

# Kansas Military Analysis

## Fiscal and Economic Impact of Military Activity in Kansas



Center for Economic Development and Business Research  
W. Frank Barton School of Business

Jeremy Hill, Director  
Debra Franklin, Regional Labor Force Analyst  
Kasey Jolly, Regional Economic Analyst  
Mary Jane Townsend, Research Associate

Prepared for



***November 2009***



## About the Governor's Military Council

The Governor's Military Council fosters cooperation between the installations and private and public sectors, and pursues initiatives to enhance the quality of life for all military personnel, active and retired. The council also assists in the development, coordination and execution of strategy required by any future change in missions proposed by the Department of Defense. The Council was established by Executive Order and has been charged to initiate, act upon and consider all necessary strategies to:

- Optimize the military presence in Kansas, including recruitment and retention of new missions and force structure;
- Actively foster close, effective cooperation among the installations and public and private sectors throughout the state;
- Pursue initiatives to enhance the quality of life for all military personnel, including active and retired;
- Promote Kansas as a desired location for all Department of Defense retirees;
- Assist in the transfer of technology between the military and the private sector to enhance the competitive posture of both in the national and global market;
- Explore and develop outreach opportunities for individuals retiring from military service to use their talent as members of the Kansas workforce; and
- Assist in the development, coordination and execution of strategy required by any future change in missions proposed by the Department of Defense.

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## Summary of Findings

A source of economic development often overlooked is the contribution of the military to the Kansas economy. Several military installations foster growth of the state’s economy by increasing private sector jobs and overall economic well-being, including: Forbes Field, Fort Leavenworth, Fort Riley, McConnell Air Force Base and Smoky Hills Air National Guard. The 2005 Base Realignment and Closure (BRAC) decisions, combined with decisions made by the Department of Defense regarding transformation, modularity and the global repositioning of military personnel and missions, highlighted the importance of the military’s contribution to the state’s economy.

Recognizing the importance of the military’s contribution to the state’s economy, the Governor’s Military Council and Kansas, Inc. commissioned a study to analyze the fiscal and economic impact of the military on the state of Kansas. The study was conducted by the Center for Economic Development and Business Research, W. Frank Barton School of Business, Wichita State University. The objective of the study was to determine the fiscal and economic impact from military employment, wages and contracts, as well as assess the impact to Kansas Gross State Product (GSP)

### Statewide Impact<sup>1</sup>

Military activity in the state of Kansas includes contracts awarded to companies in Kansas, and a portion of payments to retired individuals, and active duty civilian, reserve and National Guard personnel. **The combined total impact to GSP (output) was at least \$7.7 billion, or 7 percent of Kansas GSP in 2006.**

**The military directly and indirectly supported nearly 170,000 jobs (7.4 percent of total employment), paying a total of \$5.7 billion in wages (5.8 percent of state earnings in 2006).** Of the 170,000 jobs created by military activity, military contracts support an estimated 49,000 jobs in Kansas with an impact of \$1.9 billion to wages.

Output, employment and earnings creates fiscal impacts, or tax revenues to cities, counties and the state of Kansas. **The total fiscal impact from military activity to Kansas contributed \$49.9 million to city/county revenues, \$73.5 million to region (multiple counties) revenues and \$270.2 million to state revenues. Total tax revenue collections attributable to military activity was estimated to be \$393.6 million.**

Military activity, another component of the total impact, further affects the state economy by employing or providing income directly to individuals. This includes not only active duty, civilian, and reserve and National Guard personnel, but in some cases their dependents. These same people then create demands for local goods and services to supporting industries, such as retail trade, entertainment, housing and medical services. The additional demand and the direct military jobs equates to 120,000 of the nearly 170,000 jobs within Kansas, paying \$3.8 billion in wages.

Category	State of Kansas
Output	\$7.7 billion
Employment	169,560
Earnings	\$5.7 billion
Tax/Fiscal Impact	
City/County	\$49.9 million
Region	\$73.5 million
State	\$270.2 million
Total Revenue	\$393.6 million

<sup>1</sup> State figures consist of 2006 employment data, 2007 retiree data, and 2006 contract data.

## Installation Impact<sup>2</sup>

The study also calculated the fiscal and economic impact of Kansas military installations on their respective counties, regions<sup>3</sup> and the state. **(Note on comparisons between statewide and installation data: The installation impact does not provide a complete summary of the data used to create the statewide impact, thus the summation of the installation data will not equal the statewide data. This discrepancy is due to several factors, including: 1) The installation impact does not capture the additional military activity that may occur outside of their respective regions; 2) For analysis purposes, the statewide impact includes 2006 employment figures, while installation impact includes 2008 employment figures; and 3) Double counting may exist in the installation impact due to the overlap of installation regions.**

Category	Forbes Field	Fort Leavenworth	Fort Riley	McConnell Air Force Base	Smoky Hills Air National Guard
Output	\$20.5 million	\$146.2 million	\$82.7 million	\$1.8 billion	\$4.6 million
Employment	13,930	28,930	58,490	27,640	1,719
Earnings	\$357.2 million	\$985 million	\$2.1 billion	\$1.0 billion	\$15.6 million
Tax/Fiscal Impact					
City/County	\$6.5 million	\$7.0 million	\$15.5 million	\$9.5 million	\$ 323,000
Region	\$6.6 million	\$7.9 million	\$12.6 million	\$11.2 million	\$ 795,200
State	\$13.8 million	\$37.0 million	\$115.0 million	\$53.9 million	\$ 990,200
Total Revenue	\$26.9 million	\$51.9 million	\$143.1 million	\$74.6 million	\$2.1 million

### The Impact of a Gain or Loss of 1,000 Military Personnel

Assuming that all military contracts would continue at a constant rate, the loss of 1,000 military personnel would lead to a negative economic impact, and the gain of 1,000 military personnel would lead to an equal, but positive economic impact.

**The net annual fiscal impact of a gain or loss of 1,000 military personnel in Kansas would be \$460,913 on all cities, \$672,894 on all counties, and \$916,105 on the state, for a total net annual fiscal impact of \$2,049,915.**

**The total public benefits annually of a gain or loss of 1,000 military personnel would be \$4,366,802.**

<sup>2</sup> Installation figures consist of 2008 employment data, 2007 retiree data, and 2006 contract data.

<sup>3</sup> Installation regions include the five largest employee-contributing counties to the home county of each installation.

## Introduction

The Center for Economic Development and Business Research, W. Frank Barton School of Business, Wichita State University was given the task of analyzing the economic impact of military activity within the state of Kansas. The objective was to determine the fiscal and economic impact from employment, wages and contracts of the U.S. military, as well as assess the impact to Kansas gross state product. Finally, CEDBR was asked to determine the impact if 1,000 military personnel were to exit or enter the state of Kansas.

The Center analyzed three components of military activity including the number of retirees and their pay, direct military pay to civilians, active duty military personnel, and reserve and National Guard personnel, and the value of procurement contracts from ALL U.S. military issued to companies in Kansas. In doing so, CEDBR was able to follow the flows of money from the military to individuals, companies and taxing entities in the state.

Six summary tables, one for each installation and the state of Kansas, follow this page. Notable findings are listed below:

The total impact from military active duty, reserve and National Guard, civilian and retirees and ALL U.S. procurement contracts to Kansas companies created an economic impact to output of \$7.7 billion with employment impacts of 169,559 and earnings impact of \$5.7 billion.

- Forbes Field employment, earnings and procurement contracts generated \$20.5 million in total output, 13,932 jobs and payroll of \$357.2 million in 2006 in Kansas.
- Fort Leavenworth employment, earnings and procurement contracts generated \$146.2 million in total output, 28,927 jobs and payroll of \$985 million in 2006 in Kansas.
- Fort Riley employment, earnings and procurement contracts generated \$82.7 million in total output, 58,492 jobs and payroll of \$2.1 billion in 2006 in Kansas.
- McConnell Air Force Base employment, earnings and procurement contracts generated \$1.8 billion in total output, 27,640 jobs and payroll of \$1 billion in 2006 in Kansas.
- Smoky Hills Air National Guard employment, earnings and procurement contracts generated \$4.6 million in total output, 1,719 jobs and payroll of \$15.6 million in 2006 in Kansas.

The total impact from ALL U.S. military procurement contracts to Kansas output was \$7.7 billion, creating more than 49,000 jobs that earned more than \$1.9 billion in wages in 2006.

- Forbes Field procurement contracts generated \$20.5 million in total output, 115 jobs and payroll of \$5 million in 2006 in Kansas.
- Fort Leavenworth procurement contracts generated \$146.2 million in total output, 856 jobs and payroll of \$31.2 million in 2006 in Kansas.

- Fort Riley procurement contracts generated \$82.7 million in total output, 777 jobs and payroll of \$23.7 million in 2006 in Kansas.
- McConnell Air Force Base procurement contracts generated \$1.8 billion in total output, 10,677 jobs and payroll of \$460.9 million in 2006 in Kansas.
- Smoky Hills Air National Guard procurement contracts generated \$4.6 million in total output, 43 jobs and payroll of \$1.4 million in 2006 in Kansas.

The total impact from military active duty, reserve and National Guard, civilian and retirees contributed more than 120,000 employees and \$3.8 billion in wages and earnings in Kansas in 2006.

- Forbes Field supports 13,817 employees and \$352.2 million in wages and earnings in 2008.
- Fort Leavenworth supports 28,071 employees and \$953.8 million in wages and earnings in 2008.
- Fort Riley supports 57,714 employees and \$2.1 billion in wages and earnings in 2008.
- McConnell Air Force Base supports 16,963 employees and \$570 million in wages and earnings in 2008.
- Smoky Hills Air National Guard supports 1,676 employees and \$14.2 million in wages and earnings in 2008.

The total fiscal impacts from military active duty, reserve and National Guard, civilian and retirees, and ALL U.S. military procurement contracts to Kansas contributed \$50 million to city revenues, \$73.5 million to county revenues and \$270.2 million to state tax revenues.

- Forbes Field activity created \$6.5 million in tax revenues to the respective county, \$6.6 million in county tax revenues to the respective region and \$13.9 million in tax revenues to Kansas.
- Fort Leavenworth activity created \$7 million in tax revenues to the respective county, \$7.9 million in county tax revenues to the respective region and \$37 million in tax revenues to Kansas.
- Fort Riley activity created \$15.5 million in tax revenues to the respective counties, \$12.6 million in county tax revenues to the respective region and \$115 million in tax revenues to Kansas.
- McConnell Air Force Base activity created \$9.5 million in tax revenues to the respective county, \$11.3 million in county tax revenues to the respective region and \$53.9 million in tax revenues to Kansas.
- Smoky Hills Air National Guard activity created \$323,001 in tax revenues to the respective county, \$795,166 in county tax revenues to the respective region and \$990,258 in tax revenues to Kansas.

**Table 1. Summary Table of Findings - Kansas**

<b>Summary Table of Findings - KANSAS</b>		
<b>Impact from Military Active Duty, Reserve and National Guard, Civilians and Retirees</b>		
	<b>Direct</b>	<b>Total</b>
Employment	59,001	120,426
Earnings	\$1,880,579,000	\$3,783,078,128
<b>Impact from Kansas Installation to Kansas Company Procurement Contracts</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$1,103,629,327	\$2,275,907,782
Employment		13,172
Earnings		\$540,010,742
<b>Impact from ALL U.S. Installations to Kansas Company Procurement Contracts</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$3,803,686,328	\$7,660,520,987
Employment		49,133
Earnings		\$1,907,836,489
<b>Combined Economic Impact - Employment, Earnings and Kansas Installation to Kansas Company Procurement Contracts*</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$1,103,629,327	\$2,275,907,782
As a percent of Total Kansas Output		2.1%
Employment		133,598
As a percent of Total Kansas Employment		7.4%
Earnings		\$4,323,088,870
As a percent of Total Kansas Earnings		4.4%
<b>Combined Economic Impact - Employment, Earnings and ALL U.S. Installations to Kansas Company Procurement Contracts*</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$3,803,686,328	\$7,660,520,987
As a percent of Total Kansas Output		7.0%
Employment		169,559
As a percent of Total Kansas Employment		9.4%
Earnings		\$5,690,914,617
As a percent of Total Kansas Earnings		5.8%
		<b>Economic Impact</b>
	<b>Economic Impact based on military employment, retirees and ALL U.S. installations</b>	<b>Economic Impact based on military employment, retirees and ALL U.S. installations</b>
	<b>Kansas to Kansas Contract Information</b>	<b>to Kansas Contract Information</b>
Total Public Benefits - Cities	\$35,244,113	\$49,946,827
Total Public Benefits - Counties	\$51,788,833	\$73,471,026
Total Public Benefits - State	\$185,105,359	\$270,199,716
<b>Total Public Benefits</b>	<b>\$272,138,305</b>	<b>\$393,617,570</b>
*Compared to Bureau of Economic Analysis 2006 Data		

**Table 2. Summary Table of Findings – Forbes Field**

<b>Summary Table of Findings - Forbes Field*</b>		
<b>Impact from Military Active Duty, Reserve and National Guard, Civilians and Retirees</b>		
	<b>Direct</b>	<b>Total</b>
Employment	9,935	13,817
Earnings	\$241,706,569	\$352,184,960
<b>Economic Impact - Employment, Earnings and Procurement Contracts to Shawnee County</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$2,375,562	\$3,969,133
Employment		10,379
As a percent of County employment		9.0%
Earnings		\$264,860,993
As a percent of County earnings		4.6%
<b>Economic Impact - Employment, Earnings and Procurement Contracts to Forbes Field Region</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$11,144,679	\$18,620,738
Employment		12,529
As a percent of Region Employment		6.2%
Earnings		\$321,032,618
As a percent of Region Earnings		3.1%
<b>Economic Impact - Employment, Earnings and Procurement Contracts to Kansas</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$12,284,691	\$20,525,492
Employment		13,932
As a percent of Total Kansas Employment		1.2%
Earnings		\$357,165,059
As a percent of Total Kansas Earnings		0.9%
Total Public Benefits - County		\$6,470,312
Total Public Benefits - Region		\$6,630,792
Total Public Benefits - State		\$13,858,199
*Compared to Bureau of Economic Analysis 2006 Data		

**Table 3. Summary Table of Findings – Fort Leavenworth**

<b>Summary Table of Findings - Fort Leavenworth*</b>		
<b>Impact from Military Active Duty, Reserve and National Guard, Civilians and Retirees</b>		
	<b>Direct</b>	<b>Total</b>
Employment	16,596	28,071
Earnings	\$547,980,000	\$953,791,992
<b>Economic Impact - Employment, Earnings and Procurement Contracts to Leavenworth County</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$5,268,910	\$9,308,294
Employment		21,094
As a percent of County employment		58.6%
Earnings		\$716,833,701
As a percent of County earnings		32.7%
<b>Economic Impact - Employment, Earnings and Procurement Contracts to Ft. Leavenworth Region</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$78,801,903	\$139,214,990
Employment		25,998
As a percent of Region Employment		4.3%
Earnings		\$885,148,893
As a percent of Region Earnings		2.5%
<b>Economic Impact - Employment, Earnings and Procurement Contracts to Kansas</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$82,783,812	\$146,249,610
Employment		28,927
As a percent of Total Kansas Employment		2.5%
Earnings		\$984,999,872
As a percent of Total Kansas Earnings		2.5%
Total Public Benefits - County		\$7,015,212
Total Public Benefits - Region		\$7,941,821
Total Public Benefits - State		\$37,037,599
*Compared to Bureau of Economic Analysis 2006 Data		

