

## Economic Impacts in 2015

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## Table of Contents

Executive Summary ..... 5
Chapter I. Introduction and Goals ..... 6
Background ..... 6
Project Goals ..... 7
Data Requirements ..... 7
Methodology In Detail ..... 8
Chapter II. Economic Impacts Statewide ..... 11
Employment, Employee Income, and Economic Impacts-Statewide ..... 11
Fiscal Impacts-Statewide ..... 13
Chapter III. Economic Impacts by Counties ..... 16
Anderson - Brazos ..... 18
Brewster - Dallam ..... 19
Dallas - Gonzales ..... 20
Gray - Jefferson ..... 21
Jim Hogg - Mason ..... 22
Matagorda - Randall ..... 23
Reagan - Throckmorton ..... 24
Titus - Zavala ..... 25
Chapter IV. Economic Impacts by Texas Senate and Texas House Districts ..... 26
Employment, Employee Income, and Spending--Texas Senate Districts ..... 27
Employment, Employee Income, and Spending--Texas House Districts ..... 29
Districts 1-32 ..... 29
Districts 33-64 ..... 30
Districts 65-96 ..... 31
Districts 97-131 ..... 32
Districts 132-150 ..... 33
Tables
TABLE 1.1. DEFINITIONS OF TERMS, METHODOLOGY SECTION ..... 9
TABLE 2.1. STATEWIDE DIRECT EMPLOYMENT, BY FUNDING SOURCE, FY2015 ..... 11
TABLE 2.2. STATEWIDE DIRECT EMPLOYEE INCOME, BY FUNDING SOURCE, FY2015 ..... 12
TABLE 2.3. STATEWIDE DIRECT EXPENDITURES, BY FUNDING SOURCE, FY2015 ..... 12
TABLE 2.4. STATEWIDE DIRECT EXPENDITURES BY OBJECT/CATEGORY, FY2015 ..... 12
TABLE 2.5. STATEWIDE IMPACTS, EMPLOYMENT, EMPLOYEE INCOME, OUTPUT, FY2015 ..... 13
TABLE 2.6. TOTAL FISCAL IMPACTS, FY2015 ..... 14
TABLE 2.7. TOTAL FISCAL IMPACTS, BY SOURCE OF FUNDING, FY2015 ..... 14
TABLE 2.8. FISCAL IMPACTS, BY OBJECT/CATEGORY, FY2015 ..... 15
TABLE 3.1. COMPARISON OF STATEWIDE AND COUNTY ECONOMIC IMPACT TOTALS, FY2015 ..... 17
TABLE 3.2. DIRECT AND TOTAL IMPACTS, TEXAS COUNTIES, FY2015 ..... 18
TABLE 4.1. TOTAL IMPACTS, TEXAS SENATE DISTRICTS, FY2015 ..... 27
TABLE 4.2. TOTAL IMPACTS, TEXAS HOUSE DISTRICTS, FY2015 ..... 29
Appendix A ..... 34
TABLE A.1. TEXAS COUNTIES WITH TOTAL EXPENDITURES/IMPACTS ABOVE \$5 MILLION, FY2015 ..... 34
TABLE A.2. TEXAS SENATE DISTRICTS WITH TOTAL ECONOMIC IMPACT ABOVE \$25 MILLION AND TOTAL EMPLOYMENT ABOVE 1,000, FY2015 ..... 35
TABLE A.3. TEXAS HOUSE DISTRICTS WITH TOTAL ECONOMIC IMPACT ABOVE \$5 MILLION, FY2015 ..... 36
Appendix B ..... 38
Overview and Example of Economic Impact Analysis ..... 38
Appendix C ..... 40
Performing Organization ..... 40
Project Staff ..... 40

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## Executive Summary

This study analyzes the economic and fiscal impacts of expenditures by the Texas Military Department for federal FY2015, October 1, 2014 through September 2015. These impacts are analyzed and reported for Texas statewide, for different categories of expenditures, and for local Texas communities where the Texas Military Forces (Texas Army and Air National Guards, and Texas State Guard) have operating units and conduct state and federal mobilizations.

Texas Military Department officials requested that an objective and independent assessment determine the economic impacts of its normal operations, deployments related to emergencies, disasters, and other needs, as well as its facilities. Economic impacts also were determined by sources of funding and for different geographic and governmental entities. Significant data was required to achieve these objectives and for inputting into IMPLAN, a recognized economic modelling program. The analyses were performed with IMPLAN data files that are unique to the State of Texas, both for the state as a whole and for individual counties. This software model estimates economic impacts for direct, indirect (inter-industry), and induced (household) impacts of employment, wages, and output for selected geographical areas.

TMD's employment, employee income, and spending/expenditures were overwhelmingly (approximately 85\%) due to federal sources of funding, and economic impacts were substantial. Statewide in FY2015, full- and part-time employment due to Texas Military Department operations was 33,995 , with the large majority $(30,446)$ involving TMD employees. Total statewide salaries and wages were $\$ 740$ million, with more than $\$ 570$ million from TMD employee salaries and wages. Because TMD's salaries and wages and other spending sets off additional economic activities by rippling through the state, the total economic impact of TMD's FY2015 operations exceeded $\$ 850$ million.

Purchases by the Texas Military Department are exempt from direct taxation, although taxes for indirect and induced economic activities could be computed. According to IMPLAN, for FY2015, approximately $\$ 29$ million in state and sub-state tax revenue was generated by the indirect and induced spending associated with TMD operations.

In addition to determining statewide economic impacts and fiscal/tax revenues, economic impacts for each county in Texas were computed and are listed in the report, as are impacts for each Texas Senate district and each Texas House district.

Besides accomplishing their primary security missions in foreign deployments, as well as conducting deployments within the State of Texas, the Texas Military Department generates significant economic benefits as an enterprise.

## Chapter I. Introduction and Goals

## Background

This study analyzes the economic and fiscal impacts of expenditures by the Texas Military Department for the time period of October 1, 2014 through September 2015. These impacts are analyzed and reported for Texas statewide, for different categories of expenditures, and for local Texas communities where the Texas Military Forces (Texas Army and Air National Guards, and Texas State Guard) have operating units and conduct deployments.

The Texas Military Department (TMD) is a unique state agency in which civilian and military personnel work closely together in service to the governor and Texans. TMD features multiple staff directorates and components led by the Adjutant General of Texas. Agency personnel, including service members in the Texas Military Forces (TXMF), work under the TMD banner to respond to the governor's call for assistance related to emergencies, disasters and other needs in Texas.

There are more than 23,000 members of the TXMF, which is comprised of the Texas Army National Guard (TXARNG), the Texas Air National Guard (TXANG) and the Texas State Guard (TXSG), making it the largest state military force in the country. Traditional guard members account for much of the agency's workforce. These service members work regular civilian jobs and fulfill their military obligations one weekend every month in addition to two weeks a year. Because traditional guard members also serve when called, the TMD workforce is immediately scalable to meet the demands of the state and country.

TMD is a large organization comprised of more than 50 readiness centers (maintenance facilities, aviation support facilities), approximately 20 reserve centers, a number of major training centers, and multiple air wings and other units. These assets are distributed geographically throughout Texas, along with the large number of personnel, both full-time and part-time. ${ }^{1}$

[^0]Besides accomplishing its primary security missions in domestic and foreign deployments, the Texas Military Department generates significant economic benefits as an enterprise. The remainder of this report will describe these impacts in terms of economic benefits, employment, and fiscal/tax contributions.

## Project Goals

Texas Military Department officials identified a series of goals to be achieved:

1. Determine the economic impacts of TMD normal operations ("steady state").
2. Determine the economic impacts of TMD deployments that occur periodically and intermittently such as border patrol, flood relief, and wildfires, in the aggregate.
3. Determine the economic impacts of TMD facilities statewide.
4. Identify total economic impacts by source of funds, that is statewide economic impacts of federally appropriated funds and statewide economic impacts of state appropriated funds.
5. Identify state and local taxes for each of the above items.
6. Determine total economic impacts and employment impacts in each of the 31 Texas Senate Districts and 150 Texas State Representative Districts.

## Data Requirements

A significant amount of data was required to estimate the economic, employment, and fiscal impacts of a large and diverse set of entities that comprise the Texas Military Department. TMD provided all data. No primary or secondary data collection occurred by the performing organization.

To illustrate the data challenges, TMD personnel were required to provide expenditure data such as:

## Normal Operations

Major categories of expenditures (amounts by industry) for each county; Personnel expenditures for each zip code and each county;

## Deployments

Major categories of expenditures (amounts by industry) for each county; Personnel expenditures for each zip code and each county;

## Facilities

Major categories of expenditures (amounts by industry) for each county; Personnel expenditures, if any, for each zip code and each county.

In addition, different categories of personnel expenditures and number of personnel (both fulltime and part-time) were needed for each zip code and each county in the State of Texas. And statewide totals for personnel (number of full-time and part-time, total earnings, total fringe benefits etc.) were required by source of funds: federally appropriated funds/state appropriated funds. Likewise, statewide totals for non-personnel expenditures were necessary by source of funds. All of these data were then manipulated for inputting into an economic model.

## Methodology in Detail

IMPLAN, a recognized economic impact methodology, served as the primary model. The analyses were performed with 2014 IMPLAN data files that are unique to the State of Texas, both for the state as a whole and for individual counties. This software, as well as the accompanying annual multipliers, social accounting matrices, and trade flows, allow for economic analysis of military operations and related industries. Results are described in terms of direct, indirect, and induced impacts on employment, wages, and output. ${ }^{2}$ IMPLAN utilizes a 500+ industry matrix, allowing for detailed industry analysis. ${ }^{3}$ In addition, IMPLAN calculates fiscal impacts (taxes) for state and local areas.

