	(\$2,352,894)	-62		

TOTAL STATE

IMPACT (\$40,640,798,625) (\$19,892,364,078) (\$11,521,705,873) (\$5,909,074,190) -19
NOTE: Allocations reflect best available evidence regarding incidence and industrial structure and composition of each area.



	Results by Texas House District						
	Total		Personal				
	Expenditures	Gross Product	Income	Retail Sales	Employment		
House District	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Permanent Jobs)		
1	(\$319,519,090)	(\$162,927,926)	(\$97,851,406)	(\$61,829,453)	-1,815		
2	(\$305,566,967)	(\$160,956,396)	(\$96,305,406)	(\$64,734,741)	-1,816		
3	(\$281,229,137)	(\$132,286,663)	(\$74,544,726)	(\$38,183,712)	-1,228		
4	(\$347,056,357)	(\$168,353,148)	(\$98,900,772)	(\$59,992,283)	-1,805		
5	(\$356,796,786)	(\$172,838,030)	(\$98,833,043)	(\$58,238,900)	-1,733		
6	(\$373,930,712)	(\$183,979,627)	(\$101,603,004)	(\$55,262,618)	-1,711		
7	(\$364,213,403)	(\$189,908,463)	(\$109,868,381)	(\$60,303,941)	-1,861		
8	(\$307,466,959)	(\$154,549,402)	(\$89,834,219)	(\$55,476,230)	-1,644		
9	(\$355,355,498)	(\$174,929,593)	(\$102,752,836)	(\$59,978,748)	-1,782		
	(\$245,638,923)	(\$114,533,402)	(\$67,647,875)	(\$41,187,921)	-1,199		
11	(\$285,705,163)	(\$144,903,614)	(\$87,037,384)	(\$53,486,202)	-1,587		
12 13	(\$289,040,953) (\$275,870,704)	(\$143,040,299)	(\$84,639,671)	(\$50,846,889)	-1,538 -1,977		
14	(\$375,870,704)	(\$192,521,236) (\$89,889,715)	(\$112,345,438)	(\$65,124,330) (\$28,324,078)	-1,977		
15	(\$304,892,418)	(, , , ,	(\$82,704,230)				
16	(\$304,892,418)	(\$145,811,328)	(\$82,704,230)	(\$39,212,339) (\$39,212,339)	-1,330 -1,330		
17	(\$284,765,937)	(\$140,453,836)	(\$81,349,649)	(\$49,063,178)	-1,454		
18	(\$362,537,783)	(\$185,112,814)	(\$109,745,836)	(\$66,258,317)	-1,976		
19	(\$386,409,560)	(\$197,147,241)	(\$114,471,561)	(\$73,834,920)	-2,065		
20	(\$208,234,946)	(\$104,641,771)	(\$62,312,455)	(\$36,856,663)	-1,116		
21	(\$356,352,842)	(\$175,532,256)	(\$108,057,914)	(\$63,396,364)	-1,886		
22	(\$331,394,956)	(\$163,814,351)	(\$101,911,845)	(\$57,435,185)	-1,767		
23	(\$331,125,092)	(\$152,414,817)	(\$87,971,134)	(\$48,810,808)	-1,505		
24	(\$347,045,734)	(\$161,954,452)	(\$94,641,002)	(\$54,208,962)	-1,651		
25	(\$271,113,238)	(\$127,886,766)	(\$75,056,635)	(\$45,641,156)	-1,300		
26	(\$210,975,939)	(\$99,036,491)	(\$55,596,484)	(\$27,735,891)	-885		
27	(\$210,975,939)	(\$99,036,491)	(\$55,596,484)	(\$27,735,891)	-885		
28	(\$210,975,939)	(\$99,036,491)	(\$55,596,484)	(\$27,735,891)	-885		
29	(\$246,897,294)	(\$117,716,796)	(\$69,254,354)	(\$40,928,044)	-1,193		
30	(\$387,576,767)	(\$186,208,444)	(\$105,643,166)	(\$61,063,835)	-1,786		
31	(\$232,145,952)	(\$118,704,907)	(\$67,440,160)	(\$43,088,166)	-1,203		
32	(\$341,839,864)	(\$158,720,250)	(\$91,128,313)	(\$47,028,062)	-1,504		
33	(\$183,790,788)	(\$94,059,893)	(\$55,947,274)	(\$31,522,483)	-986		
34	(\$355,792,512)	(\$165,198,628)	(\$94,847,836)	(\$48,947,575)	-1,565		
35	(\$170,651,647)	(\$88,939,146)	(\$53,214,847)	(\$31,397,701)	-984		
36	(\$151,142,109)	(\$80,799,050)	(\$48,491,920)	(\$28,338,947)	-891		
37	(\$202,360,092)	(\$102,523,239)	(\$61,128,596)	(\$36,461,730)	-1,138		
38	(\$197,541,995)	(\$100,082,209)	(\$59,673,153)	(\$35,593,594)	-1,111		
39	(\$151,142,109)	(\$80,799,050)	(\$48,491,920)	(\$28,338,947)	-891		
40	(\$151,142,109)	(\$80,799,050)	(\$48,491,920)	(\$28,338,947)	-891		
41	(\$151,142,109)	(\$80,799,050)	(\$48,491,920)	(\$28,338,947)	-891		
42	(\$140,023,563)	(\$73,390,139)	(\$40,672,406)	(\$25,136,905)	-719		
43	(\$275,670,952)	(\$138,629,547)	(\$78,622,452)	(\$49,461,744)	-1,398		
44	(\$240,540,165)	(\$119,223,776)	(\$70,069,080)	(\$45,659,771)	-1,300		
45	(\$190,780,375)	(\$95,911,437)	(\$56,734,046)	(\$33,918,625)	-1,031		



	Results by Texas House District						
	Total		Personal				
House District	Expenditures	Gross Product	Income	Retail Sales	Employment		
House District 46	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Permanent Jobs)		
47	(\$188,038,381) (\$196,113,649)	(\$97,928,211)	(\$58,726,125) (\$61,248,106)	(\$29,035,567) (\$30,282,493)	-1,036		
48	(\$196,113,649)	(\$102,133,717)	(\$61,248,106)	(\$30,282,493)	-1,036		
49	(\$189,191,991)	(\$98,528,998)	(\$59,086,408)	(\$29,213,699)	-1,036		
50	(\$188,038,381)	(\$97,928,211)	(\$58,726,125)	(\$29,035,567)	-993		
51	(\$196,113,649)	(\$102,133,717)	(\$61,248,106)	(\$30,282,493)	-1,036		
52	(\$120,468,023)	(\$64,332,650)	(\$39,592,696)	(\$22,292,813)	-707		
53	(\$390,240,975)	(\$189,939,441)	(\$107,976,571)	(\$69,156,864)	-1,997		
54	(\$222,857,967)	(\$117,634,629)	(\$71,861,268)	(\$43,689,191)	-1,338		
55	(\$192,675,916)	(\$102,877,547)	(\$63,316,767)	(\$37,567,177)	-1,167		
56	(\$330,414,357)	(\$157,854,757)	(\$92,865,936)	(\$52,358,540)	-1,669		
57	(\$344,325,499)	(\$174,249,227)	(\$103,672,064)	(\$63,178,525)	-1,870		
58	(\$282,148,600)	(\$139,185,981)	(\$85,219,887)	(\$50,146,593)	-1,530		
59	(\$228,158,219)	(\$118,005,447)	(\$71,113,884)	(\$46,190,322)	-1,346		
60	(\$403,611,470)	(\$199,537,569)	(\$115,291,871)	(\$74,005,347)	-2,103		
61	(\$298,994,499)	(\$144,565,779)	(\$82,630,707)	(\$48,888,998)	-1,447		
62	(\$315,724,701)	(\$162,800,901)	(\$99,411,752)	(\$62,546,476)	-1,846		
63	(\$185,200,790)	(\$88,792,116)	(\$52,473,503)	(\$27,260,686)	-890		
64	(\$185,200,790)	(\$88,792,116)	(\$52,473,503)	(\$27,260,686)	-890		
65	(\$185,200,790)	(\$88,792,116)	(\$52,473,503)	(\$27,260,686)	-890		
66	(\$183,204,733)	(\$94,203,610)	(\$55,794,116)	(\$29,979,813)	-958		
67	(\$183,204,733)	(\$94,203,610)	(\$55,794,116)	(\$29,979,813)	-958		
68	(\$358,059,157)	(\$180,487,567)	(\$103,105,058)	(\$61,939,494)	-1,793		
69	(\$315,549,077)	(\$169,074,449)	(\$96,285,481)	(\$54,368,088)	-1,651		
70	(\$183,204,733)	(\$94,203,610)	(\$55,794,116)	(\$29,979,813)	-958		
71	(\$334,772,587)	(\$168,119,518)	(\$95,221,213)	(\$50,911,869)	-1,609		
72	(\$340,922,852)	(\$164,953,102)	(\$91,573,648)	(\$53,053,477)	-1,596		
73	(\$333,345,761)	(\$160,232,421)	(\$93,400,359)	(\$57,975,893)	-1,733		
74	(\$197,424,500)	(\$103,597,318)	(\$60,452,485)	(\$39,641,701)	-1,129		
75	(\$241,478,203)	(\$116,896,903)	(\$68,354,157)	(\$36,032,168)	-1,192		
76	(\$241,478,203)	(\$116,896,903)	(\$68,354,157)	(\$36,032,168)	-1,192		
77	(\$241,478,203)	(\$116,896,903)	(\$68,354,157)	(\$36,032,168)	-1,192		
78	(\$241,478,203)	(\$116,896,903)	(\$68,354,157)	(\$36,032,168)	-1,192		
79	(\$241,478,203)	(\$116,896,903)	(\$68,354,157)	(\$36,032,168)	-1,192		
80	(\$179,479,122)	(\$93,356,813)	(\$52,931,998)	(\$33,793,144)	-964		
81	(\$291,016,279)	(\$145,042,809)	(\$82,504,476)	(\$45,610,289)	-1,361		
82	(\$245,539,352)	(\$124,505,080)	(\$68,876,006)	(\$37,098,821)	-1,125		
83	(\$282,926,490)	(\$146,888,728)	(\$85,082,505)	(\$48,444,383)	-1,489		
84	(\$281,287,542)	(\$146,412,045)	(\$87,412,798)	(\$47,311,934)	-1,538		
85	(\$253,673,467)	(\$124,767,285)	(\$69,993,011)	(\$39,141,937)	-1,170		
86	(\$239,655,368)	(\$123,634,501)	(\$71,852,102)	(\$40,421,214)	-1,264		
87 88	(\$319,825,657)	(\$161,244,199)	(\$90,833,903)	(\$50,488,533)	-1,534 -1,131		
89	(\$227,132,862) (\$183,204,733)	(\$112,410,782) (\$94,203,610)	(\$63,914,039) (\$55,794,116)	(\$40,891,209) (\$29,979,813)	-1,131		
90			, ,	, , ,			
30	(\$273,420,637)	(\$135,080,406)	(\$78,363,635)	(\$38,632,297)	-1,300		



Results by Texas House District						
	Total		Personal			
House District	Expenditures	Gross Product	Income	Retail Sales	Employment	
91	(2017 Dollars) (\$273,420,637)	(2017 Dollars) (\$135,080,406)	(2017 Dollars) (\$78,363,635)	(2017 Dollars) (\$38,632,297)	(Permanent Jobs) -1,300	
92	(\$273,420,637)	(\$135,080,406)	(\$78,363,635)	(\$38,632,297)	-1,300	
93	(\$273,420,637)	(\$135,080,406)	(\$78,363,635)	(\$38,632,297)	-1,300	
94	(\$273,420,637)	(\$135,080,406)	(\$78,363,635)	(\$38,632,297)	-1,300	
95	(\$273,420,637)	(\$135,080,406)	(\$78,363,635)	(\$38,632,297)	-1,300	
96	(\$273,420,637)	(\$135,080,406)	(\$78,363,635)	(\$38,632,297)	-1,300	
97	(\$273,420,637)	(\$135,080,406)	(\$78,363,635)	(\$38,632,297)	-1,300	
98	(\$273,420,637)	(\$135,080,406)	(\$78,363,635)	(\$38,632,297)	-1,300	
99	(\$273,420,637)	(\$135,080,406)	(\$78,363,635)	(\$38,632,297)	-1,300	
100	(\$288,257,678)	(\$140,535,352)	(\$79,331,461)	(\$31,815,005)	-1,222	
101	(\$270,416,015)	(\$133,596,006)	(\$77,502,497)	(\$38,207,766)	-1,285	
102	(\$288,257,678)	(\$140,535,352)	(\$79,331,461)	(\$31,815,005)	-1,222	
103	(\$288,257,678)	(\$140,535,352)	(\$79,331,461)	(\$31,815,005)	-1,222	
104	(\$288,257,678)	(\$140,535,352)	(\$79,331,461)	(\$31,815,005)	-1,222	
105	(\$288,257,678)	(\$140,535,352)	(\$79,331,461)	(\$31,815,005)	-1,222	
106	(\$185,200,790)	(\$88,792,116)	(\$52,473,503)	(\$27,260,686)	-890	
107	(\$288,257,678)	(\$140,535,352)	(\$79,331,461)	(\$31,815,005)	-1,222	
108	(\$288,257,678)	(\$140,535,352)	(\$79,331,461)	(\$31,815,005)	-1,222	
109	(\$288,257,678)	(\$140,535,352)	(\$79,331,461)	(\$31,815,005)	-1,222	
110	(\$288,257,678)	(\$140,535,352)	(\$79,331,461)	(\$31,815,005)	-1,222	
111	(\$294,347,629)	(\$143,504,409)	(\$81,007,478)	(\$32,487,153)	-1,248	
112	(\$288,257,678)	(\$140,535,352)	(\$79,331,461)	(\$31,815,005)	-1,222	
113	(\$294,347,629)	(\$143,504,409)	(\$81,007,478)	(\$32,487,153)	-1,248	
114	(\$294,347,629)	(\$143,504,409)	(\$81,007,478)	(\$32,487,153)	-1,248	
115	(\$294,347,629)	(\$143,504,409)	(\$81,007,478)	(\$32,487,153)	-1,248	
116	(\$275,232,700)	(\$138,103,785)	(\$82,255,718)	(\$42,460,583)	-1,419	
117	(\$275,232,700)	(\$138,103,785)	(\$82,255,718)	(\$42,460,583)	-1,419	
118	(\$275,232,700)	(\$138,103,785)	(\$82,255,718)	(\$42,460,583)	-1,419	
119	(\$275,232,700)	(\$138,103,785)	(\$82,255,718)	(\$42,460,583)	-1,419	
120	(\$275,232,700)	(\$138,103,785)	(\$82,255,718)	(\$42,460,583)	-1,419	
121	(\$275,232,700)	(\$138,103,785)	(\$82,255,718)	(\$42,460,583)	-1,419	
122	(\$275,232,700)	(\$138,103,785)	(\$82,255,718)	(\$42,460,583)	-1,419	
123	(\$275,232,700)	(\$138,103,785)	(\$82,255,718)	(\$42,460,583)	-1,419	
124	(\$275,232,700)	(\$138,103,785)	(\$82,255,718)	(\$42,460,583)	-1,419	
125	(\$275,232,700)	(\$138,103,785)	(\$82,255,718)	(\$42,460,583)	-1,419	
126	(\$304,979,878)	(\$138,786,701)	(\$78,098,430)	(\$28,455,261)	-1,143	
127	(\$304,979,878)	(\$138,786,701)	(\$78,098,430)	(\$28,455,261)	-1,143	
128 129	(\$304,979,878) (\$304,979,878)	(\$138,786,701)	(\$78,098,430)	(\$28,455,261)	-1,143	
130	(\$304,979,878)	(\$138,786,701) (\$138,786,701)	(\$78,098,430) (\$78,098,430)	(\$28,455,261) (\$28,455,261)	-1,143 -1,143	
131	(\$304,979,878)	(\$138,786,701)	(\$78,098,430)	(\$28,455,261)	-1,143	
132	(\$304,979,878)	(\$138,786,701)	(\$78,098,430)	(\$28,455,261)	-1,143	
133	(\$304,979,878)	(\$138,786,701)	(\$78,098,430)	(\$28,455,261)	-1,143	
134	(\$304,979,878)	(\$138,786,701)	(\$78,098,430)	(\$28,455,261)	-1,143	
135	(\$304,979,878)	(\$138,786,701)	(\$78,098,430)	(\$28,455,261)	-1,143	
100	(ψου-1,010,010)	(ψ100,700,701)	(ψ10,000,π00)	(ψ20, 400, 201)	1,145	



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

Results by Texas House District						
	Total		Personal			
House District	Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)	
136	(\$120,468,023)	(\$64,332,650)	(\$39,592,696)	(\$22,292,813)	-707	
137	(\$297,718,452)	(\$135,482,256)	(\$76,238,944)	(\$27,777,754)	-1,115	
138	(\$297,718,452)	(\$135,482,256)	(\$76,238,944)	(\$27,777,754)	-1,115	
139	(\$297,718,452)	(\$135,482,256)	(\$76,238,944)	(\$27,777,754)	-1,115	
140	(\$297,718,452)	(\$135,482,256)	(\$76,238,944)	(\$27,777,754)	-1,115	
141	(\$304,979,878)	(\$138,786,701)	(\$78,098,430)	(\$28,455,261)	-1,143	
142	(\$304,979,878)	(\$138,786,701)	(\$78,098,430)	(\$28,455,261)	-1,143	
143	(\$304,979,878)	(\$138,786,701)	(\$78,098,430)	(\$28,455,261)	-1,143	
144	(\$304,979,878)	(\$138,786,701)	(\$78,098,430)	(\$28,455,261)	-1,143	
145	(\$304,979,878)	(\$138,786,701)	(\$78,098,430)	(\$28,455,261)	-1,143	
146	(\$304,979,878)	(\$138,786,701)	(\$78,098,430)	(\$28,455,261)	-1,143	
147	(\$297,718,452)	(\$135,482,256)	(\$76,238,944)	(\$27,777,754)	-1,115	
148	(\$297,718,452)	(\$135,482,256)	(\$76,238,944)	(\$27,777,754)	-1,115	
149	(\$297,718,452)	(\$135,482,256)	(\$76,238,944)	(\$27,777,754)	-1,115	
150	(\$297,718,452)	(\$135,482,256)	(\$76,238,944)	(\$27,777,754)	-1,115	
TOTAL	(\$40,640,798,625)	(\$19,892,364,078)	(\$11,521,705,873)	(\$5,909,074,190)	-193,278	

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 Texas Senate District

	Nesults by Texas Seliate District						
	Total	Out to Duralizat	Personal	Data'l Oalaa	F		
Senate District	Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)		
1	(\$1,784,408,676)	(\$889,960,885)	(\$512,330,884)	(\$293,068,322)	-8,880		
2	(\$1,344,520,941)	(\$669,962,852)	(\$389,720,503)	(\$204,409,667)	-6,638		
3	(\$1,738,699,903)	(\$876,776,124)	(\$518,332,488)	(\$313,153,147)	-9,262		
4	(\$1,514,752,731)	(\$724,833,435)	(\$424,125,044)	(\$209,140,958)	-6,931		
5	(\$930,860,592)	(\$481,265,700)	(\$286,660,332)	(\$172,306,818)	-5,186		
6	(\$1,452,285,134)	(\$660,889,053)	(\$371,897,288)	(\$135,501,241)	-5,441		
7	(\$1,452,285,134)	(\$660,889,053)	(\$371,897,288)	(\$135,501,241)	-5,441		
8	(\$910,834,834)	(\$462,937,052)	(\$271,435,403)	(\$138,236,027)	-4,561		
9	(\$1,386,968,667)	(\$682,839,426)	(\$393,348,216)	(\$184,669,328)	-6,405		
10	(\$1,382,126,297)	(\$682,824,030)	(\$396,123,871)	(\$195,284,136)	-6,570		
11	(\$1,426,039,814)	(\$662,667,414)	(\$382,807,079)	(\$193,688,332)	-6,292		
12	(\$1,065,559,981)	(\$517,449,836)	(\$303,382,857)	(\$154,185,086)	-5,098		
13	(\$1,381,815,263)	(\$630,935,596)	(\$354,948,474)	(\$134,550,391)	-5,243		
14	(\$975,560,999)	(\$504,496,029)	(\$301,999,251)	(\$153,821,714)	-5,163		
15	(\$1,379,670,877)	(\$627,844,600)	(\$353,302,423)	(\$128,726,179)	-5,169		
16	(\$1,400,688,715)	(\$682,883,048)	(\$385,483,861)	(\$154,594,040)	-5,939		
17	(\$1,328,867,612)	(\$611,256,058)	(\$345,478,097)	(\$143,362,862)	-5,238		
18	(\$1,493,571,408)	(\$724,554,554)	(\$412,632,049)	(\$231,387,750)	-6,971		
19	(\$1,229,500,220)	(\$619,262,444)	(\$364,574,333)	(\$202,713,603)	-6,419		
20	(\$1,162,893,463)	(\$574,385,908)	(\$334,969,407)	(\$184,381,364)	-5,802		
21	(\$993,104,069)	(\$503,082,973)	(\$289,085,226)	(\$174,753,417)	-5,132		
22	(\$1,456,850,493)	(\$701,515,614)	(\$416,919,530)	(\$242,421,901)	-7,476		
23	(\$1,400,688,715)	(\$682,883,048)	(\$385,483,861)	(\$154,594,040)	-5,939		
24	(\$1,338,532,694)	(\$681,105,223)	(\$403,339,982)	(\$244,672,723)	-7,379		
25	(\$1,220,354,268)	(\$607,386,394)	(\$359,605,255)	(\$199,979,972)	-6,360		
26	(\$1,279,832,056)	(\$642,182,600)	(\$382,489,090)	(\$197,441,711)	-6,600		
27	(\$852,253,751)	(\$441,385,260)	(\$262,503,039)	(\$156,281,559)	-4,852		
28	(\$1,416,558,344)	(\$720,941,311)	(\$414,138,973)	(\$242,127,044)	-7,299		
29	(\$1,229,409,206)	(\$595,528,483)	(\$348,164,905)	(\$184,857,720)	-6,082		
30	(\$1,411,515,915)	(\$715,016,332)	(\$415,524,921)	(\$243,220,631)	-7,296		
31	(\$1,299,787,854)	(\$652,423,740)	(\$369,001,943)	(\$206,041,267)	-6,213		
TOTAL	(0.10.0.10.=============================	(0.40,000,001,000)	(044 504	(AF 000 271 105)			
TOTAL	(\$40,640,798,625)	(\$19,892,364,078)	(\$11,521,705,873)	(\$5,909,074,190)	-193,278		

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	Total Expenditures	Gross Product	Personal Income	Retail Sales	Employment
Texas	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Permanent Jobs)
1	(\$1,504,439,564)	(\$753,452,336)	(\$434,310,443)	(\$244,411,327)	-7,487
2	(\$1,234,442,364)	(\$561,755,695)	(\$316,112,695)	(\$115,176,055)	-4,625
3	(\$741,146,421)	(\$381,096,424)	(\$225,712,561)	(\$121,281,969)	-3,874
4	(\$1,223,408,048)	(\$620,390,813)	(\$372,626,074)	(\$237,413,670)	-6,881
5	(\$1,313,233,436)	(\$653,654,206)	(\$377,668,002)	(\$197,892,248)	-6,432
6	(\$1,143,872,710)	(\$558,897,578)	(\$326,579,634)	(\$169,953,909)	-5,522
7	(\$1,234,442,364)	(\$561,755,695)	(\$316,112,695)	(\$115,176,055)	-4,625
8	(\$1,356,360,502)	(\$657,114,667)	(\$378,108,151)	(\$191,835,347)	-6,277
9	(\$1,210,511,303)	(\$553,648,523)	(\$311,427,811)	(\$120,343,416)	-4,622
10	(\$1,118,911,974)	(\$542,779,497)	(\$313,818,926)	(\$151,502,374)	-5,146
11	(\$1,375,174,229)	(\$683,048,948)	(\$388,739,888)	(\$231,102,653)	-6,807
12	(\$1,175,141,599)	(\$575,978,159)	(\$333,456,383)	(\$170,781,812)	-5,595
13	(\$1,297,463,989)	(\$663,996,341)	(\$378,272,884)	(\$217,130,524)	-6,510
14	(\$1,353,564,276)	(\$648,166,500)	(\$388,836,607)	(\$222,356,233)	-6,753
15	(\$740,335,110)	(\$383,858,175)	(\$227,107,569)	(\$136,748,369)	-4,141
16	(\$1,050,430,184)	(\$508,501,527)	(\$297,340,581)	(\$156,739,930)	-5,185
17	(\$1,103,434,549)	(\$548,892,478)	(\$321,862,210)	(\$184,397,409)	-5,732
18	(\$1,234,442,364)	(\$561,755,695)	(\$316,112,695)	(\$115,176,055)	-4,625
19	(\$1,185,019,019)	(\$605,525,644)	(\$349,729,768)	(\$197,758,435)	-6,082
20	(\$1,128,454,071)	(\$566,225,519)	(\$337,248,445)	(\$174,088,390)	-5,819
21	(\$1,145,602,687)	(\$569,853,292)	(\$335,703,744)	(\$187,616,916)	-5,946
22	(\$951,816,533)	(\$446,373,832)	(\$253,559,788)	(\$127,301,518)	-4,070
23	(\$1,019,401,210)	(\$514,044,482)	(\$300,854,574)	(\$172,691,418)	-5,357
24	(\$1,119,039,059)	(\$547,285,981)	(\$313,786,999)	(\$141,153,480)	-5,032
25	(\$992,519,371)	(\$498,180,916)	(\$298,663,010)	(\$173,799,352)	-5,378
26	(\$859,296,382)	(\$415,521,202)	(\$244,220,482)	(\$124,916,033)	-4,116
27	(\$1,450,059,490)	(\$690,313,497)	(\$395,342,709)	(\$221,971,079)	-6,696
28	(\$783,297,674)	(\$402,962,530)	(\$233,508,285)	(\$136,565,944)	-4,152
29	(\$1,234,442,364)	(\$561,755,695)	(\$316,112,695)	(\$115,176,055)	-4,625
30	(\$1,193,630,383)	(\$581,935,119)	(\$328,499,290)	(\$131,741,008)	-5,061
31	(\$638,664,608)	(\$341,034,391)	(\$209,888,817)	(\$121,458,728)	-3,810
32	(\$1,162,395,965)	(\$568,039,590)	(\$321,368,977)	(\$130,955,347)	-4,978
33	(\$1,179,873,347)	(\$578,941,686)	(\$331,218,060)	(\$147,875,639)	-5,296
34	(\$865,414,982)	(\$445,071,271)	(\$261,866,244)	(\$159,023,137)	-4,818
35	(\$973,641,662)	(\$492,345,730)	(\$292,869,797)	(\$155,190,468)	-5,089
36	(\$1,347,474,834)	(\$648,210,447)	(\$373,058,384)	(\$190,371,887)	-6,116
TOTAL	(\$40,640,798,625)	(\$19,892,364,078)	(\$11,521,705,873)	(\$5,909,074,190)	-193,278

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

Results by Detailed MadStrial Category							
Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)			
Agriculture	(\$1,400,935,729)	(\$417,077,244)	(\$252,213,572)	(4,670)			
Mining	(\$10,051,900,468)	(\$4,830,767,424)	(\$1,652,021,518)	(6,764)			
Construction	(\$4,022,244,395)	(\$1,960,575,459)	(\$1,478,358,137)	(23,172)			
Nondurable Manufacturing	(\$13,321,955,622)	(\$3,682,651,444)	(\$1,942,333,120)	(20,644)			
Durable Manufacturing	(\$6,409,115,165)	(\$2,665,938,354)	(\$1,794,684,541)	(17,786)			
Transportation and Utilities	(\$10,136,334,481)	(\$3,522,916,898)	(\$1,967,902,693)	(20,876)			
Information	(\$2,829,077,312)	(\$1,884,583,568)	(\$830,896,959)	(7,650)			
Wholesale Trade	(\$3,871,360,450)	(\$3,019,969,352)	(\$1,695,494,746)	(19,965)			
Retail Trade (including Restaurants)	(\$15,877,753,533)	(\$12,290,148,045)	(\$7,085,321,740)	(225,442)			
FIRE	(\$22,661,038,483)	(\$6,735,283,153)	(\$2,399,496,569)	(23,125)			
Business Services	(\$6,933,499,639)	(\$5,029,972,278)	(\$4,072,419,400)	(48,290)			
Health Services	(\$4,490,823,561)	(\$3,610,574,419)	(\$2,887,071,253)	(51,362)			
Other Services	(\$7,196,276,652)	(\$3,800,564,277)	(\$2,900,748,230)	(68,672)			
TOTAL	(\$109,202,315,491)	(\$53,451,021,915)	(\$30,958,962,479)	(538,418)			
SOURCE: US Multi-Regio	nal Impact Assessment Syste	em, 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

	Comptioner's Economic Region Results							
Economic Region	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)			
High Plains	(\$3,761,631,598)	(\$1,922,617,945)	(\$1,113,210,700)	(\$631,701,007)	-20,114			
Northwest Texas	(\$3,692,355,021)	(\$1,898,506,952)	(\$1,079,811,403)	(\$633,521,398)	-19,481			
Metroplex	(\$27,607,871,602)	(\$13,562,097,258)	(\$7,846,741,949)	(\$3,790,322,251)	-133,915			
Upper East Texas	(\$7,093,548,874)	(\$3,570,182,353)	(\$2,068,706,154)	(\$1,206,190,518)	-37,667			
Southeast Texas	(\$4,713,620,813)	(\$2,369,094,776)	(\$1,435,271,687)	(\$864,257,620)	-26,525			
Gulf Coast	(\$27,451,438,843)	(\$12,671,330,962)	(\$7,183,593,030)	(\$3,016,093,962)	-114,081			
Capital	(\$4,971,975,214)	(\$2,551,760,472)	(\$1,518,356,959)	(\$811,010,354)	-27,312			
Central Texas	(\$5,011,674,498)	(\$2,520,564,726)	(\$1,493,055,143)	(\$898,415,542)	-28,271			
Alamo	(\$11,123,517,409)	(\$5,534,053,234)	(\$3,263,127,374)	(\$1,775,760,257)	-59,058			
South Texas	(\$7,493,253,779)	(\$3,770,307,854)	(\$2,192,871,011)	(\$1,285,988,787)	-40,533			
West Texas	(\$2,917,587,271)	(\$1,449,160,195)	(\$810,369,246)	(\$461,529,367)	-14,225			
Upper Rio Grande	(\$3,363,840,568)	(\$1,631,345,187)	(\$953,847,825)	(\$502,962,470)	-17,236			
TOTAL STATE	(\$109,202,315,491)	(\$53,451,021,915)	(\$30,958,962,479)	(\$15,877,753,533)	-538,418			
SOURCE: US Multi-Ro	egional Impact Assessme	ent System, The Perryma	an Group					



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

	Council of Covernments (COC) Region Results						
COG	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)		
Panhandle	(\$2,009,422,717)	(\$1,015,983,697)	(\$578,568,577)	(\$328,768,199)	-10,320		
South Plains	(\$1,752,208,882)	(\$906,634,248)	(\$534,642,123)	(\$302,932,808)	-9,794		
Nortex	(\$1,509,798,929)	(\$790,715,616)	(\$449,428,113)	(\$262,262,233)	-8,063		
North Central Texas	(\$26,450,127,487)	(\$12,969,977,631)	(\$7,488,974,724)	(\$3,570,809,889)	-127,181		
Ark-Tex	(\$1,626,735,752)	(\$822,529,530)	(\$494,125,818)	(\$314,429,995)	-9,449		
East Texas	(\$5,466,813,123)	(\$2,747,652,823)	(\$1,574,580,336)	(\$891,760,523)	-28,218		
West Central Texas	(\$2,182,556,092)	(\$1,107,791,336)	(\$630,383,290)	(\$371,259,165)	-11,418		
Rio Grande	(\$3,363,840,568)	(\$1,631,345,187)	(\$953,847,825)	(\$502,962,470)	-17,236		
Permian Basin	(\$1,996,958,066)	(\$997,554,877)	(\$559,108,391)	(\$312,755,963)	-9,610		
Concho Valley	(\$920,629,205)	(\$451,605,318)	(\$251,260,855)	(\$148,773,403)	-4,615		
Heart of Texas	(\$2,184,829,988)	(\$1,054,786,135)	(\$618,449,103)	(\$365,783,737)	-11,654		
Capital Area	(\$4,971,975,214)	(\$2,551,760,472)	(\$1,518,356,959)	(\$811,010,354)	-27,312		
Brazos Valley	(\$1,219,773,729)	(\$622,818,928)	(\$361,603,909)	(\$217,327,826)	-6,724		
Deep East Texas	(\$2,272,740,329)	(\$1,165,805,743)	(\$698,177,643)	(\$436,751,774)	-13,222		
South East Texas	(\$2,440,880,483)	(\$1,203,289,033)	(\$737,094,043)	(\$427,505,846)	-13,303		
Houston-Galveston Area	(\$27,451,438,843)	(\$12,671,330,962)	(\$7,183,593,030)	(\$3,016,093,962)	-114,081		
Golden Crescent	(\$1,110,825,383)	(\$552,621,988)	(\$319,696,634)	(\$185,116,628)	-5,698		
Alamo Area	(\$10,013,705,694)	(\$4,981,920,469)	(\$2,943,681,969)	(\$1,590,749,193)	-53,364		
South Texas	(\$708,105,803)	(\$374,681,723)	(\$210,267,315)	(\$136,079,967)	-3,939		
Coastal Bend	(\$3,258,750,067)	(\$1,547,787,161)	(\$880,177,265)	(\$490,489,576)	-15,435		
Lower Rio Grande Valley	(\$2,941,857,663)	(\$1,539,755,885)	(\$920,849,814)	(\$541,703,422)	-17,614		
Texoma	(\$1,157,744,115)	(\$592,119,627)	(\$357,767,225)	(\$219,512,362)	-6,734		
Central Texas	(\$1,607,070,781)	(\$842,959,662)	(\$513,002,130)	(\$315,303,979)	-9,893		
Middle Rio Grande	(\$583,526,578)	(\$307,593,862)	(\$181,325,388)	(\$117,610,259)	-3,541		
Border Region	(\$7,599,130,197)	(\$3,854,443,526)	(\$2,266,925,151)	(\$1,298,688,018)	-42,341		
TOTAL STATE IMPACT	(\$109,202,315,491)	(\$53,451,021,915)	(\$30,958,962,479)	(\$15,877,753,533)	-538,418		
SOURCE: US Multi-Re	egional Impact Assessme	ent System, The Perrym	an 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