**Table 4. Summary Table of Findings – Fort Riley**

<b>Summary Table of Findings - Fort Riley*</b>		
<b>Impact from Military Active Duty, Reserve and National Guard, Civilians and Retirees</b>		
	<b>Direct</b>	<b>Total</b>
Employment	29,512	57,714
Earnings	\$1,179,361,284	\$2,134,062,830
<b>Economic Impact - Employment, Earnings and Procurement Contracts to Riley and Geary Counties</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$22,236,804	\$34,898,363
Employment		43,532
As a percent of County employment		69.3%
Earnings		\$1,608,043,764
As a percent of County earnings		52.8%
<b>Economic Impact - Employment, Earnings and Procurement Contracts to Ft. Riley Region</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$24,398,332	\$38,290,658
Employment		52,267
As a percent of Region Employment		55.4%
Earnings		\$1,930,526,969
As a percent of Region Earnings		43.8%
<b>Economic Impact - Employment, Earnings and Procurement Contracts to Kansas</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$52,715,170	\$82,731,005
Employment		58,492
As a percent of Total Kansas Employment		5.1%
Earnings		\$2,134,063,608
As a percent of Total Kansas Earnings		5.4%
Total Public Benefits - Counties		\$15,479,974
Total Public Benefits - Region		\$12,625,016
Total Public Benefits - State		\$114,977,124
*Compared to Bureau of Economic Analysis 2006 Data		

**Table 5. Summary Table of Findings – McConnell AFB**

<b>Summary Table of Findings - McConnell AFB*</b>		
<b>Impact from Military Active Duty, Reserve and National Guard, Civilians and Retirees</b>		
	<b>Direct</b>	<b>Total</b>
Employment	10,187	16,963
Earnings	\$327,907,722	\$569,950,304
<b>Economic Impact - Employment, Earnings and Procurement Contracts to Sedgwick County</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$938,809,682	\$1,804,555,694
Employment		20,704
As a percent of County employment		6.5%
Earnings		\$771,985,362
As a percent of County earnings		4.3%
<b>Economic Impact - Employment, Earnings and Procurement Contracts to McConnell AFB Region</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$940,649,581	\$1,808,045,938
Employment		24,863
As a percent of Region Employment		6.2%
Earnings		\$927,182,056
As a percent of Region Earnings		4.1%
<b>Economic Impact - Employment, Earnings and Procurement Contracts to Kansas</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$941,912,788	\$1,810,473,979
Employment		27,640
As a percent of Total Kansas Employment		2.4%
Earnings		\$1,030,820,362
As a percent of Total Kansas Earnings		2.6%
Total Public Benefits - County		\$9,516,846
Total Public Benefits - Region		\$11,252,869
Total Public Benefits - State		\$53,863,819
*Compared to Bureau of Economic Analysis 2006 Data		

**Table 6. Summary Table of Findings – Smoky Hill ANG**

<b>Summary Table of Findings - Smoky Hill ANG*</b>		
<b>Impact from Military Active Duty, Reserve and National Guard, Civilians and Retirees</b>		
	<b>Direct</b>	<b>Total</b>
Employment	1,444	1,676
Earnings	\$8,471,347	\$14,224,728
<b>Economic Impact - Employment, Earnings and Procurement Contracts to Saline County</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$1,264,287	\$2,082,137
Employment		1,272
As a percent of County employment		3.2%
Earnings		\$11,130,117
As a percent of County earnings		0.6%
<b>Economic Impact - Employment, Earnings and Procurement Contracts to Smoky Hill Region</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$2,348,708	\$3,746,915
Employment		1,540
As a percent of Region Employment		1.9%
Earnings		\$13,799,001
As a percent of Region Earnings		0.4%
<b>Economic Impact - Employment, Earnings and Procurement Contracts to Kansas</b>		
	<b>Direct</b>	<b>Total</b>
Output	\$2,894,581	\$4,624,030
Employment		1,719
As a percent of Total Kansas Employment		0.2%
Earnings		\$15,591,477
As a percent of Total Kansas Earnings		0.0%
Total Public Benefits - County		\$323,001
Total Public Benefits - Region		\$795,166
Total Public Benefits - State		\$990,258
*Compared to Bureau of Economic Analysis 2006 Data		

## Methodology

The initial phase of the project required CEDBR to define two parameters, time period and regional installation borders. The time period was defined by the availability of comparable data. In order to calculate the fiscal and economic impact of military activity to Kansas and specific installation regions, the following data was needed:

- Active duty, reserve and National Guard, and civilian employment, wages and contracts information, which was obtained from 2006 Department of Defense data.
- Retiree information was obtained from the Bureau of Economic Analysis 2007 data.

Journey to work data provided by the 2000 Census was used to define installation regions. The economic impact of each installation was assessed to Kansas, the respective region and county in which the installation is based. Economic regions include the five largest employee contributing counties to the home county of the installation:

- 190<sup>th</sup> at Forbes Field
  - Kansas
  - Respective Region: Shawnee, Douglas, Osage, Jackson and Jefferson Counties
  - Shawnee County - Installation
- Fort Riley
  - Kansas
  - Respective Region: Geary, Riley, Clay, Pottawatomie and Dickinson Counties
  - Riley and Geary Counties - Installation
- Fort Leavenworth
  - Kansas
  - Respective Region: Leavenworth, Jefferson, Douglas, Wyandotte and Johnson Counties
  - Leavenworth County - Installation
- McConnell Air Force Base
  - Kansas
  - Respective Region: Sedgwick, Butler, Cowley, Sumner and Harvey Counties
  - Sedgwick County - Installation
- Smoky Hills Weapons Range
  - Kansas
  - Respective Region: Saline, McPherson, Ellsworth, Dickinson and Ottawa Counties
  - Saline County - Installation

## Assumptions

It was assumed that 35 percent of all wages were subject to retail sales tax. It was further assumed that 100 percent of wages were subject to federal income tax, as well as state income tax except for retiree pay. The average household size in Kansas was determined based on Census Bureau, 2005-2007 American Community Survey 3-Year Estimates. The household size used was 2.47.

CEDBR calculates the benefits and costs using the Fiscal Benefit Cost Model. The model takes into account substitution between industry and multipliers. In addition, it looks at the flows of money from a company or entity to taxing districts and the flows from the taxing district to the new company. CEDBR looks at income streams from construction spending, new sales and purchases of the entity under review, employees and the payrolls associated with employees.

The model takes each benefit and rolls it through the appropriate tax. As an example, the employees get wages which are income taxed. The employees spend their income on housing, which is assessed a property tax, and on retail trade, which is assessed retail sales tax.

CEDBR then takes the fiscal benefits (tax collections) to the city, county, and state and compares them to the costs. Costs include the cost of providing incentives, the cost of providing for new students in our school districts and any additional costs associated with an entity. For the purpose of this project, costs associated with new students were calculated. Any additional costs of providing services at the city and county levels were omitted due to the variability between taxing regions.

To calculate the benefit cost ratio we simply divide the benefits by the costs.

All data is subject to a multiplier effect, as well as a substitution effect.

Substitution occurs when new investment merely displaces current resources and jobs from one entity to another. Expansion in some industries leads to no net economic impact on the region. For example, expansion of a fast-food chain will generally displace consumers and workers from existing fast-food restaurants, but not contribute to new consumers or additional jobs to the local economy. Likewise expansion of healthcare facilities may enhance the ability to serve the local community, but if it does not bring in new patients from either inside or outside the local community, it does not necessarily lead to economic expansion. Though it could be argued that the new facility offers new services unique to the local community, these cases must be reviewed individually.

RIMS II multipliers from the Bureau of Economic Analysis, aggregated for the state of Kansas, were used to calculate total economic impacts from industry expansion, net of substitution. The notion of a multiplier effect arises due to the interrelatedness of local industries. If the demand for aviation products increases, this will lead to an increase in demand from industry suppliers. Therefore, payroll increases as a direct result of the expanding firm's operations and indirectly as a result of the expanding firm's increase in demand for locally supplied inputs. The multiplier also addresses the relationship between wages and employee demands on supporting industries, such as retail trade. There is a need for additional employees, who earn wages, as sales in retail trade industries increase. This induced effect measures the impact of expenditures of direct employees to retail and other industries. The total effect of expansion is the sum of these direct, indirect and induced effects.

RIMS II multipliers are available for final demand output, earnings and employment and were used to assess the economic impact of military contracts. Final demand multipliers are used to assess the effect a change in output in one industry has on other industries within an economic region. Contract data were obtained from 2006 Department of Defense procurement data. Contracts data were sorted by

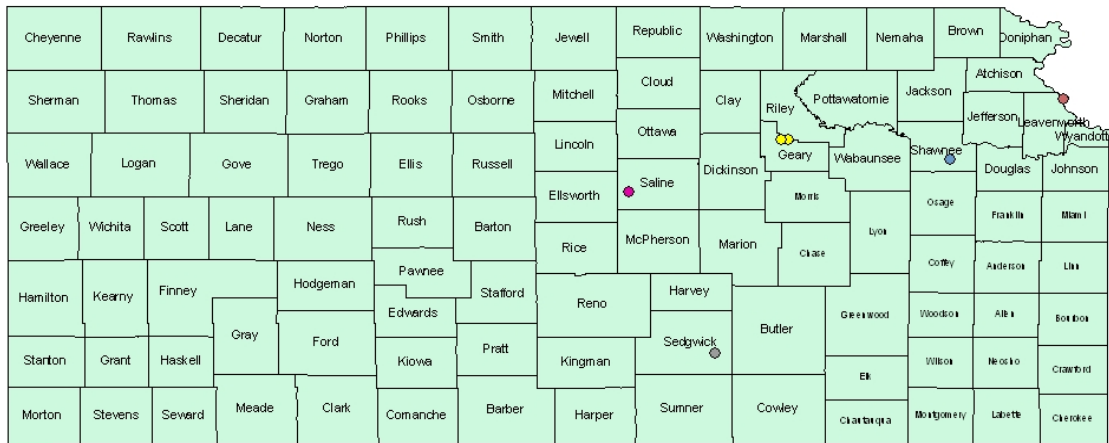
expenditures by installation by industry within the state of Kansas. It is assumed that the value of procurement contracts is all value-added by the end contract recipient.

Direct effect multipliers are reported for both employment and earnings impacts and were used in determining the direct effect of active duty, reserve and National Guard, and civilian employment and wages. Direct effect multipliers calculate the change in total employment based on a change in a specific industry's employment.

For the purpose of this report, active duty, reserve and National Guard, and civilian data were classified as **Other Government Enterprises, NAICS code S00A00**. For the purpose of this report the **Household multiplier, NAICS code H00000** was used in correlation with retiree data.

## Economic Impact of Military Operations in Kansas

### Kansas Military Installations



**Legend**

- Fort Riley
- Smokey Hills
- McConnell AFB
- Fort Leavenworth
- Forbes Field

Source: Based on Kansas Army National Guard areas, as shown on [www.kansasarmynationalguard.com](http://www.kansasarmynationalguard.com).  
 Compiled by: Center for Economic Development and Business Research, W. Frank Barton School of Business, Wichita State University.

Data used to assess the economic impact of direct employees and direct payments to individuals can be found in Table 7. The total number of active duty, reserve and National Guard and civilian employees in 2006, per Department of Defense data, was 39,668. These individuals received total wages of \$1.5 billion in 2006. The number of retired military individuals in 2007, per the Bureau of Economic Analysis, was 19,333. The retired individuals received \$416.6 million in compensation in 2007.

**Table 7. Military Wages and Personnel - Kansas**

<b>Military Wages and Personnel</b>	
<b>Active Duty, Reserve and National Guard, and Civilian Employment - 2006 DoD</b>	<b>39,668</b>
Active Duty Military	17,645
Reserve and National Guard	15,446
Civilian	6,577
<b>Active Duty, Reserve and National Guard, and Civilian Wages - 2006 DoD</b>	<b>\$1,463,979,000</b>
Active Duty Military	\$889,660,000
Reserve and National Guard	\$201,183,000
Civilian	\$373,136,000
<b>Retired Military - 2007 BEA</b>	
Individuals Receiving Retired Military Pay	19,333
Retired Military Pay	\$416,600,000

Using RIMS II multipliers, the economic impact of personnel and individuals paid by the U.S. military can be found in Table 8.

**Table 8. Military Wages and Personnel – with Multiplier - Kansas**

<b>Military Wages and Personnel - with Multiplier*</b>				
<b>Active Duty, Reserve and National Guard, and Civilian Employment - 2006 DoD</b>	<b>Direct, Table 1</b>	<b>Multiplier</b>	<b>Indirect/Induced</b>	<b>Total</b>
Active Duty Military	17,645	2.4154	24,975	42,620
Reserve and National Guard	15,446	2.4154	21,862	37,308
Civilian	6,577	2.4154	9,309	15,886
<b>Active Duty, Reserve and National Guard, and Civilian Wages - 2006 DoD</b>				
Active Duty Military	\$889,660,000	2.1996	\$1,067,236,136	\$1,956,896,136
Reserve and National Guard	\$201,183,000	2.1996	\$241,339,127	\$442,522,127
Civilian	\$373,136,000	2.1996	\$447,613,946	\$820,749,946
<b>Retired Military - 2007 BEA</b>				
Individuals Receiving Retired Military Pay	19,333	1.2731	5,279	24,612
Retired Military Pay	\$416,600,000	1.3512	\$146,309,920	\$562,909,920
<b>TOTAL</b>				
Employment Impact	59,001	2.0411	61,425	120,426
Wage Impact	\$1,880,579,000	2.0117	\$1,902,499,128	\$3,783,078,128

\*Sums may not equal totals due to rounding.

Data obtained through the Department of Defense provided procurement contract information. There are two ways to view the data, as total expenditures and as total revenues. Negative values may occur in the revenues section due to military credits or contracts performed by military installations. The total amount of expenditures by installation within the state of Kansas was \$1.7 billion in 2006. Of the \$1.7 billion, \$1.1 billion, or nearly 65 percent, was spent in Kansas. Total revenues to the state of Kansas are based on all U.S. military expenditures that went to companies within Kansas. Based on the total revenues data, \$3.8 billion in contracts were awarded to Kansas companies, or the equivalent of 3.5 percent of Kansas gross state product.

**Table 9. Contract Information – 2006 DoD - Kansas**

<b>Contracts Information - 2006 DoD</b>	
<b>Expenditures - by Kansas Installations</b>	<b>\$1,705,682,609</b>
Expenditures - by Kansas in Kansas	\$1,103,629,327
Percentage of Expenditures of Kansas Installations spent in Kansas	64.7%
Agriculture, forestry, fishing, and hunting	\$143,796
Mining	\$37,291
Utilities	\$9,750,473
Construction	\$30,296,844
Manufacturing	\$882,393,977
Wholesale trade	\$7,568,899
Retail trade	\$17,570,202
Transportation and warehousing	-\$351,941
Information	\$964,886
Finance and insurance	\$135,125
Real estate and rental and leasing	\$8,233,714
Professional, scientific, and technical services	\$99,554,110
Management of companies and enterprises	\$0
Administrative and waste management services	\$38,567,693
Educational services	\$2,402,904
Health care and social assistance	\$1,044,372
Arts, entertainment, and recreation	\$124,625
Accommodation and food services	\$3,122,338
Other services	\$2,070,019
<b>Revenues from Contracts to Kansas from U.S. Installations as a percentage of 2006 Kansas GSP</b>	<b>1.0%</b>
<b>Contracts Information - 2006 DoD</b>	
<b>Revenues to Kansas Companies from ALL U.S. Installations</b>	<b>\$3,803,686,328</b>
Agriculture, forestry, fishing, and hunting	\$166,939
Mining	\$354,877
Utilities	\$31,992,721
Construction	\$537,906,381
Manufacturing	\$1,562,848,516
Wholesale trade	\$1,110,580,462
Retail trade	\$19,157,634
Transportation and warehousing	\$10,621,959
Information	\$12,342,641
Finance and insurance	\$125,905
Real estate and rental and leasing	\$12,106,991
Professional, scientific, and technical services	\$372,044,573
Management of companies and enterprises	\$0
Administrative and waste management services	\$114,854,610
Educational services	\$2,626,184
Health care and social assistance	\$3,163,180
Arts, entertainment, and recreation	\$219,130
Accommodation and food services	\$6,279,097
Other services	\$6,294,528
<b>Revenues from Contracts to Kansas from U.S. Installations as a percentage of 2006 Kansas GSP</b>	<b>3.5%</b>

Using RIMS II multipliers, the economic impact of procurement contracts by the U.S. military to Kansas companies can be found in Table 10. The total economic impact to output by procurement contracts from Kansas installations to Kansas companies was \$2.3 billion in 2006. The total economic impact to output by procurement contracts from ALL U.S. installations to Kansas was \$7.7 billion in 2006. Additional impact information based on procurement contracts from ALL U.S. installations to Kansas by 59 detailed industries can be found in Appendix A.