[^1]Direct: Spending directly undertaken by the organization or business being studied (i.e., funds expended on TMD facilities). This is usually defined in terms of employment such as the number of jobs, or expenditures, for instance dollars spent on salaries or purchases of goods and services.

Local purchases by the organization or business being studied and the expenditures on salaries for employees or for purchases at TMD facilities set off rounds of additional economic activity, known as indirect impact.

Indirect Impact (Inter-Industry): That portion of direct spending for local purchases in the geographical area being studied will result in additional economic activity by other organizations or businesses (inter-industry purchases). The indirect impact captures the rippling impacts of spending throughout a geographical area's supply chain for the business or organization being studied.

Induced Impact (Household): Spending by households, not the main business or organization being studied or the inter-industry businesses in its supply chain, occurs through the income of employees in the geographic area. This is also known as labor income spending or salaries and wages.

Total Economic Impact: The sum of direct, indirect (inter-industry), and induced (household spending/labor income) effects is also known as Total Output. Total economic impacts (total outputs) can be estimated separately in geographical areas for employment, salaries and wages, and spending/expenditures.

Geographical Area: Could be a zip code, city, county, metro area, state, or nation.
Leakage: That portion of expenditures that occurs outside the geographical area being studied is known as leakage and does not generate further economic activity in the particular geographic area being studied. There is usually more leakage in smaller geographical units, that is, there would be greater leakage from a city than from the metropolitan area of that city, and more leakage from a county within a state than from all counties in that state. And there is usually greater leakage from a state or sub-national area, for example a county or metropolitan area, than from a national geographic area.

Employment: The number of employees, usually full- and part-time rather than full-time equivalent.

Savings: If an organization or business saves money, no or minimal additional economic activity occurs in the particular geographic area. This reduces direct spending, indirect spending, induced spending, and total output.

Multipliers: IMPLAN uses several multipliers to indicate the ratio of direct impacts to indirect and induced impacts. If the multiplier of direct spending is 0.25 , then $\$ 100$ dollars of direct spending would generate an additional $\$ 25$ in the total of indirect and induced impacts, resulting in $\$ 125$ of overall spending or total output. Similarly, if the multiplier of direct employment is 0.75 , then one direct employee would generate an additional part-time (three-quarters) employee, for a total employment impact of 1.75 employees.

## Chapter II. Economic Impacts Statewide

## Employment, Employee Income, and Economic Impacts--Statewide

Based on data provided by the TMD, direct employment, direct income, and direct spending statewide in FY2015 are shown in Tables 2.1., 2.2., and 2.3. Definitions for the key terms in the tables are shown below.

Direct Employment is the number of employees who receive salary, wages, and other compensation from TMD.

Direct Income (TMD Employee Salaries and Wages) is the amount of salary, wages, and other compensation received by employees of TMD. It is a category of expenditures and NOT revenues coming into TMD.

Direct Spending/Expenditures is the amount of spending by TMD for salary, wages, other compensation, fringe benefits, and all other operational and capital projects.

TABLE 2.1. STATEWIDE DIRECT EMPLOYMENT, BY FUNDING SOURCE, FY2015

| Employment-By Funding Source |  |
| :--- | ---: |
| Direct Employment—State | 4,845 |
| Direct Employment—Federal | 25,601 |
| Direct Employment—Total | 30,446 |

These are for full- and part-time employees, the large majority of whom are part-time. Direct employees-state are considered State of Texas employees while direct employees-federal are considered employees of a federal agency.

TABLE 2.2. STATEWIDE DIRECT EMPLOYEE INCOME, BY FUNDING SOURCE, FY2015

| Income (Salaries and Wages)--By Funding Source |  |
| :--- | ---: |
| Direct Income (TMD employee salaries and wages) <br> from State sources | $\$ 70,633,949$ |
| Direct Income (TMD employee salaries and wages) <br> from Federal sources | $\$ 499,535,990$ |
| Direct Income (TMD employee salaries and wages)-- <br> Total | $\$ 570,169,939$ |

Direct income is the amount of salary, wages, and other compensation received by employees of TMD, categorized by whether they are State of Texas employees or employees of a federal agency.

TABLE 2.3. STATEWIDE DIRECT EXPENDITURES, BY FUNDING SOURCE, FY2015

| Expenditures--By Funding Source |  |
| :--- | ---: |
| Direct Spending/Expenditures—State | $\$ 99,719394$ |
| Direct Spending/Expenditures-Federal | $\$ 565,019,065$ |
| Direct Spending/Expenditures-Total | $\$ 665,638,459$ |

Direct spending/expenditures is the amount of all outlays and actual expenditures by TMD for salary, wages, other compensation, fringe benefits, and for all other operational and capital projects, categorized by original funding source.

Total direct spending/expenditures statewide by object/category, from all funding sources, are shown in Table 2.4. below.

TABLE 2.4. STATEWIDE DIRECT EXPENDITURES BY OBJECT/CATEGORY, FY2015

| Direct Spending by Object/Category |  |
| :--- | ---: |
| Normal Operations | $\$ 497,834,535$ |
| Deployments | $\$ 130,742,983$ |
| Facilities | $\$ 37,060,941$ |
| Total | $\$ 665,638,459$ |

This direct spending in the State of Texas in FY2015 multiplies through other industries in the supply chain for military operations. These multiplier effects raise the total impacts and economic benefits to the following levels, as shown in Table 2.5. below.

TABLE 2.5. STATEWIDE IMPACTS, EMPLOYMENT, EMPLOYEE INCOME, OUTPUT, FY2015 ${ }^{4}$

| Impact <br> Type | Employment <br> (Total) | Employee Income <br> (salaries \& wages) | Spending/Output |
| :--- | :---: | :--- | ---: |
| Direct Effect | 30,446 | $\$ 570,169,939$ | $\$ 665,638,459$ |
| Indirect \& Induced Effects | 3,549 | $\$ 169,887,985$ | $\$ 184,629,341$ |
| Total Effect | 33,995 | $\$ 740,057,924$ | $\$ 850,267,800$ |

Please see for definitions of key terms in Table 1.1.

## Fiscal Impacts--Statewide

Fiscal benefits associated with TMD economic output accrue from a variety of taxes. Given the natural stratified tax environment (federal, state, local, special districts, and school districts), the amounts vary by level of government. Because federal and state spending for the most part is exempt from taxation, only the taxes for indirect and induced economic activities could be estimated. All amounts were computed using IMPLAN.

For FY2015, an estimated $\$ 28.98$ million in state and sub-state tax revenue was generated by the indirect/induced spending associated with TMD personnel and operations. These fiscal impacts benefited the State of Texas, its cities, school districts, transit districts, community colleges, and special districts. Please see tables 2.6., 2.7., and 2.8. for more details about fiscal impacts.

[^2]TABLE 2.6. TOTAL FISCAL IMPACTS, FY2015

| Tax Type | Total <br> Amount (\$) |
| :--- | ---: |
| Dividends | 67,285 |
| Social Ins Tax- Employee Contribution | 79,537 |
| Social Ins Tax- Employer Contribution | 155,344 |
| Tax on Production and Imports: Sales Tax | $13,443,859$ |
| Tax on Production and Imports: Property Tax | $11,053,075$ |
| Tax on Production and Imports: Motor Vehicle | 232,883 |
| Tax on Production and Imports: Severance Tax | 917,782 |
| Tax on Production and Imports: Other Taxes | $1,706,858$ |
| Tax on Production and Imports: S/L NonTaxes | 72,679 |
| Personal Tax: NonTaxes (Fines- Fees | 926,164 |
| Personal Tax: Motor Vehicle License | 179,583 |
| Personal Tax: Property Taxes | 81,639 |
| Personal Tax: Other Tax (Fish/Hunt) | 63,443 |
| Total State and Local Tax | $28,980,130$ |

TABLE 2.7. TOTAL FISCAL IMPACTS, BY SOURCE OF FUNDING, FY2015

| Tax Type | State <br> Funding | Federal <br> Funding | Total <br> Amount (\$) |
| :--- | ---: | ---: | ---: |
| Dividends | 8,838 | 58,447 | 67,285 |
| Social Ins Tax- Employee Contribution | 10,486 | 69,050 | 79,537 |
| Social Ins Tax- Employer Contribution | 20,480 | 134,864 | 155,344 |
| Tax on Production and Imports: Sales Tax | $1,756,425$ | $11,687,433$ | $13,443,859$ |
| Tax on Production and Imports: Property Tax | $1,444,073$ | $9,609,002$ | $11,053,075$ |
| Tax on Production and Imports: Motor Vehicle | 30,426 | 202,457 | 232,883 |
| Tax on Production and Imports: Severance Tax | 119,907 | 797,875 | 917,782 |
| Tax on Production and Imports: Other Taxes | 222,999 | $1,483,859$ | $1,706,858$ |
| Tax on Production and Imports: S/L NonTaxes | 9,496 | 63,183 | 72,679 |
| Personal Tax: NonTaxes (Fines- Fees | 122,295 | 803,869 | 926,164 |
| Personal Tax: Motor Vehicle License | 23,713 | 155,870 | 179,583 |
| Personal Tax: Property Taxes | 10,780 | 70,859 | 81,639 |
| Personal Tax: Other Tax (Fish/Hunt) | 8,377 | 55,065 | 63,443 |
| Total State and Local Tax | $3,788,295$ | $25,191,835$ | $28,980,130$ |