Metropolitan Statistical Area (MSA) and Rural Texas Results						
MSA	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)	
Abilene	(\$1,069,262,947)	(\$531,722,144)	(\$300,648,832)	(\$160,208,161)	-5,261	
Amarillo	(\$1,300,252,219)	(\$674,602,422)	(\$385,846,793)	(\$209,664,731)	-6,872	
Austin-Round Rock	(\$4,132,514,659)	(\$2,140,002,762)	(\$1,282,937,076)	(\$671,535,429)	-22,955	
Beaumont-Port Arthur	(\$2,494,815,748)	(\$1,236,911,236)	(\$758,879,975)	(\$442,283,912)	-13,720	
Brownsville- Harlingen	(\$1,190,298,531)	(\$602,403,009)	(\$358,956,053)	(\$212,972,736)	-6,915	
College Station- Bryan	(\$754,367,968)	(\$382,217,472)	(\$221,451,925)	(\$128,491,864)	-4,086	
Corpus Christi	(\$2,632,995,060)	(\$1,222,577,516)	(\$698,924,964)	(\$376,118,665)	-12,093	
Dallas-Plano-Irving MD*	(\$16,039,598,960)	(\$7,845,483,651)	(\$4,502,013,746)	(\$2,029,098,687)	-74,887	
Fort Worth- Arlington MD*	(\$9,723,035,021)	(\$4,782,558,020)	(\$2,784,378,881)	(\$1,420,163,933)	-48,472	
El Paso	(\$3,289,864,291)	(\$1,592,270,059)	(\$930,618,261)	(\$487,809,985)	-16,787	
Houston-The Woodlands-Sugar Land	(\$26,621,381,288)	(\$12,255,659,127)	(\$6,941,153,518)	(\$2,860,631,791)	-109,506	
Killeen-Temple	(\$1,347,605,320)	(\$708,932,221)	(\$432,180,246)	(\$261,536,590)	-8,319	
Laredo	(\$532,017,435)	(\$278,595,498)	(\$154,389,258)	(\$95,104,215)	-2,826	
Longview	(\$1,394,418,094)	(\$715,843,348)	(\$413,832,402)	(\$225,581,578)	-7,253	
Lubbock	(\$1,301,466,673)	(\$676,986,926)	(\$403,297,848)	(\$215,514,501)	-7,320	
McAllen-Edinburg- Mission	(\$1,700,540,241)	(\$908,547,869)	(\$545,196,181)	(\$317,182,673)	-10,373	
Midland	(\$564,184,945)	(\$285,625,324)	(\$158,605,991)	(\$83,525,234)	-2,660	
Odessa	(\$753,996,106)	(\$372,725,004)	(\$213,415,712)	(\$114,833,280)	-3,622	
San Angelo	(\$647,807,295)	(\$315,590,397)	(\$174,359,632)	(\$100,555,891)	-3,211	
San Antonio-New Braunfels	(\$9,227,882,808)	(\$4,598,117,676)	(\$2,723,227,095)	(\$1,455,903,880)	-49,217	
Sherman-Denison	(\$695,447,099)	(\$361,063,383)	(\$220,082,226)	(\$140,126,954)	-4,251	
Texarkana	(\$559,007,415)	(\$294,342,893)	(\$178,472,255)	(\$108,256,925)	-3,385	
Tyler	(\$1,257,601,673)	(\$617,992,996)	(\$341,278,156)	(\$184,746,716)	-5,950	
Victoria	(\$578,494,820)	(\$284,573,201)	(\$162,745,508)	(\$89,539,606)	-2,791	
Waco	(\$1,552,823,623)	(\$746,832,950)	(\$440,484,993)	(\$248,573,425)	-8,213	
Wichita Falls	(\$939,631,750)	(\$503,752,878)	(\$286,805,805)	(\$161,163,150)	-5,086	
Rural Area	(\$16,901,003,501)	(\$8,515,091,931)	(\$4,944,779,145)	(\$3,076,629,021)	-92,386	
TOTAL STATE	(\$109,202,315,491)	(\$53,451,021,915)	(\$30,958,962,479)	(\$15,877,753,533)	-538,418	
Metropolitan Division	egional Impact Assessme	, , , , , , , , , , , , , , , , , , , ,			·	



		County F	Results		
	Total		Personal		
County	Expenditures (2017 Dellers)	Gross Product	Income	Retail Sales	Employment (Second
Anderson	(2017 Dollars) (\$419,958,099)	(2017 Dollars) (\$228,464,340)	(2017 Dollars) (\$132,366,558)	(2017 Dollars) (\$76,146,595)	(Permanent Jobs) -2,401
Andrews	(\$58,939,156)	(\$30,594,757)	(\$16,871,150)	(\$9,078,123)	-283
Angelina	(\$443,304,831)	(\$221,377,080)	(\$134,470,033)	(\$82,457,377)	-2,541
Aransas	(\$238,440,823)	(\$110,018,616)	(\$59,967,652)	(\$35,411,144)	-1,054
Archer	(\$38,357,704)	(\$19,809,468)	(\$10,617,946)	(\$6,622,455)	-195
Armstrong	(\$10,730,062)	(\$5,424,669)	(\$3,061,285)	(\$1,284,193)	-51
Atascosa	(\$221,530,381)	(\$107,034,239)	(\$60,397,380)	(\$32,881,776)	-1,034
Austin	(\$178,267,144)	(\$84,705,238)	(\$50,850,281)	(\$23,658,150)	-837
Bailey	(\$24,685,378)	(\$12,743,863)	(\$7,653,400)	(\$5,258,492)	-147
Bandera	(\$129,286,794)	(\$61,425,705)	(\$34,633,776)	(\$22,764,307)	-663
Bastrop	(\$323,868,378)	(\$159,129,158)	(\$93,974,043)	(\$58,175,450)	-1,797
Baylor	(\$46,009,487)	(\$24,503,563)	(\$14,261,047)	(\$8,599,849)	-264
Bee	(\$120,936,369)	(\$64,153,667)	(\$36,113,790)	(\$22,764,307)	-676
Bell	(\$1,013,517,350)	(\$540,607,176)	(\$332,599,929)	(\$196,278,911)	-6,343
Bexar	(\$7,392,501,848)	(\$3,709,376,701)	(\$2,209,368,119)	(\$1,134,168,346)	-39,456
Blanco	(\$50,086,420)	(\$23,736,085)	(\$13,568,249)	(\$8,742,952)	-266
Borden	(\$6,822,629)	(\$3,394,826)	(\$1,806,464)	(\$856,258)	-28
Bosque	(\$117,305,917)	(\$57,796,805)	(\$34,987,769)	(\$19,576,730)	-649
Bowie	(\$559,007,415)	(\$294,342,893)	(\$178,472,255)	(\$108,256,925)	-3,385
Brazoria	(\$1,199,266,403)	(\$571,261,272)	(\$336,127,810)	(\$197,631,571)	-5,991
Brazos	(\$544,176,821)	(\$274,669,253)	(\$158,402,664)	(\$85,998,492)	-2,883
Brewster	(\$35,658,742)	(\$19,564,235)	(\$11,888,373)	(\$7,082,229)	-226
Briscoe	(\$8,487,729)	(\$3,993,308)	(\$2,295,020)	(\$1,453,768)	-42
Brooks	(\$23,796,307)	(\$13,003,583)	(\$7,538,506)	(\$5,058,735)	-143
Brown	(\$217,058,365)	(\$117,639,375)	(\$71,562,523)	(\$50,081,475)	-1,443
Burleson	(\$106,555,872)	(\$56,568,502)	(\$32,344,449)	(\$20,234,939)	-588
Burnet	(\$291,146,755)	(\$139,282,453)	(\$80,493,921)	(\$47,552,107)	-1,483
Caldwell	(\$209,254,792)	(\$105,140,796)	(\$60,264,160)	(\$34,905,270)	-1,091
Calhoun	(\$75,125,302)	(\$30,831,416)	(\$17,723,623)	(\$9,808,255)	-301
Callahan	(\$105,413,501)	(\$51,116,801)	(\$27,996,948)	(\$17,199,698)	-510
Cameron	(\$1,190,298,531)	(\$602,403,009)	(\$358,956,053)	(\$212,972,736)	-6,915
Camp	(\$60,490,710)	(\$29,664,832)	(\$17,631,420)	(\$10,869,568)	-336
Carson	(\$13,912,675)	(\$5,855,234)	(\$2,727,792)	(\$1,085,593)	-42
Cass	(\$175,650,691)	(\$88,932,209)	(\$53,075,979)	(\$37,160,105)	-1,034
Castro	(\$15,743,569)	(\$7,623,624)	(\$4,524,516)	(\$3,239,431)	-90
Chambers	(\$139,115,358)	(\$59,895,119)	(\$32,416,538)	(\$14,768,479)	-515
Cherokee	(\$230,096,136)	(\$115,597,063)	(\$71,233,405)	(\$44,850,148)	-1,345
Childress	(\$40,658,699)	(\$20,347,499)	(\$11,716,121)	(\$8,093,976)	-230
Clay	(\$66,532,131)	(\$33,905,730)	(\$20,325,430)	(\$10,366,753)	-352
Cochran	(\$13,075,314)	(\$7,005,880)	(\$3,647,523)	(\$1,719,041)	-60
Coke	(\$41,491,302)	(\$20,087,172)	(\$11,225,799)	(\$6,549,491)	-192
Coleman	(\$84,163,723)	(\$43,554,818)	(\$24,240,316)	(\$14,670,331)	-440
Collin	(\$1,716,966,459)	(\$882,067,080)	(\$522,408,804)	(\$278,410,059)	-9,269
Collingsworth	(\$21,772,513)	(\$12,002,907)	(\$7,210,870)	(\$4,594,568)	-132
Colorado	(\$123,217,872)	(\$62,646,112)	(\$36,104,518)	(\$24,401,227)	-726



County Results Total **Personal Expenditures Gross Product Income Retail Sales Employment** County (2017 Dollars) (2017 Dollars) (2017 Dollars) (2017 Dollars) (Permanent Jobs) Comal (\$505,314,348) (\$244,536,395) (\$142,322,952) (\$89,033,733)-2,784 Comanche (\$95,745,565)(\$48,719,314)-557 (\$29,346,780)(\$18,243,163)Concho (\$13,744,217)(\$7,356,171)(\$4,627,995)(\$2,540,083)-87 Cooke (\$250,452,420)(\$124,724,911)(\$72,332,380)(\$38,952,258)-1.232Coryell (\$219,633,331) (\$110,782,005) (\$65,557,503)(\$42,493,372)-1,293 Cottle (\$10,147,221)(\$5,899,745)(\$3,516,802)(\$1,818,835)-60 Crane (\$2,137,810) -72 (\$14,142,103) (\$7,688,912)(\$4,182,327)Crockett (\$16,588,787) (\$8,575,770)(\$4,687,501)(\$3,541,114)-90 Crosby (\$31,734,968)(\$17,161,475) (\$9,634,894)(\$4,479,283)-164 Culberson (\$8,623,065)(\$5,137,011)(\$3,018,071)(\$2,529,367)-63 **Dallam** (\$17,454,208) (\$9,373,471)(\$5,582,180)(\$2,927,226)-103 **Dallas** (\$10,984,832,319) (\$5,354,788,078) (\$3,023,428,549)(\$1,203,554,959) -48,188 Dawson (\$75,314,080) (\$38,073,204)(\$20,725,985)(\$12,981,637)-374 **Deaf Smith** -236 (\$44,573,957) (\$21,786,543)(\$12,816,452)(\$6,803,796)Delta (\$27,230,938)(\$3,447,479)-146 (\$14,227,124)(\$8,598,542)Denton (\$1,655,388,540) (\$793,401,309)(\$468,712,629)(\$241,807,524)-8,224 **DeWitt** (\$156,095,808)(\$78,399,030)(\$46,796,544)(\$28,328,915)-876 **Dickens** (\$18,686,667) (\$9,874,165)(\$5,950,349)(\$3,684,910)-108 Dimmit (\$33,974,102) (\$17,705,803) (\$9,932,654)(\$7,082,229) -193 **Donley** (\$6,070,482)-166 (\$23,394,411) (\$13,206,727)(\$7,984,980)Duval (\$59,494,092)(\$29,034,915)(\$15,623,897)(\$8,581,047)-277 **Eastland** -790 (\$152,597,883) (\$75,592,314) (\$42,398,697)(\$27,823,041)**Ector** (\$372,725,004) (\$213,415,712) (\$114,833,280) -3,622 (\$753,996,106)**Edwards** (\$14,305,913) (\$7,047,242)(\$2,488,392)-69 (\$3,770,141)El Paso (\$3,287,801,934) (\$1,591,194,217)(\$930,010,107)(\$487,156,163) -16,773 **Ellis** -2,956 (\$589,572,542) (\$272,734,077)(\$161,751,445) (\$98,423,890)**Erath** (\$153,442,505) (\$82,949,495)(\$50,815,716) (\$33,893,523)-1,014 **Falls** (\$109,743,964) (\$58,191,580)(\$35,584,598)(\$21,436,232)-682 -1,251Fannin (\$211,844,596)(\$106,331,333)(\$65,352,618)(\$40,433,150)**Fayette** (\$197,221,185) (\$100,707,672) (\$56,597,694) (\$30,352,409)-998 **Fisher** (\$27,096,783)(\$14,049,388)(\$8,217,799)(\$5,779,185)-163 Floyd (\$21,434,138)(\$9,643,139)(\$5,564,540)(\$2,938,548)-101 **Foard** (\$1,874,409)(\$1,054,390)(\$650,485)(\$391,850)-13 -6,849 Fort Bend (\$1,578,488,437) (\$740,804,034) (\$416,102,590) (\$206,157,857) Franklin (\$68,339,644)(\$33,960,285)(\$18,435,844) (\$11,795,027)-341 Freestone (\$132,385,155)(\$65,469,895)(\$35,592,766)(\$24,281,927)-662 (\$10,800,747)Frio (\$68,357,847)(\$33,113,244)(\$17,995,412)-322 Gaines (\$59,309,192)(\$28,684,849) (\$15,050,805)(\$8,857,098)-261 Galveston -8,982 (\$1,826,100,333) (\$851,467,783) (\$497,434,861) (\$283,795,023) Garza (\$28,035,139) (\$13,735,557) (\$7,562,479) (\$4,638,376) -133 Gillespie (\$91,888,979) -1,046 (\$187,826,413) (\$54,561,925)(\$33,387,650)Glasscock (\$873,940)(\$431,704)(\$209,387)(\$73,179)-3 Goliad (\$24,609,149) (\$10,117,470)-271 (\$45,886,744)(\$14,074,172)Gonzales (\$74,426,478) (\$37,985,636) (\$22,720,278)-436 (\$14,424,426)(\$161,063,754) (\$75,297,305) (\$42,223,053)(\$25,548,553)-726 Gray



	County Results					
	Total		Personal			
County	Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)	
Grayson	(\$695,447,099)	(\$361,063,383)	(\$220,082,226)	(\$140,126,954)	-4,251	
Gregg	(\$806,156,343)	(\$425,407,609)	(\$247,035,633)	(\$130,009,485)	-4,279	
Grimes	(\$116,736,018)	(\$58,767,661)	(\$34,721,191)	(\$20,885,130)	-641	
Guadalupe	(\$431,591,277)	(\$213,366,741)	(\$126,174,077)	(\$81,951,504)	-2,402	
Hale	(\$110,159,716)	(\$59,050,043)	(\$35,745,901)	(\$26,681,525)	-728	
Hall	(\$24,535,827)	(\$12,391,384)	(\$7,147,325)	(\$4,631,790)	-136	
Hamilton	(\$62,432,765)	(\$30,826,297)	(\$18,622,619)	(\$13,152,711)	-372	
Hansford	(\$13,620,525)	(\$6,165,608)	(\$2,991,358)	(\$1,350,521)	-44	
Hardeman	(\$21,121,847)	(\$11,608,166)	(\$6,846,270)	(\$5,564,608)	-144	
Hardin	(\$319,456,395)	(\$156,780,628)	(\$89,321,514)	(\$56,657,830)	-1,639	
Harris	(\$18,925,821,017)	(\$8,610,651,969)	(\$4,847,522,032)	(\$1,756,063,810)	-73,433	
Harrison	(\$453,330,606)	(\$210,792,849)	(\$120,371,682)	(\$58,359,698)	-1,966	
Hartley	(\$7,584,004)	(\$3,732,086)	(\$2,154,086)	(\$1,384,597)	-44	
Haskell	(\$48,199,547)	(\$24,837,205)	(\$14,471,097)	(\$8,322,681)	-261	
Hays	(\$375,331,361)	(\$189,619,667)	(\$112,482,537)	(\$66,269,426)	-2,104	
Hemphill	(\$9,444,872)	(\$4,454,852)	(\$2,277,085)	(\$1,194,801)	-36	
Henderson	(\$667,103,936)	(\$322,760,550)	(\$186,117,053)	(\$109,774,545)	-3,478	
Hidalgo	(\$1,700,540,241)	(\$908,547,869)	(\$545,196,181)	(\$317,182,673)	-10,373	
Hill	(\$246,920,538)	(\$114,695,793)	(\$66,087,596)	(\$46,540,360)	-1,358	
Hockley	(\$95,571,342)	(\$49,142,423)	(\$27,336,729)	(\$17,218,203)	-505	
Hood	(\$343,639,533)	(\$162,294,146)	(\$96,014,902)	(\$60,198,944)	-1,828	
Hopkins	(\$178,635,486)	(\$93,623,095)	(\$56,900,768)	(\$38,446,385)	-1,111	
Houston	(\$207,690,049)	(\$101,668,219)	(\$61,938,467)	(\$28,040,945)	-1,026	
Howard	(\$216,249,596)	(\$103,948,710)	(\$58,497,227)	(\$33,387,650)	-1,015	
Hudspeth	(\$2,062,358)	(\$1,075,842)	(\$608,155)	(\$653,822)	-14	
Hunt	(\$399,720,547)	(\$200,432,072)	(\$120,854,631)	(\$81,951,504)	-2,358	
Hutchinson	(\$134,194,318)	(\$62,925,052)	(\$35,052,037)	(\$24,049,123)	-611	
Irion	(\$3,248,854)	(\$1,359,726)	(\$696,575)	(\$392,942)	-11	
Jack	(\$58,062,579)	(\$29,149,582)	(\$16,493,451)	(\$9,784,030)	-289	
Jackson	(\$84,559,762)	(\$43,798,758)	(\$23,697,658)	(\$15,468,826)	-433	
Jasper	(\$215,941,798)	(\$110,005,295)	(\$65,931,448)	(\$44,499,899)	-1,304	
Jeff Davis	(\$10,899,369)	(\$5,350,345)	(\$3,106,121)	(\$1,999,775)	-59	
Jefferson	(\$1,610,301,914)	(\$795,882,501)	(\$495,244,619)	(\$277,724,541)	-8,888	
Jim Hogg	(\$33,007,875)	(\$16,703,887)	(\$8,986,091)	(\$6,576,355)	-166	
Jim Wells	(\$162,377,065)	(\$89,890,437)	(\$50,440,234)	(\$31,870,029)	-936	
Johnson	(\$689,216,890)	(\$339,727,700)	(\$208,330,201)	(\$122,927,256)	-3,870	
Jones	(\$118,860,077)	(\$60,130,705)	(\$33,862,046)	(\$18,563,586)	-603	
Karnes	(\$105,072,740)	(\$48,131,188)	(\$26,396,477)	(\$15,176,204)	-454	
Kaufman	(\$462,033,970)	(\$224,577,673)	(\$134,660,822)	(\$83,469,124)	-2,573	
Kendall	(\$181,502,057)	(\$83,722,232)	(\$47,969,538)	(\$28,834,788)	-873	
Kenedy	(\$2,943,376)	(\$1,511,959)	(\$776,937)	(\$568,180)	-16	
Kent	(\$2,441,755)	(\$1,182,255)	(\$641,234)	(\$342,486)	-10	
Kerr	(\$423,552,219)	(\$210,180,159)	(\$121,249,831)	(\$75,375,149)	-2,322	
Kimble	(\$45,712,547)	(\$19,992,115)	(\$10,976,012)	(\$7,082,229)	-201	
King	(\$2,335,172)	(\$1,253,784)	(\$754,006)	(\$306,663)	-13	



		County R	esults		
	Total		Personal		
County	Expenditures	Gross Product	Income	Retail Sales	Employment
County Kinney	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Permanent Jobs) -104
Kleberg	(\$23,411,492) (\$150,457,350)	(\$11,028,707)	(\$5,660,111)	(\$3,626,213)	-779
Knox	(\$150,457,259)	(\$76,234,139)	(\$42,781,856)	(\$25,293,674)	
La Salle	(\$28,488,689)	(\$15,037,612)	(\$8,304,023)	(\$4,089,592)	-138 -110
	(\$18,634,703)	(\$10,054,587)	(\$5,506,692)	(\$4,046,988)	
Lamar	(\$295,608,446)	(\$146,566,353)	(\$89,206,681)	(\$59,517,564)	-1,768
Lamb	(\$51,542,273)	(\$23,846,453)	(\$14,129,754)	(\$8,971,260)	-256 -684
Lampasas	(\$114,454,640)	(\$57,543,040)	(\$34,022,814)	(\$22,764,307)	-860
		(\$77,033,947)	(,	(\$27,546,599)	
Lee	(\$96,907,387)	(\$48,908,673)	(\$27,685,321)	(\$15,898,693)	-493 -490
Leon	(\$84,612,322)	(\$45,348,998) (\$348,467,550)	(\$25,525,575)	(\$18,164,494)	
Liberty	(\$482,564,024) (\$135,394,755)	(\$248,467,550)	(\$144,660,575)	(\$79,309,287)	-2,552 -772
Limestone	(\$13,053,942)	(\$69,990,692)	(\$41,295,978) (\$3,135,081)	(\$26,811,295) (\$1,508,883)	-772
Live Oak	(\$59,637,108)	(\$28,314,233)	(\$15,774,441)	(\$10,117,470)	-280
Llano	(\$204,098,806)	(\$99,122,827)	(\$57,074,697)	(\$36,928,764)	-1,118
Loving	(\$1,702,610)	(\$825,929)	(\$344,274)	(\$105,163)	-1,118
Lubbock	(\$1,251,602,371)	(\$650,972,411)	(\$388,533,842)	(\$208,925,748)	-7,071
Lynn	(\$18,129,334)	(\$8,853,039)	(\$5,129,112)	(\$2,109,470)	-7,071
Madison	(\$64,442,596)	(\$32,941,368)	(\$18,542,544)	(\$14,164,457)	-380
Marion	(\$90,769,667)	(\$46,455,046)	(\$26,847,351)	(\$17,705,572)	-527
Martin	(\$25,895,043)	(\$12,293,941)	(\$6,771,972)	(\$3,632,754)	-112
Mason	(\$34,427,503)	(\$17,042,928)	(\$9,154,251)	(\$5,564,608)	-168
Matagorda	(\$220,984,421)	(\$101,434,530)	(\$59,185,561)	(\$38,529,174)	-1,076
Maverick	(\$145,853,019)	(\$74,820,340)	(\$43,127,605)	(\$29,340,662)	-859
McCulloch	(\$56,856,444)	(\$29,533,461)	(\$17,877,892)	(\$11,129,217)	-336
McLennan	(\$1,443,079,660)	(\$688,641,371)	(\$404,900,395)	(\$227,137,193)	-7,531
McMullen	(\$1,013,667)	(\$489,223)	(\$251,230)	(\$105,564)	-4
Medina	(\$183,202,102)	(\$87,744,282)	(\$49,844,240)	(\$32,375,903)	-972
Menard	(\$18,405,487)	(\$9,623,165)	(\$5,264,242)	(\$3,541,114)	-97
Midland	(\$538,289,903)	(\$273,331,383)	(\$151,834,019)	(\$79,892,480)	-2,548
Milam	(\$134,381,829)	(\$67,872,409)	(\$40,600,736)	(\$25,661,257)	-767
Mills	(\$26,468,486)	(\$16,030,460)	(\$10,151,970)	(\$6,859,446)	-202
Mitchell	(\$59,045,526)	(\$30,537,674)	(\$17,270,864)	(\$10,520,802)	-310
Montague	(\$171,988,518)	(\$83,852,539)	(\$45,798,981)	(\$28,328,915)	-848
Montgomery	(\$2,103,481,585)	(\$1,005,378,131)	(\$570,491,876)	(\$268,895,206)	-9,493
Moore	(\$72,413,885)	(\$31,702,908)	(\$17,445,064)	(\$9,848,210)	-293
Morris	(\$83,971,911)	(\$36,767,562)	(\$22,022,759)	(\$9,916,195)	-362
Motley	(\$11,104,985)	(\$5,270,625)	(\$2,788,193)	(\$1,747,423)	-51
Nacogdoches	(\$277,776,771)	(\$147,897,824)	(\$90,474,835)	(\$60,198,944)	-1,827
Navarro	(\$304,998,729)	(\$151,323,281)	(\$91,245,366)	(\$51,736,729)	-1,711
Newton	(\$53,935,265)	(\$33,622,204)	(\$21,785,932)	(\$14,778,067)	-417
Nolan	(\$119,559,685)	(\$63,072,267)	(\$35,407,123)	(\$20,769,694)	-636
Nueces	(\$2,022,446,567)	(\$938,562,817)	(\$538,918,193)	(\$276,712,794)	-9,205
Ochiltree	(\$28,895,059)	(\$13,930,726)	(\$7,489,924)	(\$3,980,908)	-124
Oldham	(\$1,108,374)	(\$626,506)	(\$383,093)	(\$350,914)	-9



		County F	Results		
	Total		Personal		
County	Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)
Orange	(\$511,122,174)	(\$250,625,904)	(\$152,527,911)	(\$93,123,474)	-2.776
Palo Pinto	(\$229,052,272)	(\$107,663,185)	(\$60,521,015)	(\$35,917,017)	-1,097
Panola	(\$161,687,453)	(\$82,448,554)	(\$46,963,088)	(\$26,735,544)	-833
Parker	(\$569,185,553)	(\$265,900,962)	(\$153,326,370)	(\$89,539,606)	-2,794
Parmer	(\$12,498,998)	(\$5,734,690)	(\$3,305,033)	(\$1,144,780)	-56
Pecos	(\$68,323,592)	(\$34,201,425)	(\$18,831,240)	(\$12,646,837)	-355
Polk	(\$398,584,624)	(\$204,251,044)	(\$115,523,912)	(\$72,845,781)	-2,095
Potter	(\$752,269,588)	(\$392,063,793)	(\$222,686,671)	(\$118,374,395)	-3,918
Presidio	(\$18,795,101)	(\$9,023,537)	(\$5,216,999)	(\$3,541,114)	-101
Rains	(\$84,935,775)	(\$39,573,160)	(\$21,957,828)	(\$15,272,331)	-414
Randall	(\$522,231,521)	(\$270,632,220)	(\$156,987,953)	(\$88,569,637)	-2,852
Reagan	(\$12,640,102)	(\$6,545,130)	(\$3,502,208)	(\$2,383,240)	-61
Real	(\$33,304,097)	(\$15,208,200)	(\$8,246,942)	(\$5,058,735)	-147
Red River	(\$117,795,339)	(\$55,911,740)	(\$32,113,489)	(\$20,432,474)	-610
Reeves	(\$60,189,807)	(\$31,108,548)	(\$17,269,629)	(\$12,646,837)	-332
Refugio	(\$46,113,431)	(\$23,066,712)	(\$12,202,639)	(\$10,117,470)	-236
Roberts	(\$1,580,753)	(\$719,461)	(\$373,870)	(\$294,367)	-7
Robertson	(\$103,635,275)	(\$50,979,717)	(\$30,704,812)	(\$22,258,433)	-615
Rockwall	(\$231,084,585)	(\$117,483,363)	(\$70,196,866)	(\$41,481,625)	-1,319
Runnels	(\$94,171,097)	(\$42,353,694)	(\$23,075,417)	(\$13,466,953)	-403
Rusk	(\$324,332,364)	(\$158,045,724)	(\$91,040,916)	(\$49,031,733)	-1,591
Sabine	(\$69,701,083)	(\$34,506,459)	(\$21,500,597)	(\$13,887,357)	-408
San Augustine	(\$75,015,710)	(\$36,024,748)	(\$19,883,427)	(\$12,274,895)	-369
San Jacinto	(\$150,396,399)	(\$73,488,913)	(\$43,234,569)	(\$27,823,041)	-828
San Patricio	(\$372,107,670)	(\$173,996,083)	(\$100,039,119)	(\$63,994,727)	-1,835
San Saba	(\$36,182,381)	(\$19,298,276)	(\$11,446,560)	(\$8,093,976)	-233
Schleicher	(\$8,498,184)	(\$4,369,816)	(\$2,427,982)	(\$958,102)	-39
Scurry	(\$80,267,932)	(\$43,819,778)	(\$24,018,779)	(\$16,410,396)	-446
Shackelford	(\$22,638,865)	(\$11,392,290)	(\$6,086,226)	(\$3,510,276)	-106
Shelby	(\$116,758,858)	(\$62,980,076)	(\$40,095,263)	(\$26,016,821)	-784
Sherman	(\$4,603,931)	(\$2,126,543)	(\$1,211,830)	(\$652,600)	-22
Smith	(\$1,257,601,673)	(\$617,992,996)	(\$341,278,156)	(\$184,746,716)	-5,950
Somervell	(\$23,694,883)	(\$11,025,203)	(\$6,761,937)	(\$2,706,438)	-120
Starr	(\$111,091,884)	(\$62,843,828)	(\$37,663,774)	(\$27,823,041)	-769
Stephens	(\$63,041,801)	(\$34,063,959)	(\$19,124,586)	(\$13,351,485)	-352
Sterling	(\$1,467,082)	(\$845,689)	(\$480,617)	(\$375,453)	-9
Stonewall	(\$10,541,966)	(\$5,912,824)	(\$3,328,168)	(\$2,316,105)	-63
Sutton	(\$22,990,256)	(\$12,043,503)	(\$6,676,726)	(\$4,552,861)	-123
Swisher	(\$23,384,606)	(\$10,813,257)	(\$6,345,565)	(\$3,770,086)	-119
Tarrant	(\$7,834,255,024)	(\$3,866,795,116)	(\$2,243,181,614)	(\$1,098,757,202)	-38,484
Taylor	(\$844,989,368)	(\$420,474,638)	(\$238,789,838)	(\$124,444,876)	-4,147
Terrell	(\$1,799,585)	(\$1,066,869)	(\$634,809)	(\$331,900)	-11
Terry	(\$51,878,972)	(\$26,783,123)	(\$14,082,322)	(\$10,191,546)	-261
Throckmorton	(\$8,233,963)	(\$4,304,426)	(\$2,240,825)	(\$1,353,338)	-39
Titus	(\$120,495,883)	(\$58,198,270)	(\$35,299,502)	(\$25,457,841)	-692



County Results						
	Total		Personal			
County	Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)	
Tom Green	(\$644,558,441)	(\$314,230,671)	(\$173,663,057)	(\$100,162,949)	-3,200	
Travis	(\$2,590,688,706)	(\$1,348,064,833)	(\$808,235,150)	(\$396,049,558)	-14,126	
Trinity	(\$128,411,439)	(\$70,120,304)	(\$41,251,482)	(\$27,070,417)	-815	
Tyler	(\$135,223,502)	(\$69,863,579)	(\$42,087,679)	(\$26,858,228)	-808	
Upshur	(\$263,929,387)	(\$132,390,015)	(\$75,755,853)	(\$46,540,360)	-1,384	
Upton	(\$13,231,039)	(\$6,701,740)	(\$3,541,256)	(\$1,956,391)	-60	
Uvalde	(\$126,162,561)	(\$65,821,727)	(\$39,110,396)	(\$23,776,054)	-756	
Val Verde	(\$159,344,500)	(\$88,996,418)	(\$55,155,476)	(\$33,387,650)	-1,063	
Van Zandt	(\$289,177,285)	(\$163,131,269)	(\$95,662,856)	(\$62,728,312)	-1,868	
Victoria	(\$532,608,076)	(\$259,964,052)	(\$148,671,336)	(\$79,422,137)	-2,520	
Walker	(\$232,670,591)	(\$119,456,359)	(\$72,243,511)	(\$46,034,487)	-1,402	
Waller	(\$188,276,986)	(\$83,028,032)	(\$45,546,956)	(\$30,352,409)	-854	
Ward	(\$62,188,805)	(\$31,935,071)	(\$17,747,228)	(\$12,140,964)	-328	
Washington	(\$199,614,824)	(\$103,543,428)	(\$61,362,674)	(\$35,621,880)	-1,128	
Webb	(\$532,017,435)	(\$278,595,498)	(\$154,389,258)	(\$95,104,215)	-2,826	
Wharton	(\$253,184,671)	(\$132,134,835)	(\$74,905,921)	(\$46,497,283)	-1,371	
Wheeler	(\$30,210,936)	(\$16,787,385)	(\$9,440,333)	(\$6,561,002)	-180	
Wichita	(\$834,741,916)	(\$450,037,680)	(\$255,862,429)	(\$144,173,942)	-4,539	
Wilbarger	(\$98,868,686)	(\$47,398,201)	(\$28,619,962)	(\$18,211,445)	-537	
Willacy	(\$51,018,891)	(\$28,805,006)	(\$16,697,581)	(\$11,548,014)	-326	
Williamson	(\$633,371,422)	(\$338,048,308)	(\$207,981,185)	(\$116,135,724)	-3,837	
Wilson	(\$182,954,000)	(\$90,911,382)	(\$52,517,013)	(\$33,893,523)	-1,031	
Winkler	(\$39,690,881)	(\$20,548,005)	(\$11,374,905)	(\$7,197,603)	-202	
Wise	(\$263,043,137)	(\$136,814,893)	(\$76,763,856)	(\$46,034,487)	-1,375	
Wood	(\$357,243,689)	(\$174,928,816)	(\$100,318,535)	(\$58,989,918)	-1,845	
Yoakum	(\$22,233,112)	(\$11,298,267)	(\$6,129,078)	(\$4,062,320)	-111	
Young	(\$162,094,431)	(\$83,496,551)	(\$46,435,310)	(\$28,399,550)	-823	
Zapata	(\$31,988,609)	(\$16,538,511)	(\$9,228,192)	(\$6,576,355)	-177	
Zavala	(\$28,536,191)	(\$16,910,839)	(\$10,815,371)	(\$8,803,337)	-239	
TOTAL STATE	(\$109,202,315,491)	(\$53,451,021,915)	(\$30,958,962,479)	(\$15,877,753,533)	-538,418	