**Table 10. Total Economic Impact on Output from Procurement Contracts - Kansas**

<b>Total Economic Impact on Output from Procurement Contracts</b>				
	<b>Direct Expenditures within Kansas</b>	<b>Total Economic Impact from Procurement Contracts from Kansas to Kansas</b>	<b>Direct Revenues to Kansas Companies</b>	<b>Total Economic Impact from Procurement Contracts from ALL installations to Kansas</b>
<b>Revenues - to Kansas from U.S. Installations</b>	<b>\$1,103,629,327</b>	<b>\$2,275,907,782</b>	<b>\$3,803,686,328</b>	<b>\$7,660,520,987</b>
Agriculture, forestry, fishing, and hunting	\$143,796	\$38,064,856	\$166,939	\$68,614,831
Mining	\$37,291	\$8,571,586	\$354,877	\$186,208,839
Utilities	\$9,750,473	\$37,711,942	\$31,992,721	\$147,561,011
Construction	\$30,296,844	\$36,577,042	\$537,906,381	\$559,799,315
Manufacturing	\$882,393,977	\$1,273,415,953	\$1,562,848,516	\$2,447,127,978
Wholesale trade	\$7,568,899	\$97,403,526	\$1,110,580,462	\$1,393,992,301
Retail trade	\$17,570,202	\$85,423,520	\$19,157,634	\$288,248,047
Transportation and warehousing	-\$351,941	\$47,987,576	\$10,621,959	\$205,897,882
Information	\$964,886	\$47,437,802	\$12,342,641	\$193,747,061
Finance and insurance	\$135,125	\$74,495,079	\$125,905	\$264,087,565
Real estate and rental and leasing	\$8,233,714	\$100,572,150	\$12,106,991	\$366,460,039
Professional, scientific, and technical services	\$99,554,110	\$159,056,728	\$372,044,573	\$597,020,181
Management of companies and enterprises	\$0	\$28,971,669	\$0	\$93,584,041
Administrative and waste management services	\$38,567,693	\$68,565,954	\$114,854,610	\$250,840,573
Educational services	\$2,402,904	\$16,206,103	\$2,626,184	\$48,767,133
Health care and social assistance	\$1,044,372	\$77,718,091	\$3,163,180	\$274,297,583
Arts, entertainment, and recreation	\$124,625	\$5,272,660	\$219,130	\$18,460,369
Accommodation and food services	\$3,122,338	\$37,204,712	\$6,279,097	\$125,437,551
Other services	\$2,070,019	\$35,250,834	\$6,294,528	\$130,368,686
<b>Revenues from Contracts to Kansas from U.S. Installations as a percentage of 2006 Kansas GSP</b>	<b>1.0%</b>	<b>2.1%</b>	<b>3.5%</b>	<b>7.0%</b>

Procurement contracts go to companies, in this case, in Kansas. These companies then create a product to fulfill that contract. It requires employees to create products. Total impacts to earnings and employment based on procurement contracts can be calculated using RIMS II multipliers. Using procurement data, Table 11 illustrates the economic impact to earnings in the state of Kansas. Table 12 illustrates the economic impact to employment in the state of Kansas. The total economic impact to earnings based on procurement contracts from Kansas military installations to Kansas companies in

2006 was \$540 million. The total economic impact to earnings based on procurement contracts from ALL military installations in 2006 was \$1.9 billion. Procurement contracts from Kansas based U.S. military installations supported 13,172 industry specific full-time equivalent positions in 2006. Procurement contracts from ALL U.S. military installations supported 49,133 industry specific full-time equivalent positions in 2006. Additional impact information by 59 detailed industries can be found in Appendix A.

**Table 11. Contract Supported Earnings – with Multiplier - Kansas**

<b>Contract Supported Earnings - with Multiplier</b>		
	<b>Earnings - to Kansas Companies from Kansas based U.S. Military Procurement Contracts</b>	<b>Earnings - to Kansas Companies from ALL U.S. Military Procurement Contracts</b>
<b>TOTAL - All industries</b>	<b>\$540,010,742</b>	<b>\$1,907,836,489</b>
Agriculture, forestry, fishing, and hunting	\$3,954,651	\$7,138,141
Mining	\$1,588,739	\$32,901,361
Utilities	\$6,507,298	\$25,479,066
Construction	\$11,942,969	\$183,144,016
Manufacturing	\$247,150,738	\$395,854,028
Wholesale trade	\$26,993,516	\$385,875,167
Retail trade	\$26,305,689	\$88,696,378
Transportation and warehousing	\$13,298,285	\$59,942,740
Information	\$10,322,809	\$41,804,190
Finance and insurance	\$16,885,265	\$59,652,397
Real estate and rental and leasing	\$4,422,363	\$18,136,807
Professional, scientific, and technical services	\$62,644,840	\$235,163,801
Management of companies and enterprises	\$13,312,583	\$42,995,130
Administrative and waste management services	\$25,374,891	\$89,965,009
Educational services	\$6,735,235	\$20,324,279
Health care and social assistance	\$35,721,872	\$125,963,242
Arts, entertainment, and recreation	\$1,890,339	\$6,709,163
Accommodation and food services	\$13,357,379	\$45,206,515
Other services	\$11,601,279	\$42,885,059

**Table 12. Contract Supported Employment – with Multiplier - Kansas**

<b>Contract Supported Employment - with Multiplier</b>		
	<b>Employment - to Kansas Companies from Kansas based U.S. Military Procurement Contracts</b>	<b>Employment - to Kansas Companies from ALL U.S. Military Procurement Contracts</b>
<b>TOTAL - All industries</b>	<b>13,172</b>	<b>49,133</b>
Agriculture, forestry, fishing, and hunting	368	663
Mining	23	471
Utilities	76	296
Construction	354	5,413
Manufacturing	3,677	5,926
Wholesale trade	516	7,391
Retail trade	1,328	4,481
Transportation and warehousing	340	1,418
Information	195	799
Finance and insurance	406	1,433
Real estate and rental and leasing	247	939
Professional, scientific, and technical services	1,319	4,950
Management of companies and enterprises	193	624
Administrative and waste management services	1,051	3,644
Educational services	373	1,123
Health care and social assistance	1,047	3,717
Arts, entertainment, and recreation	143	504
Accommodation and food services	971	3,330
Other services	544	2,011

The fiscal impact of military wages and employment, as well as procurement contracts, can be calculated based on the above findings. Fiscal benefits come from new retail sale spending, property taxes and personal income taxes. Fiscal costs are associated with the costs of educating new students.

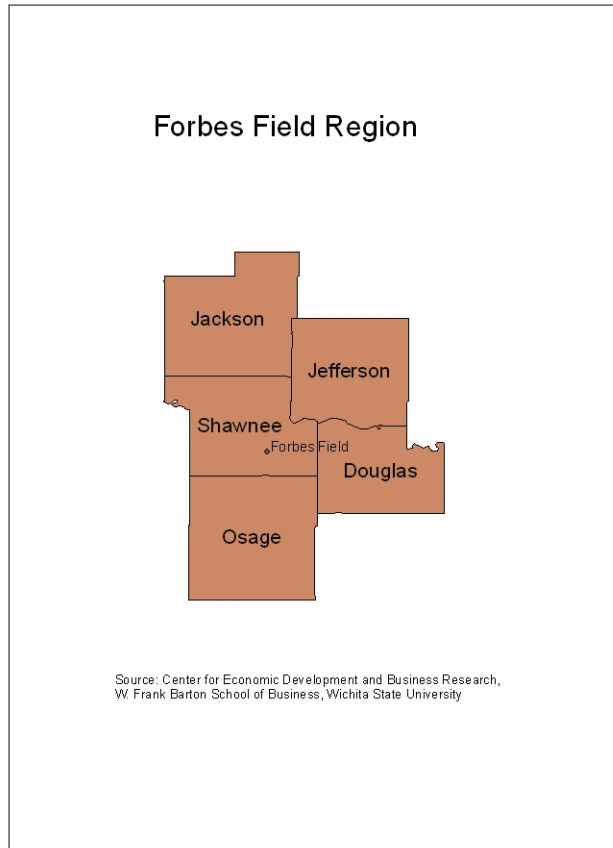
CEDBR used the average tax rates in all Kansas cities and in all Kansas counties to calculate the fiscal impact to cities and counties. The total fiscal impact on all cities in Kansas based on military employment, retirees and Kansas installation contracts to Kansas company’s information is \$35.2 million. The fiscal impact to all counties in Kansas is \$51.8 million. The public benefits to the state of Kansas from U.S. military activity in Kansas are \$190.5, million with costs estimated to be \$104.1 million for a benefit-cost ratio of 1.83.

The total fiscal impact on all cities in Kansas based on military employment, retirees and ALL U.S. installation contracts to Kansas is \$49.9 million. The fiscal impact to all counties in Kansas is \$73.5 million. The public benefits to the state of Kansas from U.S. military activity in Kansas are \$270.2, million with costs estimated to be \$104.1 million for a benefit-cost ratio of 2.59.

**Table 13. Fiscal Impact - Kansas**

<b>FISCAL IMPACT</b>		
<b>Cities in Kansas - using average city taxing rates</b>		
	<b>Economic Impact based on military employment, retirees and Kansas to Kansas Contract Information</b>	<b>Economic Impact based on military employment, retirees and ALL U.S. installations to Kansas Contract Information</b>
Present value of net benefits	\$35,244,113	\$49,946,827
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period	\$35,244,113	\$49,946,827
Public costs 1-year period	\$0	\$0
ROI	NA	NA
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period	\$35,244,113	\$49,946,827
Public costs 1-year period	\$0	\$0
Benefit-Cost Ratio	NA	NA
<b>Counties in Kansas - using average county taxing rates</b>		
	<b>Economic Impact based on military employment, retirees and Kansas to Kansas Contract Information</b>	<b>Economic Impact based on military employment, retirees and ALL U.S. installations to Kansas Contract Information</b>
Present value of net benefits	\$51,788,833	\$73,471,026
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period	\$51,788,833	\$73,471,026
Public costs 1-year period	\$0	\$0
ROI	NA	NA
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period	\$51,788,833	\$73,471,026
Public costs 1-year period	\$0	\$0
Benefit-Cost Ratio	NA	NA
<b>State Fiscal Impacts</b>		
	<b>Economic Impact based on military employment, retirees and Kansas to Kansas Contract Information</b>	<b>Economic Impact based on military employment, retirees and ALL U.S. installations to Kansas Contract Information</b>
Present value of net benefits	\$80,967,172	\$166,061,529
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period	\$80,967,172	\$166,061,529
Public costs 1-year period	\$104,138,187	\$104,138,187
ROI	77.7%	159.5%
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period	\$185,105,359	\$270,199,716
Public costs 1-year period	\$104,138,187	\$104,138,187
Benefit-Cost Ratio	1.78	2.59

## Economic Impact of Forbes Field Military Operations



Data used to assess the economic impact of direct employees and direct payments to individuals can be found in Table 14. The total number of active duty, reserve and National Guard, and civilian employees in 2008, per Forbes Field data, was 1,274. These individuals received total wages of \$49.9 million in 2008. The number of retired military individuals in 2006, per the Department of Defense, was 8,661. The retired individuals received \$191.8 million in compensation that year.

**Table 14. Military Wages and Personnel – Forbes Field**

<b>Military Wages and Personnel</b>	
<b>Active Duty, Reserve and National Guard, and Civilian Employment</b>	<b>1,274</b>
Active Duty Military	94
Reserve and National Guard	895
Civilian	285
<b>Active Duty, Reserve and National Guard, and Civilian Wages</b>	<b>\$49,898,569</b>
Active Duty Military	\$10,602,366
Reserve and National Guard	\$16,721,915
Civilian	\$22,574,288
<b>Retired Military - 2006 DoD</b>	
Individuals Receiving Retired Military Pay	8,661
Retired Military Pay	\$191,808,000

Using RIMS II multipliers, the economic impact of personnel and individuals paid by the U.S. military installation at Forbes Field can be found in Table 15.

**Table 15. Military Wages and Personnel – with Multiplier – Forbes Field**

<b>Military Wages and Personnel - with Multiplier</b>				
<b>Active Duty, Reserve and National Guard, and Civilian Employment</b>	<b>Direct, Table 1</b>	<b>Multiplier</b>	<b>Indirect/Induced</b>	<b>Total</b>
Active Duty Military	94	2.1881	112	206
Reserve and National Guard	895	2.1881	1,063	1,958
Civilian	285	2.1881	339	624
<b>Active Duty, Reserve and National Guard, and Civilian Wages</b>				
Active Duty Military	\$10,602,366	1.9444	\$10,012,874	\$20,615,240
Reserve and National Guard	\$16,721,915	1.9444	\$15,792,177	\$32,514,092
Civilian	\$22,574,288	1.9444	\$21,319,158	\$43,893,446
<b>Retired Military - 2006 DoD</b>				
Individuals Receiving Retired Military Pay	8,661	1.2734	2,368	11,029
Retired Military Pay	\$191,808,000	1.3303	\$63,354,182	\$255,162,182
<b>TOTAL</b>				
Employment Impact	9,935	1.3907	3,882	13,817
Wage Impact	\$241,706,569	1.4571	\$110,478,391	\$352,184,960

Data obtained through the Department of Defense provided procurement contract information. There are two ways to view the data, as total expenditures and as total revenues. The total amount of expenditures by the Forbes Field installation was \$20 million. Expenditures of Forbes Field within the state of Kansas are viewed as revenues to companies in Kansas. Total revenues to Kansas companies from expenditures by Forbes Field were \$12.3 million in 2006. Total revenues to the Forbes Field Region from expenditures by Forbes Field were \$11.1 million in 2006 or the equivalent of 55.7 percent of all expenditures by Forbes Field. The economic output impact of Forbes Field to the installation's home county, Shawnee County, totaled \$2.4 million in 2006, or 11.9 percent of all expenditures.

**Table 16. Contracts Information – 2006 DoD – Forbes Field**

<b>Contracts Information - 2006 DoD</b>	
<b>Expenditures - by Forbes Field</b>	<b>\$20,021,625</b>
Revenues to Kansas from Expenditures by Forbes Field	\$12,284,691
As a Percentage of Total Expenditures	61.4%
Revenues to Forbes Field Region from Expenditures by Forbes Field	\$11,144,679
As a Percentage of Total Expenditures	55.7%
Revenues to Shawnee County from Expenditures by Forbes Field	\$2,375,562
As a Percentage of Total Expenditures	11.9%

Using RIMS II multipliers, the economic impact of procurement contracts by the U.S. military Forbes Field installation to Kansas, the Forbes Field Region and Shawnee County companies can be found in Table 17. The total economic impact to output by procurement contracts of Forbes Field to Kansas was \$20.5 million, to the Forbes Field Region was \$18.6 million and to Shawnee County was \$4 million in 2006.