TABLE 2.8. FISCAL IMPACTS, BY OBJECT/CATEGORY, FY2015

|  | Normal <br> Operations | Deployments | Facilities | Total <br> Amount (\$) |
| :--- | ---: | ---: | ---: | ---: |
| Dividends | 52,752 | 13,453 | 1,080 | 67,285 |
| Social Ins Tax- Employee Contribution | 62,282 | 15,895 | 1,358 | 79,537 |
| Social Ins Tax- Employer Contribution | 121,645 | 31,046 | 2,653 | 155,344 |
| Tax on Production and Imports: Sales Tax | $10,558,627$ | $2,689,884$ | 195,348 | $13,443,859$ |
| Tax on Production and Imports: Property Tax | $8,680,937$ | $2,211,530$ | 160,609 | $11,053,075$ |
| Tax on Production and Imports: Motor Vehicle | 182,903 | 46,596 | 3,384 | 232,883 |
| Tax on Production and Imports: Severance Tax | 720,813 | 183,632 | 13,336 | 917,782 |
| Tax on Production and Imports: Other Taxes | $1,340,543$ | 341,512 | 24,801 | $1,706,858$ |
| Tax on Production and Imports: S/L NonTaxes | 57,081 | 14,541 | 1,057 | 72,679 |
| Personal Tax: NonTaxes (Fines- Fees | 724,868 | 185,062 | 16,234 | 926,164 |
| Personal Tax: Motor Vehicle License | 140,551 | 35,883 | 3,148 | 179,583 |
| Personal Tax: Property Taxes | 63,895 | 16,313 | 1,431 | 81,639 |
| Personal Tax: Other Tax (Fish/Hunt) | 49,654 | 12,677 | 1,112 | 63,443 |
| Total State and Local Tax | $22,756,555$ | $5,798,026$ | 425,550 | $28,980,130$ |

## Chapter III. Economic Impacts by Counties

In the previous chapter, the direct employment, direct income (TMD employee salaries and wages), and direct expenditures as well as the total expenditures/impacts due to TMD were calculated for the State of Texas. Calculations for direct employment/total employment, direct income/total income, and direct expenditures/total expenditures/impact were determined for each of the 254 counties in Texas. And then the totals for each county were summed. There are differences in the indirect/induced amounts and the total amounts based on the statewide calculations and the sum of county calculations. These differences between the statewide calculations and sum of the county calculations are shown in Table 3.1. on the next page.

The differences are due to leakage, which is greater for smaller geographical areas such as counties, than for the state. The larger statewide amounts should be used to describe impacts at that geographical area and the county amounts should be used when describing impacts at that level.

TABLE 3.1. COMPARISON OF STATEWIDE AND COUNTY ECONOMIC IMPACT TOTALS, FY2015


The direct and total impacts for each county are shown in Table 3.2., beginning on page 18.
A group of counties with the largest economic direct and total impacts are shown, rank ordered, in Table A.1. in appendix A.

TABLE 3.2 DIRECT AND TOTAL IMPACTS, TEXAS COUNTIES, FY2015

|  | TMD <br> Employees | Total <br> Employment | TMD Salaries <br> \& Wages | Total <br> Salaries and <br> Wages | TMD <br> Spending/ <br> Expenditures | All Spending/ <br> Expenditures |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| County |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Anderson | 30 | 32 | $\$ 560,418$ | $\$ 648,120$ | $\$ 601,985$ | $\$ 691,231$ |
| Andrews | 2 | 2 | $\$ 40,973$ | $\$ 44,100$ | $\$ 40,973$ | $\$ 44,100$ |
| Angelina | 29 | 31 | $\$ 539,450$ | $\$ 641,126$ | $\$ 564,749$ | $\$ 667,562$ |
| Aransas | 5 | 5 | $\$ 89,791$ | $\$ 98,244$ | $\$ 91,174$ | $\$ 99,674$ |
| Archer | 2 | 2 | $\$ 28,839$ | $\$ 30,331$ | $\$ 29,028$ | $\$ 30,522$ |
| Armstrong | 0 | 0 | $\$ 5,192$ | $\$ 5,364$ | $\$ 5,192$ | $\$ 5,364$ |
| Atascosa | 45 | 48 | $\$ 838,986$ | $\$ 924,771$ | $\$ 842,846$ | $\$ 929,206$ |
| Austin | 10 | 11 | $\$ 196,451$ | $\$ 219,511$ | $\$ 200,595$ | $\$ 224,430$ |
| Bailey | 0 | 0 | $\$ 8,094$ | $\$ 8,603$ | $\$ 8,094$ | $\$ 8,603$ |
| Bandera | 19 | 20 | $\$ 348,005$ | $\$ 374,238$ | $\$ 348,866$ | $\$ 375,124$ |
| Bastrop | 374 | 399 | $\$ 7,000,277$ | $\$ 7,700,690$ | $\$ 9,155,011$ | $\$ 9,902,000$ |
| Baylor | 0 | 0 | $\$ 1,874$ | $\$ 2,050$ | $\$ 1,874$ | $\$ 2,050$ |
| Bee | 3 | 3 | $\$ 47,319$ | $\$ 53,286$ | $\$ 58,895$ | $\$ 65,118$ |
| Bell | 900 | 963 | $\$ 16,860,680$ | $\$ 19,264,615$ | $\$ 18,171,778$ | $\$ 20,601,961$ |
| Bexar | 3891 | 4319 | $\$ 72,865,366$ | $\$ 91,764,014$ | $\$ 81,633,056$ | $\$ 101,332,912$ |
| Blanco | 22 | 23 | $\$ 403,027$ | $\$ 433,781$ | $\$ 408,453$ | $\$ 439,402$ |
| Borden | 0 | 0 | $\$ 0$ |  | $\$ 0$ | $\$ 0$ |
| Bosque | 13 | 14 | $\$ 242,196$ | $\$ 260,671$ | $\$ 245,216$ | $\$ 263,749$ |
| Bowie | 18 | 20 | $\$ 340,556$ | $\$ 403,687$ | $\$ 466,442$ | $\$ 533,427$ |
| Brazoria | 689 | 732 | $\$ 12,907,110$ | $\$ 14,289,041$ | $\$ 13,056,941$ | $\$ 14,438,872$ |
| Brazos | 457 | 499 | $\$ 8,552,882$ | $\$ 10,106,624$ | $\$ 8,927,084$ | $\$ 10,505,548$ |

Note 1:
TMD Employes (Direct Employment) is the number of employees who receive salary, wages, and other compensation from TMD.
Total Employment is the number of TMD employees and those in other businesses and organizations dependent upon TMD who receive salary, wages, and other compensation. These are the numbers after IMPLAN calculations.

TMD Salaries \& Wages (Direct Income) is the amount of salary, wages, and other compensation received by employees of TMD.
Total Salaries \& Wages (Total Income) is the amount of salary, wages, and other compensation received by TMD employees and the amount of salary, wages, and other compensation in other businesses and organizations dependent upon TMD. This is the amount after IMPLAN calculations.

TMD Spending/Expenditures (Direct Spending/Expenditures) is the amount of spending by TMD for salary, wages, other compensation, fringe benefits, and for all other operational and capital projects.
All Spending/Expenditures (Total Expenditures) is the amount of all spending by TMD and the spending by other businesses and organizations that is due to TMD. This is the amount after IMPLAN calculations.

Note 2: Only whole numbers appear in this table. Many counties have fractional employees.
Texas Military Department • Economic Impacts FY2015

| Table 3.2. | (continued) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TMD <br> Employees | Total Employment | TMD Salaries \& Wages | Total Salaries and Wages | TMD Spending/ Expenditures | All Spending/ Expenditures |
| Brewster | 1 | 1 | \$20,357 | \$23,315 | \$25,218 | \$28,381 |
| Briscoe | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Brooks | 0 | 0 | \$0 | \$0 | \$134 | \$135 |
| Brown | 181 | 200 | \$3,381,198 | \$3,969,802 | \$4,539,741 | \$5,153,505 |
| Burleson | 11 | 12 | \$205,838 | \$223,324 | \$208,674 | \$226,208 |
| Burnet | 41 | 44 | \$758,476 | \$871,444 | \$762,967 | \$876,169 |
| Caldwell | 67 | 71 | \$1,258,322 | \$1,391,458 | \$1,275,828 | \$1,409,270 |
| Calhoun | 4 | 4 | \$81,079 | \$85,456 | \$81,353 | \$85,735 |
| Callahan | 7 | 8 | \$138,450 | \$145,581 | \$140,061 | \$147,219 |
| Cameron | 292 | 327 | \$5,464,361 | \$6,611,086 | \$5,803,294 | \$6,950,020 |
| Camp | 2 | 2 | \$31,817 | \$34,970 | \$33,734 | \$36,915 |
| Carson | 1 | 1 | \$11,255 | \$11,466 | \$11,274 | \$11,485 |
| Cass | 4 | 4 | \$71,941 | \$78,490 | \$73,075 | \$79,646 |
| Castro | 0 | 0 | \$29 | \$30 | \$29 | \$30 |
| Chambers | 12 | 13 | \$229,048 | \$238,799 | \$230,079 | \$239,839 |
| Cherokee | 11 | 12 | \$201,418 | \$227,920 | \$204,820 | \$231,428 |
| Childress | 7 | 8 | \$135,706 | \$146,821 | \$135,971 | \$147,091 |
| Clay | 2 | 2 | \$40,222 | \$43,189 | \$40,653 | \$43,623 |
| Cochran | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Coke | 5 | 5 | \$85,845 | \$88,772 | \$93,107 | \$96,122 |
| Coleman | 2 | 2 | \$30,125 | \$33,008 | \$31,807 | \$34,728 |
| Collin | 378 | 411 | \$7,077,593 | \$8,604,113 | \$7,456,306 | \$9,012,050 |
| Collingsworth | 1 | 1 | \$23,306 | \$25,431 | \$24,211 | \$26,360 |
| Colorado | 12 | 14 | \$225,890 | \$294,741 | \$4,466,204 | \$4,645,771 |
| Comal | 241 | 265 | \$4,520,050 | \$5,355,727 | \$6,301,331 | \$7,235,250 |
| Comanche | 14 | 15 | \$264,822 | \$288,414 | \$266,455 | \$290,079 |
| Concho | 0 | 0 | \$7,421 | \$7,804 | \$8,181 | \$8,567 |
| Cooke | 3 | 3 | \$56,099 | \$60,248 | \$56,794 | \$60,958 |
| Coryell | 247 | 262 | \$4,630,775 | \$5,023,302 | \$6,448,509 | \$6,889,978 |
| Cottle | 1 | 1 | \$21,805 | \$23,086 | \$21,805 | \$23,086 |
| Crane | 0 | 0 | \$3,437 | \$3,625 | \$3,437 | \$3,625 |
| Crockett | 3 | 3 | \$46,866 | \$49,601 | \$46,866 | \$49,601 |
| Crosby | 3 | 4 | \$64,899 | \$69,465 | \$64,899 | \$69,465 |
| Culberson | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Dallam | 0 | 0 | \$4,017 | \$4,277 | \$4,017 | \$4,278 |