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		Personal			
House District	Expenditures	Gross Product	Income	Retail Sales	Employment	
House District	(\$1,040,750,844)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Permanent Jobs)	
2	(\$1,040,750,844) (\$867,533,317)	(\$530,781,271) (\$457,186,435)	(\$318,228,268) (\$273,418,255)	(\$200,001,991)	-6,105 -5.337	
3	,		(, , , , , , , , , , , , , , , , , , ,	(\$183,126,200)	-5,337	
	(\$747,803,088)	(\$350,458,615)	(\$197,297,795)	(\$101,878,534)	-3,380	
4	(\$1,015,730,237)	(\$492,468,929)	(\$289,137,977)	(\$174,581,997)	-5,461	
5	(\$1,008,962,369)	(\$487,450,958)	(\$279,136,802)	(\$164,845,064)	-5,077	
6	(\$955,777,271)	(\$469,674,677)	(\$259,371,398)	(\$140,407,504)	-4,522	
7	(\$1,070,085,730)	(\$557,797,624)	(\$322,791,486)	(\$176,549,845)	-5,662	
8	(\$1,104,262,521)	(\$559,953,308)	(\$325,292,287)	(\$198,705,611)	-6,133	
9	(\$1,067,898,358)	(\$526,115,192)	(\$308,853,960)	(\$179,865,096)	-5,552	
10	(\$702,980,211)	(\$327,603,370)	(\$193,391,344)	(\$117,085,563)	-3,547	
11	(\$832,205,271)	(\$421,540,611)	(\$252,749,157)	(\$154,080,825)	-4,763	
12	(\$868,766,183)	(\$429,701,481)	(\$254,399,934)	(\$152,406,876)	-4,790	
13	(\$1,063,736,128)	(\$543,972,561)	(\$317,993,830)	(\$182,700,335)	-5,778	
14	(\$457,108,530)	(\$230,722,173)	(\$133,058,238)	(\$72,238,733)	-2,422	
15	(\$771,977,742)	(\$368,973,774)	(\$209,370,518)	(\$98,684,541)	-3,484	
16	(\$771,977,742)	(\$368,973,774)	(\$209,370,518)	(\$98,684,541)	-3,484	
17	(\$809,529,775)	(\$399,295,452)	(\$231,040,280)	(\$138,580,044)	-4,270	
18	(\$865,631,015)	(\$441,412,822)	(\$260,138,654)	(\$153,166,815)	-4,782	
19	(\$1,123,141,585)	(\$574,522,748)	(\$334,650,485)	(\$215,639,805)	-6,263	
20	(\$564,870,297)	(\$281,525,489)	(\$166,850,518)	(\$98,763,223)	-3,094	
21	(\$1,090,830,863)	(\$537,143,605)	(\$330,815,973)	(\$193,104,309)	-5,976	
22	(\$1,030,593,225)	(\$509,364,801)	(\$316,956,556)	(\$177,743,706)	-5,688	
23	(\$942,599,505)	(\$434,540,943)	(\$251,287,877)	(\$139,638,289)	-4,467	
24	(\$1,022,616,187)	(\$476,821,958)	(\$278,563,522)	(\$158,925,213)	-5,030	
25	(\$748,661,638)	(\$352,789,489)	(\$207,081,798)	(\$125,487,065)	-3,712	
26	(\$429,348,855)	(\$201,498,697)	(\$113,179,904)	(\$56,074,937)	-1,863	
27	(\$429,348,855)	(\$201,498,697)	(\$113,179,904)	(\$56,074,937)	-1,863	
28	(\$429,348,855)	(\$201,498,697)	(\$113,179,904)	(\$56,074,937)	-1,863	
29	(\$671,589,186)	(\$319,906,312)	(\$188,231,573)	(\$110,673,680)	-3,355	
30	(\$1,094,270,184)	(\$526,888,974)	(\$299,435,966)	(\$173,205,389)	-5,258	
31	(\$582,168,285)	(\$297,795,460)	(\$169,216,528)	(\$107,307,170)	-3,125	
32	(\$990,998,818)	(\$459,895,780)	(\$264,069,914)	(\$135,589,269)	-4,510	
33	(\$437,120,560)	(\$223,331,412)	(\$132,885,922)	(\$74,890,833)	-2,431	
34	(\$1,031,447,749)	(\$478,667,036)	(\$274,848,278)	(\$141,123,525)	-4,694	
35	(\$420,019,901)	(\$218,702,639)	(\$130,807,640)	(\$76,804,747)	-2,503	
36	(\$370,717,773)	(\$198,063,435)	(\$118,852,767)	(\$69,145,823)	-2,261	
37	(\$499,925,383)	(\$253,009,264)	(\$150,761,542)	(\$89,448,549)	-2,904	
38	(\$488,022,398)	(\$246,985,234)	(\$147,171,982)	(\$87,318,822)	-2,835	
39	(\$370,717,773)	(\$198,063,435)	(\$118,852,767)	(\$69,145,823)	-2,261	
40	(\$370,717,773)	(\$198,063,435)	(\$118,852,767)	(\$69,145,823)	-2,261	
41	(\$370,717,773)	(\$198,063,435)	(\$118,852,767)	(\$69,145,823)	-2,261	
42	(\$340,491,158)	(\$178,301,118)	(\$98,809,125)	(\$60,866,697)	-1,809	
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Results by Texas House District						
	Total		Personal			
House District	Expenditures	Gross Product	Income	Retail Sales	Employment	
House District	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Permanent Jobs)	
43	(\$805,878,363)	(\$404,274,325)	(\$229,374,999)	(\$143,922,737) (\$115,845,027)	-4,226	
44	(\$614,545,278)	(\$304,278,123)	(\$178,691,090) (\$136,050,786)	(\$115,845,027)	-3,433	
	(\$425,417,782)	(\$213,355,752)	(\$126,050,786)	(\$75,012,378)	-2,370	
46	(\$422,282,259)	(\$219,734,568)	(\$131,742,330)	(\$64,556,078)	-2,303	
47	(\$440,417,080)	(\$229,171,022)	(\$137,399,976)	(\$67,328,425)	-2,401	
48	(\$440,417,080)	(\$229,171,022)	(\$137,399,976)	(\$67,328,425)	-2,401	
49	(\$424,872,948)	(\$221,082,633)	(\$132,550,565)	(\$64,952,127)	-2,317	
50	(\$422,282,259)	(\$219,734,568)	(\$131,742,330)	(\$64,556,078)	-2,303	
51	(\$440,417,080)	(\$229,171,022)	(\$137,399,976)	(\$67,328,425)	-2,401	
52	(\$247,014,855)	(\$131,838,840)	(\$81,112,662)	(\$45,292,933)	-1,496	
53	(\$1,134,372,694)	(\$552,375,713)	(\$314,006,339)	(\$200,231,279)	-6,010	
54	(\$600,942,967)	(\$317,034,484)	(\$193,670,780)	(\$116,978,184)	-3,729	
55	(\$527,029,022)	(\$281,115,731)	(\$172,951,963)	(\$102,065,034)	-3,298	
56	(\$1,010,155,762)	(\$482,048,959)	(\$283,430,276)	(\$158,996,035)	-5,272	
57	(\$1,003,476,947)	(\$507,480,717)	(\$301,611,528)	(\$182,172,587)	-5,621	
58	(\$806,522,808)	(\$397,524,505)	(\$243,317,970)	(\$142,503,986)	-4,520	
59	(\$674,456,360)	(\$349,164,510)	(\$210,580,976)	(\$136,571,846)	-4,125	
60	(\$1,217,605,944)	(\$603,316,889)	(\$347,945,213)	(\$222,752,268)	-6,566	
61	(\$832,228,690)	(\$402,715,855)	(\$230,090,227)	(\$135,574,093)	-4,170	
62	(\$934,522,633)	(\$481,621,841)	(\$294,033,387)	(\$184,007,583)	-5,648	
63	(\$413,847,135)	(\$198,350,327)	(\$117,178,157)	(\$60,451,881)	-2,056	
64	(\$413,847,135)	(\$198,350,327)	(\$117,178,157)	(\$60,451,881)	-2,056	
65	(\$413,847,135)	(\$198,350,327)	(\$117,178,157)	(\$60,451,881)	-2,056	
66	(\$377,732,621)	(\$194,054,758)	(\$114,929,937)	(\$61,250,213)	-2,039	
67	(\$377,732,621)	(\$194,054,758)	(\$114,929,937)	(\$61,250,213)	-2,039	
68	(\$1,099,758,761)	(\$554,883,715)	(\$316,711,389)	(\$190,849,977)	-5,717	
69	(\$1,016,004,335)	(\$544,348,443)	(\$310,021,360)	(\$174,244,441)	-5,501	
70	(\$377,732,621)	(\$194,054,758)	(\$114,929,937)	(\$61,250,213)	-2,039	
71	(\$1,083,409,130)	(\$543,677,610)	(\$308,059,008)	(\$163,778,157)	-5,386	
72	(\$1,028,444,631)	(\$497,158,667)	(\$275,978,282)	(\$159,331,940)	-4,982	
73	(\$874,642,818)	(\$420,147,606)	(\$244,854,415)	(\$151,256,171)	-4,703	
74	(\$536,663,239)	(\$282,199,205)	(\$164,860,863)	(\$107,891,569)	-3,192	
75	(\$657,560,387)	(\$318,238,843)	(\$186,002,021)	(\$97,431,233)	-3,355	
76	(\$657,560,387)	(\$318,238,843)	(\$186,002,021)	(\$97,431,233)	-3,355	
77	(\$657,560,387)	(\$318,238,843)	(\$186,002,021)	(\$97,431,233)	-3,355	
78	(\$657,560,387)	(\$318,238,843)	(\$186,002,021)	(\$97,431,233)	-3,355	
79	(\$657,560,387)	(\$318,238,843)	(\$186,002,021)	(\$97,431,233)	-3,355	
80	(\$480,545,587)	(\$250,384,502)	(\$142,662,158)	(\$91,276,238)	-2,705	
81	(\$914,814,948)	(\$455,802,838)	(\$259,408,996)	(\$143,249,970)	-4,435	
82	(\$666,872,167)	(\$338,089,180)	(\$187,055,559)	(\$100,601,072)	-3,166	
83	(\$776,094,535)	(\$402,462,253)	(\$232,771,882)	(\$132,515,869)	-4,220	
84	(\$750,961,423)	(\$390,583,447)	(\$233,120,305)	(\$125,355,449)	-4,242	
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Results by Texas House District						
	Total		Personal			
House District	Expenditures	Gross Product	Income	Retail Sales	Employment	
85	(2017 Dollars) (\$628,186,306)	(2017 Dollars)	(2017 Dollars) (\$175,166,456)	(2017 Dollars) (\$99,899,155)	(Permanent Jobs) -3,064	
86	(\$605,451,061)	(\$312,241,535) (\$311,885,515)	(\$181,228,797)	(\$101,180,950)	-3,299	
87	(\$977,394,398)	(\$494,673,531)	(\$279,123,395)	(\$154,009,920)	-4,887	
88		·		,	-3,263	
89	(\$626,666,416)	(\$310,982,405)	(\$177,344,122)	(\$113,606,834)	·	
90	(, , , , ,	(\$194,054,758)	(\$114,929,937)	(\$61,250,213)	-2,039	
91	(\$712,917,207)	(\$351,878,356)	(\$204,129,527) (\$204,129,527)	(\$99,986,905)	-3,502	
92	(, , ,	(\$351,878,356)	(\$204,129,527) (\$204,129,527)	(, , , ,	-3,502 -3,502	
93	(\$712,917,207)	(\$351,878,356)	(\$204,129,527) (\$204,129,527)	(\$99,986,905)	·	
94	(\$712,917,207)	(\$351,878,356)	(\$204,129,527)	(\$99,986,905)	-3,502	
95	(\$712,917,207)	(\$351,878,356)	(\$204,129,527) (\$204,129,527)	(\$99,986,905)	-3,502	
	(\$712,917,207)	(\$351,878,356)	(\$204,129,527)	(\$99,986,905)	-3,502	
96	(\$712,917,207)	(\$351,878,356)	(\$204,129,527) (\$204,129,527)	(\$99,986,905)	-3,502	
97	(\$712,917,207)	(\$351,878,356)	(\$204,129,527)	(\$99,986,905)	-3,502	
98	(\$712,917,207)	(\$351,878,356)	(\$204,129,527)	(\$99,986,905)	-3,502	
99	(\$712,917,207)	(\$351,878,356)	(\$204,129,527)	(\$99,986,905)	-3,502	
100	(\$779,923,095)	(\$380,189,954)	(\$214,663,427)	(\$85,452,402)	-3,421	
101	(\$705,082,952)	(\$348,011,560)	(\$201,886,345)	(\$98,888,148)	-3,464	
102	(\$779,923,095)	(\$380,189,954)	(\$214,663,427)	(\$85,452,402)	-3,421	
103	(\$779,923,095)	(\$380,189,954)	(\$214,663,427)	(\$85,452,402)	-3,421	
104	(\$779,923,095)	(\$380,189,954)	(\$214,663,427)	(\$85,452,402)	-3,421	
105	(\$779,923,095)	(\$380,189,954)	(\$214,663,427)	(\$85,452,402)	-3,421	
106	(\$413,847,135)	(\$198,350,327)	(\$117,178,157)	(\$60,451,881)	-2,056	
107	(\$779,923,095)	(\$380,189,954)	(\$214,663,427)	(\$85,452,402)	-3,421	
108	(\$779,923,095)	(\$380,189,954)	(\$214,663,427)	(\$85,452,402)	-3,421	
109	(\$779,923,095)	(\$380,189,954)	(\$214,663,427)	(\$85,452,402)	-3,421	
110	(\$779,923,095)	(\$380,189,954)	(\$214,663,427)	(\$85,452,402)	-3,421	
111	(\$796,400,343)	(\$388,222,136)	(\$219,198,570)	(\$87,257,735)	-3,494	
112	(\$779,923,095)	(\$380,189,954)	(\$214,663,427)	(\$85,452,402)	-3,421	
113	(\$796,400,343)	(\$388,222,136)	(\$219,198,570)	(\$87,257,735)	-3,494	
114	(\$796,400,343)	(\$388,222,136)	(\$219,198,570)	(\$87,257,735)	-3,494	
115	(\$796,400,343)	(\$388,222,136)	(\$219,198,570)	(\$87,257,735)	-3,494	
116	(\$739,250,185)	(\$370,937,670)	(\$220,936,812)	(\$113,416,835)	-3,946	
117	(\$739,250,185)	(\$370,937,670)	(\$220,936,812)	(\$113,416,835)	-3,946	
118	(\$739,250,185)	(\$370,937,670)	(\$220,936,812)	(\$113,416,835)	-3,946	
119	(\$739,250,185)	(\$370,937,670)	(\$220,936,812)	(\$113,416,835)	-3,946	
120	(\$739,250,185)	(\$370,937,670)	(\$220,936,812)	(\$113,416,835)	-3,946	
121	(\$739,250,185)	(\$370,937,670)	(\$220,936,812)	(\$113,416,835)	-3,946	
122	(\$739,250,185)	(\$370,937,670)	(\$220,936,812)	(\$113,416,835)	-3,946	
123	(\$739,250,185)	(\$370,937,670)	(\$220,936,812)	(\$113,416,835)	-3,946	
124	(\$739,250,185)	(\$370,937,670)	(\$220,936,812)	(\$113,416,835)	-3,946	
125	(\$739,250,185)	(\$370,937,670)	(\$220,936,812)	(\$113,416,835)	-3,946	
126	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084	



	Results by Texas Flouse District						
	Total		Personal				
House District	Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)		
127	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
128	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
129	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
130	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
131	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
132	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
133	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
134	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
135	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
136	(\$247,014,855)	(\$131,838,840)	(\$81,112,662)	(\$45,292,933)	-1,496		
137	(\$775,958,662)	(\$353,036,731)	(\$198,748,403)	(\$71,998,616)	-3,011		
138	(\$775,958,662)	(\$353,036,731)	(\$198,748,403)	(\$71,998,616)	-3,011		
139	(\$775,958,662)	(\$353,036,731)	(\$198,748,403)	(\$71,998,616)	-3,011		
140	(\$775,958,662)	(\$353,036,731)	(\$198,748,403)	(\$71,998,616)	-3,011		
141	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
142	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
143	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
144	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
145	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
146	(\$794,884,483)	(\$361,647,383)	(\$203,595,925)	(\$73,754,680)	-3,084		
147	(\$775,958,662)	(\$353,036,731)	(\$198,748,403)	(\$71,998,616)	-3,011		
148	(\$775,958,662)	(\$353,036,731)	(\$198,748,403)	(\$71,998,616)	-3,011		
149	(\$775,958,662)	(\$353,036,731)	(\$198,748,403)	(\$71,998,616)	-3,011		
150	(\$775,958,662)	(\$353,036,731)	(\$198,748,403)	(\$71,998,616)	-3,011		
TOTAL	(\$109,202,315,491)	(\$53,451,021,915)	(\$30,958,962,479)	(\$15,877,753,533)	-538,418		

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.

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



	Total	esuits by Texas	Personal		
	Expenditures	Gross Product	Income	Retail Sales	Employment
Senate District	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Permanent Jobs)
1	(\$5,196,411,220)	(\$2,592,805,752)	(\$1,495,869,142)	(\$855,524,724)	-26,904
2	(\$3,752,084,674)	(\$1,869,693,062)	(\$1,088,167,785)	(\$571,834,252)	-19,232
3	(\$5,197,528,516)	(\$2,629,254,717)	(\$1,554,273,523)	(\$934,258,982)	-28,743
4	(\$4,144,447,070)	(\$1,987,237,049)	(\$1,168,684,180)	(\$579,262,762)	-19,859
5	(\$2,181,806,785)	(\$1,123,544,660)	(\$665,610,962)	(\$400,395,696)	-12,448
6	(\$3,785,164,203)	(\$1,722,130,394)	(\$969,504,406)	(\$351,212,762)	-14,687
7	(\$3,785,164,203)	(\$1,722,130,394)	(\$969,504,406)	(\$351,212,762)	-14,687
8	(\$2,008,663,106)	(\$1,017,496,422)	(\$595,218,911)	(\$296,826,298)	-10,288
9	(\$3,652,281,617)	(\$1,796,641,266)	(\$1,034,790,318)	(\$481,897,395)	-17,422
10	(\$3,603,757,311)	(\$1,778,725,753)	(\$1,031,863,543)	(\$505,428,313)	-17,703
11	(\$3,960,140,619)	(\$1,839,869,020)	(\$1,063,715,243)	(\$540,247,324)	-18,166
12	(\$2,549,110,741)	(\$1,238,542,354)	(\$725,508,725)	(\$365,513,825)	-12,599
13	(\$3,517,302,376)	(\$1,604,563,601)	(\$903,138,238)	(\$337,700,840)	-13,785
14	(\$2,240,978,021)	(\$1,156,697,134)	(\$692,068,055)	(\$351,252,123)	-12,250
15	(\$3,595,905,993)	(\$1,636,023,874)	(\$921,029,186)	(\$333,652,124)	-13,952
16	(\$3,789,767,150)	(\$1,847,401,887)	(\$1,043,082,849)	(\$415,226,461)	-16,625
17	(\$3,337,245,617)	(\$1,533,533,041)	(\$867,530,314)	(\$355,524,596)	-13,595
18	(\$3,942,552,009)	(\$1,917,870,462)	(\$1,094,204,972)	(\$617,536,522)	-19,240
19	(\$3,359,937,646)	(\$1,693,526,445)	(\$996,876,086)	(\$554,121,798)	-18,196
20	(\$3,174,708,813)	(\$1,559,028,972)	(\$907,721,536)	(\$494,840,381)	-16,208
21	(\$2,558,620,396)	(\$1,292,732,785)	(\$742,024,419)	(\$448,796,417)	-13,655
22	(\$4,259,885,408)	(\$2,049,769,710)	(\$1,217,823,290)	(\$705,621,633)	-22,630
23	(\$3,789,767,150)	(\$1,847,401,887)	(\$1,043,082,849)	(\$415,226,461)	-16,625
24	(\$3,897,930,784)	(\$1,979,934,441)	(\$1,170,454,690)	(\$706,831,879)	-22,142
25	(\$3,131,967,780)	(\$1,557,451,639)	(\$921,911,336)	(\$508,657,388)	-16,860
26	(\$3,437,513,359)	(\$1,724,860,166)	(\$1,027,356,175)	(\$527,388,281)	-18,347
27	(\$2,108,944,959)	(\$1,090,544,219)	(\$648,194,823)	(\$383,599,326)	-12,392
28	(\$4,159,480,605)	(\$2,113,204,702)	(\$1,211,723,576)	(\$708,502,283)	-22,116
29	(\$3,328,181,826)	(\$1,611,780,952)	(\$941,959,452)	(\$495,880,242)	-17,010
30	(\$4,031,361,284)	(\$2,046,556,664)	(\$1,187,417,578)	(\$695,008,279)	-21,598
31	(\$3,723,704,248)	(\$1,870,068,491)	(\$1,058,651,909)	(\$588,771,406)	-18,457
TOTAL	(\$109,202,315,491)	(\$53,451,021,915)	(\$30,958,962,479)	(\$15,877,753,533)	-538,418

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.

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



US	roound	by co congree		ТОХИО	
Congressional	Total		Personal		
District in	Expenditures	Gross Product	Income	Retail Sales	Employment
Texas	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Permanent Jobs)
1	(\$4,203,236,403)	(\$2,104,987,774)	(\$1,214,718,988)	(\$680,562,250)	-21,678
2	(\$3,217,389,573)	(\$1,463,810,835)	(\$824,078,745)	(\$298,530,848)	-12,484
3	(\$1,528,100,148)	(\$785,039,701)	(\$464,943,836)	(\$247,784,953)	-8,249
4	(\$3,668,988,330)	(\$1,858,985,183)	(\$1,115,440,738)	(\$708,304,050)	-21,324
5	(\$3,827,737,037)	(\$1,912,657,091)	(\$1,105,518,184)	(\$582,040,168)	-19,556
6	(\$3,088,162,678)	(\$1,506,759,990)	(\$881,087,663)	(\$457,812,636)	-15,443
7	(\$3,217,389,573)	(\$1,463,810,835)	(\$824,078,745)	(\$298,530,848)	-12,484
8	(\$3,417,036,151)	(\$1,652,627,083)	(\$949,839,565)	(\$475,482,403)	-16,254
9	(\$3,044,237,052)	(\$1,390,692,284)	(\$782,678,732)	(\$297,388,398)	-11,993
10	(\$2,903,799,150)	(\$1,403,416,522)	(\$810,391,145)	(\$390,413,386)	-13,749
11	(\$4,091,627,963)	(\$2,032,125,313)	(\$1,156,870,526)	(\$686,282,782)	-20,988
12	(\$3,100,391,434)	(\$1,517,965,256)	(\$878,650,575)	(\$448,107,789)	-15,261
13	(\$3,809,196,891)	(\$1,953,416,317)	(\$1,112,968,197)	(\$636,313,359)	-19,837
14	(\$4,024,042,785)	(\$1,927,268,307)	(\$1,157,382,106)	(\$658,359,034)	-20,806
15	(\$1,830,897,049)	(\$948,271,369)	(\$560,480,962)	(\$335,774,956)	-10,574
16	(\$2,860,387,682)	(\$1,384,338,969)	(\$809,108,793)	(\$423,825,862)	-14,593
17	(\$3,127,405,958)	(\$1,550,162,562)	(\$908,525,541)	(\$521,215,637)	-16,786
18	(\$3,217,389,573)	(\$1,463,810,835)	(\$824,078,745)	(\$298,530,848)	-12,484
19	(\$3,481,972,450)	(\$1,776,516,363)	(\$1,024,140,504)	(\$576,890,754)	-18,413
20	(\$3,030,925,757)	(\$1,520,844,447)	(\$905,840,929)	(\$465,009,022)	-16,177
21	(\$3,025,856,644)	(\$1,502,452,899)	(\$884,038,086)	(\$494,033,671)	-16,238
22	(\$2,174,008,614)	(\$1,019,159,314)	(\$580,452,566)	(\$290,531,770)	-9,661
23	(\$2,805,176,340)	(\$1,416,746,202)	(\$828,944,374)	(\$475,878,322)	-15,295
24	(\$2,927,073,112)	(\$1,431,254,658)	(\$820,029,998)	(\$364,634,537)	-13,580
25	(\$2,662,474,310)	(\$1,330,243,328)	(\$796,922,652)	(\$466,514,233)	-14,909
26	(\$2,011,697,722)	(\$973,221,484)	(\$571,509,440)	(\$289,804,376)	-9,953
27	(\$4,160,426,143)	(\$1,980,749,392)	(\$1,134,518,822)	(\$634,752,923)	-19,902
28	(\$2,021,562,606)	(\$1,038,232,775)	(\$602,153,366)	(\$350,043,545)	-11,082
29	(\$3,217,389,573)	(\$1,463,810,835)	(\$824,078,745)	(\$298,530,848)	-12,484
30	(\$3,229,540,702)	(\$1,574,307,695)	(\$888,887,993)	(\$353,845,158)	-14,167
31	(\$1,535,401,863)	(\$819,188,694)	(\$503,995,122)	(\$290,823,955)	-9,482
32	(\$3,112,862,043)	(\$1,520,135,958)	(\$859,763,951)	(\$346,478,662)	-13,760
33	(\$3,136,233,302)	(\$1,537,909,284)	(\$879,718,789)	(\$389,297,112)	-14,540
34	(\$2,260,236,339)	(\$1,160,657,392)	(\$682,020,437)	(\$412,818,783)	-12,969
35	(\$2,462,053,717)	(\$1,243,081,490)	(\$739,047,648)	(\$389,279,509)	-13,286
36	(\$3,770,008,822)	(\$1,822,363,479)	(\$1,052,057,272)	(\$543,326,149)	-17,980

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.

(\$30,958,962,479)

(\$53,451,021,915)

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

(\$109,202,315,491)

TOTAL

(\$15,877,753,533)

-538,418





Results by Detailed Industrial Category									
Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)					
Agriculture	(\$2,920,566,202)	(\$845,950,145)	(\$526,100,968)	(9,120)					
Mining	(\$15,417,935,444)	(\$6,999,852,093)	(\$2,457,269,990)	(10,179)					
Construction	(\$6,893,134,321)	(\$3,390,630,689)	(\$2,605,723,322)	(39,506)					
Nondurable Manufacturing	(\$24,259,201,751)	(\$6,738,624,489)	(\$3,542,355,624)	(41,641)					
Durable Manufacturing	(\$10,876,076,748)	(\$4,489,316,819)	(\$3,005,191,477)	(31,089)					
Transportation and Utilities	(\$20,235,843,935)	(\$7,008,983,931)	(\$4,005,794,972)	(43,718)					
Information	(\$5,205,510,618)	(\$3,397,421,523)	(\$1,490,605,004)	(13,594)					
Wholesale Trade	(\$7,074,783,343)	(\$5,336,529,553)	(\$3,014,181,626)	(34,712)					
Retail Trade (including Restaurants)	(\$28,869,361,809)	(\$22,179,151,821)	(\$12,812,380,019)	(399,790)					
FIRE	(\$41,425,982,273)	(\$12,776,270,387)	(\$4,779,637,865)	(47,380)					
Business Services	(\$12,697,179,417)	(\$8,926,688,191)	(\$7,239,697,452)	(85,463)					
Health Services	(\$15,430,983,308)	(\$11,809,908,432)	(\$9,758,015,955)	(164,455)					
Other Services	(\$13,167,238,802)	(\$6,913,727,378)	(\$5,336,291,924)	(125,170)					
TOTAL	(\$204,473,797,970)	(\$100,813,055,453)	(\$60,573,246,198)	(1,045,817)					
SOURCE: US Multi-Region	nal Impact Assessment System,	The Perryman Group							



	Comparence of Economic Region Results							
Economic Region	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)			
High Plains	(\$6,980,897,314)	(\$3,578,552,432)	(\$2,149,444,620)	(\$1,133,916,042)	-38,387			
Northwest Texas	(\$6,363,886,163)	(\$3,287,142,859)	(\$1,947,202,445)	(\$1,068,566,044)	-34,895			
Metroplex	(\$52,352,292,242)	(\$25,868,332,842)	(\$15,492,121,848)	(\$6,996,608,506)	-263,100			
Upper East Texas	(\$12,746,909,251)	(\$6,457,718,396)	(\$3,892,592,308)	(\$2,095,229,067)	-70,037			
Southeast Texas	(\$8,521,159,993)	(\$4,326,509,512)	(\$2,704,441,981)	(\$1,505,274,561)	-49,248			
Gulf Coast	(\$51,331,868,056)	(\$23,867,007,325)	(\$14,078,201,302)	(\$5,598,962,094)	-225,364			
Capital	(\$10,040,932,035)	(\$5,202,288,936)	(\$3,197,925,588)	(\$1,578,894,779)	-56,609			
Central Texas	(\$9,244,065,091)	(\$4,698,831,098)	(\$2,879,371,179)	(\$1,585,115,856)	-53,384			
Alamo	(\$21,032,378,842)	(\$10,562,654,734)	(\$6,442,297,042)	(\$3,222,169,379)	-114,809			
South Texas	(\$14,290,993,755)	(\$7,249,295,929)	(\$4,394,162,297)	(\$2,365,561,397)	-80,080			
West Texas	(\$5,138,999,483)	(\$2,562,764,713)	(\$1,494,295,228)	(\$802,883,887)	-26,160			
Upper Rio Grande	(\$6,429,415,745)	(\$3,151,956,676)	(\$1,901,190,360)	(\$916,180,197)	-33,744			
TOTAL STATE IMPACT	(\$204,473,797,970)	(\$100,813,055,453)	(\$60,573,246,198)	(\$28,869,361,809)	-1,045,817			
SOURCE: US Multi-Ro	egional Impact Assessme	ent System, The Perryma	an Group					



Council of Governments (COG) Region Results							
COG	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)		
Panhandle	(\$3,668,153,630)	(\$1,856,262,181)	(\$1,099,072,348)	(\$586,580,628)	-19,467		
South Plains	(\$3,312,743,685)	(\$1,722,290,251)	(\$1,050,372,273)	(\$547,335,414)	-18,920		
Nortex	(\$2,591,210,281)	(\$1,362,200,986)	(\$807,272,009)	(\$442,819,823)	-14,415		
North Central Texas	(\$50,212,733,459)	(\$24,763,474,766)	(\$14,803,614,798)	(\$6,610,685,770)	-250,386		
Ark-Tex	(\$2,901,447,170)	(\$1,480,032,851)	(\$918,969,407)	(\$535,177,259)	-17,188		
East Texas	(\$9,845,462,081)	(\$4,977,685,545)	(\$2,973,622,901)	(\$1,560,051,808)	-52,849		
West Central Texas	(\$3,772,675,882)	(\$1,924,941,873)	(\$1,139,930,436)	(\$625,746,220)	-20,480		
Rio Grande	(\$6,429,415,745)	(\$3,151,956,676)	(\$1,901,190,360)	(\$916,180,197)	-33,744		
Permian Basin	(\$3,506,260,505)	(\$1,756,157,713)	(\$1,026,073,670)	(\$545,268,616)	-17,657		
Concho Valley	(\$1,632,738,978)	(\$806,607,000)	(\$468,221,558)	(\$257,615,271)	-8,502		
Heart of Texas	(\$3,925,066,546)	(\$1,921,581,885)	(\$1,164,735,912)	(\$628,087,625)	-21,493		
Capital Area	(\$10,040,932,035)	(\$5,202,288,936)	(\$3,197,925,588)	(\$1,578,894,779)	-56,609		
Brazos Valley	(\$2,261,430,167)	(\$1,161,353,785)	(\$700,327,827)	(\$390,022,174)	-12,827		
Deep East Texas	(\$4,189,614,830)	(\$2,165,658,124)	(\$1,342,670,059)	(\$770,188,770)	-24,934		
South East Texas	(\$4,331,545,164)	(\$2,160,851,388)	(\$1,361,771,921)	(\$735,085,791)	-24,315		
Houston-Galveston Area	(\$51,331,868,056)	(\$23,867,007,325)	(\$14,078,201,302)	(\$5,598,962,094)	-225,364		
Golden Crescent	(\$2,001,025,433)	(\$1,002,426,997)	(\$604,000,393)	(\$325,534,195)	-10,693		
Alamo Area	(\$19,034,474,653)	(\$9,561,681,264)	(\$5,839,085,284)	(\$2,896,973,041)	-104,129		
South Texas	(\$1,372,046,038)	(\$728,091,049)	(\$431,824,640)	(\$255,791,359)	-7,985		
Coastal Bend	(\$5,878,875,764)	(\$2,816,019,064)	(\$1,670,063,736)	(\$872,627,810)	-29,191		
Lower Rio Grande Valley	(\$5,956,380,936)	(\$3,131,177,689)	(\$1,940,678,338)	(\$1,030,528,399)	-36,210		
Texoma	(\$2,139,558,783)	(\$1,104,858,076)	(\$688,507,051)	(\$385,922,736)	-12,713		
Central Texas	(\$3,057,568,378)	(\$1,615,895,428)	(\$1,014,307,439)	(\$567,006,058)	-19,064		
Middle Rio Grande	(\$1,080,569,773)	(\$572,554,598)	(\$350,806,948)	(\$206,275,972)	-6,682		
Border Region	(\$14,844,133,359)	(\$7,587,079,946)	(\$4,626,549,060)	(\$2,409,838,036)	-84,656		
TOTAL STATE	(\$204,473,797,970)	(\$100,813,055,453)	(\$60,573,246,198)	(\$28,869,361,809)	-1,045,817		
SOURCE: US Multi-Re	egional Impact Assessm	ent System, The Perrym	an Group				