**Table 17. Economic Impact – Procurement Contracts Information – Total Output - Forbes Field**

<b>Economic Impact - Procurement Contracts Information - Total Output - 2006 DoD - with Multiplier</b>			
	<b>Contract Dollar Impacts - to Kansas</b>	<b>Contract Dollar Impacts - to Forbes Field Region</b>	<b>Contract Dollar Impacts - to Shawnee County</b>
<b>Revenues - from Forbes Field</b>	<b>\$20,525,492</b>	<b>\$18,620,738</b>	<b>\$3,969,133</b>
Agriculture, forestry, fishing, and hunting	\$22,333	\$20,260	\$4,319
Mining	\$5,261	\$4,772	\$1,017
Utilities	\$375,625	\$340,767	\$72,637
Construction	\$513,280	\$465,648	\$99,256
Manufacturing	\$7,987,306	\$7,246,089	\$1,544,552
Wholesale trade	\$660,178	\$598,914	\$127,662
Retail trade	\$1,066,971	\$967,956	\$206,326
Transportation and warehousing	\$498,712	\$452,432	\$96,439
Information	\$447,419	\$405,899	\$86,520
Finance and insurance	\$871,962	\$791,044	\$168,616
Real estate and rental and leasing	\$1,209,504	\$1,097,263	\$233,889
Professional, scientific, and technical services	\$3,480,088	\$3,157,138	\$672,965
Management of companies and enterprises	\$180,303	\$163,571	\$34,866
Administrative and waste management services	\$862,247	\$782,231	\$166,738
Educational services	\$380,010	\$344,745	\$73,485
Health care and social assistance	\$855,263	\$775,895	\$165,387
Arts, entertainment, and recreation	\$38,538	\$34,961	\$7,452
Accommodation and food services	\$709,848	\$643,975	\$137,267
Other services	\$360,645	\$327,177	\$69,740

Procurement contracts go to companies, in this case, in Kansas and the respective regions. These companies then create a product to fulfill that contract. This requires labor input. Total impacts to earnings and employment based on procurement contracts can be calculated using RIMS II multipliers. Using procurement data, Table 18 illustrates the economic impact to earnings in the state of Kansas, the

Forbes Field Region and Shawnee County. Table 19 illustrates the economic impact to employment in the state of Kansas, the Forbes Field Region and Shawnee County. The total economic impact to earnings based on procurement contracts in 2006 was \$5.9 million in Kansas, \$5.4 million in the Forbes Field Region and \$1.1 million in Shawnee County. Procurement contracts supported 160 full-time equivalent positions in Kansas, 145 in the Forbes Field Region and 31 in Shawnee County in 2006.

**Table 18. Economic Impact – Procurement Contracts Information – Total Earnings – Forbes Field**

<b>Economic Impact - Procurement Contracts Information - Total Earnings - 2006 DoD - with Multiplier</b>			
	<b>Contract Dollar Impacts - to Kansas</b>	<b>Contract Dollar Impacts - to Forbes Field Region</b>	<b>Contract Dollar Impacts - to Shawnee County</b>
<b>Revenues - from Forbes Field</b>	<b>\$4,980,099</b>	<b>\$4,517,949</b>	<b>\$963,031</b>
Agriculture, forestry, fishing, and hunting	\$0	\$0	\$0
Mining	\$0	\$0	\$0
Utilities	\$0	\$0	\$0
Construction	\$0	\$0	\$0
Manufacturing	\$0	\$0	\$0
Wholesale trade	\$2,087	\$1,893	\$404
Retail trade	\$1,216	\$1,103	\$235
Transportation and warehousing	\$67,180	\$60,946	\$12,991
Information	\$178,772	\$162,182	\$34,570
Finance and insurance	\$1,722,442	\$1,562,600	\$333,079
Real estate and rental and leasing	\$195,916	\$177,735	\$37,885
Professional, scientific, and technical services	\$343,481	\$311,606	\$66,421
Management of companies and enterprises	\$190,191	\$172,541	\$36,778
Administrative and waste management services	\$110,189	\$99,963	\$21,308
Educational services	\$215,281	\$195,303	\$41,630
Health care and social assistance	\$68,728	\$62,351	\$13,290
Arts, entertainment, and recreation	\$1,464,659	\$1,328,740	\$283,230
Accommodation and food services	\$69,388	\$62,949	\$13,418
Other services	\$350,570	\$318,037	\$67,792

**Table 19. Economic Impact – Procurement Contracts Information – Total Employment – Forbes Field**

<b>Economic Impact - Procurement Contracts Information - Total Employment - 2006 DoD - with Multiplier</b>			
	<b>Contract Dollar Impacts - to Kansas</b>	<b>Contract Dollar Impacts - to Forbes Field Region</b>	<b>Contract Dollar Impacts - to Shawnee County</b>
<b>Revenues - from Forbes Field</b>	<b>115</b>	<b>104</b>	<b>22</b>
Agriculture, forestry, fishing, and hunting	-	-	-
Mining	-	-	-
Utilities	-	-	-
Construction	-	-	-
Manufacturing	-	-	-
Wholesale trade	0	0	0
Retail trade	0	0	0
Transportation and warehousing	1	1	0
Information	5	5	1
Finance and insurance	25	23	5
Real estate and rental and leasing	4	3	1
Professional, scientific, and technical services	17	16	3
Management of companies and enterprises	5	4	1
Administrative and waste management services	2	2	0
Educational services	5	5	1
Health care and social assistance	4	3	1
Arts, entertainment, and recreation	31	28	6
Accommodation and food services	1	1	0
Other services	14	13	3

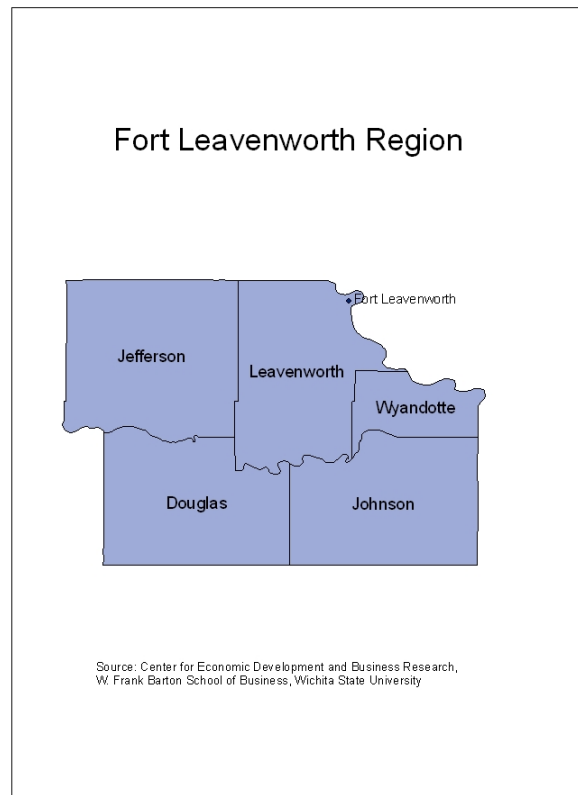
The fiscal impact of Forbes Field military wages and employment, as well as procurement contracts, can be calculated based on the above findings. Fiscal benefits come from new retail sale spending, property taxes and personal income taxes. Fiscal costs are associated with the costs of educating new students.

CEDBR used the tax rate of Shawnee County and the average tax rate of region specific counties to calculate the fiscal impact to Shawnee County and the Forbes Field Region. The total fiscal impact to Shawnee County was \$6.5 million. The fiscal impact to all counties in the Forbes Field Region was \$6.6 million. The public benefits to the state of Kansas from U.S. military activity at Forbes Field were \$13.9 million, with costs estimated to be \$8.4 million for a benefit-cost ratio of 1.64.

**Table 20. Fiscal Impact – Forbes Field**

<b>FISCAL IMPACT</b>		
<b>Shawnee County</b>		<b>Discounted</b>
Present value of net benefits		\$6,470,312
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$6,470,312
Public costs 1-year period		\$0
ROI		NA
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$6,470,312
Public costs 1-year period		\$0
Benefit-Cost Ratio		NA
<b>Forbes Field Region</b>		<b>Discounted</b>
Present value of net benefits		\$6,630,792
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$6,630,792
Public costs 1-year period		\$0
ROI		NA
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$6,630,792
Public costs 1-year period		\$0
Benefit-Cost Ratio		NA
<b>State Fiscal Impacts</b>		<b>Discounted</b>
Present value of net benefits		\$5,420,121
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$5,420,121
Public costs 1-year period		\$8,438,078
ROI		64.2%
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$13,858,199
Public costs 1-year period		\$8,438,078
Benefit-Cost Ratio		1.64

## Economic Impact of Fort Leavenworth Military Operations



Data used to assess the economic impact of direct employees and direct payments to individuals can be found in Table 21. The total number of active duty, reserve and National Guard, and civilian employees in 2008, per Ft. Leavenworth data, was 7,612. These individuals received total wages of \$340.5 million in 2008. The number of retired military individuals in 2006, per the Department of Defense, was 8,984. The retired individuals received \$207.5 million in compensation that year.

**Table 21. Military Wages and Personnel – Ft. Leavenworth**

<b>Military Wages and Personnel</b>	
<b>Active Duty, Reserve and National Guard, and Civilian Employment</b>	<b>7,612</b>
Active Duty Military	3,875
Reserve and National Guard	106
Civilian	3,631
<b>Active Duty, Reserve and National Guard, and Civilian Wages</b>	<b>\$340,500,000</b>
Active Duty Military	\$202,400,000
Reserve and National Guard	\$0
Civilian	\$138,100,000
<b>Retired Military - 2006 DoD</b>	
Individuals Receiving Retired Military Pay	8,984
Retired Military Pay	\$207,480,000

Using RIMS II multipliers, the economic impact of personnel and individuals paid by the U.S. military installation at Ft. Leavenworth can be found in Table 22.

**Table 22. Military Wages and Personnel – with Multiplier – Ft. Leavenworth**

<b>Military Wages and Personnel - with Multiplier</b>				
<b>Active Duty, Reserve and National Guard, and Civilian Employment</b>	<b>Direct, Table 1</b>	<b>Multiplier</b>	<b>Indirect/Induced</b>	<b>Total</b>
Active Duty Military	3,875	2.2329	4,777	8,652
Reserve and National Guard	106	2.2329	131	237
Civilian	3,631	2.2329	4,477	8,108
<b>Active Duty, Reserve and National Guard, and Civilian Wages</b>				
Active Duty Military	\$202,400,000	2.024	\$207,257,600	\$409,657,600
Reserve and National Guard	\$0	2.024	\$0	\$0
Civilian	\$138,100,000	2.024	\$141,414,400	\$279,514,400
<b>Retired Military - 2006 DoD</b>				
Individuals Receiving Retired Military Pay	8,984	1.2327	2,090	11,074
Retired Military Pay	\$207,480,000	1.2754	\$57,139,992	\$264,619,992
<b>TOTAL</b>				
Employment Impact	16,596	1.6914	11,475	28,071
Wage Impact	\$547,980,000	1.7406	\$405,811,992	\$953,791,992

Data obtained through the Department of Defense provided procurement contract information. There are two ways to view the data, as total expenditures and as total revenues. The total amount of expenditures by the Ft. Leavenworth installation was \$344.2 million. Expenditures of Ft. Leavenworth within the state of Kansas are viewed as revenues to companies in Kansas. Total revenues to Kansas from expenditures by Ft. Leavenworth were \$82.8 million in 2006. Total revenues to the Ft. Leavenworth Region companies from expenditures by Ft. Leavenworth were \$78.8 million in 2006 or the equivalent of 22.9 percent of all expenditures by Ft. Leavenworth. The economic output impact of Ft. Leavenworth to the installation's home county, Leavenworth County, totaled \$5.3 million in 2006, or 1.5 percent of all expenditures.

**Table 23. Contracts Information – 2006 DoD – Ft. Leavenworth**

<b>Contracts Information - 2006 DoD</b>	
<b>Expenditures - by Ft. Leavenworth</b>	<b>\$344,212,630</b>
Revenues to Kansas from Expenditures by Ft. Leavenworth	\$82,783,812
As a Percentage of Total Expenditures	24.1%
Revenues to Ft. Leavenworth Region from Expenditures by Ft. Leavenworth	\$78,801,903
As a Percentage of Total Expenditures	22.9%
Revenues to Leavenworth County from Expenditures by Ft. Leavenworth	\$5,268,910
As a Percentage of Total Expenditures	1.5%

Using RIMS II multipliers, the economic impact of procurement contracts by the U.S. military Ft. Leavenworth installation to Kansas, the Ft. Leavenworth Region and Leavenworth County companies can be found in Table 24. The total economic impact to output by procurement contracts of Ft. Leavenworth to Kansas was \$146.2 million, to the Ft. Leavenworth Region was \$139.2 million and to Leavenworth County was \$9.3 million in 2006.

**Table 24. Economic Impact – Procurement Contracts Information – Total Output – Ft. Leavenworth**

<b>Economic Impact - Procurement Contracts Information - Total Output - 2006 DoD - with Multiplier</b>	<b>Contract Dollar Impacts - to Kansas</b>	<b>Contract Dollar Impacts - to Ft. Leavenworth Region</b>	<b>Contract Dollar Impacts - to Leavenworth County</b>
<b>Revenues - from Ft. Leavenworth</b>	<b>\$146,249,610</b>	<b>\$139,214,990</b>	<b>\$9,308,294</b>
Agriculture, forestry, fishing, and hunting	\$331,041	\$315,118	\$21,070
Mining	\$87,862	\$83,635	\$5,592
Utilities	\$1,464,577	\$1,394,130	\$93,215
Construction	\$4,529,124	\$4,311,273	\$288,263
Manufacturing	\$60,876,617	\$57,948,446	\$3,874,591
Wholesale trade	\$9,969,228	\$9,489,707	\$634,508
Retail trade	\$7,241,958	\$6,893,619	\$460,926
Transportation and warehousing	\$5,794,313	\$5,515,606	\$368,788
Information	\$4,373,240	\$4,162,887	\$278,342
Finance and insurance	\$5,846,853	\$5,565,619	\$372,132
Real estate and rental and leasing	\$8,206,586	\$7,811,848	\$522,321
Professional, scientific, and technical services	\$18,281,835	\$17,402,477	\$1,163,577
Management of companies and enterprises	\$2,213,885	\$2,107,397	\$140,906
Administrative and waste management services	\$3,710,077	\$3,531,622	\$236,134
Educational services	\$2,332,705	\$2,220,502	\$148,469
Health care and social assistance	\$4,665,733	\$4,441,311	\$296,958
Arts, entertainment, and recreation	\$386,450	\$367,862	\$24,596
Accommodation and food services	\$2,657,252	\$2,529,438	\$169,125
Other services	\$3,280,274	\$3,122,493	\$208,778

Procurement contracts go to companies, in this case, in Kansas and the respective regions. These companies then create a product to fulfill that contract. This requires labor input. Total impacts to earnings and employment based on procurement contracts can be calculated using RIMS II multipliers. Using procurement data Table 25 illustrates the economic impact to earnings in the state of Kansas, the

Ft. Leavenworth Region and Leavenworth County. Table 26 illustrates the economic impact to employment in the state of Kansas, the Ft. Leavenworth Region and Leavenworth County. The total economic impact to earnings based on procurement contracts in 2006 was \$31.2 million in Kansas, \$29.7 million in the Ft. Leavenworth Region and \$2 million in Leavenworth County. Procurement contracts supported 856 industry specific full-time equivalent positions in Kansas, 815 in the Ft. Leavenworth Region and 54 in Leavenworth County in 2006.