Please see Note 1 on page 18 for more information about column definitions.

| TABLE 3.2. | (continued) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TMD <br> Employees | Total <br> Employment | TMD Salaries \& Wages | Total Salaries and Wages | TMD Spending/ Expenditures | AII Spending/ Expenditures |
| Dallas | 1202 | 1284 | \$22,517,207 | \$27,407,601 | \$40,407,699 | \$46,859,395 |
| Dawson | 0 | 1 | \$9,205 | \$10,075 | \$9,297 | \$10,169 |
| DeWitt | 6 | 7 | \$116,041 | \$127,460 | \$120,158 | \$131,662 |
| Deaf Smith | 7 | 8 | \$139,328 | \$150,611 | \$140,033 | \$151,324 |
| Delta | 5 | 6 | \$101,340 | \$105,579 | \$101,370 | \$105,610 |
| Denton | 458 | 492 | \$8,568,314 | \$9,944,456 | \$9,432,360 | \$10,858,390 |
| Dickens | 1 | 1 | \$19,752 | \$20,278 | \$19,752 | \$20,278 |
| Dimmit | 2 | 2 | \$37,048 | \$39,284 | \$37,048 | \$39,284 |
| Donley | 0 | 0 | \$4 | \$5 | \$4 | \$5 |
| Duval | 0 | 0 | \$6,704 | \$7,020 | \$6,711 | \$7,027 |
| Eastland | 3 | 3 | \$63,527 | \$67,129 | \$69,193 | \$72,946 |
| Ector | 15 | 16 | \$286,186 | \$324,686 | \$312,727 | \$352,092 |
| Edwards | 0 | 0 | \$146 | \$153 | \$148 | \$155 |
| El Paso | 721 | 793 | \$13,502,200 | \$16,033,852 | \$14,263,872 | \$16,930,927 |
| Ellis | 145 | 154 | \$2,723,287 | \$3,004,865 | \$2,794,587 | \$3,077,401 |
| Erath | 28 | 31 | \$527,171 | \$601,850 | \$575,514 | \$651,432 |
| Falls | 8 | 8 | \$143,678 | \$157,551 | \$144,334 | \$158,216 |
| Fannin | 10 | 10 | \$185,210 | \$203,346 | \$191,373 | \$209,508 |
| Fayette | 4 | 4 | \$74,461 | \$83,741 | \$77,768 | \$87,127 |
| Fisher | 0 | 0 | \$6,268 | \$6,604 | \$10,856 | \$11,245 |
| Floyd | 0 | 0 | \$1,215 | \$1,291 | \$1,215 | \$1,291 |
| Foard | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Fort Bend | 607 | 653 | \$11,376,780 | \$12,884,626 | \$11,524,632 | \$13,040,410 |
| Franklin | 0 | 0 | \$7,214 | \$7,852 | \$7,321 | \$7,964 |
| Freestone | 2 | 2 | \$31,643 | \$34,349 | \$32,014 | \$34,724 |
| Frio | 1 | 1 | \$26,608 | \$28,276 | \$28,315 | \$30,006 |
| Gaines | 1 | 1 | \$23,037 | \$24,926 | \$23,037 | \$24,926 |
| Galveston | 728 | 785 | \$13,630,951 | \$15,513,974 | \$13,995,812 | \$15,896,131 |
| Garza | 0 | 0 | \$0 | \$8 | \$719 | \$742 |
| Gillespie | 39 | 43 | \$730,940 | \$841,657 | \$800,377 | \$913,677 |
| Glasscock | 0 | 0 | \$307 | \$312 | \$317 | \$321 |
| Goliad | 3 | 3 | \$61,627 | \$65,333 | \$62,853 | \$66,579 |
| Gonzales | 8 | 8 | \$149,988 | \$163,824 | \$151,637 | \$165,504 |


| Table 3.2. | (continued) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TMD <br> Employees | Total <br> Employment | TMD <br> Salaries \& Wages | Total Salaries and Wages | TMD <br> Spending/ <br> Expenditures | AII <br> Spending/ Expenditures |
| Gray | 1 | 1 | \$22,040 | \$24,436 | \$22,040 | \$24,436 |
| Grayson | 35 | 39 | \$662,804 | \$786,407 | \$1,299,641 | \$1,436,742 |
| Gregg | 47 | 50 | \$874,013 | \$1,000,353 | \$987,311 | \$1,118,809 |
| Grimes | 3 | 3 | \$51,695 | \$55,818 | \$55,816 | \$60,012 |
| Guadalupe | 419 | 439 | \$7,852,362 | \$8,492,794 | \$8,625,252 | \$9,279,279 |
| Hale | 5 | 6 | \$98,121 | \$111,000 | \$100,886 | \$113,838 |
| Hall | 0 | 0 | \$1,706 | \$1,807 | \$1,706 | \$1,807 |
| Hamilton | 3 | 3 | \$53,326 | \$58,477 | \$55,388 | \$60,575 |
| Hansford | 3 | 3 | \$57,646 | \$60,528 | \$57,646 | \$60,528 |
| Hardeman | 0 | 0 | \$8,536 | \$9,063 | \$8,536 | \$9,063 |
| Hardin | 15 | 16 | \$288,942 | \$315,594 | \$292,308 | \$319,080 |
| Harris | 3694 | 3928 | \$69,174,364 | \$82,000,762 | \$73,238,445 | \$86,429,119 |
| Harrison | 49 | 51 | \$911,984 | \$995,665 | \$1,063,136 | \$1,149,887 |
| Hartley | 0 | 0 | \$1,875 | \$1,954 | \$1,875 | \$1,954 |
| Haskell | 0 | 0 | \$955 | \$1,043 | \$955 | \$1,043 |
| Hays | 449 | 492 | \$8,410,347 | \$9,742,669 | \$9,046,695 | \$10,417,071 |
| Hemphill | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Henderson | 17 | 19 | \$326,525 | \$363,899 | \$365,704 | \$404,074 |
| Hidalgo | 565 | 634 | \$10,575,792 | \$12,925,083 | \$11,804,923 | \$14,210,546 |
| Hill | 12 | 12 | \$216,020 | \$239,660 | \$227,219 | \$251,020 |
| Hockley | 9 | 9 | \$167,449 | \$179,945 | \$180,854 | \$193,580 |
| Hood | 57 | 61 | \$1,067,894 | \$1,188,887 | \$1,093,731 | \$1,215,522 |
| Hopkins | 13 | 14 | \$237,082 | \$264,743 | \$254,386 | \$282,407 |
| Houston | 6 | 6 | \$109,109 | \$122,129 | \$110,280 | \$123,349 |
| Howard | 7 | 8 | \$132,946 | \$148,698 | \$137,019 | \$152,840 |
| Hudspeth | 0 | 0 | \$8,009 | \$8,193 | \$8,113 | \$8,298 |
| Hunt | 67 | 71 | \$1,250,869 | \$1,383,284 | \$1,329,595 | \$1,463,138 |
| Hutchinson | 3 | 3 | \$51,912 | \$55,721 | \$58,599 | \$62,591 |
| Irion | 1 | 1 | \$9,748 | \$9,950 | \$9,761 | \$9,963 |
| Jack | 4 | 5 | \$83,029 | \$86,503 | \$86,396 | \$89,935 |
| Jackson | 4 | 4 | \$73,243 | \$79,458 | \$73,300 | \$79,516 |
| Jasper | 3 | 3 | \$53,596 | \$60,158 | \$53,725 | \$60,291 |
| Jeff Davis | 0 | 0 | \$2,207 | \$2,346 | \$2,207 | \$2,346 |
| Jefferson | 57 | 61 | \$1,074,481 | \$1,229,115 | \$1,139,417 | \$1,296,923 |


| TABLE 3.2. | (continued) |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
|  | TMD <br> Employees | Total <br> Employment | TMD <br>  <br> Wages | Total <br> Salaries and <br> Wages | TMD <br> Spending/ <br> Expenditures | All <br> Spending/ <br> Expenditures |
|  |  |  |  |  |  | $\$ 0$ |