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

MSA	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)
Abilene	(\$1,847,104,683)	(\$923,366,952)	(\$543,293,852)	(\$270,141,227)	-9,461
Amarillo	(\$2,383,099,375)	(\$1,238,968,878)	(\$737,547,734)	(\$373,456,856)	-13,020
Austin-Round Rock	(\$8,494,323,485)	(\$4,436,701,281)	(\$2,742,555,779)	(\$1,330,630,248)	-48,320
Beaumont-Port Arthur	(\$4,417,685,458)	(\$2,214,045,143)	(\$1,396,862,609)	(\$757,783,509)	-24,976
Brownsville- Harlingen	(\$2,406,971,716)	(\$1,227,963,074)	(\$757,016,879)	(\$403,850,486)	-14,190
College Station- Bryan	(\$1,426,838,441)	(\$727,440,374)	(\$438,366,614)	(\$235,323,962)	-7,975
Corpus Christi	(\$4,710,574,044)	(\$2,207,801,859)	(\$1,312,703,452)	(\$662,831,415)	-22,658
Dallas-Plano-Irving MD*	(\$30,555,882,429)	(\$15,022,544,303)	(\$8,922,494,675)	(\$3,793,967,328)	-148,212
Fort Worth- Arlington MD*	(\$18,438,457,321)	(\$9,130,200,616)	(\$5,507,198,720)	(\$2,609,190,228)	-95,239
El Paso	(\$6,269,247,740)	(\$3,067,689,420)	(\$1,849,317,537)	(\$885,368,908)	-32,769
Houston-The Woodlands-Sugar Land	(\$49,626,854,229)	(\$23,000,041,837)	(\$13,547,749,139)	(\$5,289,567,025)	-215,505
Killeen-Temple	(\$2,600,530,716)	(\$1,378,659,290)	(\$866,760,725)	(\$476,191,500)	-16,256
Laredo	(\$1,039,482,896)	(\$546,010,896)	(\$320,416,001)	(\$181,461,536)	-5,814
Longview	(\$2,473,715,409)	(\$1,273,226,975)	(\$766,253,116)	(\$392,600,042)	-13,391
Lubbock	(\$2,500,161,289)	(\$1,308,388,055)	(\$804,917,851)	(\$393,758,616)	-14,357
McAllen-Edinburg- Mission	(\$3,438,074,222)	(\$1,840,708,725)	(\$1,145,694,935)	(\$603,003,941)	-21,297
Midland	(\$1,035,188,123)	(\$524,403,255)	(\$304,154,905)	(\$152,444,978)	-5,113
Odessa	(\$1,290,637,542)	(\$643,312,403)	(\$383,979,583)	(\$195,576,550)	-6,549
San Angelo	(\$1,156,476,210)	(\$567,904,747)	(\$327,873,119)	(\$174,398,098)	-5,960
San Antonio-New Braunfels	(\$17,640,258,731)	(\$8,872,036,525)	(\$5,427,062,188)	(\$2,664,906,380)	-96,513
Sherman-Denison	(\$1,291,021,265)	(\$678,458,838)	(\$426,370,895)	(\$244,647,384)	-8,029
Texarkana	(\$977,888,760)	(\$518,286,805)	(\$323,903,795)	(\$179,588,403)	-6,007
Tyler	(\$2,395,967,822)	(\$1,187,472,488)	(\$688,395,205)	(\$344,608,994)	-11,970
Victoria	(\$1,051,795,545)	(\$521,874,569)	(\$312,093,000)	(\$160,540,846)	-5,355
Waco	(\$2,801,020,923)	(\$1,366,502,850)	(\$830,386,640)	(\$427,433,513)	-15,168
Wichita Falls	(\$1,612,712,420)	(\$867,146,608)	(\$514,986,853)	(\$272,365,836)	-9,105
Rural Area	(\$30,591,827,174)	(\$15,521,898,686)	(\$9,374,890,399)	(\$5,393,723,999)	-172,605
TOTAL STATE IMPACT	(\$204,473,797,970)	(\$100,813,055,453)	(\$60,573,246,198)	(\$28,869,361,809)	-1,045,817
*Metropolitan Division					

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



	County Results							
	Total		Personal					
County	Expenditures	Gross Product	Income	Retail Sales	Employment			
County Anderson	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Permanent Jobs)			
	(\$644,016,495)	(\$351,254,076)	(\$210,717,298)	(\$113,556,967)	-3,788			
Andrews	(\$108,058,712)	(\$55,408,226)	(\$31,678,819)	(\$16,790,576)	-534			
Angelina	(\$857,220,280)	(\$434,078,744)	(\$272,008,674)	(\$151,312,068)	-5,033			
Aransas	(\$430,941,309)	(\$199,077,044)	(\$113,007,315)	(\$63,976,759)	-1,987			
Archer	(\$69,503,253)	(\$35,524,863)	(\$19,917,390)	(\$12,034,972)	-364			
Armstrong	(\$21,882,390)	(\$11,147,393)	(\$6,695,688)	(\$2,541,722)	-111			
Atascosa	(\$404,697,772)	(\$196,774,611)	(\$116,375,722)	(\$59,135,723)	-1,994			
Austin	(\$307,482,687)	(\$145,735,886)	(\$88,826,269)	(\$40,258,576)	-1,458			
Bailey	(\$41,724,737)	(\$21,502,803)	(\$13,048,207)	(\$8,566,580)	-245			
Bandera	(\$246,898,585)	(\$118,895,607)	(\$69,825,833)	(\$42,413,487)	-1,308			
Bastrop	(\$617,609,758)	(\$304,569,987)	(\$185,062,520)	(\$106,555,365)	-3,461			
Baylor	(\$73,965,937)	(\$39,491,317)	(\$23,805,657)	(\$13,388,305)	-434			
Bee	(\$213,719,273)	(\$113,849,001)	(\$67,466,094)	(\$39,276,223)	-1,248			
Bell	(\$1,946,551,228)	(\$1,044,972,009)	(\$661,706,641)	(\$355,123,544)	-12,307			
Bexar	(\$14,116,904,880)	(\$7,148,898,208)	(\$4,392,243,907)	(\$2,067,752,085)	-77,212			
Blanco	(\$95,982,034)	(\$46,073,905)	(\$27,351,401)	(\$15,957,474)	-518			
Borden	(\$20,997,166)	(\$10,135,393)	(\$5,618,939)	(\$2,727,365)	-88			
Bosque	(\$217,659,596)	(\$109,002,428)	(\$68,242,655)	(\$34,165,840)	-1,239			
Bowie	(\$977,888,760)	(\$518,286,805)	(\$323,903,795)	(\$179,588,403)	-6,007			
Brazoria	(\$2,199,808,209)	(\$1,053,344,201)	(\$639,959,355)	(\$358,093,418)	-11,378			
Brazos	(\$1,045,456,665)	(\$531,599,466)	(\$319,437,608)	(\$160,136,995)	-5,742			
Brewster	(\$74,002,229)	(\$40,773,604)	(\$25,650,374)	(\$13,852,114)	-475			
Briscoe	(\$16,014,204)	(\$7,451,390)	(\$4,357,152)	(\$2,762,317)	-80			
Brooks	(\$48,163,058)	(\$26,573,243)	(\$16,340,178)	(\$10,012,310)	-306			
Brown	(\$394,958,593)	(\$216,284,825)	(\$135,938,429)	(\$85,582,094)	-2,664			
Burleson	(\$194,915,861)	(\$102,957,047)	(\$61,236,688)	(\$36,746,855)	-1,107			
Burnet	(\$514,607,311)	(\$248,914,918)	(\$148,593,026)	(\$81,566,655)	-2,697			
Caldwell	(\$371,580,410)	(\$187,341,247)	(\$112,485,700)	(\$60,333,621)	-2,020			
Calhoun	(\$137,207,771)	(\$56,539,339)	(\$33,462,714)	(\$18,092,634)	-572			
Callahan	(\$184,466,756)	(\$89,598,746)	(\$51,434,792)	(\$29,583,635)	-928			
Cameron	(\$2,406,971,716)	(\$1,227,963,074)	(\$757,016,879)	(\$403,850,486)	-14,190			
Camp	(\$112,127,222)	(\$56,152,020)	(\$34,846,969)	(\$18,953,535)	-647			
Carson	(\$27,249,846)	(\$11,286,498)	(\$5,607,763)	(\$2,117,942)	-88			
Cass	(\$319,567,615)	(\$162,966,417)	(\$100,867,624)	(\$64,595,716)	-1,918			
Castro	(\$30,256,717)	(\$14,432,200)	(\$8,696,514)	(\$5,949,770)	-170			
Chambers	(\$262,225,393)	(\$110,928,861)	(\$62,165,417)	(\$28,457,954)	-1,005			
Cherokee	(\$447,061,478)	(\$229,141,996)	(\$146,206,483)	(\$82,136,461)	-2,705			
Childress	(\$71,419,774)	(\$36,134,621)	(\$21,748,888)	(\$13,708,027)	-418			
Clay	(\$119,575,731)	(\$60,876,025)	(\$37,703,102)	(\$18,241,259)	-650			
Cochran	(\$20,445,260)	(\$10,720,955)	(\$5,804,522)	(\$2,714,014)	-97			
Coke	(\$64,946,786)	(\$31,453,758)	(\$18,100,602)	(\$10,362,150)	-311			
Coleman	(\$143,235,311)	(\$74,359,510)	(\$43,405,558)	(\$24,412,361)	-780			
Collin	(\$3,707,745,636)	(\$1,913,607,679)	(\$1,174,039,987)	(\$577,945,645)	-20,524			
COIIII	(ψυ, ευτ., ε4υ, υυδ)	(\$1,313,007,079)	(\$1,174,039,907)	(\$377,943,043)	-20,324			



	County Results							
County	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)			
Collingsworth	(\$35,392,605)	(\$19,414,112)	(\$11,945,164)	(\$7,289,782)	-217			
Colorado	(\$247,531,936)	(\$126,552,603)	(\$76,720,124)	(\$46,339,298)	-1,496			
Comal	(\$989,902,722)	(\$486,576,477)	(\$294,253,382)	(\$165,483,905)	-5,593			
Comanche	(\$170,376,393)	(\$87,670,462)	(\$54,571,579)	(\$30,578,170)	-1,010			
Concho	(\$26,564,547)	(\$14,303,551)	(\$9,310,500)	(\$4,615,685)	-171			
Cooke	(\$452,553,948)	(\$224,284,372)	(\$134,411,802)	(\$70,490,018)	-2,305			
Coryell	(\$426,752,614)	(\$218,055,677)	(\$133,893,822)	(\$78,489,350)	-2,566			
Cottle	(\$21,465,497)	(\$12,413,654)	(\$7,694,679)	(\$3,744,920)	-131			
Crane	(\$23,197,962)	(\$12,609,193)	(\$7,277,040)	(\$3,445,318)	-125			
Crockett	(\$28,559,717)	(\$14,657,654)	(\$8,299,738)	(\$6,183,021)	-159			
Crosby	(\$56,294,097)	(\$30,630,703)	(\$18,198,448)	(\$7,594,517)	-310			
Culberson	(\$15,342,151)	(\$9,032,472)	(\$5,490,315)	(\$4,345,678)	-113			
Dallam	(\$34,724,136)	(\$18,356,107)	(\$11,093,165)	(\$5,621,149)	-201			
Dallas	(\$20,305,457,784)	(\$9,915,138,507)	(\$5,791,415,049)	(\$2,189,550,741)	-92,585			
Dawson	(\$130,526,700)	(\$65,262,921)	(\$36,544,476)	(\$22,510,582)	-659			
Deaf Smith	(\$81,748,268)	(\$39,730,054)	(\$23,881,537)	(\$11,960,305)	-432			
Delta	(\$50,680,155)	(\$26,572,832)	(\$16,716,698)	(\$6,063,913)	-280			
Denton	(\$3,419,716,125)	(\$1,661,755,772)	(\$1,013,713,834)	(\$481,560,547)	-17,594			
DeWitt	(\$269,024,559)	(\$136,882,220)	(\$84,505,771)	(\$46,822,261)	-1,555			
Dickens	(\$31,513,371)	(\$16,558,804)	(\$10,180,985)	(\$6,086,792)	-183			
Dimmit	(\$61,156,154)	(\$32,023,387)	(\$19,046,416)	(\$12,366,042)	-363			
Donley	(\$44,820,685)	(\$25,368,657)	(\$16,003,261)	(\$10,858,937)	-321			
Duval	(\$101,701,033)	(\$50,130,277)	(\$28,720,925)	(\$14,411,280)	-506			
Eastland	(\$254,517,761)	(\$126,628,220)	(\$74,060,599)	(\$45,821,030)	-1,373			
Ector	(\$1,290,637,542)	(\$643,312,403)	(\$383,979,583)	(\$195,576,550)	-6,549			
Edwards	(\$22,123,834)	(\$10,851,451)	(\$5,938,609)	(\$3,837,491)	-108			
El Paso	(\$6,262,354,595)	(\$3,064,173,953)	(\$1,847,293,357)	(\$883,277,031)	-32,725			
Ellis	(\$1,074,492,824)	(\$502,234,402)	(\$304,838,892)	(\$175,035,529)	-5,527			
Erath	(\$282,099,629)	(\$153,490,872)	(\$97,169,241)	(\$58,826,517)	-1,885			
Falls	(\$195,868,402)	(\$104,556,434)	(\$65,947,526)	(\$35,837,635)	-1,230			
Fannin	(\$395,983,570)	(\$202,114,866)	(\$127,724,354)	(\$70,785,334)	-2,379			
Fayette	(\$375,030,996)	(\$191,980,202)	(\$113,153,404)	(\$56,110,998)	-1,985			
Fisher	(\$46,702,683)	(\$24,565,328)	(\$14,943,451)	(\$9,391,868)	-287			
Floyd	(\$42,124,033)	(\$19,195,571)	(\$11,414,826)	(\$5,514,188)	-202			
Foard	(\$6,824,073)	(\$3,861,645)	(\$2,538,637)	(\$1,251,228)	-47			
Fort Bend	(\$3,289,420,408)	(\$1,547,673,068)	(\$905,143,522)	(\$430,305,196)	-15,002			
Franklin	(\$110,027,066)	(\$55,074,327)	(\$31,473,878)	(\$18,594,335)	-576			
Freestone	(\$224,103,509)	(\$111,070,371)	(\$63,193,947)	(\$40,793,843)	-1,167			
Frio	(\$127,016,307)	(\$61,941,986)	(\$35,590,669)	(\$19,616,169)	-633			
Gaines	(\$95,386,040)	(\$45,463,870)	(\$24,652,409)	(\$14,285,376)	-428			
Galveston	(\$3,303,468,740)	(\$1,566,767,989)	(\$948,521,535)	(\$496,633,622)	-16,890			
Garza	(\$47,583,813)	(\$23,072,768)	(\$13,113,407)	(\$7,964,471)	-230			
Gillespie	(\$351,864,596)	(\$174,561,246)	(\$107,355,938)	(\$59,806,716)	-2,008			



	County Results							
County	Total Expenditures	Gross Product	Personal Income	Retail Sales	Employment			
County	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Permanent Jobs)			
Glasscock	(\$2,741,423)	(\$1,288,413)	(\$671,136)	(\$232,968)	-10			
Goliad	(\$77,524,780)	(\$41,615,972)	(\$24,931,563)	(\$16,887,355)	-475			
Gonzales	(\$138,209,066)	(\$71,248,674)	(\$44,292,322)	(\$25,449,488)	-830			
Gray	(\$294,614,018)	(\$139,783,599)	(\$82,561,695)	(\$46,616,318)	-1,429			
Grayson	(\$1,291,021,265)	(\$678,458,838)	(\$426,370,895)	(\$244,647,384)	-8,029			
Gregg	(\$1,446,720,329)	(\$765,180,157)	(\$463,244,395)	(\$228,585,624)	-8,022			
Grimes	(\$197,751,210)	(\$100,221,378)	(\$61,141,043)	(\$34,988,714)	-1,119			
Guadalupe	(\$835,718,082)	(\$414,456,245)	(\$251,946,003)	(\$155,099,293)	-4,740			
Hale	(\$207,719,280)	(\$112,315,501)	(\$70,270,590)	(\$47,370,880)	-1,387			
Hall	(\$43,525,703)	(\$22,075,701)	(\$13,130,857)	(\$7,802,115)	-244			
Hamilton	(\$103,798,507)	(\$52,054,007)	(\$32,425,812)	(\$20,913,311)	-630			
Hansford	(\$26,236,329)	(\$11,565,559)	(\$5,867,017)	(\$2,724,572)	-88			
Hardeman	(\$40,037,620)	(\$21,944,752)	(\$13,403,974)	(\$10,022,826)	-274			
Hardin	(\$566,078,246)	(\$279,687,657)	(\$165,538,611)	(\$98,598,097)	-3,009			
Harris	(\$35,132,472,489)	(\$16,086,973,150)	(\$9,425,164,862)	(\$3,246,054,009)	-144,721			
Harrison	(\$801,151,136)	(\$376,117,950)	(\$224,290,121)	(\$101,811,905)	-3,688			
Hartley	(\$12,090,945)	(\$5,912,835)	(\$3,498,633)	(\$2,106,618)	-69			
Haskell	(\$78,617,361)	(\$40,794,843)	(\$24,784,977)	(\$13,172,237)	-443			
Hays	(\$790,894,621)	(\$404,899,770)	(\$249,040,670)	(\$133,638,044)	-4,564			
Hemphill	(\$17,733,393)	(\$8,306,386)	(\$4,496,855)	(\$2,282,831)	-73			
Henderson	(\$1,202,950,651)	(\$589,967,466)	(\$353,532,852)	(\$191,508,530)	-6,488			
Hidalgo	(\$3,438,074,222)	(\$1,840,708,725)	(\$1,145,694,935)	(\$603,003,941)	-21,297			
Hill	(\$438,324,439)	(\$207,859,714)	(\$124,493,031)	(\$78,903,716)	-2,474			
Hockley	(\$166,269,598)	(\$85,357,822)	(\$49,887,537)	(\$29,548,323)	-917			
Hood	(\$657,028,362)	(\$316,989,623)	(\$194,591,375)	(\$110,560,289)	-3,613			
Hopkins	(\$328,061,935)	(\$171,432,640)	(\$106,747,277)	(\$67,672,476)	-2,040			
Houston	(\$358,183,657)	(\$176,849,995)	(\$110,702,132)	(\$46,684,443)	-1,831			
Howard	(\$383,085,439)	(\$186,099,417)	(\$109,734,547)	(\$58,650,881)	-1,908			
Hudspeth	(\$6,893,145)	(\$3,515,467)	(\$2,024,181)	(\$2,091,877)	-45			
Hunt	(\$756,690,774)	(\$383,611,833)	(\$238,432,248)	(\$147,503,811)	-4,539			
Hutchinson	(\$233,737,843)	(\$108,872,558)	(\$62,624,188)	(\$43,113,247)	-1,107			
Irion	(\$9,918,147)	(\$4,065,793)	(\$2,171,979)	(\$1,252,479)	-35			
Jack	(\$93,211,331)	(\$46,361,301)	(\$26,962,998)	(\$15,869,386)	-473			
Jackson	(\$142,145,244)	(\$73,123,262)	(\$41,171,695)	(\$26,078,990)	-750			
Jasper	(\$392,780,572)	(\$203,016,459)	(\$126,310,427)	(\$77,088,675)	-2,429			
Jeff Davis	(\$24,669,390)	(\$12,350,883)	(\$7,550,210)	(\$4,283,926)	-140			
Jefferson	(\$2,858,331,388)	(\$1,431,581,714)	(\$914,438,455)	(\$475,041,939)	-16,215			
Jim Hogg	(\$52,241,211)	(\$26,342,065)	(\$14,632,009)	(\$10,539,215)	-272			
Jim Wells	(\$304,090,674)	(\$168,461,725)	(\$99,778,739)	(\$57,628,619)	-1,827			
Johnson	(\$1,282,486,243)	(\$640,560,688)	(\$403,892,037)	(\$218,531,251)	-7,389			
Jones	(\$219,841,760)	(\$111,857,656)	(\$66,275,794)	(\$33,388,015)	-1,172			
Karnes	(\$184,703,173)	(\$85,488,330)	(\$49,197,844)	(\$26,569,427)	-848			
Kaufman	(\$851,208,936)	(\$420,416,075)	(\$260,419,521)	(\$147,535,359)	-4,882			
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County Results							
County	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)		
Kendall	(\$342,132,347)	(\$160,126,594)	(\$95,198,905)	(\$53,437,544)	-1,715		
Kenedy	(\$8,332,799)	(\$4,165,424)	(\$2,279,313)	(\$1,824,679)	-48		
Kent	(\$7,675,488)	(\$3,637,443)	(\$2,062,139)	(\$1,091,911)	-34		
Kerr	(\$727,510,601)	(\$366,199,650)	(\$219,090,009)	(\$125,736,493)	-4,114		
Kimble	(\$74,668,763)	(\$32,919,412)	(\$18,585,856)	(\$11,540,446)	-337		
King	(\$8,073,368)	(\$4,108,997)	(\$2,502,145)	(\$976,207)	-41		
Kinney	(\$46,391,162)	(\$21,920,617)	(\$11,910,211)	(\$7,179,971)	-218		
Kleberg	(\$271,302,350)	(\$137,985,817)	(\$81,334,794)	(\$44,612,616)	-1,469		
Knox	(\$47,735,401)	(\$25,223,253)	(\$14,634,081)	(\$6,749,180)	-244		
La Salle	(\$36,051,517)	(\$19,484,229)	(\$11,406,610)	(\$7,514,490)	-222		
Lamar	(\$551,723,698)	(\$276,916,848)	(\$174,133,832)	(\$104,240,197)	-3,341		
Lamb	(\$91,398,288)	(\$42,659,219)	(\$25,944,208)	(\$15,339,586)	-464		
Lampasas	(\$227,226,874)	(\$115,631,604)	(\$71,160,261)	(\$42,578,606)	-1,384		
Lavaca	(\$262,643,248)	(\$142,758,934)	(\$88,474,891)	(\$48,549,976)	-1,630		
Lee	(\$171,376,046)	(\$86,254,766)	(\$50,713,075)	(\$27,483,834)	-896		
Leon	(\$157,549,397)	(\$83,448,878)	(\$48,368,053)	(\$33,555,965)	-918		
Liberty	(\$835,528,500)	(\$432,127,863)	(\$261,930,235)	(\$134,327,168)	-4,593		
Limestone	(\$243,958,079)	(\$127,146,523)	(\$78,419,639)	(\$46,790,713)	-1,445		
Lipscomb	(\$25,807,792)	(\$12,088,154)	(\$6,367,032)	(\$2,978,214)	-104		
Live Oak	(\$140,562,015)	(\$67,026,252)	(\$39,470,207)	(\$23,987,479)	-703		
Llano	(\$389,612,162)	(\$192,363,864)	(\$115,558,904)	(\$67,145,571)	-2,193		
Loving	(\$4,568,286)	(\$2,035,694)	(\$930,205)	(\$336,767)	-13		
Lubbock	(\$2,409,289,256)	(\$1,260,879,409)	(\$776,712,151)	(\$382,300,867)	-13,883		
Lynn	(\$34,577,937)	(\$16,877,943)	(\$10,007,252)	(\$3,863,231)	-165		
Madison	(\$112,745,973)	(\$58,128,089)	(\$34,343,354)	(\$23,411,131)	-680		
Marion	(\$156,036,239)	(\$80,138,779)	(\$48,286,918)	(\$29,263,913)	-929		
Martin	(\$40,567,963)	(\$19,407,523)	(\$11,181,643)	(\$5,601,251)	-185		
Mason	(\$64,340,340)	(\$31,993,293)	(\$18,200,136)	(\$10,187,945)	-330		
Matagorda	(\$389,267,956)	(\$179,505,190)	(\$107,841,246)	(\$68,159,577)	-1,958		
Maverick	(\$275,534,098)	(\$142,448,098)	(\$85,884,964)	(\$52,457,345)	-1,665		
McCulloch	(\$104,821,820)	(\$54,799,681)	(\$34,309,585)	(\$19,550,294)	-632		
McLennan	(\$2,605,152,521)	(\$1,261,946,416)	(\$764,439,114)	(\$391,595,878)	-13,938		
McMullen	(\$3,121,244)	(\$1,453,528)	(\$788,635)	(\$337,856)	-12		
Medina	(\$357,101,901)	(\$172,652,874)	(\$102,290,140)	(\$60,446,160)	-1,945		
Menard	(\$31,923,026)	(\$16,577,868)	(\$9,377,214)	(\$6,183,021)	-172		
Midland	(\$994,620,161)	(\$504,995,733)	(\$292,973,262)	(\$146,843,727)	-4,928		
Milam	(\$242,374,934)	(\$122,677,149)	(\$75,851,840)	(\$45,012,250)	-1,410		
Mills	(\$46,459,051)	(\$28,006,401)	(\$18,184,038)	(\$11,180,969)	-351		
Mitchell	(\$98,461,202)	(\$51,325,469)	(\$30,355,186)	(\$17,224,331)	-542		
Montague	(\$295,579,816)	(\$145,157,719)	(\$83,384,590)	(\$47,647,857)	-1,530		
Montgomery	(\$3,973,711,188)	(\$1,913,943,644)	(\$1,135,647,763)	(\$503,619,182)	-18,956		
Moore	(\$132,730,273)	(\$57,695,625)	(\$32,839,297)	(\$18,112,873)	-556		
Morris	(\$145,500,626)	(\$64,367,287)	(\$39,686,312)	(\$16,867,459)	-655		



County Results							
County	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)		
Motley	(\$20,400,579)	(\$9,741,375)	(\$5,413,692)	(\$3,169,852)	-98		
Nacogdoches	(\$519,227,643)	(\$278,163,130)	(\$176,073,763)	(\$105,936,952)	-3,449		
Navarro	(\$541,449,557)	(\$270,779,589)	(\$168,349,632)	(\$87,356,329)	-3,096		
Newton	(\$86,140,294)	(\$53,193,755)	(\$35,090,688)	(\$22,697,717)	-661		
Nolan	(\$206,324,420)	(\$108,600,855)	(\$63,424,150)	(\$35,130,274)	-1,133		
Nueces	(\$3,625,344,708)	(\$1,698,940,618)	(\$1,013,659,120)	(\$487,735,083)	-17,279		
Ochiltree	(\$52,997,382)	(\$25,224,694)	(\$14,114,803)	(\$7,473,516)	-236		
Oldham	(\$3,692,904)	(\$2,048,894)	(\$1,287,775)	(\$1,120,507)	-29		
Orange	(\$907,135,531)	(\$449,582,016)	(\$281,794,855)	(\$161,445,755)	-5,091		
Palo Pinto	(\$394,844,523)	(\$186,459,386)	(\$108,402,529)	(\$61,345,368)	-1,955		
Panola	(\$278,474,039)	(\$141,714,881)	(\$84,339,691)	(\$45,148,989)	-1,488		
Parker	(\$1,047,038,456)	(\$491,594,993)	(\$291,150,039)	(\$162,026,918)	-5,261		
Parmer	(\$24,548,339)	(\$11,076,840)	(\$6,608,455)	(\$2,131,388)	-110		
Pecos	(\$114,323,014)	(\$57,303,538)	(\$32,893,531)	(\$21,067,914)	-615		
Polk	(\$741,150,981)	(\$382,412,916)	(\$226,396,778)	(\$133,114,275)	-4,071		
Potter	(\$1,315,493,564)	(\$686,781,610)	(\$406,752,034)	(\$200,603,737)	-7,099		
Presidio	(\$46,154,235)	(\$22,110,297)	(\$13,181,923)	(\$8,329,570)	-247		
Rains	(\$135,238,878)	(\$62,748,734)	(\$35,446,998)	(\$24,454,806)	-663		
Randall	(\$1,014,780,671)	(\$527,704,484)	(\$317,204,475)	(\$167,072,947)	-5,693		
Reagan	(\$19,699,915)	(\$10,096,545)	(\$5,536,380)	(\$3,806,342)	-97		
Real	(\$60,371,736)	(\$27,970,938)	(\$15,989,601)	(\$9,021,595)	-283		
Red River	(\$201,197,229)	(\$97,723,669)	(\$58,501,720)	(\$33,454,995)	-1,088		
Reeves	(\$102,305,433)	(\$52,423,712)	(\$30,248,800)	(\$21,233,033)	-577		
Refugio	(\$80,430,518)	(\$40,025,466)	(\$21,970,033)	(\$18,043,189)	-426		
Roberts	(\$4,679,959)	(\$2,097,125)	(\$1,140,284)	(\$941,581)	-21		
Robertson	(\$186,465,915)	(\$92,883,861)	(\$57,692,318)	(\$38,440,111)	-1,126		
Rockwall	(\$440,570,350)	(\$225,780,035)	(\$139,635,146)	(\$74,835,696)	-2,560		
Runnels	(\$160,042,489)	(\$72,332,949)	(\$41,016,570)	(\$22,679,725)	-718		
Rusk	(\$560,802,202)	(\$273,870,590)	(\$164,188,213)	(\$83,459,510)	-2,861		
Sabine	(\$137,340,733)	(\$68,840,403)	(\$44,404,984)	(\$26,082,810)	-826		
San Augustine	(\$133,172,874)	(\$64,806,640)	(\$37,796,938)	(\$20,952,549)	-688		
San Jacinto	(\$280,229,308)	(\$138,058,927)	(\$83,945,099)	(\$50,279,247)	-1,576		
San Patricio	(\$654,288,027)	(\$309,784,197)	(\$186,037,018)	(\$111,119,574)	-3,391		
San Saba	(\$64,405,169)	(\$34,498,580)	(\$21,085,024)	(\$13,708,027)	-416		
Schleicher	(\$17,416,311)	(\$9,031,887)	(\$5,412,751)	(\$1,897,095)	-89		
Scurry	(\$143,995,132)	(\$77,973,430)	(\$44,292,981)	(\$29,554,458)	-822		
Shackelford	(\$35,631,572)	(\$17,887,647)	(\$9,966,136)	(\$5,608,528)	-175		
Shelby	(\$213,936,958)	(\$115,622,680)	(\$75,499,171)	(\$44,585,175)	-1,438		
Sherman	(\$7,534,947)	(\$3,408,372)	(\$1,966,763)	(\$1,041,811)	-36		
Smith	(\$2,395,967,822)	(\$1,187,472,488)	(\$688,395,205)	(\$344,608,994)	-11,970		
Somervell	(\$43,943,428)	(\$20,788,954)	(\$13,214,577)	(\$4,856,200)	-231		
Starr	(\$215,038,575)	(\$121,789,266)	(\$76,649,502)	(\$50,609,486)	-1,517		
Stephens	(\$106,064,864)	(\$57,388,290)	(\$33,535,569)	(\$22,548,388)	-618		



		- County .	toothio		
	Total Expenditures	Gross Product	Personal Income	Retail Sales	Employment
County	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	Employment (Permanent Jobs)
Sterling			(\$1,201,049)	-31	
Stonewall	(\$17,603,556)	(\$9,846,612)	(\$5,795,945)	(\$3,825,923)	-109
Sutton	(\$38,609,386)	(\$20,184,913)	(\$11,591,354)	(\$7,690,125)	-214
Swisher	(\$43,756,410)	(\$20,203,644)	(\$12,069,191)	(\$6,807,343)	-223
Tarrant	(\$14,943,518,903)	(\$7,420,084,479)	(\$4,464,385,525)	(\$2,032,175,822)	-76,244
Taylor	(\$1,442,796,167)	(\$721,910,550)	(\$425,583,266)	(\$207,169,576)	-7,361
Terrell	(\$5,720,866)	(\$3,299,934)	(\$2,048,773)	(\$1,062,108)	-35
Terry	(\$92,669,117)	(\$47,364,513)	(\$25,845,895)	(\$18,423,346)	-478
Throckmorton	(\$13,628,971)	(\$7,055,782)	(\$3,849,235)	(\$2,234,513)	-67
Titus	(\$216,800,086)	(\$106,692,026)	(\$66,938,271)	(\$44,099,766)	-1,283
Tom Green	(\$1,146,558,063)	(\$563,838,954)	(\$325,701,139)	(\$173,145,619)	-5,924
Travis	(\$5,350,238,802)	(\$2,810,962,277)	(\$1,736,203,514)	(\$788,287,610)	-29,945
Trinity	(\$224,501,880)	(\$122,698,690)	(\$74,905,306)	(\$45,044,832)	-1,442
Tyler	(\$245,729,649)	(\$127,915,785)	(\$79,536,099)	(\$46,410,027)	-1,489
Upshur	(\$466,192,877)	(\$234,176,228)	(\$138,820,509)	(\$80,554,908)	-2,508
Upton	(\$25,595,114)	(\$12,899,204)	(\$7,227,341)	(\$3,762,029)	-123
Uvalde	(\$229,392,017)	(\$120,154,143)	(\$73,977,381)	(\$41,113,566)	-1,398
Val Verde	(\$299,234,282)	(\$167,871,526)	(\$106,962,922)	(\$58,816,001)	-2,010
Van Zandt	(\$536,790,133)	(\$302,755,541)	(\$185,580,560)	(\$110,282,630)	-3,536
Victoria	(\$974,270,765)	(\$480,258,597)	(\$287,161,436)	(\$143,653,490)	-4,880
Walker	(\$618,537,896)	(\$324,525,968)	(\$204,947,503)	(\$114,228,701)	-3,843
Waller	(\$322,736,614)	(\$142,547,174)	(\$80,390,180)	(\$51,817,900)	-1,501
Ward	(\$102,377,695)	(\$52,528,868)	(\$30,280,281)	(\$19,901,564)	-558
Washington	(\$366,545,146)	(\$192,115,066)	(\$118,108,763)	(\$62,742,401)	-2,136
Webb	(\$1,039,482,896)	(\$546,010,896)	(\$320,416,001)	(\$181,461,536)	-5,814
Wharton	(\$449,676,039)	(\$236,381,727)	(\$140,943,290)	(\$80,667,493)	-2,562
Wheeler	(\$50,684,533)	(\$28,095,067)	(\$16,513,861)	(\$10,841,057)	-312
Wichita	(\$1,423,633,436)	(\$770,745,720)	(\$457,366,361)	(\$242,089,605)	-8,090
Wilbarger	(\$179,791,564)	(\$87,782,576)	(\$54,721,769)	(\$31,586,097)	-1,006
Willacy	(\$111,334,997)	(\$62,505,889)	(\$37,966,525)	(\$23,673,972)	-723
Williamson	(\$1,363,999,894)	(\$728,928,000)	(\$459,763,375)	(\$241,815,608)	-8,331
Wilson	(\$346,902,442)	(\$173,655,908)	(\$104,928,297)	(\$61,138,185)	-2,005
Winkler	(\$61,550,989)	(\$31,683,672)	(\$18,132,886)	(\$11,240,605)	-323
Wise	(\$464,441,929)	(\$240,181,878)	(\$139,965,167)	(\$81,039,749)	-2,502
Wood	(\$661,932,578)	(\$326,994,638)	(\$195,726,690)	(\$105,725,036)	-3,556
Yoakum	(\$42,660,952)	(\$21,303,870)	(\$12,028,408)	(\$7,902,561)	-219
Young	(\$267,622,023)	(\$138,041,414)	(\$79,772,852)	(\$46,943,369)	-1,416
Zapata	(\$65,283,355)	(\$33,948,822)	(\$20,127,128)	(\$13,181,122)	-381
Zavala	(\$50,314,973)	(\$29,830,210)	(\$19,690,236)	(\$13,969,473)	-414
TOTAL STATE	(\$20.4.472.707.070)	/\$400.040.0EE.4E0\	/fco F70 040 400\	(\$00.000.004.000)	4.045.047