**Table 25. Economic Impact – Procurement Contracts Information – Total Earnings – Ft. Leavenworth**

<b>Economic Impact - Procurement Contracts Information - Total Earnings - 2006 DoD - with Multiplier</b>			
	<b>Contract Dollar Impacts - to Kansas</b>	<b>Contract Dollar Impacts - to Ft. Leavenworth Region</b>	<b>Contract Dollar Impacts - to Leavenworth County</b>
<b>Revenues - from Ft. Leavenworth</b>	<b>\$31,207,880</b>	<b>\$29,706,778</b>	<b>\$1,986,276</b>
Agriculture, forestry, fishing, and hunting	\$32,708	\$31,135	\$2,082
Mining	\$12,785	\$12,170	\$814
Utilities	\$187,946	\$178,906	\$11,962
Construction	\$1,188,911	\$1,131,724	\$75,670
Manufacturing	\$8,690,506	\$8,272,492	\$553,121
Wholesale trade	\$2,332,176	\$2,219,998	\$148,435
Retail trade	\$1,898,790	\$1,807,458	\$120,852
Transportation and warehousing	\$1,162,073	\$1,106,177	\$73,962
Information	\$893,237	\$850,272	\$56,851
Finance and insurance	\$1,185,872	\$1,128,832	\$75,477
Real estate and rental and leasing	\$425,307	\$404,850	\$27,069
Professional, scientific, and technical services	\$6,579,619	\$6,263,138	\$418,771
Management of companies and enterprises	\$913,011	\$869,095	\$58,110
Administrative and waste management services	\$1,121,455	\$1,067,513	\$71,377
Educational services	\$864,278	\$822,706	\$55,008
Health care and social assistance	\$1,875,542	\$1,785,328	\$119,372
Arts, entertainment, and recreation	\$119,254	\$113,518	\$7,590
Accommodation and food services	\$825,969	\$786,240	\$52,570
Other services	\$898,441	\$855,226	\$57,183

**Table 26. Economic Impact – Procurement Contracts Information – Total Employment – Ft. Leavenworth**

<b>Economic Impact - Procurement Contracts Information - Total Employment - 2006 DoD - with Multiplier</b>			
	<b>Contract Dollar Impacts - to Kansas</b>	<b>Contract Dollar Impacts - to Ft. Leavenworth Region</b>	<b>Contract Dollar Impacts - to Leavenworth County</b>
<b>Revenues - from Ft. Leavenworth</b>	<b>856</b>	<b>815</b>	<b>54</b>
Agriculture, forestry, fishing, and hunting	3	3	0
Mining	0	0	0
Utilities	2	2	0
Construction	35	33	2
Manufacturing	169	161	11
Wholesale trade	45	43	3
Retail trade	96	91	6
Transportation and warehousing	30	29	2
Information	18	17	1
Finance and insurance	29	28	2
Real estate and rental and leasing	22	21	1
Professional, scientific, and technical services	138	132	9
Management of companies and enterprises	13	13	1
Administrative and waste management services	45	43	3
Educational services	48	45	3
Health care and social assistance	52	50	3
Arts, entertainment, and recreation	8	8	1
Accommodation and food services	59	56	4
Other services	42	40	3

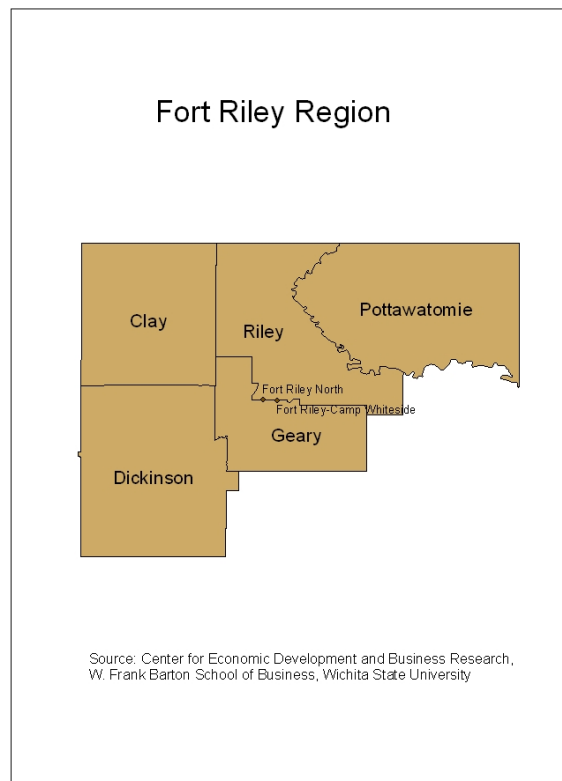
The fiscal impact of Ft. Leavenworth military wages and employment, as well as procurement contracts, can be calculated based on the above findings. Fiscal benefits come from new retail sale spending, property taxes and personal income taxes. Fiscal costs are associated with the costs of educating new students.

CEDBR used the tax rate of Leavenworth County and the average tax rate of region specific counties to calculate the fiscal impact to Leavenworth County and the Ft. Leavenworth Region. The total fiscal impact to Leavenworth County was \$7 million. The fiscal impact to all counties in the Ft. Leavenworth Region was \$7.9 million. The public benefit to the state of Kansas from U.S. military activity at Ft. Leavenworth was \$37 million, with costs estimated to be \$8.4 million for a benefit-cost ratio of 4.42.

**Table 27. Fiscal Impact – Ft. Leavenworth**

<b>FISCAL IMPACT</b>		
<b>Leavenworth County</b>		<b>Discounted</b>
Present value of net benefits		\$7,015,212
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$7,015,212
Public costs 1-year period		\$0
ROI		NA
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$7,015,212
Public costs 1-year period		\$0
Benefit-Cost Ratio		NA
<b>Ft. Leavenworth Region</b>		<b>Discounted</b>
Present value of net benefits		\$7,941,821
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$7,941,821
Public costs 1-year period		\$0
ROI		NA
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$7,941,821
Public costs 1-year period		\$0
Benefit-Cost Ratio		NA
<b>State Fiscal Impacts</b>		<b>Discounted</b>
Present value of net benefits		\$28,667,278
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$28,667,278
Public costs 1-year period		\$8,370,321
ROI		342.5%
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$37,037,599
Public costs 1-year period		\$8,370,321
Benefit-Cost Ratio		4.42

## Economic Impact of Fort Riley Military Operations



Data used to assess the economic impact of direct employees and direct payments to individuals can be found in Table 28. The total number of active duty, reserve and National Guard, and civilian employees in 2008, per Ft. Riley data, was 25,086. These individuals received total wages of \$1.1 billion in 2008. The number of retired military individuals in 2006, per the Department of Defense, was 4,426. The retired individuals received \$84.4 million in compensation that year.

**Table 28. Military Wages and Personnel – Ft. Riley**

<b>Military Wages and Personnel</b>	
<b>Active Duty, Reserve and National Guard, and Civilian Employment</b>	<b>25,086</b>
Active Duty Military	15,634
Reserve and National Guard	-
Civilian	9,452
<b>Active Duty, Reserve and National Guard, and Civilian Wages</b>	<b>\$1,094,929,284</b>
Active Duty Military	\$849,107,083
Reserve and National Guard	\$0
Civilian	\$245,822,201
<b>Retired Military - 2006 DoD</b>	
Individuals Receiving Retired Military Pay	4,426
Retired Military Pay	\$84,432,000

Using RIMS II multipliers, the economic impact of personnel and individuals paid by the U.S. military installation at Ft. Riley can be found in Table 29.

**Table 29. Military Wages and Personnel – with Multiplier – Ft. Riley**

<b>Military Wages and Personnel - with Multiplier</b>				
<b>Active Duty, Reserve and National Guard, and Civilian Employment</b>	<b>Direct, Table 1</b>	<b>Multiplier</b>	<b>Indirect/Induced</b>	<b>Total</b>
Active Duty Military	15,634	2.0869	16,993	32,627
Reserve and National Guard	-	2.0869	-	-
Civilian	9,452	2.0869	10,273	19,725
<b>Active Duty, Reserve and National Guard, and Civilian Wages</b>				
Active Duty Military	\$849,107,083	1.8503	\$721,995,753	\$1,571,102,836
Reserve and National Guard	\$0	1.8503	\$0	\$0
Civilian	\$245,822,201	1.8503	\$209,022,618	\$454,844,819
<b>Retired Military - 2006 DoD</b>				
Individuals Receiving Retired Military Pay	4,426	1.2116	936	5,362
Retired Military Pay	\$84,432,000	1.2805	\$23,683,176	\$108,115,176
<b>TOTAL</b>				
Employment Impact	29,512	1.9556	28,202	57,714
Wage Impact	\$1,179,361,284	1.8095	\$954,701,546	\$2,134,062,830

Data obtained through the Department of Defense provided procurement contract information. There are two ways to view the data, as total expenditures and as total revenues. The total amount of expenditures by the Ft. Riley installation was \$323.2 million. Expenditures of Ft. Riley within the state of Kansas are viewed as revenues to companies in Kansas. Total revenues to Kansas from expenditures by Ft. Riley were \$52.7 million in 2006. Total revenues to the Ft. Riley Region companies from expenditures by Ft. Riley were \$24.4 million in 2006 or the equivalent of 7.5 percent of all expenditures by Ft. Riley. The direct output economic impact of Ft. Riley to the installation's home counties, Riley and Geary Counties, totaled \$22.2 million in 2006, or 6.9 percent of all expenditures.

**Table 30. Contracts Information – 2006 DoD – Ft. Riley**

<b>Contracts Information - 2006 DoD</b>	
<b>Expenditures - by Ft. Riley</b>	<b>\$323,171,331</b>
Revenues to Kansas from Expenditures by Ft. Riley	\$52,715,170
As a Percentage of Total Expenditures	16.3%
Revenues to Ft. Riley Region from Expenditures by Ft. Riley	\$24,398,332
As a Percentage of Total Expenditures	7.5%
Revenues to Riley and Geary Counties from Expenditures by Ft. Riley	\$22,236,804
As a Percentage of Total Expenditures	6.9%

Using RIMS II multipliers, the economic impact of procurement contracts by the U.S. military Ft. Riley installation to Kansas, the Ft. Riley Region and Riley and Geary County companies can be found in Table 31. The total economic impact on output by procurement contracts of Ft. Riley to Kansas was \$82.7 million, to the Ft. Riley Region was \$38.3 million and to Riley and Geary Counties was \$34.9 million in 2006.

**Table 31. Economic Impact – Procurement Contracts Information – Total Output – Ft. Riley**

<b>Economic Impact - Procurement Contracts Information - Total Output - 2006 DoD - with Multiplier</b>			
	<b>Contract Dollar Impacts - to Kansas</b>	<b>Contract Dollar Impacts - to Ft. Riley Region</b>	<b>Contract Dollar Impacts - to Riley and Geary County</b>
<b>Revenues - from Ft. Riley</b>	<b>\$82,731,005</b>	<b>\$38,290,658</b>	<b>\$34,898,363</b>
Agriculture, forestry, fishing, and hunting	\$309,655	\$143,319	\$130,622
Mining	\$125,977	\$58,306	\$53,141
Utilities	\$7,369,356	\$3,410,783	\$3,108,611
Construction	\$16,583,409	\$7,675,352	\$6,995,368
Manufacturing	\$9,476,893	\$4,386,221	\$3,997,631
Wholesale trade	\$3,149,401	\$1,457,648	\$1,328,510
Retail trade	\$4,344,382	\$2,010,724	\$1,832,588
Transportation and warehousing	\$2,358,914	\$1,091,784	\$995,059
Information	\$1,391,905	\$644,220	\$587,146
Finance and insurance	\$1,719,570	\$795,874	\$725,365
Real estate and rental and leasing	\$12,239,043	\$5,664,636	\$5,162,787
Professional, scientific, and technical services	\$6,996,489	\$3,238,207	\$2,951,324
Management of companies and enterprises	\$602,431	\$278,825	\$254,123
Administrative and waste management services	\$5,955,124	\$2,756,229	\$2,512,046
Educational services	\$1,221,252	\$565,236	\$515,160
Health care and social assistance	\$3,475,778	\$1,608,706	\$1,466,185
Arts, entertainment, and recreation	\$234,548	\$108,557	\$98,939
Accommodation and food services	\$3,400,082	\$1,573,671	\$1,434,254
Other services	\$1,776,796	\$822,360	\$749,505

Procurement contracts go to companies, in this case, in Kansas and the respective regions. These companies then create a product to fulfill that contract. This requires labor input. Total impacts to earnings and employment based on procurement contracts can be calculated using RIMS II multipliers. Using procurement data Table 32 illustrates the economic impact to earnings in the state of Kansas, the Ft. Riley Region and Riley and Geary Counties. Table 33 illustrates the economic impact to employment in the state of Kansas, the Ft. Riley Region and Riley and Geary Counties. The total economic impact to earnings based on procurement contracts in 2006 was \$23.7 million in Kansas, \$11 million in the Ft. Riley Region and \$10 million in Riley and Geary Counties. Procurement contracts supported 777 full-time equivalent positions in Kansas, 360 in the Ft. Riley Region and 328 in Riley and Geary Counties in 2006.

**Table 32. Economic Impact – Procurement Contracts Information – Total Earnings – Ft. Riley**

<b>Economic Impact - Procurement Contracts Information - Total Earnings - 2006 DoD - with Multiplier</b>			
	<b>Contract Dollar Impacts - to Kansas</b>	<b>Contract Dollar Impacts - to Ft. Riley Region</b>	<b>Contract Dollar Impacts - to Riley and Geary County</b>
<b>Revenues - from Ft. Riley</b>	<b>\$23,695,653</b>	<b>\$10,967,136</b>	<b>\$9,995,521</b>
Agriculture, forestry, fishing, and hunting	\$71,036	\$32,878	\$29,965
Mining	\$26,823	\$12,414	\$11,315
Utilities	\$1,258,040	\$582,263	\$530,678
Construction	\$5,985,645	\$2,770,355	\$2,524,920
Manufacturing	\$1,863,676	\$862,571	\$786,153
Wholesale trade	\$953,196	\$441,171	\$402,086
Retail trade	\$1,443,843	\$668,259	\$609,055
Transportation and warehousing	\$769,522	\$356,160	\$324,607
Information	\$341,142	\$157,892	\$143,904
Finance and insurance	\$418,822	\$193,845	\$176,671
Real estate and rental and leasing	\$606,214	\$280,576	\$255,719
Professional, scientific, and technical services	\$3,125,135	\$1,446,416	\$1,318,274
Management of companies and enterprises	\$286,505	\$132,604	\$120,856
Administrative and waste management services	\$2,385,634	\$1,104,151	\$1,006,330
Educational services	\$565,944	\$261,938	\$238,732
Health care and social assistance	\$1,672,082	\$773,895	\$705,333
Arts, entertainment, and recreation	\$99,060	\$45,848	\$41,787
Accommodation and food services	\$1,219,599	\$564,471	\$514,463
Other services	\$603,735	\$279,429	\$254,673

**Table 33. Economic Impact – Procurement Contracts Information – Total Employment – Ft. Riley**

<b>Economic Impact - Procurement Contracts Information - Total Employment - 2006 DoD - with Multiplier</b>			
	<b>Contract Dollar Impacts - to Kansas</b>	<b>Contract Dollar Impacts - to Ft. Riley Region</b>	<b>Contract Dollar Impacts - to Riley and Geary County</b>
<b>Revenues - from Ft. Riley</b>	<b>777</b>	<b>360</b>	<b>328</b>
Agriculture, forestry, fishing, and hunting	4	2	2
Mining	0	0	0
Utilities	15	7	6
Construction	177	82	75
Manufacturing	54	25	23
Wholesale trade	18	8	8
Retail trade	73	34	31
Transportation and warehousing	21	10	9
Information	7	3	3
Finance and insurance	10	5	4
Real estate and rental and leasing	36	17	15
Professional, scientific, and technical services	66	30	28
Management of companies and enterprises	4	2	2
Administrative and waste management services	96	44	41
Educational services	31	14	13
Health care and social assistance	49	23	21
Arts, entertainment, and recreation	6	3	3
Accommodation and food services	81	38	34
Other services	28	13	12

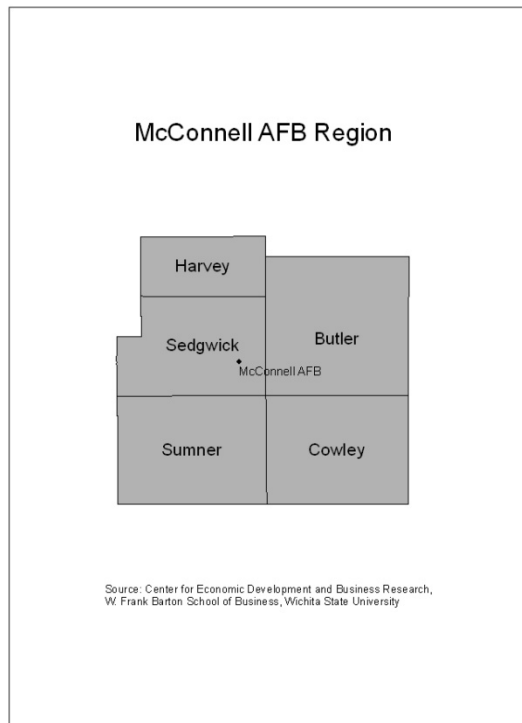
The fiscal impact of Ft. Riley military wages and employment, as well as procurement contracts, can be calculated based on the above findings. Fiscal benefits come from new retail sale spending, property taxes and personal income taxes. Fiscal costs are associated with the costs of educating new students.