| Table 3.2. | (continued) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TMD <br> Employees | Total <br> Employment | TMD <br> Salaries \& Wages | Total Salaries and Wages | TMD Spending/ Expenditures | $\begin{gathered} \text { All } \\ \text { Spending/ } \\ \text { Expenditures } \end{gathered}$ |
| Matagorda | 6 | 6 | \$105,201 | \$118,085 | \$106,000 | \$118,911 |
| Maverick | 5 | 6 | \$97,306 | \$109,046 | \$101,305 | \$113,086 |
| McCulloch | 1 | 1 | \$14,549 | \$15,808 | \$19,003 | \$20,321 |
| McLennan | 205 | 226 | \$3,830,850 | \$4,643,149 | \$4,154,269 | \$4,983,600 |
| McMullen | 0 | 0 | \$0 | \$0 | \$40 | \$41 |
| Medina | 103 | 109 | \$1,935,278 | \$2,106,277 | \$2,019,175 | \$2,192,366 |
| Menard | 0 | 0 | \$67 | \$69 | \$87 | \$90 |
| Midland | 46 | 47 | \$853,717 | \$938,734 | \$900,797 | \$987,862 |
| Milam | 20 | 22 | \$383,729 | \$431,099 | \$385,009 | \$432,406 |
| Mills | 6 | 7 | \$120,074 | \$129,192 | \$132,124 | \$141,403 |
| Mitchell | 1 | 1 | \$13,937 | \$14,702 | \$13,937 | \$14,702 |
| Montague | 4 | 4 | \$76,370 | \$83,016 | \$81,591 | \$88,360 |
| Montgomery | 263 | 280 | \$4,923,838 | \$5,646,122 | \$5,023,368 | \$5,750,301 |
| Moore | 1 | 2 | \$27,249 | \$29,644 | \$29,327 | \$31,760 |
| Morris | 1 | 1 | \$22,734 | \$23,928 | \$27,994 | \$29,246 |
| Motley | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Nacogdoches | 33 | 36 | \$622,842 | \$725,963 | \$643,029 | \$746,614 |
| Navarro | 24 | 26 | \$453,004 | \$510,001 | \$550,263 | \$608,620 |
| Newton | 1 | 1 | \$10,942 | \$11,316 | \$12,393 | \$12,785 |
| Nolan | 4 | 4 | \$65,619 | \$71,929 | \$70,262 | \$76,671 |
| Nueces | 213 | 232 | \$3,979,960 | \$4,756,567 | \$4,217,527 | \$5,008,482 |
| Ochiltree | 0 | 0 | \$7,951 | \$8,513 | \$7,951 | \$8,513 |
| Oldham | 0 | 0 | \$196 | \$201 | \$196 | \$201 |
| Orange | 14 | 14 | \$255,609 | \$278,224 | \$257,696 | \$280,359 |
| Palo Pinto | 41 | 43 | \$764,547 | \$841,854 | \$765,954 | \$843,292 |
| Panola | 4 | 4 | \$71,023 | \$77,299 | \$73,150 | \$79,468 |
| Parker | 360 | 384 | \$6,750,623 | \$7,478,587 | \$7,600,117 | \$8,350,778 |
| Parmer | 1 | 1 | \$25,060 | \$26,109 | \$25,060 | \$26,109 |
| Pecos | 67 | 71 | \$1,257,666 | \$1,383,969 | \$2,926,035 | \$3,076,799 |
| Polk | 5 | 5 | \$97,212 | \$106,649 | \$97,212 | \$106,649 |
| Potter | 37 | 39 | \$687,865 | \$771,586 | \$699,958 | \$784,292 |
| Presidio | 10 | 11 | \$192,054 | \$201,514 | \$194,173 | \$203,660 |
| Rains | 1 | 1 | \$18,434 | \$19,563 | \$18,659 | \$19,794 |
| Randall | 30 | 32 | \$560,438 | \$624,920 | \$573,564 | \$638,457 |


| Table 3.2. | (continued) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TMD <br> Employees | Total <br> Employment | TMD Salaries \& Wages | Total Salaries and Wages | TMD Spending/ Expenditures | All <br> Spending/ Expenditures |
| Reagan | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Real | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Red River | 9 | 9 | \$162,584 | \$172,022 | \$162,584 | \$172,022 |
| Reeves | 2 | 2 | \$43,378 | \$47,175 | \$54,699 | \$58,633 |
| Refugio | 0 | 0 | \$8,583 | \$9,078 | \$8,583 | \$9,078 |
| Roberts | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Robertson | 5 | 5 | \$95,489 | \$102,482 | \$107,725 | \$114,928 |
| Rockwall | 73 | 79 | \$1,365,500 | \$1,579,138 | \$1,666,167 | \$1,893,769 |
| Runnels | 2 | 2 | \$37,242 | \$40,263 | \$47,936 | \$51,079 |
| Rusk | 12 | 13 | \$227,199 | \$248,805 | \$230,318 | \$251,990 |
| Sabine | 2 | 2 | \$36,277 | \$38,869 | \$36,277 | \$38,869 |
| San Augustine | 1 | 1 | \$17,716 | \$18,767 | \$17,716 | \$18,767 |
| San Jacinto | 6 | 6 | \$107,504 | \$111,306 | \$109,354 | \$113,193 |
| San Patricio | 11 | 11 | \$199,743 | \$216,237 | \$212,655 | \$229,422 |
| San Saba | 1 | 1 | \$9,508 | \$10,317 | \$10,585 | \$11,414 |
| Schleicher | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Scurry | 1 | 1 | \$12,358 | \$13,236 | \$14,425 | \$15,342 |
| Shackelford | 1 | 1 | \$9,858 | \$10,123 | \$9,891 | \$10,156 |
| Shelby | 3 | 3 | \$49,415 | \$54,180 | \$50,226 | \$55,006 |
| Sherman | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Smith | 141 | 154 | \$2,633,709 | \$3,173,728 | \$2,736,997 | \$3,283,291 |
| Somervell | 2 | 2 | \$44,758 | \$47,736 | \$47,684 | \$50,731 |
| Starr | 12 | 13 | \$219,554 | \$240,077 | \$227,980 | \$248,602 |
| Stephens | 1 | 2 | \$27,584 | \$29,389 | \$29,857 | \$31,731 |
| Sterling | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Stonewall | 0 | 0 | \$1,495 | \$1,553 | \$1,495 | \$1,553 |
| Sutton | 0 | 0 | \$1,127 | \$1,168 | \$1,127 | \$1,168 |
| Swisher | 0 | 0 | \$951 | \$1,017 | \$951 | \$1,017 |
| Tarrant | 2509 | 2775 | \$46,980,305 | \$59,257,122 | \$50,936,910 | \$63,545,630 |
| Taylor | 117 | 129 | \$2,188,885 | \$2,680,615 | \$2,389,157 | \$2,892,694 |
| Terrell | 0 | 0 | \$2,272 | \$2,340 | \$2,272 | \$2,340 |
| Terry | 2 | 2 | \$41,448 | \$45,583 | \$41,448 | \$45,583 |
| Throckmorton | 0 | 0 | \$4,879 | \$5,013 | \$4,879 | \$5,013 |


| TABLE 3.2. | (continued) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TMD <br> Employees | Total Employment | TMD Salaries \& Wages | Total Salaries and Wages | TMD Spending/ Expenditures | $\qquad$ |
| Titus | 1 | 1 | \$18,075 | \$19,997 | \$19,457 | \$21,393 |
| Tom Green | 258 | 284 | \$4,840,703 | \$5,775,496 | \$4,928,805 | \$5,866,720 |
| Travis | 4832 | 5262 | \$90,484,884 | \$111,713,076 | \$116,550,606 | \$140,378,189 |
| Trinity | 4 | 4 | \$65,916 | \$70,656 | \$66,668 | \$71,418 |
| Tyler | 3 | 3 | \$61,034 | \$65,425 | \$62,078 | \$66,481 |
| Upshur | 8 | 9 | \$159,009 | \$170,078 | \$159,916 | \$171,001 |
| Upton | 0 | 0 | \$0 | \$0 | \$0 | \$0 |
| Uvalde | 4 | 4 | \$68,572 | \$76,325 | \$71,097 | \$78,928 |
| Val Verde | 27 | 28 | \$496,435 | \$559,748 | \$500,960 | \$564,347 |
| Van Zandt | 22 | 23 | \$405,438 | \$439,143 | \$413,530 | \$447,386 |
| Victoria | 42 | 46 | \$793,607 | \$957,148 | \$1,295,409 | \$1,477,115 |
| Walker | 93 | 99 | \$1,745,770 | \$1,939,565 | \$1,887,684 | \$2,083,686 |
| Waller | 7 | 7 | \$130,412 | \$140,480 | \$139,777 | \$150,020 |
| Ward | 4 | 4 | \$72,641 | \$77,885 | \$72,641 | \$77,885 |
| Washington | 10 | 11 | \$194,565 | \$220,626 | \$230,731 | \$257,855 |
| Webb | 186 | 206 | \$3,490,147 | \$4,131,821 | \$4,871,309 | \$5,586,301 |
| Wharton | 26 | 28 | \$489,085 | \$545,384 | \$536,871 | \$593,935 |
| Wheeler | 1 | 1 | \$14,905 | \$15,864 | \$14,905 | \$15,864 |
| Wichita | 95 | 104 | \$1,786,839 | \$2,108,073 | \$1,880,526 | \$2,205,160 |
| Wilbarger | 2 | 3 | \$45,313 | \$48,678 | \$46,141 | \$49,511 |
| Willacy | 15 | 16 | \$286,487 | \$307,491 | \$292,947 | \$314,014 |
| Williamson | 1753 | 1886 | \$32,830,267 | \$38,085,625 | \$38,045,399 | \$43,524,281 |
| Wilson | 95 | 99 | \$1,780,108 | \$1,892,515 | \$1,790,386 | \$1,902,920 |
| Winkler | 0 | 0 | \$3,702 | \$3,856 | \$3,702 | \$3,856 |
| Wise | 95 | 101 | \$1,787,104 | \$1,980,727 | \$1,847,156 | \$2,042,076 |
| Wood | 10 | 11 | \$194,743 | \$215,845 | \$196,666 | \$217,812 |
| Yoakum | 5 | 6 | \$101,695 | \$106,732 | \$101,695 | \$106,732 |
| Young | 1 | 1 | \$9,858 | \$10,820 | \$10,102 | \$11,072 |
| Zapata | 0 | 0 | \$0 | \$3 | \$923 | \$935 |
| Zavala | 1 | 1 | \$10,343 | \$11,015 | \$10,343 | \$11,015 |
| Sum of Counties | 30,446 | 33,023 | \$570,169,939 | \$680,551,073 | \$665,638,459 | \$783,040,243 |

Note: Direct employment (TMD Employees) sums to above number if fractional employment is utilized. Only whole numbers are shown above.