TOTAL STATE (\$204,473,797,970) (\$100,813,055,453) (\$60,573,246,198) (\$28,869,361,809) -1,045,817

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 Personal					Employment	
House District	Expenditures	Gross Product	Income	Retail Sales	(Permanent	
1	(2017 Dollars) (\$1,840,836,753)	(2017 Dollars) (\$948,001,649)	(2017 Dollars) (\$588,013,225)	(2017 Dollars) (\$335,877,929)	Jobs) -11,013	
2	(\$1,621,542,842)	(\$857,800,014)	(\$530,760,084)	(\$325,458,918)	-10,115	
3		,	•	,	-6,544	
4	(\$1,379,743,790)	(\$651,656,183)	(\$382,472,485)	(\$185,780,602)	•	
5	(\$1,849,657,976)	(\$910,089,072)	(\$553,851,788) (\$537,860,089)	(\$306,487,439)	-10,267 -9,677	
6	(\$1,846,631,667)	(\$901,948,102) (\$003,470,004)		(\$292,806,761)		
7	(\$1,820,935,545)	(\$902,479,091)	(\$523,180,356)	(, , , ,	-9,097	
8	(\$1,847,894,000)	(\$999,356,385)	(\$602,064,903)	(\$309,140,532)	-10,530	
9	(, , , , ,	(\$940,963,750)	(\$566,753,908)	(\$320,610,855)	-10,525	
10	(\$1,906,506,721)	(\$945,401,111)	(\$577,688,509)	(\$311,488,508) (\$307,504,070)	-10,287	
	(\$1,278,994,435)	(\$602,528,871)	(\$364,939,476)	(\$207,591,979)	-6,630	
11	(\$1,527,091,323)	(\$781,175,716)	(\$486,468,458)	(\$271,532,922)	-9,015	
12	(\$1,575,111,218)	(\$788,226,657)	(\$482,501,234)	(\$264,169,142)	-8,901	
13	(\$1,951,901,085)	(\$1,002,321,116)	(\$607,661,183)	(\$325,736,819) (\$134,545,076)	-10,931	
14	(\$878,183,599) (\$1,458,353,006)	(\$446,543,552)	(\$268,327,591)	(\$134,515,076)	-4,823	
15	(\$1,458,352,006)	(\$702,417,317) (\$702,417,317)	(\$416,782,729)	(\$184,828,240)	-6,957	
16	(\$1,458,352,006)	(, , , ,	(\$416,782,729)	(\$184,828,240)	-6,957	
17	(\$1,483,478,453)	(\$734,903,004)	(\$441,751,460)	(\$246,391,734)	-8,055	
18	(\$1,734,295,704)	(\$894,712,758)	(\$550,822,837)	(\$298,835,116)	-10,012	
19	(\$2,031,879,742)	(\$1,046,226,573)	(\$632,872,603)	(\$377,908,791)	-11,660	
20	(\$1,057,062,222)	(\$531,956,227)	(\$325,592,808)	(\$179,778,339)	-5,939	
21	(\$1,936,134,830)	(\$964,951,433)	(\$610,992,699)	(\$332,460,853)	-10,929	
22	(\$1,829,332,088)	(\$916,212,297)	(\$585,240,611)	(\$304,026,841)	-10,378	
23	(\$1,715,751,638)	(\$800,306,776)	(\$479,514,893)	(\$246,976,748)	-8,437	
24	(\$1,849,942,494)	(\$877,390,074)	(\$531,172,060)	(\$278,114,828)	-9,459	
25	(\$1,357,183,568)	(\$642,976,639)	(\$389,423,363)	(\$225,720,681)	-6,964	
26	(\$894,722,351)	(\$420,967,075)	(\$246,199,038)	(\$117,043,013)	-4,081	
27	(\$894,722,351)	(\$420,967,075)	(\$246,199,038)	(\$117,043,013)	-4,081	
28	(\$894,722,351)	(\$420,967,075)	(\$246,199,038)	(\$117,043,013)	-4,081	
29	(\$1,231,892,597)	(\$589,872,753)	(\$358,377,239)	(\$200,532,314)	-6,372	
30	(\$1,969,399,702)	(\$954,398,638)	(\$565,038,832)	(\$307,475,689)	-9,896	
31	(\$1,121,244,221)	(\$576,244,785)	(\$344,629,626)	(\$202,046,490)	-6,303	
32	(\$1,776,418,907)	(\$832,480,903)	(\$496,692,969)	(\$238,990,191)	-8,467	
33	(\$885,499,826)	(\$455,412,957)	(\$280,519,944)	(\$144,189,174)	-5,023	
34	(\$1,848,925,801)	(\$866,459,715)	(\$516,966,151)	(\$248,744,892)	-8,812	
35	(\$849,258,692)	(\$444,364,439)	(\$275,341,821)	(\$145,839,087)	-5,138	
36	(\$749,500,180)	(\$401,274,502)	(\$249,761,496)	(\$131,454,859)	-4,643	
37	(\$1,010,928,121)	(\$515,744,491)	(\$317,947,089)	(\$169,617,204)	-5,960	
38	(\$986,858,404)	(\$503,464,860)	(\$310,376,920)	(\$165,578,699)	-5,818	
39	(\$749,500,180)	(\$401,274,502)	(\$249,761,496)	(\$131,454,859)	-4,643	
40	(\$749,500,180)	(\$401,274,502)	(\$249,761,496)	(\$131,454,859)	-4,643	
41	(\$749,500,180)	(\$401,274,502)	(\$249,761,496)	(\$131,454,859)	-4,643	
42	(\$665,269,054)	(\$349,446,973)	(\$205,066,241)	(\$116,135,383)	-3,721	
43	(\$1,443,400,324)	(\$730,080,740)	(\$434,616,645)	(\$252,637,031)	-7,935	
44	(\$1,182,620,524)	(\$588,112,153)	(\$356,874,300)	(\$216,237,477)	-6,745	
45	(\$886,876,656)	(\$450,973,675)	(\$276,392,072)	(\$149,595,518)	-5,082	



House District (2017 Dollars) (2017 Dollars) (2017 Dollars) (46) (\$872,088,925) (\$458,186,851) (\$283,001,173) (\$128,490,880) -4,88 47 (\$909,540,596) (\$477,863,587) (\$295,154,597) (\$134,008,894) -5,09 49 (\$877,493,163) (\$460,997,813) (\$228,737,376) (\$129,279,168) -4,91 50 (\$872,088,925) (\$460,997,813) (\$228,4737,376) (\$129,279,168) -4,91 50 (\$872,088,925) (\$460,997,813) (\$228,4737,376) (\$129,279,168) -4,91 50 (\$872,088,925) (\$460,997,813) (\$228,4737,376) (\$129,279,168) -4,91 50 (\$872,089,955) (\$460,997,813) (\$228,4737,376) (\$129,279,168) -4,91 51 (\$999,540,596) (\$477,863,587) (\$295,164,597) (\$134,008,894) -5,09 52 (\$531,959,959) (\$284,281,920) (\$179,307,716) (\$943,008,894) -5,09 52 (\$51,161,571,463) (\$617,218,168) (\$388,779,449) (\$213,037,907) -7,29 55 (\$1,102,206,638) (\$543,385,445) (\$543,4087,453) (\$61,823,606,765) (\$883,382,491) (\$533,414,697,453) (\$61,823,606,765) (\$940,011,037) (\$578,124,467) (\$320,989,87) -10,59 58 (\$1,500,145,839) (\$749,566,316) (\$474,963,636) (\$44,855,607,576) (\$940,011,037) (\$578,124,467) (\$320,989,87) -10,59 59 (\$1,242,656,612) (\$649,364,635) (\$404,855,679) (\$233,009,987) -10,59 60 (\$2,170,747,742) (\$1,085,596,248) (\$651,334,987) (\$338,461,994) -12,10 61 (\$1,511,480,386) (\$731,776,871) (\$415,339,943) (\$253,428,459) (\$120,390,137) -4,39 66 (\$81,737,684,990) (\$907,146,536) (\$570,811,947) (\$253,428,459) (\$120,390,137) -4,39 66 (\$815,704,040) (\$415,338,943) (\$253,428,459) (\$120,390,137) -4,39 66 (\$815,704,040) (\$420,993,689) (\$258,288,797) (\$127,148,042) -4,511 68 (\$1,161,5138,292) (\$340,866,634) (\$415,438,943) (\$253,428,459) (\$127,148,042) -4,511 68 (\$815,704,040) (\$420,993,689) (\$258,288,797) (\$127,148,042) -4,511 68 (\$1,161,5138,292) (\$340,686,634) (\$415,438,943) (\$253,428,459) (\$127,148,042) -4,511 68 (\$1,171,237,831) (\$940,031,642,033,648) (\$258,348,8797) (\$127,148,042) -4,511 69 (\$1,174,237,831) (\$940,031,642,033,648) (\$258,348,897) (\$127,148,042) -4,511 69 (\$1,161,5138,292) (\$340,661,5138,393) (\$258,348,667) (\$177,665,406) -6,64 (\$1,152,2470,919) (\$122,2470,919) (\$132,247,646,671) (Results by Texas House District							
House District Cut		Total Personal						
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69 (\$1,741,237,831) (\$935,722,823) (\$555,965,228) (\$293,754,549) -9,83 70 (\$815,704,040) (\$420,993,689) (\$258,288,797) (\$127,148,042) -4,519 71 (\$1,868,962,347) (\$942,369,061) (\$555,283,210) (\$275,687,866) -9,666 72 (\$1,818,268,963) (\$886,163,072) (\$513,867,176) (\$275,946,899) -9,200 73 (\$1,683,899,665) (\$821,264,317) (\$496,808,224) (\$278,728,164) -9,319 74 (\$1,015,138,292) (\$535,085,842) (\$324,776,408) (\$195,056,305) -6,159 75 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,540 76 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,540 77 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,540 78 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,540 79 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,540 80 (\$907,376,649) (\$474,462,470) (\$283,781,590) (\$165,572,525) -5,283 81 (\$1,562,624,938) (\$782,933,169) (\$464,071,569) (\$243,509,295) -7,965		(, , , ,			, , ,			
70 (\$815,704,040) (\$420,993,689) (\$258,288,797) (\$127,148,042) -4,513 71 (\$1,868,962,347) (\$942,369,061) (\$555,283,210) (\$275,687,866) -9,666 72 (\$1,818,268,963) (\$886,163,072) (\$513,867,176) (\$275,946,899) -9,206 73 (\$1,683,899,665) (\$821,264,317) (\$496,808,224) (\$278,728,164) -9,317 74 (\$1,015,138,292) (\$535,085,842) (\$324,776,408) (\$195,056,305) -6,152 75 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 76 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 77 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 79 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 80 (\$907,376,649) (\$474,462,470) (\$283,781,590) (\$165,572,525) -5,283 81 (\$1,562,624,938) (\$782,933,169) (\$464,071,5		,	,	,		-9,831		
71 (\$1,868,962,347) (\$942,369,061) (\$555,283,210) (\$275,687,866) -9,666 72 (\$1,818,268,963) (\$886,163,072) (\$513,867,176) (\$275,946,899) -9,206 73 (\$1,683,899,665) (\$821,264,317) (\$496,808,224) (\$278,728,164) -9,31 74 (\$1,015,138,292) (\$535,085,842) (\$324,776,408) (\$195,056,305) -6,15 75 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 76 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 77 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 78 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 79 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 80 (\$907,376,649) (\$474,462,470) (\$283,781,590) (\$165,572,525) -5,28 81 (\$1,562,624,938) (\$782,933,169) (\$464,071,569) <td></td> <td></td> <td></td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td>						· · · · · · · · · · · · · · · · · · ·		
72 (\$1,818,268,963) (\$886,163,072) (\$513,867,176) (\$275,946,899) -9,200 73 (\$1,683,899,665) (\$821,264,317) (\$496,808,224) (\$278,728,164) -9,31 74 (\$1,015,138,292) (\$535,085,842) (\$324,776,408) (\$195,056,305) -6,15 75 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 76 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 77 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 78 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 79 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 80 (\$907,376,649) (\$474,462,470) (\$283,781,590) (\$165,572,525) -5,28 81 (\$1,562,624,938) (\$782,933,169) (\$464,071,569) (\$243,509,295) -7,96						-9,666		
73 (\$1,683,899,665) (\$821,264,317) (\$496,808,224) (\$278,728,164) -9,317 74 (\$1,015,138,292) (\$535,085,842) (\$324,776,408) (\$195,056,305) -6,157 75 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,548 76 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,548 77 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,548 78 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,548 79 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,548 79 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,548 80 (\$907,376,649) (\$474,462,470) (\$283,781,590) (\$165,572,525) -5,288 81 (\$1,562,624,938) (\$782,933,169) (\$464,071,569) (\$243,509,295) -7,968	72		,	,	, , ,	-9,206		
74 (\$1,015,138,292) (\$535,085,842) (\$324,776,408) (\$195,056,305) -6,15 75 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 76 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 77 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 78 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 79 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 80 (\$907,376,649) (\$474,462,470) (\$283,781,590) (\$165,572,525) -5,283 81 (\$1,562,624,938) (\$782,933,169) (\$464,071,569) (\$243,509,295) -7,963		(, , , , , , ,	<u> </u>			-9,317		
75 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 76 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 77 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 78 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 79 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 80 (\$907,376,649) (\$474,462,470) (\$283,781,590) (\$165,572,525) -5,283 81 (\$1,562,624,938) (\$782,933,169) (\$464,071,569) (\$243,509,295) -7,963	74	, , ,	, , , ,	,	, , ,	-6,152		
76 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 77 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 78 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 79 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 80 (\$907,376,649) (\$474,462,470) (\$283,781,590) (\$165,572,525) -5,283 81 (\$1,562,624,938) (\$782,933,169) (\$464,071,569) (\$243,509,295) -7,963		,	,			-6,545		
77 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 78 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 79 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,544 80 (\$907,376,649) (\$474,462,470) (\$283,781,590) (\$165,572,525) -5,283 81 (\$1,562,624,938) (\$782,933,169) (\$464,071,569) (\$243,509,295) -7,963	76		, , , , , , , , , , , , , , , , , , , ,	· · · · /		-6,545		
79 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 80 (\$907,376,649) (\$474,462,470) (\$283,781,590) (\$165,572,525) -5,28 81 (\$1,562,624,938) (\$782,933,169) (\$464,071,569) (\$243,509,295) -7,96	77	(\$1,252,470,919)	(\$612,834,791)			-6,545		
79 (\$1,252,470,919) (\$612,834,791) (\$369,458,671) (\$176,655,406) -6,54 80 (\$907,376,649) (\$474,462,470) (\$283,781,590) (\$165,572,525) -5,28 81 (\$1,562,624,938) (\$782,933,169) (\$464,071,569) (\$243,509,295) -7,96	78	(\$1,252,470,919)	(\$612,834,791)	(\$369,458,671)	(\$176,655,406)	-6,545		
80 (\$907,376,649) (\$474,462,470) (\$283,781,590) (\$165,572,525) -5,283 81 (\$1,562,624,938) (\$782,933,169) (\$464,071,569) (\$243,509,295) -7,963	79	(\$1,252,470,919)		(\$369,458,671)		-6,545		
81 (\$1,562,624,938) (\$782,933,169) (\$464,071,569) (\$243,509,295) -7,963		, , ,			, , ,	-5,283		
	81	(\$1,562,624,938)	(\$782,933,169)	(\$464,071,569)	(\$243,509,295)	-7,963		
Oz (φ1,z14,307, σ00) (φ013,174,373) (φ303,203,701) (φ102,102,300) -0,021	82	(\$1,214,507,900)	(\$615,174,573)	(\$355,203,761)	(\$182,162,906)	-6,020		
	83	(\$1,449,802,297)	(\$753,492,382)		(\$238,998,454)	-8,077		
						-8,330		
85 (\$1,197,074,638) (\$594,276,833) (\$348,661,393) (\$185,922,640) -6,073	85	(\$1,197,074,638)	(\$594,276,833)	(\$348,661,393)	(\$185,922,640)	-6,073		
	86					-6,534		
	87	(\$1,716,746,474)		(\$509,790,045)		-8,886		
88 (\$1,149,017,393) (\$571,528,970) (\$339,352,964) (\$203,379,066) -6,189	88	(\$1,149,017,393)	(\$571,528,970)	(\$339,352,964)	(\$203,379,066)	-6,185		
89 (\$815,704,040) (\$420,993,689) (\$258,288,797) (\$127,148,042) -4,515	89	(\$815,704,040)	(\$420,993,689)	(\$258,288,797)	(\$127,148,042)	-4,515		
90 (\$1,359,860,220) (\$675,227,688) (\$406,259,083) (\$184,928,000) -6,936	90	(\$1,359,860,220)	(\$675,227,688)	(\$406,259,083)	(\$184,928,000)	-6,938		



Results by Texas House District							
	Total Personal						
Havea Bistrict	Expenditures	Gross Product	Income	Retail Sales	Employment (Permanent		
House District	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	Jobs)		
91	(\$1,359,860,220)	(\$675,227,688)	(\$406,259,083)	(\$184,928,000)	-6,938		
92	(\$1,359,860,220)	(\$675,227,688)	(\$406,259,083)	(\$184,928,000)	-6,938		
93	(\$1,359,860,220)	(\$675,227,688)	(\$406,259,083)	(\$184,928,000)	-6,938		
94	(\$1,359,860,220)	(\$675,227,688)	(\$406,259,083)	(\$184,928,000)	-6,938		
95	(\$1,359,860,220)	(\$675,227,688)	(\$406,259,083)	(\$184,928,000)	-6,938		
96	(\$1,359,860,220)	(\$675,227,688)	(\$406,259,083)	(\$184,928,000)	-6,938		
97	(\$1,359,860,220)	(\$675,227,688)	(\$406,259,083)	(\$184,928,000)	-6,938		
98	(\$1,359,860,220)	(\$675,227,688)	(\$406,259,083)	(\$184,928,000)	-6,938		
99	(\$1,359,860,220)	(\$675,227,688)	(\$406,259,083)	(\$184,928,000)	-6,938		
100	(\$1,441,687,503)	(\$703,974,834)	(\$411,190,468)	(\$155,458,103)	-6,574		
101	(\$1,344,916,701)	(\$667,807,603)	(\$401,794,697)	(\$182,895,824)	-6,862		
102	(\$1,441,687,503)	(\$703,974,834)	(\$411,190,468)	(\$155,458,103)	-6,574		
103	(\$1,441,687,503)	(\$703,974,834)	(\$411,190,468)	(\$155,458,103)	-6,574		
104	(\$1,441,687,503)	(\$703,974,834)	(\$411,190,468)	(\$155,458,103)	-6,574		
105	(\$1,441,687,503)	(\$703,974,834)	(\$411,190,468)	(\$155,458,103)	-6,574		
106	(\$854,929,031)	(\$415,438,943)	(\$253,428,459)	(\$120,390,137)	-4,399		
107	(\$1,441,687,503)	(\$703,974,834)	(\$411,190,468)	(\$155,458,103)	-6,574		
108	(\$1,441,687,503)	(\$703,974,834)	(\$411,190,468)	(\$155,458,103)	-6,574		
109	(\$1,441,687,503)	(\$703,974,834)	(\$411,190,468)	(\$155,458,103)	-6,574		
110	(\$1,441,687,503)	(\$703,974,834)	(\$411,190,468)	(\$155,458,103)	-6,574		
111	(\$1,472,145,689)	(\$718,847,542)	(\$419,877,591)	(\$158,742,429)	-6,712		
112	(\$1,441,687,503)	(\$703,974,834)	(\$411,190,468)	(\$155,458,103)	-6,574		
113	(\$1,472,145,689)	(\$718,847,542)	(\$419,877,591)	(\$158,742,429)	-6,712		
114	(\$1,472,145,689)	(\$718,847,542)	(\$419,877,591)	(\$158,742,429)	-6,712		
115	(\$1,472,145,689)	(\$718,847,542)	(\$419,877,591)	(\$158,742,429)	-6,712		
116	(\$1,411,690,488)	(\$714,889,821)	(\$439,224,391)	(\$206,775,208)	-7,721		
117	(\$1,411,690,488)	(\$714,889,821)	(\$439,224,391)	(\$206,775,208)	-7,721		
118	(\$1,411,690,488)	(\$714,889,821)	(\$439,224,391)	(\$206,775,208)	-7,721		
119	(\$1,411,690,488)	(\$714,889,821)	(\$439,224,391)	(\$206,775,208)	-7,721		
120	(\$1,411,690,488)	(\$714,889,821)	(\$439,224,391)	(\$206,775,208)	-7,721		
121	(\$1,411,690,488)	(\$714,889,821)	(\$439,224,391)	(\$206,775,208)	-7,721		
122	(\$1,411,690,488)	(\$714,889,821)	(\$439,224,391)	(\$206,775,208)	-7,721		
123	(\$1,411,690,488)	(\$714,889,821)	(\$439,224,391)	(\$206,775,208)	-7,721		
124	(\$1,411,690,488)	(\$714,889,821)	(\$439,224,391)	(\$206,775,208)	-7,721		
125	(\$1,411,690,488)	(\$714,889,821)	(\$439,224,391)	(\$206,775,208)	-7,721		
126	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078		
127	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078		
128	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078		
129	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078		
130	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078		
131	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078		
132	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078		
133	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078		
134	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078		
135	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078		



	Total Expenditures	Gross Product	Personal Income	Retail Sales	Employment
House District	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Permanent Jobs)
136	(\$531,959,959)	(\$284,281,920)	(\$179,307,716)	(\$94,308,087)	-3,249
137	(\$1,440,431,372)	(\$659,565,899)	(\$386,431,759)	(\$133,088,214)	-5,934
138	(\$1,440,431,372)	(\$659,565,899)	(\$386,431,759)	(\$133,088,214)	-5,934
139	(\$1,440,431,372)	(\$659,565,899)	(\$386,431,759)	(\$133,088,214)	-5,934
140	(\$1,440,431,372)	(\$659,565,899)	(\$386,431,759)	(\$133,088,214)	-5,934
141	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078
142	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078
143	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078
144	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078
145	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078
146	(\$1,475,563,845)	(\$675,652,872)	(\$395,856,924)	(\$136,334,268)	-6,078
147	(\$1,440,431,372)	(\$659,565,899)	(\$386,431,759)	(\$133,088,214)	-5,934
148	(\$1,440,431,372)	(\$659,565,899)	(\$386,431,759)	(\$133,088,214)	-5,934
149	(\$1,440,431,372)	(\$659,565,899)	(\$386,431,759)	(\$133,088,214)	-5,934
150	(\$1,440,431,372)	(\$659,565,899)	(\$386,431,759)	(\$133,088,214)	-5,934
TOTAL	(\$204,473,797,970)	(\$100,813,055,453)	(\$60,573,246,198)	(\$28,869,361,809)	-1,045,817

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.