CEDBR used the average tax rate of Riley and Geary Counties and the average tax rate of region specific counties to calculate the fiscal impact to Counties and the Ft. Riley Region. The total fiscal impact to Riley and Geary Counties was \$15.5 million. The fiscal impact to all counties in the Ft. Riley Region was \$12.6 million. The public benefit to the state of Kansas from U.S. military activity at Ft. Riley was \$86.9 million, with costs estimated to be \$33.6 million for a benefit-cost ratio of 2.59.

**Table 34. Fiscal Impact – Ft. Riley**

<b>FISCAL IMPACT</b>		
<b>Riley - Geary Counties</b>		<b>Discounted</b>
Present value of net benefits		\$15,479,974
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$15,479,974
Public costs 1-year period		\$0
ROI		NA
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$15,479,974
Public costs 1-year period		\$0
Benefit-Cost Ratio		NA
<b>Ft. Riley Region</b>		<b>Discounted</b>
Present value of net benefits		\$12,625,016
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$12,625,016
Public costs 1-year period		\$0
ROI		NA
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$12,625,016
Public costs 1-year period		\$0
Benefit-Cost Ratio		NA
<b>State Fiscal Impacts</b>		<b>Discounted</b>
Present value of net benefits		\$53,317,122
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$53,317,122
Public costs 1-year period		\$33,555,012
ROI		158.9%
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$86,872,134
Public costs 1-year period		\$33,555,012
Benefit-Cost Ratio		2.59

## Economic Impact of McConnell Air Force Base Military Operations



Data used to assess the economic impact of direct employees and direct payments to individuals can be found in Table 35. The total number of active duty, reserve and National Guard, and civilian employees in 2008, per McConnell AFB data, was 4,922. These individuals received total wages of \$227.5 million in 2008. The number of retired military individuals in 2006, per the Department of Defense, was 5,265. The retired individuals received \$100.4 million in compensation that year.

**Table 35. Military Wages and Personnel – McConnell AFB**

<b>Military Wages and Personnel</b>	
<b>Active Duty, Reserve and National Guard, and Civilian Employment</b>	<b>4,922</b>
Active Duty Military	2,470
Reserve and National Guard	1,543
Civilian	909
<b>Active Duty, Reserve and National Guard, and Civilian Wages</b>	<b>\$227,491,722</b>
Active Duty Military	\$119,310,046
Reserve and National Guard	\$81,981,512
Civilian	\$26,200,164
<b>Retired Military - 2006 DoD</b>	
Individuals Receiving Retired Military Pay	5,265
Retired Military Pay	\$100,416,000

Using RIMS II multipliers, the economic impact of personnel and individuals paid by the U.S. military installation at McConnell AFB can be found in Table 36.

**Table 36. Military Wages and Personnel – with Multiplier – McConnell AFB**

<b>Military Wages and Personnel - with Multiplier</b>				
<b>Active Duty, Reserve and National Guard, and Civilian Employment</b>	<b>Direct, Table 1</b>	<b>Multiplier</b>	<b>Indirect/Induced</b>	<b>Total</b>
Active Duty Military	2,470	2.1497	2,840	5,310
Reserve and National Guard	1,543	2.1497	1,774	3,317
Civilian	909	2.1497	1,045	1,954
<b>Active Duty, Reserve and National Guard, and Civilian Wages</b>				
Active Duty Military	\$119,310,046	1.9326	\$111,268,549	\$230,578,595
Reserve and National Guard	\$81,981,512	1.9326	\$76,455,958	\$158,437,470
Civilian	\$26,200,164	1.9326	\$24,434,273	\$50,634,437
<b>Retired Military - 2006 DoD</b>				
Individuals Receiving Retired Military Pay	5,265	1.2123	1,118	6,383
Retired Military Pay	\$100,416,000	1.2976	\$29,883,802	\$130,299,802
<b>TOTAL</b>				
Employment Impact	10,187	1.6652	6,776	16,963
Wage Impact	\$327,907,722	1.7381	\$242,042,582	\$569,950,304

Data obtained through the Department of Defense provided procurement contract information. There are two ways to view the data, as total expenditures and as total revenues. The total amount of expenditures by the McConnell AFB installation was \$991.9 million. Expenditures of McConnell AFB within the state of Kansas are viewed as revenues to companies in Kansas. Total revenues to Kansas from expenditures by McConnell AFB were \$941.9 million in 2006. Total revenues to the McConnell AFB Region companies from expenditures by McConnell AFB were \$940.6 million in 2006 or the equivalent of 94.8 percent of all expenditures by McConnell AFB. The impact of contract output from McConnell AFB to the installation’s home county, Sedgwick County, totaled \$938.8 million in 2006, or 94.6 percent of all expenditures.

**Table 37. Contracts Information – 2006 DoD – McConnell AFB**

<b>Contracts Information - 2006 DoD</b>	
<b>Expenditures - by McConnell AFB</b>	<b>\$991,886,803</b>
Revenues to Kansas from Expenditures by McConnell AFB	\$941,912,788
As a Percentage of Total Expenditures	95.0%
Revenues to McConnell AFB Region from Expenditures by McConnell AFB	\$940,649,581
As a Percentage of Total Expenditures	94.8%
Revenues to Sedgwick County from Expenditures by McConnell AFB	\$938,809,682
As a Percentage of Total Expenditures	94.6%

Using RIMS II multipliers, the economic impact of procurement contracts by the U.S. military McConnell AFB installation to Kansas, the McConnell AFB Region and Sedgwick County companies can be found in Table 38. The total economic impact on output by procurement contracts of McConnell AFB to Kansas was \$1.8 billion, to the McConnell AFB Region was \$1.8 billion and to Sedgwick County was \$1.8 billion in 2006.

**Table 38. Economic Impact – Procurement Contracts Information – Total Output – McConnell AFB**

<b>Economic Impact - Procurement Contracts Information - Total Output - 2006 DoD - with Multiplier</b>			
	<b>Contract Dollar Impacts - to Kansas</b>	<b>Contract Dollar Impacts - to McConnell AFB Region</b>	<b>Contract Dollar Impacts - to Sedgwick County</b>
<b>Revenues - from McConnell AFB</b>	<b>\$1,810,473,979</b>	<b>\$1,808,045,938</b>	<b>\$1,804,555,694</b>
Agriculture, forestry, fishing, and hunting	\$30,339,732	\$30,299,043	\$30,240,554
Mining	\$3,718,003	\$3,713,017	\$3,705,849
Utilities	\$14,158,080	\$14,139,093	\$14,111,799
Construction	\$13,195,263	\$13,177,567	\$13,152,129
Manufacturing	\$1,135,440,544	\$1,133,917,796	\$1,131,728,886
Wholesale trade	\$61,433,699	\$61,351,310	\$61,232,877
Retail trade	\$67,590,889	\$67,500,242	\$67,369,940
Transportation and warehousing	\$29,340,396	\$29,301,048	\$29,244,485
Information	\$30,792,225	\$30,750,930	\$30,691,568
Finance and insurance	\$33,993,654	\$33,948,064	\$33,882,531
Real estate and rental and leasing	\$69,260,643	\$69,167,757	\$69,034,236
Professional, scientific, and technical services	\$111,589,073	\$111,439,420	\$111,224,298
Management of companies and enterprises	\$32,049,201	\$32,006,220	\$31,944,435
Administrative and waste management services	\$52,900,189	\$52,829,244	\$52,727,262
Educational services	\$9,307,654	\$9,295,172	\$9,277,228
Health care and social assistance	\$61,322,528	\$61,240,288	\$61,122,070
Arts, entertainment, and recreation	\$3,477,441	\$3,472,778	\$3,466,074
Accommodation and food services	\$26,751,732	\$26,715,855	\$26,664,282
Other services	\$23,813,033	\$23,781,097	\$23,735,190

Procurement contracts go to companies, in this case, in Kansas and the respective regions. These companies then create a product to fulfill that contract. This requires labor input. Total impacts to earnings and employment based on procurement contracts can be calculated using RIMS II multipliers. Using procurement data, Table 39 illustrates the economic impact to earnings in the state of Kansas, the McConnell AFB Region and Sedgwick County. Table 40 illustrates the economic impact to employment in the state of Kansas, the McConnell AFB Region and Sedgwick County. The total economic impact to earnings based on procurement contracts in 2006 was \$460.9 million in Kansas, \$460.3 million in the McConnell AFB Region and \$459.4 million in Sedgwick County. Procurement contracts supported 10,677 full-time equivalent positions in Kansas, 10,662 in the McConnell AFB Region and 10,642 in Sedgwick County in 2006.

**Table 39. Economic Impact – Procurement Contracts Information – Total Earnings – McConnell AFB**

<b>Economic Impact - Procurement Contracts Information - Total Earnings - 2006 DoD - with Multiplier</b>			
	<b>Contract Dollar Impacts - to Kansas</b>	<b>Contract Dollar Impacts - to McConnell AFB Region</b>	<b>Contract Dollar Impacts - to Sedgwick County</b>
<b>Revenues - from McConnell AFB</b>	<b>\$460,870,058</b>	<b>\$460,251,981</b>	<b>\$459,363,513</b>
Agriculture, forestry, fishing, and hunting	\$3,120,084	\$3,115,900	\$3,109,885
Mining	\$667,450	\$666,555	\$665,269
Utilities	\$2,655,167	\$2,651,606	\$2,646,487
Construction	\$4,865,431	\$4,858,906	\$4,849,527
Manufacturing	\$235,887,160	\$235,570,810	\$235,116,065
Wholesale trade	\$19,459,909	\$19,433,811	\$19,396,297
Retail trade	\$22,572,109	\$22,541,837	\$22,498,322
Transportation and warehousing	\$9,087,438	\$9,075,251	\$9,057,732
Information	\$7,404,822	\$7,394,891	\$7,380,616
Finance and insurance	\$8,250,341	\$8,239,276	\$8,223,371
Real estate and rental and leasing	\$2,901,127	\$2,897,236	\$2,891,643
Professional, scientific, and technical services	\$51,710,160	\$51,640,811	\$51,541,124
Management of companies and enterprises	\$15,843,826	\$15,822,578	\$15,792,034
Administrative and waste management services	\$22,709,976	\$22,679,520	\$22,635,739
Educational services	\$3,870,057	\$3,864,867	\$3,857,406
Health care and social assistance	\$29,928,761	\$29,888,624	\$29,830,927
Arts, entertainment, and recreation	\$1,394,987	\$1,393,117	\$1,390,427
Accommodation and food services	\$10,340,036	\$10,326,169	\$10,306,235
Other services	\$8,201,216	\$8,190,218	\$8,174,407

**Table 40. Economic Impact – Procurement Contracts Information – Total Employment – McConnell AFB**

<b>Economic Impact - Procurement Contracts Information - Total Employment - 2006 DoD - with Multiplier</b>			
	<b>Contract Dollar Impacts - to Kansas</b>	<b>Contract Dollar Impacts - to McConnell AFB Region</b>	<b>Contract Dollar Impacts - to Sedgwick County</b>
<b>Revenues - from McConnell AFB</b>	<b>10,677</b>	<b>10,662</b>	<b>10,642</b>
Agriculture, forestry, fishing, and hunting	295	294	294
Mining	10	10	10
Utilities	31	31	30
Construction	143	143	143
Manufacturing	3,353	3,348	3,342
Wholesale trade	373	373	372
Retail trade	1,141	1,139	1,137
Transportation and warehousing	233	233	233
Information	120	120	120
Finance and insurance	200	200	199
Real estate and rental and leasing	165	165	165
Professional, scientific, and technical services	1,088	1,087	1,085
Management of companies and enterprises	230	230	229
Administrative and waste management services	946	945	943
Educational services	215	215	215
Health care and social assistance	881	879	878
Arts, entertainment, and recreation	102	102	101
Accommodation and food services	767	766	764
Other services	384	384	383

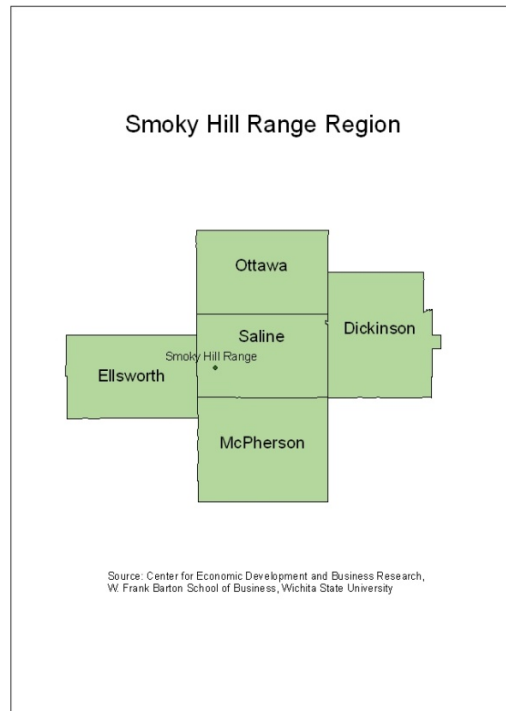
The fiscal impact of McConnell AFB military wages and employment, as well as procurement contracts, can be calculated based on the above findings. Fiscal benefits come from new retail sale spending, property taxes and personal income taxes. Fiscal costs are associated with the costs of educating new students.

CEDBR used the tax rate of Sedgwick County and the average tax rate of region specific counties to calculate the fiscal impact to Sedgwick County and the McConnell AFB Region. The total fiscal impact to Sedgwick County was \$9.5 million. The fiscal impact to all counties in the McConnell AFB Region was \$11.3 million. The public benefit to the state of Kansas from U.S. military activity at McConnell AFB was \$53.9 million, with costs estimated to be \$11.6 million for a benefit-cost ratio of 4.64.

**Table 41. Fiscal Impact – McConnell AFB**

<b>FISCAL IMPACT</b>		
<b>Sedgwick County</b>		<b>Discounted</b>
Present value of net benefits		\$9,516,846
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$9,516,846
Public costs 1-year period		\$0
ROI		NA
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$9,516,846
Public costs 1-year period		\$0
Benefit-Cost Ratio		NA
<b>McConnell AFB Region</b>		<b>Discounted</b>
Present value of net benefits		\$11,252,869
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$11,252,869
Public costs 1-year period		\$0
ROI		NA
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$11,252,869
Public costs 1-year period		\$0
Benefit-Cost Ratio		NA
<b>State Fiscal Impacts</b>		<b>Discounted</b>
Present value of net benefits		\$42,265,375
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$42,265,375
Public costs 1-year period		\$11,598,444
ROI		364.4%
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$53,863,819
Public costs 1-year period		\$11,598,444
Benefit-Cost Ratio		4.64

## Economic Impact of Smoky Hill Air National Guard Military Operations



Data used to assess the economic impact of direct employees and direct payments to individuals can be found in Table 42. The total number of active duty, reserve and National Guard, and civilian employees in 2008, per Smoky Hill ANG data, was 223. These individuals received total wages of \$6.6 million in 2008. The number of retired military individuals in 2006, per the Department of Defense, was 1,221. The retired individuals received \$1.9 million in compensation that year.

**Table 42. Military Wages and Personnel – Smoky Hill ANG**

<b>Military Wages and Personnel</b>	
<b>Active Duty, Reserve and National Guard, and Civilian Employment</b>	<b>223</b>
Active Duty Military	223
Reserve and National Guard	-
Civilian	-
<b>Active Duty, Reserve and National Guard, and Civilian Wages</b>	<b>\$6,601,347</b>
Active Duty Military	\$6,601,347
Reserve and National Guard	\$0
Civilian	\$0
<b>Retired Military - 2006 DoD</b>	
Individuals Receiving Retired Military Pay	1,221
Retired Military Pay	\$1,870,000

Using RIMS II multipliers, the economic impact of personnel and individuals paid by the U.S. military installation at Smoky Hill ANG can be found in Table 43.