## Chapter IV. Economic Impacts by Texas Senate and Texas House Districts

Another component of the analysis examined the economic impacts of TMD operations based on Texas Senate Districts. Many senate districts in rural and suburban areas are comprised of multiple counties, while in a number of urban areas, senate districts are a portion of one county, or portions of multiple contiguous counties. The Texas Legislative Council provided a procedure normally used in redistricting to allocate counties into the 31 Senate districts. For this analysis, the program allocated economic impacts of counties into their respective Texas Senate districts.

Table 4.1. identifies estimates for the total employment, total salaries and wages, and total economic impacts attributable to TMD operations in each of the Senate districts. A ranking of the 10 Texas Senate districts with total impacts above $\$ 25$ million and total employment above 1,000 is shown in table A.2. in appendix A.

A similar allocation procedure was used for the 150 Texas House Districts. Table 4.2. provides those estimates. The Texas House Districts with total impacts above $\$ 5$ million are shown in rank order in table A.3. in appendix A.

Notes for each of the tables appear at the end of the listings.

TABLE 4.1. TOTAL IMPACTS, TEXAS SENATE DISTRICTS, FY2015

|  | $\begin{gathered} \underline{\text { TOTAL }} \\ \text { EMPLOYMENT } \end{gathered}$ | $\begin{gathered} \text { TOTAL } \\ \text { SALARIES \& WAGES } \end{gathered}$ |  | $\begin{gathered} \text { TOTAL } \\ \text { ECONOMIC IMPACT } \\ \hline \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Texas Senate |  |  |  |  |  |
| DISTRICT 1 | 420 | \$ | 8,435,911 | \$ | 9,483,102 |
| DISTRICT 2 | 510 | \$ | 10,373,767 | \$ | 14,840,899 |
| DISTRICT 3 | 261 | \$ | 5,181,993 | \$ | 5,345,766 |
| DISTRICT 4 | 453 | \$ | 9,195,801 | \$ | 9,504,797 |
| DISTRICT 5 | 2,524 | \$ | 50,914,210 | \$ | 56,935,686 |
| DISTRICT 6 | 780 | \$ | 16,287,729 | \$ | 17,167,329 |
| DISTRICT 7 | 777 | \$ | 16,215,515 | \$ | 17,091,215 |
| DISTRICT 8 | 418 | \$ | 8,775,168 | \$ | 10,159,296 |
| DISTRICT 9 | 1,057 | \$ | 22,561,267 | \$ | 25,732,520 |
| DISTRICT 10 | 1,276 | \$ | 27,258,276 | \$ | 29,230,990 |
| DISTRICT 11 | 1,556 | \$ | 30,952,173 | \$ | 31,743,544 |
| DISTRICT 12 | 824 | \$ | 17,142,466 | \$ | 18,544,308 |
| DISTRICT 13 | 792 | \$ | 16,397,565 | \$ | 17,180,490 |
| DISTRICT 14 | 4,306 | \$ | 90,654,356 | \$ | 114,141,234 |
| DISTRICT 15 | 761 | \$ | 15,891,536 | \$ | 16,749,740 |
| DISTRICT 16 | 443 | \$ | 9,451,711 | \$ | 16,159,804 |
| DISTRICT 17 | 936 | \$ | 19,000,136 | \$ | 19,660,637 |
| DISTRICT 18 | 564 | \$ | 11,188,965 | \$ | 16,320,837 |
| DISTRICT 19 | 1,510 | \$ | 31,589,081 | \$ | 36,138,884 |
| DISTRICT 20 | 611 | \$ | 12,472,763 | \$ | 13,471,926 |
| DISTRICT 21 | 1,491 | \$ | 30,487,675 | \$ | 36,570,820 |
| DISTRICT 22 | 809 | \$ | 16,272,244 | \$ | 17,077,523 |
| DISTRICT 23 | 441 | \$ | 9,417,326 | \$ | 16,101,016 |
| DISTRICT 24 | 2,026 | \$ | 40,515,819 | \$ | 46,540,135 |
| DISTRICT 25 | 2,345 | \$ | 48,444,699 | \$ | 55,600,655 |
| DISTRICT 26 | 2,020 | \$ | 42,920,527 | \$ | 47,396,161 |
| DISTRICT 27 | 665 | \$ | 13,446,080 | \$ | 14,388,933 |
| DISTRICT 28 | 604 | \$ | 12,339,256 | \$ | 14,018,212 |
| DISTRICT 29 | 804 | \$ | 16,245,905 | \$ | 17,145,231 |
| DISTRICT 30 | 863 | \$ | 17,092,779 | \$ | 19,051,683 |
| DISTRICT 31 | 174 | \$ | 3,428,373 | \$ | 3,546,870 |
| Totals | 33,023 | \$ | 680,551,073 | \$ | 783,040,243 |

Note 1:
Total Employment is the number of employees who receive salary, wages, and other compensation from TMD and those in other businesses and organizations dependent upon TMD who receive salary, wages, and other compensation. These are the numbers after IMPLAN calculations.

Total Salaries and Wages (Income) is the amount of salary, wages, and other compensation received by TMD employees and the amount of salary, wages, and other compensation in other businesses and organizations dependent upon TMD. This is the amount after IMPLAN calculations.

Total Economic Impact is the amount of all spending (personnel, operations, capital projects) by TMD and the spending by other businesses and organizations that is due to TMD. This is the amount after IMPLAN calculations.

Note 2: Only whole numbers appear in this table. Many districts have fractional employees.

TABLE 4.2. TOTAL IMPACTS, TEXAS HOUSE DISTRICTS, FY2015


| TABLE 4.2. | (continued) | $\frac{\begin{array}{c} \underline{\text { TOTAL }} \\ \text { SALARIES \& } \end{array}}{\underline{\text { WAGES }}}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { TOTAL } \\ \text { EMPLOYMENT } \\ \hline \end{gathered}$ |  |  | $\frac{\text { TOTAL ECONOMIC }}{\text { IMPACT }}$ |  |
| House |  |  |  |  |  |
|  |  |  |  |  |  |
| DISTRICT 33 | 128 | \$ | 2,611,631 | \$ | 2,975,215 |
| DISTRICT 34 | 118 | \$ | 2,425,849 | \$ | 2,554,326 |
| DISTRICT 35 | 138 | \$ | 2,804,145 | \$ | 3,028,874 |
| DISTRICT 36 | 139 | \$ | 2,843,518 | \$ | 3,126,320 |
| DISTRICT 37 | 137 | \$ | 2,776,656 | \$ | 2,919,008 |
| DISTRICT 38 | 134 | \$ | 2,710,545 | \$ | 2,849,508 |
| DISTRICT 39 | 139 | \$ | 2,843,518 | \$ | 3,126,320 |
| DISTRICT 40 | 139 | \$ | 2,843,518 | \$ | 3,126,320 |
| DISTRICT 41 | 139 | \$ | 2,843,518 | \$ | 3,126,320 |
| DISTRICT 42 | 138 | \$ | 2,768,320 | \$ | 3,742,821 |
| DISTRICT 43 | 83 | \$ | 1,635,703 | \$ | 1,722,287 |
| DISTRICT 44 | 538 | \$ | 10,385,308 | \$ | 11,182,199 |
| DISTRICT 45 | 515 | \$ | 10,176,450 | \$ | 10,856,473 |
| DISTRICT 46 | 855 | \$ | 18,149,751 | \$ | 22,806,902 |
| DISTRICT 47 | 901 | \$ | 19,120,879 | \$ | 24,027,217 |
| DISTRICT 48 | 889 | \$ | 18,868,967 | \$ | 23,699,473 |
| DISTRICT 49 | 860 | \$ | 18,247,802 | \$ | 22,930,112 |
| DISTRICT 50 | 855 | \$ | 18,161,312 | \$ | 22,821,430 |
| DISTRICT 51 | 903 | \$ | 19,163,960 | \$ | 24,081,353 |
| DISTRICT 52 | 735 | \$ | 14,853,394 | \$ | 16,974,470 |
| DISTRICT 53 | 172 | \$ | 3,336,543 | \$ | 3,428,709 |
| DISTRICT 54 | 520 | \$ | 10,366,747 | \$ | 11,028,011 |
| DISTRICT 55 | 501 | \$ | 10,017,600 | \$ | 10,713,020 |
| DISTRICT 56 | 158 | \$ | 3,250,205 | \$ | 3,488,520 |
| DISTRICT 57 | 49 | \$ | 972,625 | \$ | 1,001,077 |
| DISTRICT 58 | 180 | \$ | 3,517,539 | \$ | 3,555,134 |
| DISTRICT 59 | 321 | \$ | 6,175,094 | \$ | 8,115,933 |
| DISTRICT 60 | 319 | \$ | 6,285,773 | \$ | 7,509,099 |
| DISTRICT 61 | 485 | \$ | 9,459,314 | \$ | 10,392,855 |
| DISTRICT 62 | 55 | \$ | 1,095,332 | \$ | 1,751,860 |
| DISTRICT 63 | 124 | \$ | 2,511,380 | \$ | 2,742,185 |
| DISTRICT 64 | 124 | \$ | 2,515,147 | \$ | 2,746,299 |