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



Senate District Expenditures (2017 bollars) Gross Product (2017 bollars) (2017 bollars) Income (2017 bollars) (2017 bollars) (2017 bollars) Employment (Permant Jobs) 1 (\$10.416.254.913) (\$5.267.510.636) (\$3.192.610.797) (\$1.627.041.297) -56.627 2 (\$8.128.639.077) (\$4.097.360.152) (\$2.510.088.582) (\$1.187.686.3739) -43.946 3 (\$8.687.339.575) (\$3.341.015.846) (\$2.007.796.170) (\$959.595.760) -33.999 5 (\$3.787.339.744) (\$1.1950.942.526) (\$1.181.989.810) (\$675.673.027) -21.815 6 (\$5.261.989.170) (\$2.391.067.626) (\$1.348.921.796) (\$488.410.330) -20.222 7 (\$5.241.354.438) (\$2.391.067.626) (\$1.348.921.796) (\$488.410.330) -20.225 8 (\$3.402.967.448) (\$1.717.807.914) (\$1.018.401.798) (\$484.942.442) -17.552 9 (\$7.117.210.263) (\$3.498.967.506) (\$2.080.142.115) (\$879.036.084) -34.564 10 (\$5.5.880.195.408) (\$2.900.316.260) (\$1.705.596.560) (\$792.154.959) -28.899		Total	esuits by Texas	Personal	,,	
Senate District (2017 Dollars) (2017 Dollars) (2017 Dollars) (2017 Dollars) (Permanent Jobs 1 1 (\$10,416,254,913) (\$5,267,510,636) (\$3,192,610,797) (\$1,627,041,297) -56,627 2 (\$8,128,639,077) (\$4,097,360,152) (\$2,510,088,562) (\$1,187,686,379) -43,944 3 (\$8,833,761,102) (\$4,481,623,233) (\$2,721,840,420) (\$1,527,508,544) -49,726 4 (\$6,667,339,676) (\$3,341,015,846) (\$2,007,7796,170) (\$959,595,760) -33,997 5 (\$3,767,339,744) (\$1,950,942,526) (\$1,181,980,810) (\$675,673,027) -21,815 6 (\$5,261,989,170) (\$2,391,067,626) (\$1,346,921,796) (\$488,410,330) -20,222 7 (\$5,241,354,438) (\$2,395,239,382) (\$1,342,869,840) (\$487,704,233) -20,157 8 (\$3,402,967,448) (\$1,717,807,914) (\$1,018,401,798) (\$484,942,442) -17,352 9 (\$7,117,210,263) (\$3,498,967,506) (\$2,080,142,165) (\$879,306,684) -34,564 10 (\$5,880			Gross Product		Retail Sales	Employment
2 (\$8,128,639,077) (\$4,097,360,152) (\$2,510,088,582) (\$1,187,686,379) -43,946 3 (\$8,833,761,102) (\$4,481,623,233) (\$2,207,796,170) (\$51,527,508,544) -49,724 4 (\$6,667,339,575) (\$3,341,015,846) (\$2,007,796,170) (\$95,955,660) -33,997 5 (\$3,787,339,744) (\$1,960,942,626) (\$1,181,889,810) (\$675,673,027) -21,815 6 (\$5,251,989,170) (\$2,391,067,626) (\$1,346,921,796) (\$488,410,330) -20,223 7 (\$5,241,354,438) (\$2,385,239,382) (\$1,346,921,796) (\$488,410,330) -20,223 8 (\$3,402,967,448) (\$3,289,67,506) (\$2,080,142,116) (\$487,704,233) -20,157 8 (\$3,402,967,448) (\$3,290,316,260) (\$1,708,596,550) (\$879,366,084) -34,566 10 (\$5,880,195,498) (\$2,900,316,260) (\$1,708,596,550) (\$792,154,959) -22,899 11 (\$7,253,145,885) (\$3,417,959,970) (\$2,031,580,506) (\$927,514,445) -34,116 12 (\$3,802,770,787)	Senate District					(Permanent Jobs)
3 (\$8,833,761,102) (\$4,481,623,233) (\$2,721,840,420) (\$1,527,508,544) -49,726 (\$4 (\$6,667,339,575) (\$3,341,015,846) (\$2,007,796,170) (\$959,595,760) -33,997 (\$5 (\$3,787,339,744) (\$1,950,942,526) (\$1,181,989,810) (\$675,673,027) -21,816 (\$6 (\$5,251,989,170) (\$2,391,067,626) (\$1,346,921,796) (\$488,410,330) -20,223 (\$5,241,364,438) (\$2,365,239,382) (\$1,342,889,840) (\$487,704,233) -20,157 (\$8 (\$3,402,967,448) (\$1,717,807,914) (\$1,018,401,798) (\$484,942,442) -17,352 (\$9 (\$7,117,210,263) (\$3,488,967,506) (\$2,080,142,115) (\$879,036,084) -34,564 (\$10 (\$5,580,195,498) (\$2,900,316,260) (\$1,708,596,550) (\$792,154,9559) -28,894 (\$11 (\$7,253,145,885) (\$3,417,959,970) (\$2,031,580,506) (\$92,7514,445) -34,115 (\$3,802,770,787) (\$1,850,690,330) (\$1,091,021,323) (\$543,341,146) -18,777 (\$1,850,690,330) (\$1,091,021,323) (\$543,341,146) -18,777 (\$1,860,901,115) (\$590,823,099) -24,276 (\$1,486,835,551) (\$2,214,288,990) (\$2,231,580,506) (\$1,277,941,100) (\$464,988,908) -19,215 (\$4,988,635,651) (\$2,271,530,601) (\$1,279,491,100) (\$464,988,908) -19,215 (\$1,486,836,561) (\$55,214,288,990) (\$2,542,411,592) (\$1,436,836,561) (\$572,996,400) -22,711 (\$1,577,491,100) (\$464,988,008) -19,215 (\$1,486,836,561) (\$55,214,288,990) (\$2,542,411,592) (\$1,436,836,561) (\$572,996,400) -22,711 (\$1,660,901,136,136,1392,697) -54,132 (\$1,660,136,136,1392,697) -54,132 (\$1,660,136,136,1392,697) -54,132 (\$1,660,136,136,136,1392,697) -54,132 (\$1,660,136,136,136,1392,697) -54,132 (\$1,660,136,136,136,136,136,136,136,136,136,136	1	(\$10,416,254,913)	(\$5,267,510,636)	(\$3,192,610,797)	(\$1,627,041,297)	-56,627
4 (\$6,867,339,575) (\$3,341,015,846) (\$2,007,796,170) (\$959,595,760) -33,997 5 (\$3,787,339,744) (\$1,950,942,526) (\$1,181,999,810) (\$675,673,027) -21,815 6 (\$5,251,989,170) (\$2,391,067,626) (\$1,346,921,796) (\$484,410,330) -20,222 7 (\$5,241,354,438) (\$2,385,239,382) (\$1,342,889,840) (\$487,704,233) -20,157 8 (\$3,402,967,448) (\$1,717,807,914) (\$1,018,401,798) (\$484,942,442) -17,352 9 (\$7,117,210,263) (\$3,498,967,506) (\$2,080,142,115) (\$879,036,084) -34,564 10 (\$5,880,195,498) (\$2,900,316,260) (\$1,708,596,550) (\$792,154,959) -28,899 11 (\$7,253,145,885) (\$3,417,959,970) (\$2,031,880,506) (\$927,514,445) -34,115 12 (\$3,802,770,787) (\$1,850,690,330) (\$1,901,021,323) (\$543,341,146) -18,777 13 (\$5,815,373,366) (\$2,696,724,437) (\$1,560,090,115) (\$590,262,007) -17,565 15 (\$4,988,635,051)	2	(\$8,128,639,077)	(\$4,097,360,152)	(\$2,510,088,582)	(\$1,187,686,379)	-43,946
5 (\$3,787,339,744) (\$1,950,942,526) (\$1,181,989,810) (\$675,673,027) -21,615 6 (\$5,251,989,170) (\$2,391,067,626) (\$1,346,921,796) (\$488,410,330) -20,223 7 (\$5,241,354,438) (\$2,385,239,382) (\$1,342,889,840) (\$447,704,233) -20,155 8 (\$3,402,967,448) (\$1,717,7807,914) (\$1,018,401,798) (\$484,942,442) -17,355 9 (\$7,117,210,263) (\$3,498,967,506) (\$2,080,142,115) (\$879,036,064) -34,564 10 (\$5,880,195,498) (\$2,900,316,260) (\$1,708,596,550) (\$792,154,959) -28,894 11 (\$7,253,145,885) (\$3,417,959,970) (\$2,031,580,506) (\$927,514,445) -34,115 12 (\$3,802,770,787) (\$1,850,890,330) (\$1,091,021,323) (\$543,341,146) -18,770 13 (\$5,513,573,366) (\$2,269,4437) (\$1,560,090,1415) (\$509,262,007) -17,566 15 (\$4,988,635,051) (\$2,271,303,021) (\$1,279,491,000) (\$464,988,908) -19,215 16 (\$5,214,288,990)	3	(\$8,833,761,102)	(\$4,481,623,233)	(\$2,721,840,420)	(\$1,527,508,544)	-49,726
6 (\$5,251,989,170) (\$2,391,067,626) (\$1,346,921,786) (\$488,410,330) -20,225 7 (\$5,241,354,438) (\$2,385,239,382) (\$1,342,889,840) (\$487,704,233) -20,157 8 (\$3,402,967,448) (\$1,717,807,914) (\$1,018,401,798) (\$484,942,442) -17,352 9 (\$7,117,210,263) (\$3,499,967,506) (\$2,080,142,115) (\$979,036,084) -34,564 10 (\$5,880,195,498) (\$2,900,316,260) (\$1,708,596,550) (\$792,154,959) -28,894 11 (\$7,253,145,885) (\$3,417,959,970) (\$2,031,580,506) (\$927,514,445) -34,115 12 (\$3,802,770,787) (\$1,850,690,330) (\$1,091,021,323) (\$543,341,146) -18,777 13 (\$5,815,373,366) (\$2,696,724,437) (\$1,560,090,115) (\$590,823,099) -24,278 14 (\$3,239,489,493) (\$1,673,269,080) (\$1,002,284,147) (\$509,262,007) -17,566 15 (\$4,988,635,051) (\$2,271,303,021) (\$1,279,491,100) (\$464,988,908) -19,215 16 (\$5,214,288,990) (\$2,542,411,592) (\$1,436,836,561) (\$572,996,400) -22,710 17 (\$5,024,111,846) (\$2,327,558,679) (\$1,336,080,348) (\$553,452,559) -21,026 18 (\$9,881,055,010) (\$4,849,983,940) (\$2,946,080,613) (\$1,437,453,262) -51,426 19 (\$1,07,45,37,468) (\$4,997,345,201) (\$3,124,137,964) (\$1,361,392,697) -54,134 20 (\$8,810,215,178) (\$4,219,352,839) (\$2,601,769,138) (\$1,085,463,742) -44,051 21 (\$6,458,044,328) (\$3,294,722,272) (\$2,031,526,567) (\$1,040,491,129) -36,644 22 (\$7,108,034,949) (\$3,472,911,056) (\$2,123,883,225) (\$1,162,898,466) -38,842 23 (\$5,248,306,458) (\$2,560,191,308) (\$1,448,695,296) (\$577,891,440) -22,921 24 (\$6,622,730,276) (\$3,187,340,403) (\$1,924,406,505) (\$1,109,594,038) -35,893 25 (\$4,817,413,943) (\$2,405,132,555) (\$1,442,532,120) (\$782,742,620) -26,115 26 (\$4,718,504,178) (\$2,367,424,744) (\$1,410,086,405) (\$724,956,453) -24,951 27 (\$3,3735,638,453) (\$1,941,949,062) (\$1,136,266,178) (\$1,571,958,617) -56,965 30 (\$10,422,254,321) (\$5,278,075,009) (\$3,327,165,115) (\$1,571,253,001) -57,606 31 (\$10,201,381,127) (\$5,261,097,068) (\$3,246,616,178) (\$1,571,988,617) -56,965	4	(\$6,867,339,575)	(\$3,341,015,846)	(\$2,007,796,170)	(\$959,595,760)	-33,997
7 (\$5,241,354,438) (\$2,385,239,382) (\$1,342,889,840) (\$487,704,233) -20,157 8 (\$3,402,967,448) (\$1,717,807,914) (\$1,018,401,798) (\$484,942,442) -17,352 9 (\$7,117,210,263) (\$3,498,967,506) (\$2,080,142,115) (\$879,036,084) -34,564 10 (\$5,880,195,498) (\$2,900,316,260) (\$1,708,596,550) (\$792,154,959) -28,894 11 (\$7,253,145,885) (\$3,417,959,970) (\$2,031,580,506) (\$927,514,445) -34,115 12 (\$3,802,770,787) (\$1,850,690,330) (\$1,091,021,323) (\$543,341,146) -18,777 13 (\$5,815,373,366) (\$2,696,724,437) (\$1,560,090,115) (\$590,823,099) -24,276 14 (\$3,239,489,493) (\$1,673,269,080) (\$1,002,284,147) (\$509,262,007) -17,566 15 (\$4,988,635,051) (\$2,271,303,021) (\$1,279,491,100) (\$464,988,908) -19,215 16 (\$5,241,288,990) (\$2,542,411,592) (\$1,436,836,561) (\$572,996,400) -22,716 17 (\$5,024,111,846) (\$2,327,558,679) (\$1,336,080,348) (\$553,452,959) -21,026 18 (\$9,881,055,010) (\$4,848,983,940) (\$2,946,080,613) (\$1,437,453,262) -51,426 19 (\$10,174,537,468) (\$4,997,345,201) (\$3,124,137,964) (\$1,361,392,697) -54,134 20 (\$8,810,215,178) (\$4,219,352,839) (\$2,601,769,138) (\$1,085,463,742) -44,051 21 (\$6,458,044,328) (\$3,294,722,272) (\$2,031,526,587) (\$1,004,91,129) -36,644 22 (\$7,108,034,949) (\$3,487,222,272) (\$2,031,526,587) (\$1,004,91,129) -36,644 23 (\$5,248,306,458) (\$2,560,191,308) (\$1,424,695,596) (\$577,891,440) -22,927 24 (\$6,626,730,276) (\$3,187,340,403) (\$1,924,406,505) (\$1,108,984,666) -38,842 23 (\$5,248,306,458) (\$2,560,191,308) (\$1,426,532,120) (\$782,742,620) -26,115 26 (\$4,718,504,178) (\$2,2367,424,744) (\$1,410,086,405) (\$724,956,453) -24,951 27 (\$3,375,638,453) (\$1,941,949,062) (\$1,182,667,419) (\$647,771,163) -22,025 28 (\$11,690,537,436) (\$5,289,779,705) (\$3,327,165,115) (\$1,571,253,001) -23,906 30 (\$10,422,254,321) (\$5,261,097,068) (\$3,224,6616,178) (\$1,571,253,001) -25,696 31 (\$10,201,381,127) (\$5,261,097,068) (\$3,224,6616,178) (\$1,571,253,001) -25,696	5	(\$3,787,339,744)	(\$1,950,942,526)	(\$1,181,989,810)	(\$675,673,027)	-21,819
8 (\$3,402,967,448) (\$1,717,807,914) (\$1,018,401,798) (\$484,942,442) -17,352 9 (\$7,117,210,263) (\$3,498,967,506) (\$2,080,142,115) (\$879,036,084) -34,564 10 (\$5,880,195,498) (\$2,900,316,260) (\$1,708,596,550) (\$792,154,959) -28,894 11 (\$7,253,145,885) (\$3,417,959,970) (\$2,031,580,506) (\$927,514,445) -34,115 12 (\$3,802,770,787) (\$1,850,690,330) (\$1,091,021,323) (\$543,341,146) -18,770 13 (\$5,815,373,366) (\$2,696,724,437) (\$1,560,090,115) (\$590,823,099) -24,278 14 (\$3,239,489,493) (\$1,673,269,080) (\$1,022,284,147) (\$509,262,007) -17,565 15 (\$4,988,635,051) (\$2,271,330,021) (\$1,279,491,100) (\$464,988,908) -19,215 16 (\$5,214,288,990) (\$2,257,558,679) (\$1,336,080,348) (\$553,452,959) -21,026 18 (\$9,881,055,010) (\$4,849,983,940) (\$2,294,080,613) (\$1,437,453,262) -51,426 19 (\$11,774,537,468)	6	(\$5,251,989,170)	(\$2,391,067,626)	(\$1,346,921,796)	(\$488,410,330)	-20,223
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10 (\$5,880,195,498) (\$2,900,316,260) (\$1,708,596,550) (\$792,154,959) -28,894 11 (\$7,253,145,885) (\$3,417,959,970) (\$2,031,580,506) (\$927,514,445) -34,115 12 (\$3,802,770,787) (\$1,850,690,330) (\$1,091,021,323) (\$543,341,146) -18,770 13 (\$5,815,373,366) (\$2,696,724,437) (\$1,560,090,115) (\$590,823,099) -24,276 14 (\$3,239,489,493) (\$1,673,269,080) (\$1,002,284,147) (\$509,262,007) -17,566 15 (\$4,988,635,051) (\$2,271,303,021) (\$1,279,491,100) (\$464,988,908) -19,216 16 (\$5,214,288,990) (\$2,542,411,592) (\$1,436,836,561) (\$572,996,400) -22,710 17 (\$5,024,111,846) (\$2,327,558,679) (\$1,336,080,348) (\$553,452,959) -21,026 18 (\$9,881,055,010) (\$4,848,983,940) (\$2,946,080,613) (\$1,437,453,262) -51,426 19 (\$1,017,4537,468) (\$4,997,345,201) (\$3,124,137,964) (\$1,361,392,697) -54,132 20 (\$8,810,215,178) </th <th>8</th> <th>(\$3,402,967,448)</th> <th>(\$1,717,807,914)</th> <th>(\$1,018,401,798)</th> <th>(\$484,942,442)</th> <th>-17,352</th>	8	(\$3,402,967,448)	(\$1,717,807,914)	(\$1,018,401,798)	(\$484,942,442)	-17,352
11 (\$7,253,145,885) (\$3,417,959,970) (\$2,031,580,506) (\$927,514,445) -34,115 12 (\$3,802,770,787) (\$1,850,690,330) (\$1,091,021,323) (\$543,341,146) -18,770 13 (\$5,815,373,366) (\$2,696,724,437) (\$1,560,090,115) (\$590,823,099) -24,276 14 (\$3,239,489,493) (\$1,673,269,080) (\$1,002,284,147) (\$509,262,007) -17,566 15 (\$4,988,635,051) (\$2,271,303,021) (\$1,279,491,100) (\$464,988,908) -19,215 16 (\$5,214,288,990) (\$2,542,411,592) (\$1,436,836,5661) (\$572,996,400) -22,710 17 (\$5,024,111,846) (\$2,327,558,679) (\$1,336,080,348) (\$573,452,959) -21,026 18 (\$9,881,055,010) (\$4,484,983,940) (\$2,946,080,613) (\$1,437,453,262) -51,426 19 (\$10,174,537,468) (\$4,997,345,201) (\$3,124,137,964) (\$1,361,392,697) -54,134 20 (\$8,810,215,178) (\$4,219,352,839) (\$2,601,769,138) (\$1,095,463,742) -44,051 21 (\$6,458,044,328	9	(\$7,117,210,263)	(\$3,498,967,506)	(\$2,080,142,115)	(\$879,036,084)	-34,564
12 (\$3,802,770,787) (\$1,850,690,330) (\$1,091,021,323) (\$543,341,146) -18,770 13 (\$5,815,373,366) (\$2,696,724,437) (\$1,560,090,115) (\$590,823,099) -24,276 14 (\$3,239,489,493) (\$1,673,269,080) (\$1,002,284,147) (\$509,262,007) -17,568 15 (\$4,988,635,051) (\$2,271,303,021) (\$1,279,491,100) (\$464,988,908) -19,218 16 (\$5,214,288,990) (\$2,542,411,592) (\$1,436,836,561) (\$572,996,400) -22,710 17 (\$5,024,111,846) (\$2,327,558,679) (\$1,336,080,348) (\$553,452,959) -21,026 18 (\$9,881,055,010) (\$4,848,983,940) (\$2,946,080,613) (\$1,437,453,262) -51,426 19 (\$10,174,537,468) (\$4,997,345,201) (\$3,124,137,964) (\$1,361,392,697) -54,132 20 (\$8,810,215,178) (\$4,219,352,839) (\$2,601,769,138) (\$1,040,491,129) -36,644 21 (\$6,458,044,328) (\$3,294,722,272) (\$2,031,526,587) (\$1,040,491,129) -36,644 22 (\$7,108,034,94	10	(\$5,880,195,498)	(\$2,900,316,260)	(\$1,708,596,550)	(\$792,154,959)	-28,894
13 (\$5,815,373,366) (\$2,696,724,437) (\$1,560,090,115) (\$590,823,099) -24,276 14 (\$3,239,489,493) (\$1,673,269,080) (\$1,002,284,147) (\$509,262,007) -17,566 15 (\$4,988,635,051) (\$2,271,303,021) (\$1,279,491,100) (\$464,988,908) -19,219 16 (\$5,214,288,990) (\$2,542,411,592) (\$1,436,836,561) (\$572,996,400) -22,710 17 (\$5,024,111,846) (\$2,327,558,679) (\$1,336,080,348) (\$553,452,959) -21,026 18 (\$9,881,055,010) (\$4,848,983,940) (\$2,946,080,613) (\$1,437,453,262) -51,426 19 (\$10,174,537,468) (\$4,997,345,201) (\$3,124,137,964) (\$1,361,392,697) -54,134 20 (\$8,810,215,178) (\$4,219,352,839) (\$2,601,769,138) (\$1,085,463,742) -44,051 21 (\$6,458,044,328) (\$3,294,722,272) (\$2,031,526,587) (\$1,040,491,129) -36,644 22 (\$7,108,034,949) (\$3,472,911,056) (\$2,123,883,225) (\$1,162,898,466) -38,842 23 (\$5,248,306,	11	(\$7,253,145,885)	(\$3,417,959,970)	(\$2,031,580,506)	(\$927,514,445)	-34,119
14 (\$3,239,489,493) (\$1,673,269,080) (\$1,002,284,147) (\$509,262,007) -17,566 15 (\$4,988,635,051) (\$2,271,303,021) (\$1,279,491,100) (\$464,988,908) -19,218 16 (\$5,214,288,990) (\$2,542,411,592) (\$1,436,836,561) (\$572,996,400) -22,710 17 (\$5,024,111,846) (\$2,327,558,679) (\$1,336,080,348) (\$553,452,959) -21,026 18 (\$9,881,055,010) (\$4,848,983,940) (\$2,946,080,613) (\$1,437,453,262) -51,426 19 (\$10,174,537,468) (\$4,997,345,201) (\$3,124,137,964) (\$1,361,392,697) -54,134 20 (\$8,810,215,178) (\$4,219,352,839) (\$2,601,769,138) (\$1,085,463,742) -44,051 21 (\$6,458,044,328) (\$3,294,722,272) (\$2,031,526,587) (\$1,040,491,129) -36,644 22 (\$7,108,034,949) (\$3,472,911,056) (\$2,123,883,225) (\$1,162,898,466) -38,842 23 (\$5,248,306,458) (\$2,560,191,308) (\$1,448,695,296) (\$577,891,440) -22,921 24 (\$6,262,730,	12	(\$3,802,770,787)	(\$1,850,690,330)	(\$1,091,021,323)	(\$543,341,146)	-18,770
15 (\$4,988,635,051) (\$2,271,303,021) (\$1,279,491,100) (\$464,988,908) -19,215 16 (\$5,214,288,990) (\$2,542,411,592) (\$1,436,836,561) (\$572,996,400) -22,710 17 (\$5,024,111,846) (\$2,327,558,679) (\$1,336,080,348) (\$553,452,959) -21,026 18 (\$9,881,055,010) (\$4,848,983,940) (\$2,946,080,613) (\$1,437,453,262) -51,426 19 (\$10,174,537,468) (\$4,997,345,201) (\$3,124,137,964) (\$1,361,392,697) -54,134 20 (\$8,810,215,178) (\$4,219,352,839) (\$2,601,769,138) (\$1,085,463,742) -44,051 21 (\$6,458,044,328) (\$3,294,722,272) (\$2,031,526,587) (\$1,040,491,129) -36,644 22 (\$7,108,034,949) (\$3,472,911,056) (\$2,123,883,225) (\$1,162,898,466) -38,842 23 (\$5,248,306,458) (\$2,560,191,308) (\$1,448,695,296) (\$577,891,440) -22,921 24 (\$6,262,730,276) (\$3,187,340,403) (\$1,924,406,505) (\$1,109,594,038) -35,893 25 (\$4,817,41	13	(\$5,815,373,366)	(\$2,696,724,437)	(\$1,560,090,115)	(\$590,823,099)	-24,278
16 (\$5,214,288,990) (\$2,542,411,592) (\$1,436,836,561) (\$572,996,400) -22,710 17 (\$5,024,111,846) (\$2,327,558,679) (\$1,336,080,348) (\$553,452,959) -21,026 18 (\$9,881,055,010) (\$4,848,983,940) (\$2,946,080,613) (\$1,437,453,262) -51,426 19 (\$10,174,537,468) (\$4,997,345,201) (\$3,124,137,964) (\$1,361,392,697) -54,134 20 (\$8,810,215,178) (\$4,219,352,839) (\$2,601,769,138) (\$1,085,463,742) -44,051 21 (\$6,458,044,328) (\$3,294,722,272) (\$2,031,526,587) (\$1,040,491,129) -36,644 22 (\$7,108,034,949) (\$3,472,911,056) (\$2,123,883,225) (\$1,162,898,466) -38,842 23 (\$5,248,306,458) (\$2,560,191,308) (\$1,448,695,296) (\$577,891,440) -22,921 24 (\$6,622,730,276) (\$3,187,340,403) (\$1,924,406,505) (\$1,109,594,038) -35,893 25 (\$4,817,413,943) (\$2,405,132,555) (\$1,442,532,120) (\$782,742,620) -26,115 26 (\$4,771,50	14	(\$3,239,489,493)	(\$1,673,269,080)	(\$1,002,284,147)	(\$509,262,007)	-17,565
17 (\$5,024,111,846) (\$2,327,558,679) (\$1,336,080,348) (\$553,452,959) -21,026 18 (\$9,881,055,010) (\$4,848,983,940) (\$2,946,080,613) (\$1,437,453,262) -51,426 19 (\$10,174,537,468) (\$4,997,345,201) (\$3,124,137,964) (\$1,361,392,697) -54,134 20 (\$8,810,215,178) (\$4,219,352,839) (\$2,601,769,138) (\$1,085,463,742) -44,051 21 (\$6,458,044,328) (\$3,294,722,272) (\$2,031,526,587) (\$1,040,491,129) -36,644 22 (\$7,108,034,949) (\$3,472,911,056) (\$2,123,883,225) (\$1,162,898,466) -38,842 23 (\$5,248,306,458) (\$2,560,191,308) (\$1,448,695,296) (\$577,891,440) -22,921 24 (\$6,262,730,276) (\$3,187,340,403) (\$1,924,406,505) (\$1,109,594,038) -35,893 25 (\$4,817,413,943) (\$2,405,132,555) (\$1,442,532,120) (\$782,742,620) -26,115 26 (\$4,718,504,178) (\$2,367,424,744) (\$1,410,086,405) (\$724,956,453) -24,951 27 (\$3,735,63	15	(\$4,988,635,051)	(\$2,271,303,021)	(\$1,279,491,100)	(\$464,988,908)	-19,219
18 (\$9,881,055,010) (\$4,848,983,940) (\$2,946,080,613) (\$1,437,453,262) -51,426 19 (\$10,174,537,468) (\$4,997,345,201) (\$3,124,137,964) (\$1,361,392,697) -54,134 20 (\$8,810,215,178) (\$4,219,352,839) (\$2,601,769,138) (\$1,085,463,742) -44,051 21 (\$6,458,044,328) (\$3,294,722,272) (\$2,031,526,587) (\$1,040,491,129) -36,644 22 (\$7,108,034,949) (\$3,472,911,056) (\$2,123,883,225) (\$1,162,898,466) -38,842 23 (\$5,248,306,458) (\$2,560,191,308) (\$1,448,695,296) (\$577,891,440) -22,921 24 (\$6,262,730,276) (\$3,187,340,403) (\$1,924,406,505) (\$1,109,594,038) -35,893 25 (\$4,817,413,943) (\$2,405,132,555) (\$1,442,532,120) (\$782,742,620) -26,115 26 (\$4,718,504,178) (\$2,367,424,744) (\$1,410,086,405) (\$724,956,453) -24,951 27 (\$3,735,638,453) (\$1,941,949,062) (\$1,182,667,419) (\$647,771,163) -22,025 28 (\$11,690,5	16	(\$5,214,288,990)	(\$2,542,411,592)	(\$1,436,836,561)	(\$572,996,400)	-22,710
19 (\$10,174,537,468) (\$4,997,345,201) (\$3,124,137,964) (\$1,361,392,697) -54,132 20 (\$8,810,215,178) (\$4,219,352,839) (\$2,601,769,138) (\$1,085,463,742) -44,051 21 (\$6,458,044,328) (\$3,294,722,272) (\$2,031,526,587) (\$1,040,491,129) -36,644 22 (\$7,108,034,949) (\$3,472,911,056) (\$2,123,883,225) (\$1,162,898,466) -38,842 23 (\$5,248,306,458) (\$2,560,191,308) (\$1,448,695,296) (\$577,891,440) -22,921 24 (\$6,262,730,276) (\$3,187,340,403) (\$1,924,406,505) (\$1,109,594,038) -35,893 25 (\$4,817,413,943) (\$2,405,132,555) (\$1,442,532,120) (\$782,742,620) -26,115 26 (\$4,718,504,178) (\$2,367,424,744) (\$1,410,086,405) (\$724,956,453) -24,951 27 (\$3,735,638,453) (\$1,941,949,062) (\$1,182,667,419) (\$647,771,163) -22,029 28 (\$11,690,537,436) (\$5,893,779,705) (\$3,650,792,952) (\$1,820,624,071) -65,340 29 (\$4,680,2	17	(\$5,024,111,846)	(\$2,327,558,679)	(\$1,336,080,348)	(\$553,452,959)	-21,028
20 (\$8,810,215,178) (\$4,219,352,839) (\$2,601,769,138) (\$1,085,463,742) -44,051 21 (\$6,458,044,328) (\$3,294,722,272) (\$2,031,526,587) (\$1,040,491,129) -36,644 22 (\$7,108,034,949) (\$3,472,911,056) (\$2,123,883,225) (\$1,162,898,466) -38,842 23 (\$5,248,306,458) (\$2,560,191,308) (\$1,448,695,296) (\$577,891,440) -22,921 24 (\$6,262,730,276) (\$3,187,340,403) (\$1,924,406,505) (\$1,109,594,038) -35,893 25 (\$4,817,413,943) (\$2,405,132,555) (\$1,442,532,120) (\$782,742,620) -26,118 26 (\$4,718,504,178) (\$2,367,424,744) (\$1,410,086,405) (\$724,956,453) -24,951 27 (\$3,735,638,453) (\$1,941,949,062) (\$1,182,667,419) (\$647,771,163) -22,029 28 (\$11,690,537,436) (\$5,893,779,705) (\$3,650,792,952) (\$1,820,624,071) -65,340 29 (\$4,680,278,202) (\$2,272,981,909) (\$1,334,224,704) (\$702,709,091) -23,906 30 (\$10,201,381	18	(\$9,881,055,010)	(\$4,848,983,940)	(\$2,946,080,613)	(\$1,437,453,262)	-51,426
21 (\$6,458,044,328) (\$3,294,722,272) (\$2,031,526,587) (\$1,040,491,129) -36,644 22 (\$7,108,034,949) (\$3,472,911,056) (\$2,123,883,225) (\$1,162,898,466) -38,842 23 (\$5,248,306,458) (\$2,560,191,308) (\$1,448,695,296) (\$577,891,440) -22,921 24 (\$6,262,730,276) (\$3,187,340,403) (\$1,924,406,505) (\$1,109,594,038) -35,893 25 (\$4,817,413,943) (\$2,405,132,555) (\$1,442,532,120) (\$782,742,620) -26,116 26 (\$4,718,504,178) (\$2,367,424,744) (\$1,410,086,405) (\$724,956,453) -24,951 27 (\$3,735,638,453) (\$1,941,949,062) (\$1,182,667,419) (\$647,771,163) -22,029 28 (\$11,690,537,436) (\$5,893,779,705) (\$3,650,792,952) (\$1,820,624,071) -65,340 29 (\$4,680,278,202) (\$2,272,981,909) (\$1,334,224,704) (\$702,709,091) -23,906 30 (\$10,201,381,127) (\$5,261,097,068) (\$3,246,616,178) (\$1,571,988,617) -56,965 31 (\$10,201,381,127) (\$5,261,097,068) (\$3,246,616,178) (\$1,571,988,617)	19	(\$10,174,537,468)	(\$4,997,345,201)	(\$3,124,137,964)	(\$1,361,392,697)	-54,134
22 (\$7,108,034,949) (\$3,472,911,056) (\$2,123,883,225) (\$1,162,898,466) -38,842 23 (\$5,248,306,458) (\$2,560,191,308) (\$1,448,695,296) (\$577,891,440) -22,921 24 (\$6,262,730,276) (\$3,187,340,403) (\$1,924,406,505) (\$1,109,594,038) -35,893 25 (\$4,817,413,943) (\$2,405,132,555) (\$1,442,532,120) (\$782,742,620) -26,115 26 (\$4,718,504,178) (\$2,367,424,744) (\$1,410,086,405) (\$724,956,453) -24,951 27 (\$3,735,638,453) (\$1,941,949,062) (\$1,182,667,419) (\$647,771,163) -22,029 28 (\$11,690,537,436) (\$5,893,779,705) (\$3,650,792,952) (\$1,820,624,071) -65,340 29 (\$4,680,278,202) (\$2,272,981,909) (\$1,334,224,704) (\$702,709,091) -23,906 30 (\$10,422,254,321) (\$5,278,075,200) (\$3,246,616,178) (\$1,571,988,617) -56,965 31 (\$10,201,381,127) (\$5,261,097,068) (\$3,246,616,178) (\$1,571,988,617) -56,965	20	(\$8,810,215,178)	(\$4,219,352,839)	(\$2,601,769,138)	(\$1,085,463,742)	-44,051
23 (\$5,248,306,458) (\$2,560,191,308) (\$1,448,695,296) (\$577,891,440) -22,921 24 (\$6,262,730,276) (\$3,187,340,403) (\$1,924,406,505) (\$1,109,594,038) -35,893 25 (\$4,817,413,943) (\$2,405,132,555) (\$1,442,532,120) (\$782,742,620) -26,115 26 (\$4,718,504,178) (\$2,367,424,744) (\$1,410,086,405) (\$724,956,453) -24,951 27 (\$3,735,638,453) (\$1,941,949,062) (\$1,182,667,419) (\$647,771,163) -22,025 28 (\$11,690,537,436) (\$5,893,779,705) (\$3,650,792,952) (\$1,820,624,071) -65,340 29 (\$4,680,278,202) (\$2,272,981,909) (\$1,334,224,704) (\$702,709,091) -23,906 30 (\$10,422,254,321) (\$5,278,075,200) (\$3,257,165,115) (\$1,571,253,001) -57,605 31 (\$10,201,381,127) (\$5,261,097,068) (\$3,246,616,178) (\$1,571,988,617) -56,965	21	(\$6,458,044,328)	(\$3,294,722,272)	(\$2,031,526,587)	(\$1,040,491,129)	-36,644
24 (\$6,262,730,276) (\$3,187,340,403) (\$1,924,406,505) (\$1,109,594,038) -35,893 25 (\$4,817,413,943) (\$2,405,132,555) (\$1,442,532,120) (\$782,742,620) -26,118 26 (\$4,718,504,178) (\$2,367,424,744) (\$1,410,086,405) (\$724,956,453) -24,951 27 (\$3,735,638,453) (\$1,941,949,062) (\$1,182,667,419) (\$647,771,163) -22,029 28 (\$11,690,537,436) (\$5,893,779,705) (\$3,650,792,952) (\$1,820,624,071) -65,340 29 (\$4,680,278,202) (\$2,272,981,909) (\$1,334,224,704) (\$702,709,091) -23,906 30 (\$10,422,254,321) (\$5,278,075,200) (\$3,257,165,115) (\$1,571,253,001) -57,605 31 (\$10,201,381,127) (\$5,261,097,068) (\$3,246,616,178) (\$1,571,988,617) -56,965	22	(\$7,108,034,949)	(\$3,472,911,056)	(\$2,123,883,225)	(\$1,162,898,466)	-38,842
25 (\$4,817,413,943) (\$2,405,132,555) (\$1,442,532,120) (\$782,742,620) -26,115 26 (\$4,718,504,178) (\$2,367,424,744) (\$1,410,086,405) (\$724,956,453) -24,951 27 (\$3,735,638,453) (\$1,941,949,062) (\$1,182,667,419) (\$647,771,163) -22,025 28 (\$11,690,537,436) (\$5,893,779,705) (\$3,650,792,952) (\$1,820,624,071) -65,340 29 (\$4,680,278,202) (\$2,272,981,909) (\$1,334,224,704) (\$702,709,091) -23,906 30 (\$10,422,254,321) (\$5,278,075,200) (\$3,257,165,115) (\$1,571,253,001) -57,605 31 (\$10,201,381,127) (\$5,261,097,068) (\$3,246,616,178) (\$1,571,988,617) -56,965	23	(\$5,248,306,458)	(\$2,560,191,308)	(\$1,448,695,296)	(\$577,891,440)	-22,921
26 (\$4,718,504,178) (\$2,367,424,744) (\$1,410,086,405) (\$724,956,453) -24,951 27 (\$3,735,638,453) (\$1,941,949,062) (\$1,182,667,419) (\$647,771,163) -22,029 28 (\$11,690,537,436) (\$5,893,779,705) (\$3,650,792,952) (\$1,820,624,071) -65,340 29 (\$4,680,278,202) (\$2,272,981,909) (\$1,334,224,704) (\$702,709,091) -23,906 30 (\$10,422,254,321) (\$5,278,075,200) (\$3,257,165,115) (\$1,571,253,001) -57,605 31 (\$10,201,381,127) (\$5,261,097,068) (\$3,246,616,178) (\$1,571,988,617) -56,965	24	(\$6,262,730,276)	(\$3,187,340,403)	(\$1,924,406,505)	(\$1,109,594,038)	-35,893
27 (\$3,735,638,453) (\$1,941,949,062) (\$1,182,667,419) (\$647,771,163) -22,029 28 (\$11,690,537,436) (\$5,893,779,705) (\$3,650,792,952) (\$1,820,624,071) -65,340 29 (\$4,680,278,202) (\$2,272,981,909) (\$1,334,224,704) (\$702,709,091) -23,906 30 (\$10,422,254,321) (\$5,278,075,200) (\$3,257,165,115) (\$1,571,253,001) -57,605 31 (\$10,201,381,127) (\$5,261,097,068) (\$3,246,616,178) (\$1,571,988,617) -56,965	25	(\$4,817,413,943)	(\$2,405,132,555)	(\$1,442,532,120)	(\$782,742,620)	-26,115
28 (\$11,690,537,436) (\$5,893,779,705) (\$3,650,792,952) (\$1,820,624,071) -65,340 29 (\$4,680,278,202) (\$2,272,981,909) (\$1,334,224,704) (\$702,709,091) -23,906 30 (\$10,422,254,321) (\$5,278,075,200) (\$3,257,165,115) (\$1,571,253,001) -57,605 31 (\$10,201,381,127) (\$5,261,097,068) (\$3,246,616,178) (\$1,571,988,617) -56,965	26	(\$4,718,504,178)	(\$2,367,424,744)	(\$1,410,086,405)	(\$724,956,453)	-24,951
29 (\$4,680,278,202) (\$2,272,981,909) (\$1,334,224,704) (\$702,709,091) -23,906 30 (\$10,422,254,321) (\$5,278,075,200) (\$3,257,165,115) (\$1,571,253,001) -57,605 31 (\$10,201,381,127) (\$5,261,097,068) (\$3,246,616,178) (\$1,571,988,617) -56,965	27	(\$3,735,638,453)	(\$1,941,949,062)	(\$1,182,667,419)	(\$647,771,163)	-22,029
30 (\$10,422,254,321) (\$5,278,075,200) (\$3,257,165,115) (\$1,571,253,001) -57,605 31 (\$10,201,381,127) (\$5,261,097,068) (\$3,246,616,178) (\$1,571,988,617) -56,965	28	(\$11,690,537,436)	(\$5,893,779,705)	(\$3,650,792,952)	(\$1,820,624,071)	-65,340
31 (\$10,201,381,127) (\$5,261,097,068) (\$3,246,616,178) (\$1,571,988,617) -56,965	29	(\$4,680,278,202)	(\$2,272,981,909)	(\$1,334,224,704)	(\$702,709,091)	-23,906
	30	(\$10,422,254,321)	(\$5,278,075,200)	(\$3,257,165,115)	(\$1,571,253,001)	-57,605
TOTAL (\$204,473,797,970) (\$100,813,055,453) (\$60,573,246,198) (\$28,869,361,809) -1,045,817	31	(\$10,201,381,127)	(\$5,261,097,068)	(\$3,246,616,178)	(\$1,571,988,617)	-56,965
TOTAL (\$204,473,797,970) (\$100,813,055,453) (\$60,573,246,198) (\$28,869,361,809) -1,045,817						
	TOTAL	(\$204,473,797,970)	(\$100,813,055,453)	(\$60,573,246,198)	(\$28,869,361,809)	-1,045,817

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.