**Table 43. Military Wages and Personnel – with Multiplier – Smoky Hill ANG**

<b>Military Wages and Personnel - with Multiplier</b>				
<b>Active Duty, Reserve and National Guard, and Civilian Employment</b>	<b>Direct, Table 1</b>	<b>Multiplier</b>	<b>Indirect/Induced</b>	<b>Total</b>
Active Duty Military	223	1.9588	214	437
Reserve and National Guard	-	1.9588	-	-
Civilian	-	1.9588	-	-
<b>Active Duty, Reserve and National Guard, and Civilian Wages</b>				
Active Duty Military	\$6,601,347	1.7973	\$5,263,254	\$11,864,601
Reserve and National Guard	\$0	1.7973	\$0	\$0
Civilian	\$0	1.7973	\$0	\$0
<b>Retired Military - 2006 DoD</b>				
Individuals Receiving Retired Military Pay	1,221	1.0148	18	1,239
Retired Military Pay	\$1,870,000	1.2621	\$490,127	\$2,360,127
<b>TOTAL</b>				
Employment Impact	1,444	1.1606	232	1,676
Wage Impact	\$8,471,347	1.6792	\$5,753,381	\$14,224,728

Data obtained through the Department of Defense provided procurement contract information. There are two ways to view the data, as total expenditures and as total revenues. The total amount of expenditures by the Smoky Hill ANG installation was \$6.9 million. Expenditures of Smoky Hill ANG within the state of Kansas are viewed as revenues to companies in Kansas. Total revenues to Kansas from expenditures by Smoky Hill ANG were \$2.9 million in 2006. Total revenues to the Smoky Hill ANG Region companies from expenditures by Smoky Hill ANG were \$2.3 million in 2006 or the equivalent of 34.2 percent of all expenditures by Smoky Hill ANG. The impact of contract output from Smoky Hill ANG to the installation’s home county, Saline County, totaled \$1.3 million in 2006, or 18.4 percent of all expenditures.

**Table 44. Contracts Information – 2006 DoD – Smoky Hill ANG**

<b>Contracts Information - 2006 DoD</b>	
<b>Expenditures - by Smoky Hill ANG</b>	<b>\$6,872,254</b>
Revenues to Kansas from Expenditures by Smoky Hill	\$2,894,581
As a Percentage of Total Expenditures	42.1%
Revenues to Smoky Hill Region from Expenditures by Smoky Hill	\$2,348,708
As a Percentage of Total Expenditures	34.2%
Revenues to Saline County from Expenditures by Smoky Hill	\$1,264,287
As a Percentage of Total Expenditures	18.4%

Using RIMS II multipliers, the economic impact of procurement contracts by the U.S. military Smoky Hill ANG installation to Kansas, the Smoky Hill ANG Region and Saline County companies can be found in Table 45. The total economic impact on output by procurement contracts of Smoky Hill ANG to Kansas was \$4.6 million, to the Smoky Hill ANG Region was \$3.7 million and to Saline County was \$2.1 million in 2006.

**Table 45. Economic Impact – Procurement Contracts Information – Total Output – Smoky Hill ANG**

<b>Economic Impact - Procurement Contracts Information - Total Output - 2006 DoD - with Multiplier</b>			
	<b>Contract Dollar</b>		
	<b>Contract Dollar Impacts - to Kansas</b>	<b>Impacts - to Smoky Hill Region</b>	<b>Contract Dollar Impacts - to Saline County</b>
<b>Revenues - from Smoky Hill</b>	<b>\$4,624,030</b>	<b>\$3,746,915</b>	<b>\$2,082,137</b>
Agriculture, forestry, fishing, and hunting	\$5,756	\$4,664	\$2,592
Mining	\$10,714	\$8,682	\$4,824
Utilities	\$80,823	\$65,492	\$36,394
Construction	\$218,479	\$177,036	\$98,378
Manufacturing	\$1,139,662	\$923,484	\$513,174
Wholesale trade	\$820,179	\$664,603	\$369,315
Retail trade	\$816,781	\$661,849	\$367,785
Transportation and warehousing	\$146,849	\$118,994	\$66,124
Information	\$95,182	\$77,127	\$42,859
Finance and insurance	\$100,604	\$81,520	\$45,300
Real estate and rental and leasing	\$185,496	\$150,310	\$83,526
Professional, scientific, and technical services	\$110,341	\$89,411	\$49,685
Management of companies and enterprises	\$104,098	\$84,352	\$46,874
Administrative and waste management services	\$243,710	\$197,482	\$109,739
Educational services	\$18,124	\$14,686	\$8,161
Health care and social assistance	\$181,255	\$146,874	\$81,617
Arts, entertainment, and recreation	\$9,813	\$7,951	\$4,419
Accommodation and food services	\$116,534	\$94,429	\$52,474
Other services	\$219,629	\$177,968	\$98,896

Procurement contracts go to companies, in this case, in Kansas and the respective regions. These companies then create a product to fulfill that contract. This requires labor input. Total impacts to earnings and employment based on procurement contracts can be calculated using RIMS II multipliers. Using procurement data Table 46 illustrates the economic impact to earnings in the state of Kansas, the Smoky Hill ANG Region and Saline County. Table 47 illustrates the economic impact to employment in the state of Kansas, the Smoky Hill ANG Region and Saline County. The total economic impact to earnings based on procurement contracts in 2006 was \$1.4 million in Kansas, \$1.1 million in the Smoky Hill ANG Region and \$615,428 in Saline County. Procurement contracts supported 43 full-time equivalent positions in Kansas, 35 in the Smoky Hill ANG Region and 20 in Saline County in 2006.

**Table 46. Economic Impact – Procurement Contracts Information – Total Earnings – Smoky Hill ANG**

<b>Economic Impact - Procurement Contracts Information - Total Earnings - 2006 DoD - with Multiplier</b>			
	<b>Contract Dollar Impacts - to Kansas</b>	<b>Contract Dollar Impacts - to Smoky Hill Region</b>	<b>Contract Dollar Impacts - to Saline County</b>
<b>Revenues - from Smoky Hill</b>	<b>\$1,366,749</b>	<b>\$1,107,496</b>	<b>\$615,428</b>
Agriculture, forestry, fishing, and hunting	\$632	\$512	\$285
Mining	\$2,126	\$1,723	\$957
Utilities	\$14,866	\$12,046	\$6,694
Construction	\$80,278	\$65,051	\$36,148
Manufacturing	\$227,268	\$184,158	\$102,336
Wholesale trade	\$255,539	\$207,066	\$115,065
Retail trade	\$267,288	\$216,587	\$120,356
Transportation and warehousing	\$51,770	\$41,950	\$23,311
Information	\$23,422	\$18,979	\$10,546
Finance and insurance	\$24,110	\$19,537	\$10,856
Real estate and rental and leasing	\$5,965	\$4,833	\$2,686
Professional, scientific, and technical services	\$51,544	\$41,767	\$23,209
Management of companies and enterprises	\$51,356	\$41,614	\$23,125
Administrative and waste management services	\$88,908	\$72,044	\$40,034
Educational services	\$7,629	\$6,182	\$3,435
Health care and social assistance	\$87,628	\$71,006	\$39,458
Arts, entertainment, and recreation	\$4,010	\$3,249	\$1,806
Accommodation and food services	\$42,893	\$34,757	\$19,314
Other services	\$79,518	\$64,434	\$35,806

**Table 47. Economic Impact – Procurement Contracts Information – Total Employment – Smoky Hill ANG**

<b>Economic Impact - Procurement Contracts Information - Total Employment - 2006 DoD - with Multiplier</b>			
	<b>Contract Dollar Impacts - to Kansas</b>	<b>Contract Dollar Impacts - to Smoky Hill Region</b>	<b>Contract Dollar Impacts - to Saline County</b>
<b>Revenues - from Smoky Hill</b>	<b>43</b>	<b>35</b>	<b>20</b>
Agriculture, forestry, fishing, and hunting	0	0	0
Mining	0	0	0
Utilities	0	0	0
Construction	2	2	1
Manufacturing	5	4	2
Wholesale trade	5	4	2
Retail trade	14	11	6
Transportation and warehousing	1	1	1
Information	0	0	0
Finance and insurance	1	0	0
Real estate and rental and leasing	0	0	0
Professional, scientific, and technical services	1	1	0
Management of companies and enterprises	1	1	0
Administrative and waste management services	4	3	2
Educational services	0	0	0
Health care and social assistance	3	2	1
Arts, entertainment, and recreation	0	0	0
Accommodation and food services	3	2	1
Other services	4	3	2

The fiscal impact of Smoky Hill ANG military wages and employment, as well as procurement contracts, can be calculated based on the above findings. Fiscal benefits come from new retail sale spending, property taxes and personal income taxes. Fiscal costs are associated with the costs of educating new students.

CEDBR used the tax rate of Saline County and the average tax rate of region specific counties to calculate the fiscal impact to Saline County and the Smoky Hill ANG Region. The total fiscal impact to Saline County was \$323,001. The fiscal impact to all counties in the Smoky Hill ANG Region was \$795,166. The public benefit to the state of Kansas from U.S. military activity at Smoky Hill ANG was \$990,258, with costs estimated to be \$558,659 for a benefit-cost ratio of 1.77.

**Table 48. Fiscal Impact – Smoky Hill ANG**

<b>FISCAL IMPACT</b>		
<b>Saline County</b>		<b>Discounted</b>
Present value of net benefits		\$323,001
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$323,001
Public costs 1-year period		\$0
ROI		NA
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$323,001
Public costs 1-year period		\$0
Benefit-Cost Ratio		NA
<b>Smoky Hill ANG Region</b>		<b>Discounted</b>
Present value of net benefits		\$795,166
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$795,166
Public costs 1-year period		\$0
ROI		NA
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$795,166
Public costs 1-year period		\$0
Benefit-Cost Ratio		NA
<b>State Fiscal Impacts</b>		<b>Discounted</b>
Present value of net benefits		\$431,599
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$431,599
Public costs 1-year period		\$558,659
ROI		77.3%
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$990,258
Public costs 1-year period		\$558,659
Benefit-Cost Ratio		1.77

## Economic Impact of a Gain or Loss of 1,000 Military Personnel

The loss of 1,000 military personnel would lead to a negative economic impact. The gain of 1,000 military personnel would lead to an equal, but positive economic impact. CEDBR calculated this economic impact based on the Kansas parameters used above. Average wage information was based on 2006 Department of Defense data. It is assumed that all military contracts would continue at a constant rate as military personnel enter and exit the state of Kansas.

CEDBR used the average tax rates in all Kansas cities and Kansas counties to calculate the fiscal impact to cities and counties. The total fiscal impact of a gain in 1,000 military personnel on all cities in Kansas for a single year is estimated to be \$460,913. The fiscal impact to all counties in Kansas based on a 1,000 military personnel increase is \$672,894. The public benefits to the state of Kansas from a personnel increase of 1,000 in Kansas is estimated to be \$3.2 million with costs estimated to be \$2.3 million for a benefit-cost ratio of 1.4. The loss of 1,000 military personnel would exhibit the opposite effect.

**Table 49. Fiscal Impact – Gain or Loss of 1,000 Military Personnel**

<b>FISCAL IMPACT</b>		
<b><i>Cities in Kansas - using average city taxing rates</i></b>		<b><i>Discounted</i></b>
Present value of net benefits		\$460,913
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$460,913
Public costs 1-year period		\$0
ROI		NA
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$460,913
Public costs 1-year period		\$0
Benefit-Cost Ratio		NA
<b><i>Counties in Kansas - using average county taxing rates</i></b>		<b><i>Discounted</i></b>
Present value of net benefits		\$672,894
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$672,894
Public costs 1-year period		\$0
ROI		NA
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$672,894
Public costs 1-year period		\$0
Benefit-Cost Ratio		NA
<b><i>State Fiscal Impacts</i></b>		<b><i>Discounted</i></b>
Present value of net benefits		\$916,105
<i>Rate of Return on Investment</i>		
Net public benefits 1-year period		\$916,105
Public costs 1-year period		\$2,316,890
ROI		39.5%
<i>Benefit-Cost Ratio</i>		
Public benefits 1-year period		\$3,232,995
Public costs 1-year period		\$2,316,890
Benefit-Cost Ratio		1.40

## **Appendix A. Economic Impact of ALL U.S. Military Activity to Kansas**

**Table 50. Economic Impact of ALL U.S. Military Activity to Kansas Output, Table 1 of 9**

<b>ECONOMIC IMPACT TO OUTPUT FROM CONTRACTS BY INDUSTRY</b>	<b>Crop and animal production</b>	<b>Forestry, fishing, and related activities</b>	<b>Oil and gas extraction</b>	<b>Mining, except oil and gas</b>	<b>Support activities for mining</b>	<b>Utilities</b>	<b>Construction</b>
Actual Values - DoD Procurement Data	\$51,721	\$115,218	\$10,585	\$319,571	\$24,721	\$31,992,721	\$537,906,381
Agriculture, forestry, fishing, and hunting	\$76,619	\$147,283	\$76	\$2,876	\$252	\$236,746	\$7,423,108
Mining	\$946	\$737	\$11,851	\$341,334	\$25,196	\$3,819,931	\$9,951,268
Utilities	\$1,981	\$2,316	\$386	\$17,832	\$707	\$32,805,336	\$17,213,004
Construction	\$409	\$530	\$37	\$1,310	\$136	\$550,275	\$541,080,029
Manufacturing	\$13,401	\$14,932	\$1,365	\$55,062	\$5,023	\$3,535,196	\$162,124,983
Wholesale trade	\$5,369	\$6,936	\$460	\$19,110	\$1,580	\$1,228,520	\$46,152,367
Retail trade	\$2,415	\$5,945	\$495	\$19,430	\$1,632	\$1,487,662	\$71,702,921
Transportation and warehousing	\$3,119	\$3,030	\$368	\$21,188	\$1,219	\$3,266,457	\$30,230,339
Information	\$1,629	\$3,007	\$308	\$11,313	\$1,216	\$927,789	\$28,724,201
Finance and insurance	\$4,122	\$7,120	\$589	\$21,315	\$1,782	\$1,788,393	\$48,788,109
Real estate and rental and leasing	\$6,688	\$8,123	\$1,808	\$28,921	\$2,514	\$2,402,653	\$60,406,887
Professional, scientific, and technical services	\$1,815	\$5,991	\$456	\$11,824	\$1,310	\$1,545,248	\$53,091,360
Management of companies and enterprises	\$574	\$933	\$421	\$12,144	\$2,858	\$332,724	\$9,413,362
Administrative and waste management services	\$1,076	\$1,936	\$186	\$6,040	\$529	\$783,822	\$20,063,908
Educational services	\$419	\$1,095	\$92	\$3,515	\$294	\$345,521	\$7,799,643
Health care and social assistance	\$2,638	\$7,132	\$575	\$21,347	\$1,879	\$1,702,013	\$49,541,178
Arts, entertainment, and recreation	\$171	\$599	\$36	\$3,164	\$257	\$111,975	\$3,173,648
Accommodation and food services	\$1,096	\$2,765	\$225	\$8,820	\$761	\$815,814	\$19,956,327
Other services	\$1,810	\$2,800	\$236	\$8,405	\$774	\$751,829	\$23,345,137
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>\$126,298</b>	<b>\$223,212</b>	<b>\$19,973</b>	<b>\$614,950</b>	<b>\$49,919</b>	<b>\$58,437,904</b>	<b>\$1,210,181,776</b>