| TABLE 4.2. | (continued) | $\frac{\begin{array}{c} \text { TOTAL } \\ \text { SALARIES \& } \end{array}}{\text { WAGES }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \underline{\text { TOTAL }} \\ \text { EMPLOYMENT } \end{gathered}$ |  |  | $\frac{\text { TOTAL ECONOMIC }}{\text { IMPACT }}$ |  |
| House |  |  |  |  |  |
| DISTRICT 97 | 259 | \$ | 5,531,511 | \$ | 5,931,833 |
| DISTRICT 98 | 252 | \$ | 5,374,674 | \$ | 5,763,645 |
| DISTRICT 99 | 261 | \$ | 5,584,052 | \$ | 5,988,176 |
| DISTRICT 100 | 87 | \$ | 1,864,985 | \$ | 3,188,607 |
| DISTRICT 101 | 253 | \$ | 5,393,771 | \$ | 5,784,124 |
| DISTRICT 102 | 87 | \$ | 1,864,904 | \$ | 3,188,468 |
| DISTRICT 103 | 93 | \$ | 1,978,463 | \$ | 3,382,622 |
| DISTRICT 104 | 94 | \$ | 1,999,712 | \$ | 3,418,952 |
| DISTRICT 105 | 95 | \$ | 2,033,784 | \$ | 3,477,206 |
| DISTRICT 106 | 120 | \$ | 2,430,487 | \$ | 2,653,858 |
| DISTRICT 107 | 93 | \$ | 1,989,157 | \$ | 3,400,906 |
| DISTRICT 108 | 89 | \$ | 1,889,173 | \$ | 3,229,962 |
| DISTRICT 109 | 94 | \$ | 2,016,366 | \$ | 3,447,426 |
| DISTRICT 110 | 91 | \$ | 1,938,650 | \$ | 3,314,554 |
| DISTRICT 111 | 91 | \$ | 1,932,342 | \$ | 3,303,769 |
| DISTRICT 112 | 91 | \$ | 1,933,361 | \$ | 3,305,511 |
| DISTRICT 113 | 93 | \$ | 1,983,902 | \$ | 3,391,922 |
| DISTRICT 114 | 93 | \$ | 1,994,457 | \$ | 3,409,969 |
| DISTRICT 115 | 93 | \$ | 1,988,346 | \$ | 3,399,521 |
| DISTRICT 116 | 432 | \$ | 9,175,636 | \$ | 10,132,446 |
| DISTRICT 117 | 425 | \$ | 9,027,349 | \$ | 9,968,696 |
| DISTRICT 118 | 414 | \$ | 8,799,595 | \$ | 9,717,192 |
| DISTRICT 119 | 403 | \$ | 8,561,191 | \$ | 9,453,928 |
| DISTRICT 120 | 441 | \$ | 9,371,978 | \$ | 10,349,262 |
| DISTRICT 121 | 440 | \$ | 9,357,797 | \$ | 10,333,602 |
| DISTRICT 122 | 441 | \$ | 9,374,761 | \$ | 10,352,335 |
| DISTRICT 123 | 442 | \$ | 9,400,983 | \$ | 10,381,291 |
| DISTRICT 124 | 440 | \$ | 9,353,944 | \$ | 10,329,348 |
| DISTRICT 125 | 440 | \$ | 9,340,780 | \$ | 10,314,810 |
| DISTRICT 126 | 162 | \$ | 3,391,389 | \$ | 3,574,537 |
| DISTRICT 127 | 157 | \$ | 3,285,734 | \$ | 3,463,176 |
| DISTRICT 128 | 165 | \$ | 3,450,799 | \$ | 3,637,155 |
| DISTRICT 129 | 167 | \$ | 3,488,990 | \$ | 3,677,408 |
| DISTRICT 130 | 168 | \$ | 3,517,142 | \$ | 3,707,081 |
| DISTRICT 131 | 168 | \$ | 3,511,030 | \$ | 3,700,639 |

Texas Military Department • Economic Impacts FY2015

| TABLE 4.2. | (continued) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { TOTAL } \\ \text { EMPLOYMENT } \\ \hline \end{gathered}$ |  |  | $\begin{gathered} \text { TOTAL ECONOMIC } \\ \text { IMPACT } \\ \hline \end{gathered}$ |  |
| House |  |  |  |  |  |
|  |  |  |  |  |  |
| DISTRICT 132 | 166 | \$ | 3,465,867 | \$ | 3,653,037 |
| DISTRICT 133 | 165 | \$ | 3,434,369 | \$ | 3,619,838 |
| DISTRICT 134 | 167 | \$ | 3,494,880 | \$ | 3,683,617 |
| DISTRICT 135 | 165 | \$ | 3,454,826 | \$ | 3,641,400 |
| DISTRICT 136 | 735 | \$ | 14,853,394 | \$ | 16,974,470 |
| DISTRICT 137 | 164 | \$ | 3,427,917 | \$ | 3,613,037 |
| DISTRICT 138 | 166 | \$ | 3,467,590 | \$ | 3,654,853 |
| DISTRICT 139 | 169 | \$ | 3,521,169 | \$ | 3,711,326 |
| DISTRICT 140 | 164 | \$ | 3,420,964 | \$ | 3,605,709 |
| DISTRICT 141 | 160 | \$ | 3,336,127 | \$ | 3,516,291 |
| DISTRICT 142 | 153 | \$ | 3,196,729 | \$ | 3,369,365 |
| DISTRICT 143 | 160 | \$ | 3,350,494 | \$ | 3,531,433 |
| DISTRICT 144 | 155 | \$ | 3,243,175 | \$ | 3,418,319 |
| DISTRICT 145 | 158 | \$ | 3,297,576 | \$ | 3,475,657 |
| DISTRICT 146 | 167 | \$ | 3,496,163 | \$ | 3,684,969 |
| DISTRICT 147 | 169 | \$ | 3,523,974 | \$ | 3,714,282 |
| DISTRICT 148 | 164 | \$ | 3,422,547 | \$ | 3,607,377 |
| DISTRICT 149 | 164 | \$ | 3,420,363 | \$ | 3,605,075 |
| DISTRICT 150 | 162 | \$ | 3,380,950 | \$ | 3,563,534 |
|  |  |  |  |  |  |
| Totals | 33,023 | \$ | 680,551,073 | \$ | 783,040,243 |

Note 1:
Total Employment is the number of employees who receive salary, wages, and other compensation from TMD and those in other businesses and organizations dependent upon TMD who receive salary, wages, and other compensation. These are the numbers after IMPLAN calculations.

Total Salaries and Wages (Income) is the amount of salary, wages, and other compensation received by TMD employees and the amount of salary, wages, and other compensation in other businesses and organizations dependent upon TMD. This is the amount after IMPLAN calculations.

Total Economic Impact is the amount of all spending (personnel, operations, capital projects) by TMD and the spending by other businesses and organizations that is due to TMD. This is the amount after IMPLAN calculations.

Note 2: Only whole numbers appear in this table. Many districts have fractional employees.

## Appendix A

TABLE A.1. TEXAS COUNTIES WITH TOTAL EXPENDITURES/IMPACTS ABOVE \$5 MILLION, FY2015

|  |  | $\begin{gathered} \text { TMD SPENDING } \\ \text { /EXPENDITURES } \\ \text { (EXPENDITURES DIRECT) } \\ \hline \end{gathered}$ | $\frac{\text { TOTAL ECONOMIC }}{\text { IMPACT }}$ |
| :---: | :---: | :---: | :---: |
| Rank | County |  |  |
|  |  |  |  |
| 1 | Travis | \$116,550,606 | \$140,378,189 |
| 2 | Bexar | 81,633,056 | 101,332,912 |
| 3 | Harris | 73,238,445 | 86,429,119 |
| 4 | Tarrant | 50,936,910 | 63,545,630 |
| 5 | Dallas | 40,407,699 | 46,859,395 |
| 6 | Williamson | 38,045,399 | 43,524,281 |
| 7 | Bell | 18,171,778 | 20,601,961 |
| 8 | El Paso | 14,263,872 | 16,930,927 |
| 9 | Galveston | 13,995,812 | 15,896,131 |
| 10 | Brazoria | 13,056,941 | 14,438,872 |
| 11 | Hidalgo | 11,804,923 | 14,210,546 |
| 12 | Fort Bend | 11,524,632 | 13,040,410 |
| 13 | Denton | 9,432,360 | 10,858,390 |
| 14 | Brazos | 8,927,084 | 10,505,548 |
| 15 | Hays | 9,046,695 | 10,417,071 |
| 16 | Bastrop | 9,155,011 | 9,902,000 |
| 17 | Guadalupe | 8,625,252 | 9,279,279 |
| 18 | Collin | 7,456,306 | 9,012,050 |
| 19 | Parker | 7,600,117 | 8,350,778 |
| 20 | Comal | 6,301,331 | 7,235,250 |
| 21 | Cameron | 5,803,294 | 6,950,020 |
| 22 | Coryell | 6,448,509 | 6,889,978 |
| 23 | Tom Green | 4,928,805 | 5,866,720 |
| 24 | Montgomery | 5,023,368 | 5,750,301 |
| 25 | Lubbock | 4,642,594 | 5,611,231 |
| 26 | Webb | 4,871,309 | 5,586,301 |
| 27 | Brown | 4,539,741 | 5,153,505 |
| 28 | Nueces | 4,217,527 | 5,008,482 |

TMD Spending/Expenditures (Expenditures Direct) is the amount of spending by TMD for salary, wages, other compensation, fringe benefits, and for all other operational and capital projects.