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



US	- ROGUILO	by co congres			
Congressional District in Texas	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Retail Sales (2017 Dollars)	Employment (Permanent Jobs)
1	(\$7,740,068,189)	(\$3,902,720,256)	(\$2,347,651,654)	(\$1,217,632,111)	-41,592
2	(\$5,972,520,323)	(\$2,734,785,436)	(\$1,602,278,027)	(\$551,829,182)	-24,603
3	(\$3,299,893,616)	(\$1,703,110,834)	(\$1,044,895,588)	(\$514,371,624)	-18,267
4	(\$6,696,175,835)	(\$3,426,299,938)	(\$2,124,201,085)	(\$1,230,101,907)	-39,691
5	(\$6,935,189,981)	(\$3,484,391,221)	(\$2,088,605,368)	(\$1,017,106,574)	-36,566
6	(\$5,800,127,675)	(\$2,850,637,645)	(\$1,723,216,471)	(\$831,401,087)	-29,972
7	(\$5,972,520,323)	(\$2,734,785,436)	(\$1,602,278,027)	(\$551,829,182)	-24,603
8	(\$6,532,905,815)	(\$3,190,380,195)	(\$1,913,966,399)	(\$896,935,276)	-32,717
9	(\$5,740,901,250)	(\$2,639,094,508)	(\$1,545,808,961)	(\$562,023,860)	-24,011
10	(\$5,497,399,791)	(\$2,679,717,442)	(\$1,604,590,644)	(\$723,602,627)	-27,124
11	(\$7,286,957,017)	(\$3,645,329,428)	(\$2,160,973,258)	(\$1,194,319,006)	-38,837
12	(\$5,860,661,669)	(\$2,885,492,114)	(\$1,729,695,967)	(\$823,606,925)	-29,872
13	(\$6,797,793,929)	(\$3,489,210,642)	(\$2,068,468,070)	(\$1,113,543,036)	-36,667
14	(\$7,239,706,150)	(\$3,514,488,362)	(\$2,176,540,074)	(\$1,147,141,336)	-38,681
15	(\$3,627,977,956)	(\$1,887,013,462)	(\$1,158,498,681)	(\$636,438,662)	-21,465
16	(\$5,448,248,497)	(\$2,665,831,339)	(\$1,607,145,220)	(\$768,451,017)	-28,470
17	(\$5,782,656,225)	(\$2,897,556,783)	(\$1,757,019,705)	(\$926,665,556)	-31,893
18	(\$5,972,520,323)	(\$2,734,785,436)	(\$1,602,278,027)	(\$551,829,182)	-24,603
19	(\$6,295,653,915)	(\$3,227,163,363)	(\$1,931,705,698)	(\$1,011,508,814)	-34,386
20	(\$5,787,931,001)	(\$2,931,048,265)	(\$1,800,820,002)	(\$847,778,355)	-31,657
21	(\$5,790,075,311)	(\$2,910,732,127)	(\$1,772,364,161)	(\$906,658,213)	-31,940
22	(\$4,291,616,942)	(\$2,019,699,807)	(\$1,193,740,210)	(\$570,277,620)	-19,949
23	(\$5,278,739,570)	(\$2,682,816,485)	(\$1,626,415,682)	(\$855,558,376)	-29,475
24	(\$5,536,513,935)	(\$2,719,344,838)	(\$1,613,934,847)	(\$675,096,563)	-26,720
25	(\$5,080,466,445)	(\$2,574,276,602)	(\$1,592,349,815)	(\$848,727,253)	-29,157
26	(\$4,054,151,354)	(\$1,982,779,187)	(\$1,204,324,739)	(\$564,458,870)	-20,795
27	(\$7,476,189,193)	(\$3,587,543,872)	(\$2,138,401,044)	(\$1,122,677,613)	-37,378
28	(\$3,904,203,492)	(\$2,017,654,663)	(\$1,221,828,264)	(\$650,312,214)	-22,151
29	(\$5,972,520,323)	(\$2,734,785,436)	(\$1,602,278,027)	(\$551,829,182)	-24,603
30	(\$5,969,804,588)	(\$2,915,050,721)	(\$1,702,676,024)	(\$643,727,918)	-27,220
31	(\$3,096,430,487)	(\$1,658,953,088)	(\$1,048,682,286)	(\$557,875,562)	-19,285
32	(\$5,786,160,171)	(\$2,831,564,412)	(\$1,657,290,123)	(\$634,613,642)	-26,600
33	(\$5,885,087,259)	(\$2,897,086,827)	(\$1,716,945,507)	(\$714,546,017)	-28,374
34	(\$4,395,848,518)	(\$2,272,346,376)	(\$1,388,939,434)	(\$762,444,368)	-25,860
35	(\$4,820,813,935)	(\$2,458,755,744)	(\$1,509,662,809)	(\$730,619,091)	-26,709
36	(\$6,847,366,965)	(\$3,325,823,165)	(\$1,992,776,299)	(\$961,823,990)	-33,927

TOTAL	(\$204,473,797,970)	(\$100,813,055,453)	(\$60,573,246,198)	(\$28,869,361,809)	-1,045,817

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 Impact of Losses (Treatment, Morbidity, and Mortality) Associated with Lung and Bronchus Cancer, Colorectal Cancer, Breast Cancer, and Pancreatic Cancer Deaths in 2017 on Business Activity in Texas



The Impact of Direct Medical Expenses and Related Outlays Associated with Lung or Bronchus Cancer Deaths in 2017 on Business Activity in Texas

Lulig of B	nonchus Cancer De		isiness Activity in	техаб
	Total Expenditures	Gross Product	Personal Income	Employment (Permanent
Category	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	Jobs)
Agriculture	(\$100,116,964)	(\$27,445,152)	(\$18,054,863)	(278)
Mining	(\$162,985,471)	(\$37,234,649)	(\$19,098,671)	(99)
Construction	(\$137,797,738)	(\$70,244,962)	(\$57,886,236)	(804)
Nondurable Manufacturing	(\$599,678,289)	(\$169,035,226)	(\$87,972,163)	(1,363)
Durable Manufacturing	(\$208,781,459)	(\$83,364,621)	(\$54,417,900)	(694)
Transportation and Utilities	(\$634,562,359)	(\$218,132,130)	(\$130,932,506)	(1,539)
Information	(\$132,742,348)	(\$81,383,754)	(\$35,150,341)	(321)
Wholesale Trade	(\$176,779,733)	(\$119,612,595)	(\$68,969,676)	(760)
Retail Trade (including Restaurants)	(\$710,319,615)	(\$533,060,084)	(\$309,919,579)	(9,369)
FIRE	(\$1,036,153,830)	(\$354,469,119)	(\$149,148,171)	(1,600)
Business Services	(\$319,259,117)	(\$203,066,532)	(\$165,650,253)	(1,990)
Health Services	(\$929,589,245)	(\$687,562,057)	(\$581,340,080)	(9,493)
Other Services	(\$330,239,770)	(\$170,369,863)	(\$135,995,540)	(3,194)
TOTAL	(\$5,479,005,937)	(\$2,754,980,744)	(\$1,814,535,979)	(31,504)

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

NOTE: Medical costs based on estimated costs per site for cancer cases over the diagnosis period as estimated by the National Institutes of Health (adjusted to reflect current dollars based on the Medical Services CPI for Texas areas as maintained by the US Bureau of Labor Statistics), (2) estimated deaths by cancer site in Texas for 2017 as compiled by the Texas Cancer Registry, and (3) estimated patterns following diagnosis based on patterns of incidence and death by site. Morbidity and mortality effects are estimated based on patterns relative to medical costs in Texas and approximate cost allocations over the disease cycle (which provides a reasonable proxy for morbidity and mortality patterns).



The Impact of Morbidity Losses Associated with Lung or Bronchus Cancer Deaths in 2017 on Business Activity in Texas Total Personal **Gross Employment Expenditures Product Income** (Permanent Category (2017 Dollars) (2017 Dollars) (2017 Dollars) Jobs) Agriculture (\$22,028,682)(\$6,558,232)(\$3,965,873) (71)Mining (\$158,058,726) (\$75,960,257)(\$25,976,821) (103)Construction (\$63,246,828) (\$30,828,604) (\$23,246,092) (351)Nondurable (\$209,477,933) (\$57,906,980) (\$30,541,757) (313)Manufacturing (270)**Durable Manufacturing** (\$100,778,612)(\$41,919,916)(\$28,220,092)Transportation and (\$159.386.389) (\$55,395,272)(\$30,943,819)(317)Utilities Information (\$44,485,156) (\$29,633,688) (\$13,065,242) (116)Wholesale Trade (\$60,874,290)(\$47,486,792)(\$26,660,405)(303)Retail Trade (including (\$249,665,972) (\$193,253,520) (\$111,411,462) (3,419)Restaurants) **FIRE** (351)(\$356,328,128) (\$105,907,363)(\$37,730,315)**Business Services** (732)(\$109,024,171) (\$79,092,607) (\$64,035,793) **Health Services** (\$70,614,891) (\$56,773,622) (\$45,397,068) (779)Other Services (\$113,156,146) (\$59,761,072)(\$45,612,128) (1,042)**TOTAL** (\$1,717,125,923) (\$840,477,923) (\$486,806,867) (8,166)

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



(66,779)

The Impact of Mortality Losses Associated with Lung and Bronchus Cancer Deaths in 2017 on Business Activity in Texas Personal Total **Gross Employment** Income **Expenditures Product** (Permanent Category (2017 Dollars) (2017 Dollars) (2017 Dollars) Jobs) Agriculture (\$173,754,703)(\$51,729,092)(\$31,281,445)(579)Mining (\$1,246,713,142) (\$599,148,514)(\$204,896,272) (839)Construction (\$498,869,339) (\$243,165,479) (\$183,357,219) (2,874)Nondurable (\$1,652,290,251) (\$456,750,439) (\$240,902,925) (2,560)Manufacturing **Durable Manufacturing** (\$794,907,205)(\$330,649,949)(\$222,590,426)(2,206)Transportation and (\$1,257,185,290) (\$436,938,946)(\$244,074,258) (2,589)Utilities Information (\$350,883,684) (\$233,740,387)(\$103,054,160) (949)Wholesale Trade (\$480,155,565) (\$374,559,566)(\$210,288,153) (2,476)Retail Trade (including (\$1,969,279,745) (\$1,524,317,628) (\$878,775,487)(27,961)Restaurants) **FIRE** (\$2,810,594,332) (\$835,361,039) (\$297,603,813) (2.868)**Business Services** (\$859,945,355) (\$623,855,415) (\$505,092,425) (5,989)**Health Services** (\$556,986,091) (\$447,810,898) (\$358,076,533) (6,370)Other Services (\$892,536,959) (\$471,374,885) (\$359,772,856) (8,517)

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

(\$13,544,101,663)

NOTE: Medical costs based on estimated costs per site for cancer cases over the diagnosis period as estimated by the National Institutes of Health (adjusted to reflect current dollars based on the Medical Services CPI for Texas areas as maintained by the US Bureau of Labor Statistics), (2) estimated deaths by cancer site in Texas for 2017 as compiled by the Texas Cancer Registry, and (3) estimated patterns following diagnosis based on patterns of incidence and death by site. Morbidity and mortality effects are estimated based on patterns relative to medical costs in Texas and approximate cost allocations over the disease cycle (which provides a reasonable proxy for morbidity and mortality patterns).

(\$6,629,402,239)

TOTAL

(\$3,839,765,973)



The Total Impact of Losses (Treatment, Morbidity, and Mortality) Associated with Lung and Bronchus Cancer Deaths in 2017 on Business Activity in Texas

Early and Brononus Canoci Deaths in 2017 on Basiness Activity in Texas					
Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)	
Agriculture	(\$295,900,349)	(\$85,732,476)	(\$53,302,181)	(928)	
Mining	(\$1,567,757,339)	(\$712,343,421)	(\$249,971,764)	(1,041)	
Construction	(\$699,913,906)	(\$344,239,044)	(\$264,489,547)	(4,029)	
Nondurable Manufacturing	(\$2,461,446,473)	(\$683,692,645)	(\$359,416,844)	(4,236)	
Durable Manufacturing	(\$1,104,467,276)	(\$455,934,486)	(\$305,228,417)	(3,170)	
Transportation and Utilities	(\$2,051,134,038)	(\$710,466,348)	(\$405,950,584)	(4,445)	
Information	(\$528,111,187)	(\$344,757,828)	(\$151,269,743)	(1,386)	
Wholesale Trade	(\$717,809,588)	(\$541,658,954)	(\$305,918,235)	(3,539)	
Retail Trade (including Restaurants)	(\$2,929,265,331)	(\$2,250,631,232)	(\$1,300,106,528)	(40,750)	
FIRE	(\$4,203,076,290)	(\$1,295,737,522)	(\$484,482,299)	(4,819)	
Business Services	(\$1,288,228,644)	(\$906,014,554)	(\$734,778,472)	(8,711)	
Health Services	(\$1,557,190,226)	(\$1,192,146,577)	(\$984,813,681)	(16,643)	
Other Services	(\$1,335,932,875)	(\$701,505,820)	(\$541,380,524)	(12,753)	
TOTAL	(\$20,740,233,523)	(\$10,224,860,906)	(\$6,141,108,819)	(106,449)	

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



The Impact of Direct Medical Expenses and Related Outlays Associated with Colorectal Cancer Deaths in 2017 on Business Activity in Texas

Colorectal Calicer Deaths in 2017 on Business Activity in Texas						
Category	Total Expenditures	Gross Product	Personal Income	Employment (Permanent		
	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	Jobs)		
Agriculture	(\$42,987,216)	(\$11,784,124)	(\$7,752,216)	(119)		
Mining	(\$69,981,064)	(\$15,987,440)	(\$8,200,396)	(43)		
Construction	(\$59,166,208)	(\$30,161,076)	(\$24,854,610)	(345)		
Nondurable Manufacturing	(\$257,483,839)	(\$72,578,647)	(\$37,772,603)	(585)		
Durable Manufacturing	(\$89,644,485)	(\$35,794,263)	(\$23,365,411)	(298)		
Transportation and Utilities	(\$272,462,010)	(\$93,659,382)	(\$56,218,484)	(661)		
Information	(\$56,995,575)	(\$34,943,738)	(\$15,092,500)	(138)		
Wholesale Trade	(\$75,903,905)	(\$51,358,054)	(\$29,613,507)	(326)		
Retail Trade (including Restaurants)	(\$304,989,899)	(\$228,879,983)	(\$133,070,155)	(4,023)		
FIRE	(\$444,893,321)	(\$152,198,389)	(\$64,039,743)	(687)		
Business Services	(\$137,080,272)	(\$87,190,667)	(\$71,125,241)	(854)		
Health Services	(\$399,137,690)	(\$295,218,488)	(\$249,609,963)	(4,076)		
Other Services	(\$141,795,034)	(\$73,151,700)	(\$58,392,399)	(1,371)		
TOTAL	(\$2,352,520,520)	(\$1,182,905,952)	(\$779,107,228)	(13,527)		

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



The Impact of Morbidity Losses Associated with **Colorectal Cancer Deaths in 2017 on Business Activity in Texas** Total Personal **Gross Employment Expenditures Product Income** (Permanent Category (2017 Dollars) (2017 Dollars) (2017 Dollars) Jobs) Agriculture (\$31,751,213)(\$9,452,759)(\$5,716,241)(102)Mining (\$227,819,181)(\$109,485,911)(\$37,441,894)(148)Construction (\$91,161,311) (\$44,435,050) (\$33,505,937)(507)Nondurable (\$301,932,657) (\$83,464,678) (\$44,021,600) (451)Manufacturing (389)**Durable Manufacturing** (\$145,258,041)(\$60,421,598)(\$40,675,250)Transportation and (456)(\$229,732,818) (\$79,844,408)(\$44,601,116)Utilities Information (\$64,119,027) (\$42,712,747)(\$18,831,689) (167)Wholesale Trade (\$87,741,634)(\$68,445,459)(\$38,427,184)(436)Retail Trade (including (\$359,858,001) (\$278,547,472) (\$160,583,782)(4,928)Restaurants) **FIRE** (506)(\$513,596,334) (\$152,650,407) (\$54,382,885)**Business Services** (\$157,142,842) (\$114,000,747) (\$92,298,492) (1,056)**Health Services** (\$101,781,325) (\$81,831,103)(\$65,433,418)(1,123)Other Services (\$163,098,497) (\$86,137,089)(\$65,743,397)(1,501)**TOTAL** (\$2,474,992,881)(\$1,211,429,429) (\$701,662,885) (11,770)

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



The Impact of Mortality Losses Associated with **Colorectal Cancer Deaths in 2017 on Business Activity in Texas** Total Personal **Gross Employment Expenditures Product Income** (Permanent Category (2017 Dollars) (2017 Dollars) (2017 Dollars) Jobs) Agriculture (\$50,108,333)(\$14,917,919)(\$9,021,114)(167)Mining (\$359,533,962)(\$172,785,729)(\$59,089,109)(242)Construction (\$143,866,671) (\$70,125,392) (\$52,877,559) (829)Nondurable (\$476,496,509) (\$131,720,192) (\$69,472,905) (738)Manufacturing **Durable Manufacturing** (\$229,239,692)(\$95,354,643)(\$64,191,846)(636)Transportation and (747)(\$362,553,977)(\$126,006,845) (\$70,387,471)Utilities Information (\$101,189,758) (\$67,407,332) (\$29,719,323)(274)Wholesale Trade (\$138,469,891)(\$108,017,538)(\$60,644,049)(714)Retail Trade (including (\$567,911,675) (\$439,591,063) (\$253,426,086) (8,064)Restaurants) **FIRE** (827)(\$810,534,582) (\$240.905.990)(\$85,824,617) **Business Services** (\$179,910,840) (\$247,995,750) (\$145,661,319) (1,727)**Health Services** (\$160,626,698) (\$129,142,159) (\$103,264,071) (1,837)Other Services (\$257,394,695) (\$135,937,670) (\$103,753,266) (2,456)**TOTAL** (19,258)(\$3,905,922,192) (\$1,911,823,314) (\$1,107,332,734)

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



The Total Impact of Losses (Treatment, Morbidity, and Mortality) Associated with Colorectal Cancer Deaths in 2017 on Business Activity in Texas

COIOIE	ctai Caricei Deatris	III ZUTT OII DUSIIII	COO ACTIVITY III TEX	u J
Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)
Agriculture	(\$124,846,762)	(\$36,154,802)	(\$22,489,572)	(389)
Mining	(\$657,334,207)	(\$298,259,079)	(\$104,731,398)	(432)
Construction	(\$294,194,191)	(\$144,721,518)	(\$111,238,106)	(1,681)
Nondurable Manufacturing	(\$1,035,913,005)	(\$287,763,517)	(\$151,267,108)	(1,775)
Durable Manufacturing	(\$464,142,218)	(\$191,570,504)	(\$128,232,507)	(1,323)
Transportation and Utilities	(\$864,748,805)	(\$299,510,636)	(\$171,207,071)	(1,864)
Information	(\$222,304,360)	(\$145,063,818)	(\$63,643,512)	(579)
Wholesale Trade	(\$302,115,430)	(\$227,821,052)	(\$128,684,739)	(1,477)
Retail Trade (including Restaurants)	(\$1,232,759,575)	(\$947,018,518)	(\$547,080,024)	(17,015)
FIRE	(\$1,769,024,237)	(\$545,754,786)	(\$204,247,245)	(2,020)
Business Services	(\$542,218,864)	(\$381,102,255)	(\$309,085,052)	(3,637)
Health Services	(\$661,545,713)	(\$506,191,750)	(\$418,307,452)	(7,036)
Other Services	(\$562,288,226)	(\$295,226,459)	(\$227,889,062)	(5,329)
TOTAL	(\$8,733,435,592)	(\$4,306,158,694)	(\$2,588,102,847)	(44,555)

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



The Impact of Direct Medical Expenses and Related Outlays Associated with Breast Cancer Deaths in 2017 on Business Activity in Texas

Died	breast Cancer Deaths in 2017 on business Activity in Texas						
Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)			
Agriculture	(\$22,130,387)	(\$6,066,623)	(\$3,990,943)	(61)			
Mining	(\$36,027,177)	(\$8,230,545)	(\$4,221,672)	(22)			
Construction	(\$30,459,546)	(\$15,527,321)	(\$12,795,482)	(178)			
Nondurable Manufacturing	(\$132,556,085)	(\$37,364,447)	(\$19,445,836)	(301)			
Durable Manufacturing	(\$46,150,167)	(\$18,427,360)	(\$12,028,823)	(153)			
Transportation and Utilities	(\$140,267,046)	(\$48,217,089)	(\$28,942,019)	(340)			
Information	(\$29,342,076)	(\$17,989,499)	(\$7,769,819)	(71)			
Wholesale Trade	(\$39,076,334)	(\$26,439,806)	(\$15,245,425)	(168)			
Retail Trade (including Restaurants)	(\$157,012,834)	(\$117,830,442)	(\$68,506,276)	(2,071)			
FIRE	(\$229,036,965)	(\$78,353,743)	(\$32,968,507)	(354)			
Business Services	(\$70,570,737)	(\$44,886,909)	(\$36,616,215)	(440)			
Health Services	(\$205,481,361)	(\$151,982,382)	(\$128,502,510)	(2,098)			
Other Services	(\$72,997,959)	(\$37,659,463)	(\$30,061,179)	(706)			
TOTAL	(\$1,211,108,676)	(\$608,975,628)	(\$401,094,704)	(6,964)			

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



The Impact of Morbidity Losses Associated with **Breast Cancer Deaths in 2017 on Business Activity in Texas** Total Personal **Gross Employment Expenditures Product Income** (Permanent Category (2017 Dollars) (2017 Dollars) (2017 Dollars) Jobs) Agriculture (\$7,414,574)(\$2,207,417)(\$1,334,862)(24)Mining (\$53,200,555)(\$25,567,256)(\$8,743,467)(35)Construction (\$21,288,077) (\$10,376,516) (\$7,824,339) (118)Nondurable (\$70,507,606) (\$19,490,752) (\$10,279,967) (105)Manufacturing **Durable Manufacturing** (\$33,920,798)(\$14,109,710)(\$9,498,524)(91)Transportation and (107)(\$53,647,430)(\$18,645,343) (\$10,415,296)Utilities Information (\$14,973,137)(\$9,974,322)(\$4,397,594)(39)Wholesale Trade (\$20,489,511)(\$15,983,450)(\$8,973,553)(102)Retail Trade (including (\$84,034,388)(\$65,046,675)(\$37,499,680)(1,151)Restaurants) **FIRE** (118)(\$119,935,512) (\$35,647,070)(\$12,699,544)**Business Services** (247)(\$36,696,148) (\$26,621,565)(\$21,553,633) **Health Services** (\$23,768,073) (\$19,109,278) (\$15,280,075)(262)Other Services (\$38,086,918) (\$20,114,816)(\$15,352,462) (351)**TOTAL** (\$577,962,729) (\$282,894,171) (\$163,852,995) (2,749)

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



The Impact of Mortality Losses Associated with **Breast Cancer Deaths in 2017 on Business Activity in Texas** Total **Gross Personal Employment Expenditures Product Income** (Permanent Category (2017 Dollars) (2017 Dollars) (2017 Dollars) Jobs) Agriculture (\$35,610,796)(\$10,601,809)(\$6,411,091)(119)Mining (\$255,512,206) (\$122,794,694)(\$41,993,219)(172)Construction (\$102,242,610) (\$49,836,443) (\$37,578,819) (589)Nondurable (\$338,634,697) (\$93,610,397)(\$49,372,735) (525)Manufacturing **Durable Manufacturing** (\$162,915,178) (\$67,766,269)(\$45,619,613)(452)Transportation and (\$257,658,459) (\$89,550,058) (\$50,022,696) (531)Utilities Information (\$71,913,146) (\$47,904,782) (\$21,120,813)(194)Wholesale Trade (\$98,407,247)(\$76,765,487)(\$43,098,278) (507)Retail Trade (including (\$403,601,273) (\$312,406,877)(\$180,103,871)(5,731)Restaurants) **FIRE** (588)(\$576,027,583) (\$171,206,138) (\$60.993.507)**Business Services** (\$176,244,661) (\$127,858,340) (\$103,518,023) (1,228)**Health Services** (\$114,153,561) (\$91,778,250) (\$73,387,311)(1,306)Other Services (\$182,924,267) (\$96,607,658) (\$73,734,970)(1,746)**TOTAL** (\$2,775,845,682) (\$1,358,687,201) (\$786,954,946) (13,686)

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



The Total Impact of Losses (Treatment, Morbidity, and Mortality) Associated with Breast Cancer Deaths in 2017 on Business Activity in Texas

Diea	breast Ganicer Death's in 2017 on business Activity in Texas						
Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)			
Agriculture	(\$65,155,757)	(\$18,875,849)	(\$11,736,896)	(204)			
Mining	(\$344,739,938)	(\$156,592,495)	(\$54,958,359)	(228)			
Construction	(\$153,990,234)	(\$75,740,279)	(\$58,198,640)	(885)			
Nondurable Manufacturing	(\$541,698,388)	(\$150,465,597)	(\$79,098,537)	(931)			
Durable Manufacturing	(\$242,986,143)	(\$100,303,339)	(\$67,146,959)	(696)			
Transportation and Utilities	(\$451,572,934)	(\$156,412,490)	(\$89,380,010)	(977)			
Information	(\$116,228,359)	(\$75,868,603)	(\$33,288,226)	(304)			
Wholesale Trade	(\$157,973,092)	(\$119,188,742)	(\$67,317,256)	(777)			
Retail Trade (including Restaurants)	(\$644,648,495)	(\$495,283,994)	(\$286,109,827)	(8,953)			
FIRE	(\$925,000,060)	(\$285,206,952)	(\$106,661,557)	(1,060)			
Business Services	(\$283,511,546)	(\$199,366,814)	(\$161,687,871)	(1,914)			
Health Services	(\$343,402,996)	(\$262,869,910)	(\$217,169,896)	(3,666)			
Other Services	(\$294,009,144)	(\$154,381,937)	(\$119,148,611)	(2,802)			
TOTAL	(\$4,564,917,086)	(\$2,250,556,999)	(\$1,351,902,645)	(23,399)			

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



(8,739)

The Impact of Direct Medical Expenses and Related Outlays Associated with Pancreatic Cancer Deaths in 2017 on Business Activity in Texas **Total Gross Personal Employment Expenditures Product** Income (Permanent Category (2017 Dollars) (2017 Dollars) (2017 Dollars) Jobs) Agriculture (\$27,771,334) (\$7,612,980) (\$5,008,219) (77)(\$10,328,478) Mining (\$45,210,359) (\$5,297,759)(27)Construction (\$38,223,562)(\$19,485,172)(\$16,056,999)(223)Nondurable (\$166,344,097)(\$46,888,494) (\$24,402,501) (378)Manufacturing **Durable Manufacturing** (\$57,913,658) (192)(\$23,124,420)(\$15,094,921)Transportation and (\$176,020,551) (\$60,507,430)(\$36,319,223) (427)Utilities (\$36,821,253) (\$22,574,949) (\$9,750,314)(89)Information Wholesale Trade (\$49,036,734)(\$33,179,205)(\$19,131,422)(211)Retail Trade (including (\$147,864,947) (2,599)(\$197,034,772) (\$85,968,249) Restaurants) (444)**FIRE** (\$287,417,564) (\$98,325,797)(\$41,372,046) **Business Services** (\$88,558,933)(\$56,328,401)(\$45,949,540) (552)**Health Services** (\$257,857,732)(\$190,722,078)(\$161,257,282) (2,633)Other Services (\$91,604,844) (\$47,258,708) (\$37,723,652) (886)

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

(\$1,519,815,394)

NOTE: Medical costs based on estimated costs per site for cancer cases over the diagnosis period as estimated by the National Institutes of Health (adjusted to reflect current dollars based on the Medical Services CPI for Texas areas as maintained by the US Bureau of Labor Statistics), (2) estimated deaths by cancer site in Texas for 2017 as compiled by the Texas Cancer Registry, and (3) estimated patterns following diagnosis based on patterns of incidence and death by site. Morbidity and mortality effects are estimated based on patterns relative to medical costs in Texas and approximate cost allocations over the disease cycle (which provides a reasonable proxy for morbidity and mortality patterns).

(\$764,201,060)

TOTAL

(\$503,332,128)



The Impact of Morbidity Losses Associated with Pancreatic Cancer Deaths in 2017 on Business Activity in Texas Total Personal **Gross Employment Expenditures Product Income** (Permanent Category (2017 Dollars) (2017 Dollars) (2017 Dollars) Jobs) Agriculture (\$4,073,439)(\$1,212,717)(\$733,350)(13)Mining (\$29,227,471)(\$14,046,211) (\$4,803,511)(19)Construction (\$11,695,304) (\$5,700,679)(\$4,298,557)(65)Nondurable (\$38,735,667) (\$10,707,884) (\$5,647,637)(58)Manufacturing **Durable Manufacturing** (\$18,635,503) (\$7,751,632)(\$5,218,326)(50)Transportation and (\$29,472,976) (\$10,243,431)(\$5,721,984)(59)Utilities Information (\$8,225,984)(\$5,479,721)(\$2,415,963)(21)Wholesale Trade (\$11,256,585)(\$8,781,033)(\$4,929,916)(56)Retail Trade (including (\$46,167,049) (\$35,735,525)(\$20,601,680)(632)Restaurants) **FIRE** (\$65,890,509)(\$19,583,888)(\$6,976,911)(65)**Business Services** (\$20,160,233) (\$14,625,430)(\$11,841,196)(135)**Health Services** (\$13,057,771)(\$10,498,309) (\$8,394,611)(144)Other Services (\$20,924,298)(\$11,050,734)(\$8,434,379)(193)**TOTAL** (1,510)(\$317,522,790)(\$155,417,195) (\$90,018,019)

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



The Impact of Mortality Losses Associated with Pancreatic Cancer Deaths in 2017 on Business Activity in Texas Total Personal **Gross Employment Expenditures Product Income** (Permanent Category (2017 Dollars) (2017 Dollars) (2017 Dollars) Jobs) Agriculture (\$50,436,091)(\$15,015,497)(\$9,080,121)(168)Mining (\$361,885,670)(\$173,915,919)(\$59,475,610)(244)Construction (\$144,807,702) (\$70,584,082) (\$53,223,430) (834)Nondurable (\$479,613,268) (\$132,581,773) (\$69,927,326) (743)Manufacturing (640)**Durable Manufacturing** (\$230,739,146)(\$95,978,356)(\$64,611,724)Transportation and (752)(\$364,925,439)(\$126,831,055) (\$70,847,875)Utilities Information (\$101,851,639) (\$67,848,243) (\$29,913,717)(275)Wholesale Trade (\$139,375,621) (\$108,724,080)(\$61,040,721) (719)Retail Trade (including (\$571,626,379) (\$442,466,424) (\$255,083,744) (8,116)Restaurants) **FIRE** (833)(\$815,836,280) (\$242,481,754)(\$86,385,995)**Business Services** (\$249,617,887) (\$181,087,635) (\$146,614,088) (1,739)**Health Services** (\$161,677,356) (\$129,986,876) (\$103,939,520) (1,849)Other Services (\$259,078,311) (\$136,826,837) (\$104,431,915) (2,472)**TOTAL** (\$3,931,470,789) (\$1,924,328,531) (\$1,114,575,786) (19,384)

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



The Total Impact of Losses (Treatment, Morbidity, and Mortality) Associated with Pancreatic Cancer Deaths in 2017 on Business Activity in Texas

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Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)
Agriculture	(\$82,280,864)	(\$23,841,194)	(\$14,821,690)	(258)
Mining	(\$436,323,500)	(\$198,290,608)	(\$69,576,880)	(290)
Construction	(\$194,726,568)	(\$95,769,933)	(\$73,578,986)	(1,122)
Nondurable Manufacturing	(\$684,693,032)	(\$190,178,151)	(\$99,977,464)	(1,179)
Durable Manufacturing	(\$307,288,308)	(\$126,854,409)	(\$84,924,971)	(883)
Transportation and Utilities	(\$570,418,966)	(\$197,581,916)	(\$112,889,082)	(1,237)
Information	(\$146,898,876)	(\$95,902,914)	(\$42,079,993)	(386)
Wholesale Trade	(\$199,668,941)	(\$150,684,318)	(\$85,102,059)	(986)
Retail Trade (including Restaurants)	(\$814,828,200)	(\$626,066,896)	(\$361,653,673)	(11,348)
FIRE	(\$1,169,144,354)	(\$360,391,438)	(\$134,734,952)	(1,341)
Business Services	(\$358,337,054)	(\$252,041,466)	(\$204,404,824)	(2,426)
Health Services	(\$432,592,859)	(\$331,207,264)	(\$273,591,413)	(4,626)
Other Services	(\$371,607,454)	(\$195,136,279)	(\$150,589,946)	(3,551)
TOTAL	(\$5,768,808,973)	(\$2,843,946,786)	(\$1,707,925,933)	(29,633)

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 2017)

Cotomony	Total Expenditures	Gross Product	Personal Income	Employment
Category	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Permanent Jobs)
Agriculture	\$454,705	\$126,341	\$83,388	1
Mining	\$336,041	\$78,531	\$43,751	0
Construction	\$459,493	\$243,005	\$200,255	2
Nondurable Manufacturing	\$2,795,196	\$817,733	\$433,087	5
Durable Manufacturing	\$748,325	\$317,444	\$202,507	1
Transportation and Utilities	\$2,188,294	\$886,941	\$518,122	5
Information	\$720,646	\$443,788	\$191,154	1
Wholesale Trade	\$860,298	\$582,405	\$335,820	3
Retail Trade (including Restaurants)	\$3,801,580	\$2,821,600	\$1,635,001	43
FIRE	\$3,790,344	\$974,880	\$388,130	3
Business Services	\$10,132,804	\$5,877,497	\$4,794,529	49
Health Services	\$864,981	\$605,058	\$511,583	7
Other Services	\$1,695,693	\$857,960	\$689,729	13
TOTAL	\$28,848,400	\$14,633,182	\$10,027,056	133
SOURCE: US Multi-Regio	nal Impact Assessment Syst	em, 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)

				<u> </u>
Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Person Years)
Agriculture	\$3,643,331	\$1,012,306	\$668,151	7
Mining	\$2,692,535	\$629,232	\$350,554	0
Construction	\$3,681,697	\$1,947,080	\$1,604,548	17
Nondurable Manufacturing	\$22,396,552	\$6,552,097	\$3,470,114	42
Durable Manufacturing	\$5,995,967	\$2,543,526	\$1,622,593	12
Transportation and Utilities	\$17,533,744	\$7,106,628	\$4,151,460	37
Information	\$5,774,188	\$3,555,856	\$1,531,628	10
Wholesale Trade	\$6,893,152	\$4,666,529	\$2,690,766	22
Retail Trade (including Restaurants)	\$30,460,224	\$22,608,115	\$13,100,473	343
FIRE	\$30,370,198	\$7,811,242	\$3,109,901	21
Business Services	\$81,189,263	\$47,093,546	\$38,416,241	395
Health Services	\$6,930,672	\$4,848,040	\$4,099,064	56
Other Services	\$13,586,766	\$6,874,417	\$5,526,465	104
TOTAL	\$231,148,291	\$117,248,614	\$80,341,959	1,065

NOTE: Assumes staffing level stabilizes in fiscal 2017 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 2017)

Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)
\$1,841,222	\$511,016	\$337,389	5
\$1,427,034	\$334,241	\$185,741	1
\$1,951,466	\$1,026,825	\$846,168	12
\$10,677,544	\$3,126,091	\$1,635,252	27
\$2,633,944	\$1,027,734	\$672,316	9
\$7,605,447	\$2,986,887	\$1,730,023	19
\$2,361,779	\$1,453,234	\$626,467	6
\$3,385,569	\$2,290,939	\$1,320,976	15
\$15,499,605	\$11,652,684	\$6,778,249	207
\$16,322,518	\$4,134,429	\$1,552,642	16
\$4,081,098	\$2,484,076	\$2,026,369	25
\$34,520,659	\$24,870,321	\$21,028,087	346
\$6,348,193	\$3,291,266	\$2,646,566	64
\$108,656,078	\$59,189,744	\$41,386,247	752
	\$1,841,222 \$1,841,222 \$1,427,034 \$1,951,466 \$10,677,544 \$2,633,944 \$7,605,447 \$2,361,779 \$3,385,569 \$15,499,605 \$16,322,518 \$4,081,098 \$34,520,659 \$6,348,193	Expenditures (2017 Dollars) \$1,841,222 \$511,016 \$1,427,034 \$334,241 \$1,951,466 \$1,026,825 \$10,677,544 \$3,126,091 \$2,633,944 \$1,027,734 \$7,605,447 \$2,986,887 \$2,361,779 \$1,453,234 \$3,385,569 \$2,290,939 \$15,499,605 \$11,652,684 \$16,322,518 \$4,134,429 \$4,081,098 \$2,484,076 \$34,520,659 \$24,870,321 \$6,348,193 \$3,291,266	Expenditures (2017 Dollars) Gross Product (2017 Dollars) Personal Income (2017 Dollars) \$1,841,222 \$511,016 \$337,389 \$1,427,034 \$334,241 \$185,741 \$1,951,466 \$1,026,825 \$846,168 \$10,677,544 \$3,126,091 \$1,635,252 \$2,633,944 \$1,027,734 \$672,316 \$7,605,447 \$2,986,887 \$1,730,023 \$2,361,779 \$1,453,234 \$626,467 \$3,385,569 \$2,290,939 \$1,320,976 \$15,499,605 \$11,652,684 \$6,778,249 \$16,322,518 \$4,134,429 \$1,552,642 \$4,081,098 \$2,484,076 \$2,026,369 \$34,520,659 \$24,870,321 \$21,028,087 \$6,348,193 \$3,291,266 \$2,646,566

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 2010-2017 with Outlays for Fiscal Year 2018 and Beyond Reflecting Budgeted and Stabilized Levels)

Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Person Years)
\$16,727,697	\$4,642,635	\$3,065,218	48
\$12,964,755	\$3,036,617	\$1,687,480	10
\$17,729,273	\$9,328,817	\$7,687,527	108
\$97,006,621	\$28,400,870	\$14,856,436	249
\$23,929,664	\$9,337,074	\$6,108,065	84
\$69,096,293	\$27,136,181	\$15,717,446	173
\$21,457,012	\$13,202,787	\$5,691,516	53
\$30,758,248	\$20,813,425	\$12,001,206	136
\$140,815,551	\$105,865,868	\$61,581,111	1,876
\$148,291,802	\$37,561,721	\$14,105,919	148
\$37,077,204	\$22,568,094	\$18,409,781	223
\$313,623,836	\$225,949,498	\$191,042,394	3,145
\$57,674,008	\$29,901,501	\$24,044,329	577
\$987,151,964	\$537,745,089	\$375,998,429	6,831
	Expenditures (2017 Dollars) \$16,727,697 \$12,964,755 \$17,729,273 \$97,006,621 \$23,929,664 \$69,096,293 \$21,457,012 \$30,758,248 \$140,815,551 \$148,291,802 \$37,077,204 \$313,623,836 \$57,674,008 \$987,151,964	Expenditures (2017 Dollars) Gross Product (2017 Dollars) \$16,727,697 \$4,642,635 \$12,964,755 \$3,036,617 \$17,729,273 \$9,328,817 \$97,006,621 \$28,400,870 \$23,929,664 \$9,337,074 \$69,096,293 \$27,136,181 \$21,457,012 \$13,202,787 \$30,758,248 \$20,813,425 \$140,815,551 \$105,865,868 \$148,291,802 \$37,561,721 \$37,077,204 \$22,568,094 \$313,623,836 \$225,949,498 \$57,674,008 \$29,901,501 \$987,151,964 \$537,745,089	Expenditures (2017 Dollars) Gross Product (2017 Dollars) Personal Income (2017 Dollars) \$16,727,697 \$4,642,635 \$3,065,218 \$12,964,755 \$3,036,617 \$1,687,480 \$17,729,273 \$9,328,817 \$7,687,527 \$97,006,621 \$28,400,870 \$14,856,436 \$23,929,664 \$9,337,074 \$6,108,065 \$69,096,293 \$27,136,181 \$15,717,446 \$21,457,012 \$13,202,787 \$5,691,516 \$30,758,248 \$20,813,425 \$12,001,206 \$140,815,551 \$105,865,868 \$61,581,111 \$148,291,802 \$37,561,721 \$14,105,919 \$37,077,204 \$22,568,094 \$18,409,781 \$313,623,836 \$225,949,498 \$191,042,394 \$57,674,008 \$29,901,501 \$24,044,329

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 Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Based on Outlays for Fiscal Year 2017)

Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)
Agriculture	\$19,982,538	\$5,977,440	\$3,955,986	62
Mining	\$17,380,380	\$4,025,507	\$2,212,965	13
Construction	\$31,580,301	\$16,944,271	\$13,963,135	195
Nondurable Manufacturing	\$114,357,041	\$33,167,615	\$17,599,048	298
Durable Manufacturing	\$29,824,312	\$11,694,709	\$7,529,195	106
Transportation and Utilities	\$95,411,120	\$37,735,203	\$21,997,931	246
Information	\$26,353,405	\$16,194,369	\$6,981,038	65
Wholesale Trade	\$36,259,709	\$24,539,183	\$14,149,511	160
Retail Trade (including Restaurants)	\$166,409,810	\$124,906,095	\$72,622,965	2,218
FIRE	\$195,281,318	\$52,873,882	\$17,630,153	181
Business Services	\$43,975,727	\$27,061,863	\$22,075,546	268
Health Services	\$38,563,705	\$26,990,627	\$22,820,825	376
Other Services	\$401,120,370	\$249,525,481	\$214,043,323	5,067
TOTAL	\$1,216,499,735	\$631,636,246	\$437,581,623	9,254

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



The Cumulative Ten-Year Impact of Outlays for Research Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Based on Reported Outlays for Fiscal Year 2010-2017 with Outlays for Fiscal Year 2018 and Beyond Reflecting Budgeted and Stabilized Levels)

Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Person Years)
Agriculture	\$175,064,641	\$52,367,642	\$34,657,927	546
Mining	\$152,267,442	\$35,266,990	\$19,387,522	112
Construction	\$276,671,263	\$148,446,748	\$122,329,366	1,713
Nondurable Manufacturing	\$1,001,868,450	\$290,577,537	\$154,183,172	2,615
Durable Manufacturing	\$261,287,258	\$102,455,961	\$65,962,382	925
Transportation and Utilities	\$835,885,488	\$330,593,629	\$192,721,263	2,152
Information	\$230,879,048	\$141,876,944	\$61,160,045	572
Wholesale Trade	\$317,667,005	\$214,984,864	\$123,962,189	1,403
Retail Trade (including Restaurants)	\$1,457,896,577	\$1,094,287,464	\$636,241,173	19,430
FIRE	\$1,710,836,433	\$463,221,799	\$154,455,676	1,587
Business Services	\$385,266,120	\$237,085,764	\$193,401,237	2,345
Health Services	\$337,852,037	\$236,461,679	\$199,930,538	3,291
Other Services	\$3,514,167,909	\$2,186,063,099	\$1,875,208,127	44,387
TOTAL	\$10,657,609,670	\$5,533,690,120	\$3,833,600,617	81,077
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NOTE: Assumes percentage leveraging of external funds based on 2010-2017 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 2017)

Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)	
Agriculture	\$22,278,465	\$6,614,797	\$4,376,764	68	
Mining	\$19,143,455	\$4,438,280	\$2,442,457	14	
Construction	\$33,991,260	\$18,214,101	\$15,009,558	209	
Nondurable Manufacturing	\$127,829,781	\$37,111,439	\$19,667,387	331	
Durable Manufacturing	\$33,206,582	\$13,039,888	\$8,404,019	116	
Transportation and Utilities	\$105,204,861	\$41,609,030	\$24,246,077	269	
Information	\$29,435,830	\$18,091,391	\$7,798,659	72	
Wholesale Trade	\$40,505,576	\$27,412,527	\$15,806,308	178	
Retail Trade (including Restaurants)	\$185,710,995	\$139,380,379	\$81,036,216	2,467	
FIRE	\$215,394,181	\$57,983,190	\$19,570,926	200	
Business Services	\$58,189,629	\$35,423,436	\$28,896,444	342	
Health Services	\$73,949,344	\$52,466,007	\$44,360,495	729	
Other Services	\$409,164,256	\$253,674,707	\$217,379,618	5,143	
TOTAL	\$1,354,004,213	\$705,459,172	\$488,994,926	10,139	
SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group					



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 2010-2017 and Future Budgeted and Stabilized Levels)

Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Person Years)
Agriculture	\$195,435,669	\$58,022,583	\$38,391,296	600
Mining	\$167,924,732	\$38,932,839	\$21,425,556	122
Construction	\$298,082,233	\$159,722,645	\$131,621,441	1,837
Nondurable Manufacturing	\$1,121,271,623	\$325,530,503	\$172,509,723	2,905
Durable Manufacturing	\$291,212,888	\$114,336,560	\$73,693,040	1,021
Transportation and Utilities	\$922,515,526	\$364,836,439	\$212,590,170	2,362
Information	\$258,110,248	\$158,635,586	\$68,383,190	635
Wholesale Trade	\$355,318,406	\$240,464,818	\$138,654,161	1,561
Retail Trade (including Restaurants)	\$1,629,172,352	\$1,222,761,448	\$710,922,757	21,649
FIRE	\$1,889,498,433	\$508,594,762	\$171,671,496	1,756
Business Services	\$503,532,587	\$306,747,405	\$250,227,259	2,963
Health Services	\$658,406,545	\$467,259,217	\$395,071,997	6,492
Other Services	\$3,585,428,683	\$2,222,839,018	\$1,904,778,920	45,069
TOTAL	\$11,875,909,926	\$6,188,683,824	\$4,289,941,005	88,972

NOTE: Includes effects of leveraged external funds for prevention and research and assumes stabilized funding based on 2010-2017 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 2017)

Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)
Agriculture	\$9,728,670	\$2,817,936	\$1,752,490	30
Mining	\$51,358,537	\$23,317,140	\$8,185,389	34
Construction	\$22,961,654	\$11,294,497	\$8,679,900	132
Nondurable Manufacturing	\$80,809,595	\$22,446,968	\$11,799,907	139
Durable Manufacturing	\$36,229,195	\$14,954,320	\$10,010,565	104
Transportation and Utilities	\$67,407,426	\$23,347,559	\$13,343,665	146
Information	\$17,340,027	\$11,317,118	\$4,965,340	45
Wholesale Trade	\$23,566,743	\$17,776,463	\$10,040,512	116
Retail Trade (including Restaurants)	\$96,166,455	\$73,880,761	\$42,679,197	1,332
FIRE	\$137,993,694	\$42,558,912	\$15,921,406	158
Business Services	\$42,295,453	\$29,735,606	\$24,116,087	285
Health Services	\$51,402,001	\$39,339,873	\$32,504,834	548
Other Services	\$43,861,263	\$23,030,251	\$17,775,671	417
TOTAL	\$681,120,714	\$335,817,406	\$201,774,961	3,484

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 Associated with the Cancer Prevention and Research Institute of Texas (CPRIT) on Business Activity in Texas (Based on Reported Outlays for Fiscal Year 2010-2017 with Outlays for Future Fiscal Years Reflecting Budgeted and Stabilized Levels)

Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Person Years)
Agriculture	\$91,205,194	\$26,417,839	\$16,429,397	285
Mining	\$481,480,542	\$218,595,583	\$76,737,102	318
Construction	\$215,262,936	\$105,884,650	\$81,373,092	1,234
Nondurable Manufacturing	\$757,580,913	\$210,437,810	\$110,622,808	1,300
Durable Manufacturing	\$339,644,653	\$140,195,080	\$93,847,923	971
Transportation and Utilities	\$631,937,080	\$218,880,757	\$125,095,370	1,365
Information	\$162,560,810	\$106,096,719	\$46,549,508	425
Wholesale Trade	\$220,935,581	\$166,652,348	\$94,128,673	1,084
Retail Trade (including Restaurants)	\$901,549,758	\$692,623,865	\$400,112,693	12,485
FIRE	\$1,293,675,439	\$398,985,040	\$149,261,400	1,480
Business Services	\$396,515,140	\$278,767,977	\$226,085,617	2,669
Health Services	\$481,888,009	\$368,806,909	\$304,729,179	5,136
Other Services	\$411,194,436	\$215,906,028	\$166,644,927	3,909
TOTAL	\$6,385,430,491	\$3,148,250,605	\$1,891,617,689	32,659

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 2017 Based on Research Awards in Fiscal Years 2010-2017)

Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)
Agriculture	\$244,843,329	\$93,158,122	\$69,772,403	758
Mining	\$1,152,278,605	\$536,791,846	\$204,661,714	764
Construction	\$532,615,338	\$276,530,369	\$219,141,998	3,065
Nondurable Manufacturing	\$2,525,010,796	\$1,243,996,715	\$1,010,302,050	4,513
Durable Manufacturing	\$1,040,659,303	\$573,692,418	\$465,180,841	3,256
Transportation and Utilities	\$1,607,721,199	\$640,641,538	\$421,063,879	3,541
Information	\$421,179,563	\$288,981,431	\$149,564,859	1,093
Wholesale Trade	\$593,421,409	\$466,329,274	\$296,531,193	2,874
Retail Trade (including Restaurants)	\$2,317,386,162	\$1,828,232,576	\$1,143,382,620	31,992
FIRE	\$3,243,795,107	\$1,149,076,206	\$564,403,755	3,692
Business Services	\$1,008,854,157	\$733,175,321	\$609,831,275	6,728
Health Services	\$1,174,809,797	\$910,055,512	\$760,031,736	12,478
Other Services	\$1,575,968,667	\$1,118,744,223	\$1,003,410,293	10,052
TOTAL	\$17,438,543,432	\$9,859,405,552	\$6,917,278,617	84,807

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 (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)
Agriculture	\$317,272,742	\$120,716,105	\$90,412,435	983
Mining	\$1,493,145,000	\$695,585,302	\$265,204,625	990
Construction	\$690,173,301	\$358,333,425	\$283,968,458	3,971
Nondurable Manufacturing	\$3,271,958,040	\$1,611,995,109	\$1,309,169,023	5,848
Durable Manufacturing	\$1,348,506,541	\$743,401,780	\$602,790,371	4,220
Transportation and Utilities	\$2,083,316,362	\$830,155,751	\$545,622,754	4,589
Information	\$545,772,659	\$374,467,752	\$193,809,050	1,416
Wholesale Trade	\$768,966,990	\$604,278,532	\$384,250,880	3,724
Retail Trade (including Restaurants)	\$3,002,914,007	\$2,369,059,288	\$1,481,617,410	41,456
FIRE	\$4,203,372,714	\$1,488,995,270	\$731,365,349	4,784
Business Services	\$1,307,292,816	\$950,062,824	\$790,231,213	8,719
Health Services	\$1,522,341,357	\$1,179,267,612	\$984,863,888	16,169
Other Services	\$2,042,170,813	\$1,449,690,497	\$1,300,238,551	13,025
TOTAL	\$22,597,203,344	\$12,776,009,245	\$8,963,544,009	109,894

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)

	Total Expenditures	Gross Product	Personal Income	Employment
Category	(2017 Dollars)	(2017 Dollars)	(2017 Dollars)	(Person Years)
Agriculture	\$2,107,498,976	\$801,862,351	\$600,568,816	6,527
Mining	\$9,918,285,257	\$4,620,457,789	\$1,761,634,082	6,579
Construction	\$4,584,508,320	\$2,380,246,474	\$1,886,273,721	26,379
Nondurable Manufacturing	\$21,734,133,783	\$10,707,752,644	\$8,696,216,255	38,845
Durable Manufacturing	\$8,957,517,553	\$4,938,080,969	\$4,004,063,132	28,030
Transportation and Utilities	\$13,838,526,031	\$5,514,348,266	\$3,624,324,575	30,483
Information	\$3,625,320,328	\$2,487,419,493	\$1,287,385,648	9,406
Wholesale Trade	\$5,107,899,074	\$4,013,948,314	\$2,552,404,382	24,738
Retail Trade (including Restaurants)	\$19,946,996,253	\$15,736,586,737	\$9,841,712,705	275,374
FIRE	\$27,921,099,165	\$9,890,720,481	\$4,858,128,421	31,778
Business Services	\$8,683,753,457	\$6,310,836,589	\$5,249,147,661	57,914
Health Services	\$10,112,223,419	\$7,833,340,073	\$6,542,004,281	107,402
Other Services	\$13,565,214,810	\$9,629,636,696	\$8,636,895,174	86,522
TOTAL	\$150,102,976,427	\$84,865,236,876	\$59,540,758,852	729,977

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 2017)

Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)
Agriculture	\$276,850,464	\$102,590,855	\$75,901,657	857
Mining	\$1,222,780,597	\$564,547,266	\$215,289,560	812
Construction	\$589,568,251	\$306,038,968	\$242,831,457	3,406
Nondurable Manufacturing	\$2,733,650,172	\$1,303,555,121	\$1,041,769,344	4,983
Durable Manufacturing	\$1,110,095,081	\$601,686,626	\$483,595,424	3,476
Transportation and Utilities	\$1,780,333,487	\$705,598,128	\$458,653,621	3,956
Information	\$467,955,419	\$318,389,940	\$162,328,858	1,210
Wholesale Trade	\$657,493,728	\$511,518,263	\$322,378,012	3,167
Retail Trade (including Restaurants)	\$2,599,263,612	\$2,041,493,716	\$1,267,098,032	35,791
FIRE	\$3,597,182,981	\$1,249,618,309	\$599,896,086	4,050
Business Services	\$1,109,339,239	\$798,334,363	\$662,843,806	7,354
Health Services	\$1,300,161,142	\$1,001,861,392	\$836,897,065	13,754
Other Services	\$2,028,994,186	\$1,395,449,182	\$1,238,565,582	15,612
TOTAL	\$19,473,668,359	\$10,900,682,129	\$7,608,048,505	98,430
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 (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)			
Agriculture	\$349,279,877	\$130,148,838	\$96,541,689	1,081			
Mining	\$1,563,646,993	\$723,340,722	\$275,832,471	1,038			
Construction	\$747,126,215	\$387,842,024	\$307,657,917	4,312			
Nondurable Manufacturing	\$3,480,597,416	\$1,671,553,516	\$1,340,636,317	6,318			
Durable Manufacturing	\$1,417,942,319	\$771,395,988	\$621,204,954	4,440			
Transportation and Utilities	\$2,255,928,649	\$895,112,340	\$583,212,496	5,004			
Information	\$592,548,516	\$403,876,261	\$206,573,049	1,534			
Wholesale Trade	\$833,039,309	\$649,467,521	\$410,097,700	4,018			
Retail Trade (including Restaurants)	\$3,284,791,457	\$2,582,320,428	\$1,605,332,823	45,255			
FIRE	\$4,556,760,589	\$1,589,537,373	\$766,857,681	5,142			
Business Services	\$1,407,777,897	\$1,015,221,866	\$843,243,744	9,345			
Health Services	\$1,647,692,702	\$1,271,073,491	\$1,061,729,217	17,445			
Other Services	\$2,495,196,332	\$1,726,395,456	\$1,535,393,839	18,585			
TOTAL	\$24,632,328,272	\$13,817,285,823	\$9,654,313,896	123,517			
SOURCE: US Multi-Region	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 (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Person Years)		
Agriculture	\$2,401,872,988	\$888,627,931	\$656,928,590	7,448		
Mining	\$10,574,470,859	\$4,879,555,524	\$1,860,658,839	7,027		
Construction	\$5,110,365,107	\$2,652,572,728	\$2,104,805,093	29,562		
Nondurable Manufacturing	\$23,657,181,903	\$11,256,530,501	\$8,986,152,134	43,221		
Durable Manufacturing	\$9,599,940,158	\$5,197,146,175	\$4,174,520,171	30,082		
Transportation and Utilities	\$15,430,223,194	\$6,112,799,036	\$3,970,602,055	34,352		
Information	\$4,056,194,456	\$2,758,421,038	\$1,405,020,892	10,503		
Wholesale Trade	\$5,698,169,295	\$4,430,551,186	\$2,790,656,758	27,474		
Retail Trade (including Restaurants)	\$22,542,071,214	\$17,700,273,355	\$10,980,831,295	310,778		
FIRE	\$31,180,374,725	\$10,818,988,784	\$5,185,905,133	35,117		
Business Services	\$9,599,779,822	\$6,906,232,837	\$5,733,520,793	63,702		
Health Services	\$11,259,012,882	\$8,673,758,878	\$7,245,485,687	119,210		
Other Services	\$17,726,243,019	\$12,170,854,749	\$10,796,273,841	138,440		
TOTAL	\$168,835,899,622	\$94,446,312,723	\$65,891,361,281	856,916		
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 2017)

Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)	
Agriculture	\$254,571,999	\$95,976,059	\$71,524,893	789	
Mining	\$1,203,637,142	\$560,108,987	\$212,847,103	798	
Construction	\$555,576,991	\$287,824,867	\$227,821,898	3,196	
Nondurable Manufacturing	\$2,605,820,391	\$1,266,443,682	\$1,022,101,957	4,652	
Durable Manufacturing	\$1,076,888,499	\$588,646,738	\$475,191,406	3,360	
Transportation and Utilities	\$1,675,128,625	\$663,989,098	\$434,407,544	3,687	
Information	\$438,519,590	\$300,298,549	\$154,530,199	1,138	
Wholesale Trade	\$616,988,153	\$484,105,736	\$306,571,705	2,990	
Retail Trade (including Restaurants)	\$2,413,552,617	\$1,902,113,337	\$1,186,061,817	33,324	
FIRE	\$3,381,788,800	\$1,191,635,118	\$580,325,161	3,850	
Business Services	\$1,051,149,610	\$762,910,927	\$633,947,362	7,013	
Health Services	\$1,226,211,798	\$949,395,385	\$792,536,570	13,025	
Other Services	\$1,619,829,930	\$1,141,774,474	\$1,021,185,964	10,469	
TOTAL	\$18,119,664,146	\$10,195,222,957	\$7,119,053,579	88,290	
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 (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)	
Agriculture	\$327,001,412	\$123,534,041	\$92,164,925	1,013	
Mining	\$1,544,503,538	\$718,902,442	\$273,390,014	1,024	
Construction	\$713,134,955	\$369,627,922	\$292,648,359	4,103	
Nondurable Manufacturing	\$3,352,767,636	\$1,634,442,077	\$1,320,968,930	5,987	
Durable Manufacturing	\$1,384,735,737	\$758,356,100	\$612,800,935	4,323	
Transportation and Utilities	\$2,150,723,788	\$853,503,310	\$558,966,420	4,735	
Information	\$563,112,686	\$385,784,870	\$198,774,390	1,461	
Wholesale Trade	\$792,533,734	\$622,054,995	\$394,291,392	3,840	
Retail Trade (including Restaurants)	\$3,099,080,462	\$2,442,940,048	\$1,524,296,607	42,788	
FIRE	\$4,341,366,408	\$1,531,554,182	\$747,286,755	4,942	
Business Services	\$1,349,588,269	\$979,798,430	\$814,347,300	9,003	
Health Services	\$1,573,743,358	\$1,218,607,485	\$1,017,368,722	16,717	
Other Services	\$2,086,032,077	\$1,472,720,749	\$1,318,014,222	13,442	
TOTAL	\$23,278,324,058	\$13,111,826,651	\$9,165,318,970	113,378	
SOURCE: US Multi-Regional Impact Assessment System, The Perryman Group					



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 (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Person Years)		
Agriculture	\$2,198,704,170	\$828,280,190	\$616,998,213	6,812		
Mining	\$10,399,765,799	\$4,839,053,371	\$1,838,371,184	6,897		
Construction	\$4,799,771,256	\$2,486,131,124	\$1,967,646,812	27,613		
Nondurable Manufacturing	\$22,491,714,696	\$10,918,190,454	\$8,806,839,062	40,145		
Durable Manufacturing	\$9,297,162,206	\$5,078,276,050	\$4,097,911,055	29,001		
Transportation and Utilities	\$14,470,463,111	\$5,733,229,023	\$3,749,419,945	31,849		
Information	\$3,787,881,138	\$2,593,516,211	\$1,333,935,155	9,831		
Wholesale Trade	\$5,328,834,654	\$4,180,600,662	\$2,646,533,054	25,822		
Retail Trade (including Restaurants)	\$20,848,546,011	\$16,429,210,602	\$10,241,825,398	287,859		
FIRE	\$29,214,774,604	\$10,289,705,522	\$5,007,389,821	33,257		
Business Services	\$9,080,268,597	\$6,589,604,565	\$5,475,233,279	60,582		
Health Services	\$10,594,111,427	\$8,202,146,982	\$6,846,733,460	112,538		
Other Services	\$13,976,409,247	\$9,845,542,725	\$8,803,540,101	90,431		
TOTAL	\$156,488,406,918	\$88,013,487,481	\$61,432,376,542	762,636		
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) (as of 2045)



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 2045)

Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)
Agriculture	\$470,398,250	\$136,252,165	\$84,735,958	1,469
Mining	\$2,483,275,278	\$1,127,424,597	\$395,777,881	1,640
Construction	\$1,110,236,199	\$546,108,744	\$419,688,377	6,363
Nondurable Manufacturing	\$3,907,285,524	\$1,085,350,218	\$570,546,179	6,707
Durable Manufacturing	\$1,751,745,077	\$723,067,593	\$484,028,340	5,007
Transportation and Utilities	\$3,259,267,180	\$1,128,895,408	\$645,189,601	7,041
Information	\$838,420,674	\$547,202,504	\$240,082,894	2,190
Wholesale Trade	\$1,139,493,328	\$859,523,116	\$485,476,330	5,591
Retail Trade (including Restaurants)	\$4,649,816,620	\$3,572,264,237	\$2,063,613,943	64,392
FIRE	\$6,672,236,890	\$2,057,797,979	\$769,827,879	7,631
Business Services	\$2,045,059,266	\$1,437,768,642	\$1,166,055,064	13,765
Health Services	\$2,485,376,820	\$1,902,151,799	\$1,571,665,666	26,488
Other Services	\$2,120,768,939	\$1,113,553,001	\$859,484,842	20,160
TOTAL	\$32,933,380,045	\$16,237,360,002	\$9,756,172,954	168,444

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 2045)

Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)
Agriculture	\$4,501,336,118	\$1,312,429,125	\$805,256,791	13,953
Mining	\$20,423,730,199	\$9,250,931,843	\$3,276,640,187	13,745
Construction	\$9,376,778,617	\$4,631,656,688	\$3,555,909,511	53,964
Nondurable Manufacturing	\$59,052,553,827	\$15,492,971,938	\$8,020,558,905	96,794
Durable Manufacturing	\$18,302,144,017	\$7,373,377,641	\$4,934,361,091	51,323
Transportation and Utilities	\$32,813,618,568	\$10,971,436,225	\$6,175,104,281	65,322
Information	\$7,173,174,603	\$4,682,746,063	\$2,053,689,974	18,693
Wholesale Trade	\$9,582,165,309	\$7,227,855,027	\$4,082,441,144	47,014
Retail Trade (including Restaurants)	\$39,324,288,206	\$30,183,781,290	\$17,431,418,514	544,775
FIRE	\$55,707,619,120	\$17,423,390,160	\$6,676,035,071	66,064
Business Services	\$17,298,636,840	\$12,161,719,712	\$9,863,363,581	116,435
Health Services	\$20,671,290,126	\$15,820,511,155	\$13,071,803,320	220,304
Other Services	\$18,452,960,694	\$9,650,832,215	\$7,470,660,416	175,711
TOTAL	\$312,680,296,245	\$146,183,639,081	\$87,417,242,787	1,484,094

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 2045)

Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)
Agriculture	\$635,609,691	\$178,706,503	\$117,861,320	1,733
Mining	\$545,129,454	\$129,614,216	\$72,055,645	407
Construction	\$612,829,505	\$327,041,476	\$269,502,548	3,524
Nondurable Manufacturing	\$13,245,528,753	\$5,425,651,973	\$2,639,025,097	25,055
Durable Manufacturing	\$8,202,055,955	\$3,414,490,527	\$2,523,888,531	30,496
Transportation and Utilities	\$2,798,847,276	\$1,122,046,220	\$655,193,576	6,899
Information	\$848,762,675	\$517,267,355	\$222,745,623	1,905
Wholesale Trade	\$1,684,887,897	\$1,139,136,219	\$656,836,092	6,810
Retail Trade (including Restaurants)	\$4,494,332,680	\$3,335,995,509	\$1,933,117,523	55,754
FIRE	\$4,624,518,512	\$1,217,385,180	\$474,938,823	4,516
Business Services	\$1,619,964,124	\$978,133,631	\$797,906,402	9,001
Health Services	\$1,021,085,513	\$713,930,080	\$603,634,494	9,244
Other Services	\$1,957,818,265	\$1,013,035,956	\$815,066,448	18,072
TOTAL	\$42,291,370,298	\$19,512,434,845	\$11,781,772,121	173,415

^{*}This scenario assumes that Texas achieves a concentration in the biomedical industry (pharmaceuticals and medical equipment) by 2045 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 2045)

Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Permanent Jobs)
Agriculture	\$894,095,415	\$252,026,728	\$166,124,921	2,441
Mining	\$757,303,553	\$180,222,458	\$100,079,595	565
Construction	\$845,139,276	\$451,035,499	\$371,681,343	4,859
Nondurable Manufacturing	\$19,760,526,442	\$8,180,967,687	\$3,968,276,949	36,741
Durable Manufacturing	\$9,837,435,604	\$4,097,529,393	\$3,017,247,331	36,556
Transportation and Utilities	\$3,851,277,966	\$1,545,415,397	\$902,821,843	9,514
Information	\$1,188,146,314	\$723,347,554	\$311,436,314	2,661
Wholesale Trade	\$2,312,064,365	\$1,563,264,924	\$901,392,481	9,346
Retail Trade (including Restaurants)	\$6,175,436,847	\$4,580,060,388	\$2,653,400,788	76,619
FIRE	\$6,385,181,980	\$1,691,281,767	\$657,900,848	6,249
Business Services	\$2,290,022,992	\$1,381,653,505	\$1,127,075,220	12,714
Health Services	\$1,398,009,559	\$977,541,373	\$826,520,286	12,657
Other Services	\$2,695,301,053	\$1,395,403,376	\$1,122,966,048	24,886
TOTAL	\$58,389,941,366	\$27,019,750,051	\$16,126,923,967	235,809

^{*}This scenario assumes that Texas achieves a concentration in the biomedical industry (pharmaceuticals and medical equipment) by 2045 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 (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Person Years)
Agriculture	(\$2,901,095,964)	(\$1,076,356,974)	(\$796,800,797)	(8,982)
Mining	(\$12,851,805,598)	(\$5,936,164,435)	(\$2,263,727,156)	(8,536)
Construction	(\$6,184,112,558)	(\$3,210,140,661)	(\$2,546,987,710)	(35,717)
Nondurable Manufacturing	(\$28,703,884,391)	(\$13,709,219,445)	(\$10,964,807,745)	(52,270)
Durable Manufacturing	(\$11,664,504,635)	(\$6,327,540,998)	(\$5,087,866,125)	(36,527)
Transportation and Utilities	(\$18,673,972,774)	(\$7,402,911,337)	(\$4,814,557,198)	(41,482)
Information	(\$4,907,637,825)	(\$3,340,393,067)	(\$1,704,283,247)	(12,696)
Wholesale Trade	(\$6,896,295,972)	(\$5,367,716,431)	(\$3,384,362,254)	(33,230)
Retail Trade (including Restaurants)	(\$27,247,582,715)	(\$21,404,989,779)	(\$13,290,162,461)	(375,236)
FIRE	(\$37,728,459,620)	(\$13,118,448,505)	(\$6,304,605,462)	(42,496)
Business Services	(\$11,639,722,608)	(\$8,380,384,004)	(\$6,958,683,269)	(77,188)
Health Services	(\$13,637,812,490)	(\$10,511,441,175)	(\$8,780,554,720)	(144,300)
Other Services	(\$21,143,384,644)	(\$14,560,331,391)	(\$12,929,037,992)	(161,562)
TOTAL	(\$204,180,271,796)	(\$114,346,038,203)	(\$79,826,436,135)	(1,030,221)

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 Sustainable Level of Prevention and Research Funding Is Extended for an Additional Ten Years)

Category	Total Expenditures (2017 Dollars)	Gross Product (2017 Dollars)	Personal Income (2017 Dollars)	Employment (Person Years)
Agriculture	(\$2,678,311,315)	(\$1,010,209,007)	(\$753,033,155)	(8,298)
Mining	(\$12,660,371,050)	(\$5,891,781,640)	(\$2,239,302,586)	(8,397)
Construction	(\$5,844,199,962)	(\$3,027,999,647)	(\$2,396,892,128)	(33,622)
Nondurable Manufacturing	(\$27,425,586,582)	(\$13,338,105,054)	(\$10,768,133,875)	(48,960)
Durable Manufacturing	(\$11,332,438,816)	(\$6,197,142,121)	(\$5,003,825,940)	(35,364)
Transportation and Utilities	(\$17,621,924,159)	(\$6,986,821,035)	(\$4,572,096,431)	(38,789)
Information	(\$4,613,279,529)	(\$3,159,479,157)	(\$1,626,296,655)	(11,972)
Wholesale Trade	(\$6,491,240,214)	(\$5,093,591,164)	(\$3,226,299,177)	(31,452)
Retail Trade (including Restaurants)	(\$25,390,472,765)	(\$20,011,185,986)	(\$12,479,800,304)	(350,564)
FIRE	(\$35,574,517,812)	(\$12,538,616,601)	(\$6,108,896,206)	(40,496)
Business Services	(\$11,057,826,322)	(\$8,026,149,643)	(\$6,669,718,828)	(73,773)
Health Services	(\$12,898,319,048)	(\$9,986,781,108)	(\$8,336,949,773)	(137,012)
Other Services	(\$17,051,742,087)	(\$12,023,584,319)	(\$10,755,241,816)	(110,131)
TOTAL	(\$190,640,229,662)	(\$107,291,446,480)	(\$74,936,486,874)	(928,829)

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