Total Economic Impact is the amount of all spending (personnel, operations, capital projects) by TMD and the spending by other businesses and organizations that is due to TMD. This is the amount after IMPLAN calculations.

Texas Military Department • Economic Impacts FY2015

TABLE A.2. TEXAS SENATE DISTRICTS WITH TOTAL ECONOMIC IMPACT ABOVE \$25 MILLION AND TOTAL EMPLOYMENT ABOVE 1,000, FY2015

|  |  | TOTAL ECONOMIC IMPACT | $\begin{gathered} \text { TOTAL } \\ \text { EMPLOYMENT } \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| Rank | Texas Senate |  |  |
|  |  |  |  |
| 1 | DISTRICT 14 | \$114,141,234 | 4,306 |
| 2 | DISTRICT 5 | \$56,935,686 | 2,524 |
| 3 | DISTRICT 25 | \$55,600,655 | 2,345 |
| 4 | DISTRICT 26 | \$47,396,161 | 2,020 |
| 5 | DISTRICT 24 | \$46,540,135 | 2,026 |
| 6 | DISTRICT 21 | \$36,570,820 | 1,491 |
| 7 | DISTRICT 19 | \$36,138,884 | 1,510 |
| 8 | DISTRICT 11 | \$31,743,544 | 1,556 |
| 9 | DISTRICT 10 | \$29,230,990 | 1,276 |
| 10 | DISTRICT 9 | \$25,732,520 | 1,057 |

Total Economic Impact is the amount of all spending (personnel, operations, capital projects) by TMD and the spending by other businesses and organizations that is due to TMD. This is the amount after IMPLAN calculations.

Total Employment is the number of employees who receive salary, wages, and other compensation from TMD and those in other businesses and organizations dependent upon TMD who receive salary, wages, and other compensation. These are the numbers after IMPLAN calculations.

TABLE A.3. TEXAS HOUSE DISTRICTS WITH TOTAL ECONOMIC IMPACT ABOVE \$5 MILLION, FY2015

|  |  | TOTAL ECONOMIC IMPACT | $\begin{gathered} \underline{\text { TOTAL }} \\ \text { EMPLOYMENT } \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| Rank | Texas House |  |  |
| 1 | DISTRICT 51 | \$24,081,353 | 903 |
| 2 | DISTRICT 47 | 24,027,217 | 901 |
| 3 | DISTRICT 48 | 23,699,473 | 889 |
| 4 | DISTRICT 49 | 22,930,112 | 860 |
| 5 | DISTRICT 50 | 22,821,430 | 855 |
| 6 | DISTRICT 46 | 22,806,902 | 855 |
| 7 | DISTRICT 52 | 16,974,470 | 735 |
| 8 | DISTRICT 136 | 16,974,470 | 735 |
| 9 | DISTRICT 17 | 11,930,975 | 502 |
| 10 | DISTRICT 44 | 11,182,199 | 538 |
| 11 | DISTRICT 54 | 11,028,011 | 520 |
| 12 | DISTRICT 20 | 10,883,917 | 481 |
| 13 | DISTRICT 45 | 10,856,473 | 515 |
| 14 | DISTRICT 55 | 10,713,020 | 501 |
| 15 | DISTRICT 61 | 10,392,855 | 485 |
| 16 | DISTRICT 123 | 10,381,291 | 442 |
| 17 | DISTRICT 122 | 10,352,335 | 441 |
| 18 | DISTRICT 120 | 10,349,262 | 441 |
| 19 | DISTRICT 121 | 10,333,602 | 440 |
| 20 | DISTRICT 124 | 10,329,348 | 440 |
| 21 | DISTRICT 125 | 10,314,810 | 440 |
| 22 | DISTRICT 116 | 10,132,446 | 432 |
| 23 | DISTRICT 117 | 9,968,696 | 425 |
| 24 | DISTRICT 118 | 9,717,192 | 414 |
| 25 | DISTRICT 119 | 9,453,928 | 403 |
| 26 | DISTRICT 73 | 9,372,874 | 369 |

Cont.

|  |  |  | TOTAL <br> TOTAL ECONOMIC IMPACT |
| :--- | :--- | ---: | ---: |
| EMPLOYMENT |  |  |  |$|$

Total Economic Impact is the amount of all spending (personnel, operations, capital projects) by TMD and the spending by other businesses and organizations that is due to TMD. This is the amount after IMPLAN calculations.

Total Employment is the number of employees who receive salary, wages, and other compensation from TMD and those in other businesses and organizations dependent upon TMD who receive salary, wages, and other compensation. These are the numbers after IMPLAN calculations.

## Appendix B

## Overview and Example of Economic Impact Analysis

There is an economic ripple effect from spending by public organizations and private companies. This ripple effect can be positive or negative depending on whether an economic entity is expanding or contracting. This study estimates the economic ripple effects using the IMPLAN input-output model. Results are categorized in terms of direct, indirect, and induced impacts on total output.

As an example, consider Camp Mabry in Austin. The organization employs executive management, administrative personnel, specialists in various fields, support staff, and other personnel for its operations. In addition, the organization spends on goods and services to support its operations, leading to auxiliary jobs in the community in transportation, real estate, utilities, retail goods, and so on. Direct spending is the sum of expenditures by all units at Camp Mabry. Direct labor income is that amount of expenditures devoted to salary, wages, fringe benefits, incentives, and other types of pay for TMD employees. When Camp Mabry performs transactions with other organizations and businesses, those amounts are categorized as indirectthey are in the Camp Mabry supply chain.

In addition, Camp Mabry employees (and suppliers' employees) spend their earnings on goods and services in their communities, leading to jobs in retail, entertainment, and so on-these impacts from spending by individuals and households (not businesses) are categorized as induced impacts.

An economic multiplier quantifies the size of this ripple effect of economic activity. Multipliers sometimes are separately enumerated for estimating the indirect impacts (indirect employment, indirect labor income, indirect output) and for estimating the induced impacts. Other times, multipliers are stated for total impacts. In both instances, multipliers are static for a period of time and are usually updated annually. This model uses IMPLAN multipliers for the State of Texas as a whole and for each of the individual counties in Texas.

## To summarize:

The total economic impact (total output) is comprised of the direct, indirect, and induced impacts from TMD economic activities.

Direct impacts result from expenditures associated with constructing and operating the Texas Military Department—employee salaries and wages, materials and supplies, capital.

Indirect impacts result from the suppliers/businesses to TMD purchasing goods and services and hiring workers to meet demand. These "second round" impacts would not occur but for purchases by TMD.

Induced impacts result from the employees of TMD and employees of suppliers purchasing goods and services at a household level.

## Appendix C

## Performing Organization: The Bureau of Business Research, IC ${ }^{2}$ Institute, The

## University of Texas at Austin

The Bureau of Business Research (BBR) was established in 1926 to provide small business owners and policymakers with applied economic research and data to strengthen the state's business environment. Throughout its history, the Bureau and its work has been characterized by objectivity and independence. The IC ${ }^{2}$ Institute was established in 1977 with the vision that science and technology are resources for economic development and enterprise growth. In addition to the BBR, the Institute oversees programs that include the Austin Technology Incubator, the Global Commercialization Group, and numerous educational and training initiatives, economic assessments, and program evaluations.

## Project Staff

Dr. James Jarrett, Senior Research Scientist, The Bureau of Business Research, served as the principal investigator. Brian Lewandowski, Associate Director, Business Research Division, Leeds School of Business, University of Colorado Boulder, served as the senior researcher. The research was performed in 2016.


[^0]:    ${ }^{1}$ Major active duty Army and Air Force bases in Texas such as Fort Hood, Fort Bliss, and Dyess Air Force Base, to name only a few, are not part of Texas Military Forces and not included in the economic analysis. For a much fuller description of Texas Military Forces, please see the latest Texas Military Biennial Report.

[^1]:    ${ }^{2}$ Please see Table 1.1. for definitions. A longer, less technical description of economic impact analysis, with Camp Mabry as an example, appears in Appendix B. Induced refers to the impacts from households. For this study, indirect and induced will be combined and these combined calculations will be referred to as "indirect."
    ${ }^{3}$ IMPLAN incorporates data compiled from the Bureau of Economic Analysis National Income and Product Accounts (NIPA) and Regional Economic Information System (REIS), and the Bureau of Labor Statistics (BLS) Consumer Expenditure Survey (CES), and the Census Bureau Annual Survey of State and Local Government Finances (SLGF).

[^2]:    ${ }^{4}$ These impacts are expressed in nominal terms and are not adjusted for inflation.