**Table 51. Economic Impact of ALL U.S. Military Activity to Kansas Output, Table 2 of 9**

ECONOMIC IMPACT TO OUTPUT FROM CONTRACTS BY INDUSTRY	Nonmetallic		Primary metal manufacturing	Fabricated		Machinery manufacturing	Computer and electronic product manufacturing	Electrical equipment and appliance manufacturing
	Wood product manufacturing	mineral product manufacturing		metal product manufacturing	metal product manufacturing			
Actual Values - DoD Procurement Data	\$195,963	\$432,272	\$2,118,282	\$29,525,313	\$24,837,791	\$23,214,912	\$3,243,373	
Agriculture, forestry, fishing, and hunting	\$1,666	\$3,415	\$17,158	\$250,965	\$201,186	\$171,790	\$26,920	
Mining	\$1,254	\$22,219	\$31,774	\$209,630	\$153,994	\$99,824	\$24,325	
Utilities	\$4,938	\$33,155	\$101,678	\$912,332	\$618,461	\$459,655	\$101,518	
Construction	\$901	\$2,550	\$12,074	\$162,389	\$131,640	\$102,146	\$16,866	
Manufacturing	\$240,721	\$523,481	\$2,456,572	\$36,587,768	\$32,410,833	\$27,653,603	\$4,025,026	
Wholesale trade	\$21,301	\$28,011	\$237,459	\$2,450,601	\$2,632,806	\$2,142,736	\$371,691	
Retail trade	\$10,229	\$23,213	\$112,269	\$1,615,035	\$1,259,276	\$1,067,886	\$173,196	
Transportation and warehousing	\$12,875	\$42,060	\$154,635	\$1,290,256	\$1,145,022	\$643,053	\$153,736	
Information	\$6,584	\$14,135	\$70,962	\$1,071,769	\$946,320	\$928,596	\$121,626	
Finance and insurance	\$11,131	\$25,331	\$122,225	\$1,762,661	\$1,438,108	\$1,214,140	\$185,845	
Real estate and rental and leasing	\$13,228	\$29,697	\$143,408	\$2,235,066	\$1,746,097	\$1,748,083	\$225,090	
Professional, scientific, and technical services	\$6,428	\$15,346	\$79,859	\$1,054,054	\$991,028	\$979,669	\$144,330	
Management of companies and enterprises	\$3,841	\$12,882	\$56,770	\$785,373	\$844,485	\$701,090	\$125,519	
Administrative and waste management services	\$3,958	\$8,948	\$48,932	\$599,364	\$506,691	\$471,263	\$66,489	
Educational services	\$1,783	\$3,847	\$19,488	\$292,301	\$230,991	\$197,327	\$30,163	
Health care and social assistance	\$11,248	\$23,861	\$123,284	\$1,842,380	\$1,438,108	\$1,251,284	\$190,386	
Arts, entertainment, and recreation	\$745	\$1,686	\$8,261	\$121,054	\$96,867	\$83,574	\$12,649	
Accommodation and food services	\$5,017	\$10,720	\$54,652	\$797,183	\$650,750	\$552,515	\$84,652	
Other services	\$5,526	\$15,519	\$73,716	\$894,617	\$678,072	\$529,300	\$95,680	
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>\$363,374</b>	<b>\$840,077</b>	<b>\$3,925,177</b>	<b>\$54,934,797</b>	<b>\$48,120,736</b>	<b>\$40,997,535</b>	<b>\$6,175,707</b>	

**Table 52. Economic Impact of ALL U.S. Military Activity to Kansas Output, Table 3 of 9**

<b>ECONOMIC IMPACT TO OUTPUT FROM CONTRACTS BY INDUSTRY</b>	<b>Motor vehicle, body, trailer, and parts manufacturing</b>	<b>Other transportation equipment manufacturing</b>	<b>Furniture and related product manufacturing</b>	<b>Miscellaneous manufacturing</b>	<b>Food, beverage, and tobacco product manufacturing</b>	<b>Textile and textile product mills</b>	<b>Apparel, leather, and allied product manufacturing</b>
Actual Values - DoD Procurement Data	\$6,164,730	\$732,348,410	\$368,054	\$4,376,277	\$48,705,686	\$6,813,054	\$5,742,966
Agriculture, forestry, fishing, and hunting	\$40,071	\$6,737,605	\$3,202	\$45,076	\$27,611,253	\$64,043	\$44,221
Mining	\$30,207	\$4,320,856	\$2,282	\$31,072	\$555,245	\$44,966	\$26,418
Utilities	\$116,513	\$17,429,892	\$10,048	\$124,286	\$1,690,087	\$208,479	\$129,217
Construction	\$22,193	\$3,881,447	\$1,877	\$45,951	\$292,234	\$33,384	\$21,823
Manufacturing	\$8,162,103	\$1,050,993,203	\$451,529	\$5,520,673	\$65,942,628	\$7,980,130	\$7,033,985
Wholesale trade	\$554,826	\$63,128,433	\$34,818	\$443,754	\$5,635,248	\$574,340	\$472,072
Retail trade	\$372,966	\$41,817,094	\$20,832	\$252,511	\$2,552,178	\$351,554	\$249,245
Transportation and warehousing	\$289,742	\$30,026,285	\$19,028	\$211,374	\$3,633,444	\$330,433	\$203,301
Information	\$174,462	\$28,048,944	\$14,465	\$232,818	\$1,768,016	\$239,820	\$173,438
Finance and insurance	\$304,538	\$48,042,056	\$22,304	\$271,329	\$3,604,221	\$377,443	\$287,148
Real estate and rental and leasing	\$364,336	\$56,171,123	\$28,929	\$343,100	\$4,666,005	\$482,364	\$355,490
Professional, scientific, and technical services	\$231,794	\$39,107,405	\$13,471	\$210,061	\$1,797,240	\$224,149	\$174,012
Management of companies and enterprises	\$128,843	\$20,871,930	\$8,833	\$127,787	\$1,203,030	\$198,941	\$160,803
Administrative and waste management services	\$109,116	\$15,965,195	\$7,656	\$99,341	\$1,105,619	\$128,767	\$181,478
Educational services	\$57,332	\$9,374,060	\$3,681	\$43,763	\$438,351	\$61,999	\$45,369
Health care and social assistance	\$280,495	\$49,579,987	\$23,371	\$278,769	\$2,751,871	\$391,751	\$287,723
Arts, entertainment, and recreation	\$19,111	\$3,295,568	\$1,546	\$18,380	\$189,952	\$25,890	\$19,526
Accommodation and food services	\$127,610	\$21,897,217	\$10,195	\$124,286	\$1,256,607	\$172,370	\$130,940
Other services	\$298,989	\$20,725,460	\$11,152	\$139,166	\$1,582,935	\$198,941	\$129,791
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>\$11,685,246</b>	<b>\$1,531,413,760</b>	<b>\$689,218</b>	<b>\$8,563,499</b>	<b>\$128,276,165</b>	<b>\$12,089,764</b>	<b>\$10,125,998</b>

**Table 53. Economic Impact of ALL U.S. Military Activity to Kansas Output, Table 4 of 9**

ECONOMIC IMPACT TO OUTPUT FROM CONTRACTS BY INDUSTRY	Plastics and rubber products						
	Paper manufacturing	Printing and related support activities	Petroleum and coal products manufacturing	Chemical manufacturing	Wholesale trade	Retail trade	
Actual Values - DoD Procurement Data	\$69,602	\$223,219	\$665,288,356	\$1,809,801	\$7,370,455	\$1,110,580,462	\$19,157,634
Agriculture, forestry, fishing, and hunting	\$508	\$2,098	\$5,189,249	\$21,718	\$62,649	\$13,104,849	\$243,302
Mining	\$557	\$1,585	\$155,544,418	\$63,343	\$78,864	\$6,885,599	\$153,261
Utilities	\$2,213	\$6,607	\$31,002,437	\$79,993	\$263,862	\$29,097,208	\$705,001
Construction	\$362	\$1,161	\$3,193,384	\$11,764	\$38,326	\$6,663,483	\$159,008
Manufacturing	\$81,685	\$270,519	\$808,591,468	\$2,509,832	\$9,444,501	\$140,821,603	\$2,524,976
Wholesale trade	\$5,624	\$19,889	\$57,946,616	\$182,790	\$627,963	\$1,181,324,437	\$896,577
Retail trade	\$3,202	\$13,304	\$29,538,803	\$87,413	\$392,108	\$72,298,788	\$20,575,299
Transportation and warehousing	\$4,079	\$13,728	\$47,501,589	\$113,113	\$518,143	\$52,197,282	\$938,724
Information	\$2,137	\$10,558	\$18,428,487	\$65,334	\$246,173	\$64,191,551	\$1,314,214
Finance and insurance	\$3,598	\$14,398	\$36,657,388	\$100,082	\$423,801	\$75,186,297	\$1,454,064
Real estate and rental and leasing	\$4,287	\$18,817	\$55,285,462	\$139,898	\$519,617	\$104,283,505	\$2,298,916
Professional, scientific, and technical services	\$2,088	\$8,527	\$30,802,851	\$106,054	\$273,444	\$57,305,952	\$1,009,607
Management of companies and enterprises	\$2,812	\$6,295	\$17,962,786	\$85,966	\$224,799	\$32,095,775	\$982,787
Administrative and waste management services	\$1,232	\$4,799	\$14,636,344	\$40,721	\$148,146	\$48,643,424	\$762,474
Educational services	\$557	\$2,411	\$5,654,951	\$15,383	\$68,545	\$13,326,966	\$245,218
Health care and social assistance	\$3,480	\$15,179	\$32,865,245	\$90,490	\$424,538	\$79,073,329	\$1,509,622
Arts, entertainment, and recreation	\$237	\$982	\$2,261,980	\$6,334	\$28,008	\$5,330,786	\$99,620
Accommodation and food services	\$1,552	\$6,451	\$15,035,517	\$42,711	\$188,684	\$34,539,052	\$659,023
Other services	\$1,963	\$7,121	\$17,430,555	\$52,665	\$219,640	\$35,538,575	\$674,349
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>\$122,172</b>	<b>\$424,429</b>	<b>\$1,385,529,530</b>	<b>\$3,815,603</b>	<b>\$14,191,811</b>	<b>\$2,051,908,462</b>	<b>\$37,206,041</b>

**Table 54. Economic Impact of ALL U.S. Military Activity to Kansas Output, Table 5 of 9**

ECONOMIC IMPACT TO OUTPUT FROM CONTRACTS BY INDUSTRY	Transit and ground passenger transportation							Other transportation and support activities*
	Air transportation	Rail transportation	Water transportation	Truck transportation	Transit and ground passenger transportation	Pipeline transportation		
Actual Values - DoD Procurement Data	-\$13,245	\$3,141	\$0	\$2,877,416	\$694,220	\$164,879	\$7,711,142	
Agriculture, forestry, fishing, and hunting	-\$156	\$26	\$0	\$26,760	\$8,747	\$1,847	\$108,727	
Mining	-\$343	\$43	\$0	\$46,326	\$19,577	\$13,058	\$87,907	
Utilities	-\$326	\$58	\$0	\$65,893	\$33,184	\$8,244	\$191,236	
Construction	-\$60	\$11	\$0	\$16,114	\$4,235	\$4,716	\$55,520	
Manufacturing	-\$3,151	\$502	\$0	\$488,585	\$182,788	\$48,260	\$1,195,998	
Wholesale trade	-\$811	\$223	\$0	\$246,019	\$85,875	\$13,207	\$407,919	
Retail trade	-\$826	\$179	\$0	\$237,962	\$58,870	\$12,959	\$614,578	
Transportation and warehousing	-\$14,298	\$3,379	\$0	\$3,469,013	\$740,594	\$179,520	\$8,291,020	
Information	-\$809	\$107	\$0	\$150,777	\$33,739	\$8,359	\$433,366	
Finance and insurance	-\$946	\$188	\$0	\$290,907	\$76,572	\$16,323	\$633,856	
Real estate and rental and leasing	-\$1,174	\$376	\$0	\$269,326	\$77,128	\$18,433	\$833,574	
Professional, scientific, and technical services	-\$744	\$189	\$0	\$130,635	\$63,243	\$26,908	\$369,364	
Management of companies and enterprises	-\$200	\$29	\$0	\$69,921	\$15,481	\$2,556	\$77,883	
Administrative and waste management services	-\$1,281	\$91	\$0	\$77,402	\$22,770	\$11,937	\$296,879	
Educational services	-\$150	\$35	\$0	\$31,364	\$10,413	\$2,209	\$113,354	
Health care and social assistance	-\$886	\$197	\$0	\$198,542	\$64,632	\$13,438	\$689,376	
Arts, entertainment, and recreation	-\$68	\$12	\$0	\$12,373	\$4,026	\$857	\$42,411	
Accommodation and food services	-\$979	\$80	\$0	\$80,280	\$25,686	\$5,474	\$308,446	
Other services	-\$456	\$99	\$0	\$128,333	\$28,185	\$7,090	\$313,072	
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>-\$27,662</b>	<b>\$5,824</b>	<b>\$0</b>	<b>\$6,036,531</b>	<b>\$1,555,747</b>	<b>\$395,396</b>	<b>\$15,064,487</b>	

**Table 55. Economic Impact of ALL U.S. Military Activity to Kansas Output, Table 6 of 9**

<b>ECONOMIC IMPACT TO OUTPUT FROM CONTRACTS BY INDUSTRY</b>	<b>Warehousing and storage</b>	<b>Publishing including software</b>	<b>Motion picture and sound recording industries</b>	<b>Broadcasting and telecommunica tions</b>	<b>Information and data processing services</b>	<b>Federal Reserve banks, credit intermediation and related services</b>	<b>Securities, commodity contracts, investments</b>
Actual Values - DoD Procurement Data	-\$815,594	\$11,500,531	\$78,423	\$0	\$763,687	\$125,905	\$0
Agriculture, forestry, fishing, and hunting	-\$10,113	\$104,655	\$729	\$0	\$9,852	\$919	\$0
Mining	-\$11,255	\$58,653	\$322	\$0	\$4,811	\$453	\$0
Utilities	-\$48,773	\$240,361	\$1,545	\$0	\$20,696	\$1,889	\$0
Construction	-\$8,645	\$52,902	\$423	\$0	\$5,651	\$831	\$0
Manufacturing	-\$114,591	\$1,934,389	\$7,144	\$0	\$94,697	\$8,335	\$0
Wholesale trade	-\$44,042	\$667,031	\$2,823	\$0	\$42,232	\$3,248	\$0
Retail trade	-\$66,879	\$671,631	\$3,631	\$0	\$64,455	\$5,703	\$0
Transportation and warehousing	-\$849,033	\$493,373	\$1,992	\$0	\$31,464	\$3,689	\$0
Information	-\$44,205	\$12,620,683	\$87,747	\$0	\$837,765	\$4,268	\$0
Finance and insurance	-\$65,655	\$721,083	\$4,054	\$0	\$63,157	\$138,987	\$0
Real estate and rental and leasing	-\$122,910	\$1,046,548	\$6,007	\$0	\$91,566	\$9,443	\$0
Professional, scientific, and technical services	-\$37,680	\$527,874	\$3,788	\$0	\$39,559	\$6,459	\$0
Management of companies and enterprises	-\$8,237	\$211,610	\$870	\$0	\$10,157	\$1,196	\$0
Administrative and waste management services	-\$31,727	\$341,566	\$2,070	\$0	\$45,363	\$3,311	\$0
Educational services	-\$12,397	\$129,956	\$659	\$0	\$14,739	\$1,070	\$0
Health care and social assistance	-\$77,645	\$782,036	\$4,156	\$0	\$74,230	\$6,572	\$0
Arts, entertainment, and recreation	-\$4,649	\$50,602	\$486	\$0	\$4,964	\$466	\$0
Accommodation and food services	-\$30,503	\$324,315	\$1,898	\$0	\$32,609	\$3,853	\$0
Other services	-\$34,337	\$324,315	\$1,819	\$0	\$30,624	\$3,173	\$0
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>-\$1,623,277</b>	<b>\$21,303,584</b>	<b>\$132,166</b>	<b>\$0</b>	<b>\$1,518,592</b>	<b>\$203,865</b>	<b>\$0</b>

**Table 56. Economic Impact of ALL U.S. Military Activity to Kansas Output, Table 7 of 9**

<b>ECONOMIC IMPACT TO OUTPUT FROM CONTRACTS BY INDUSTRY</b>	<b>Insurance carriers and related activities</b>	<b>Funds, trusts, and other financial vehicles</b>	<b>Real estate</b>	<b>Rental and leasing services and lessors of intangible assets</b>	<b>Professional, scientific, and technical services</b>	<b>Management of companies and enterprises</b>	<b>Administrative and support services</b>
Actual Values - DoD Procurement Data	\$0	\$0	\$7,129,565	\$4,977,426	\$372,044,573	\$0	\$85,213,606
Agriculture, forestry, fishing, and hunting	\$0	\$0	\$22,102	\$24,887	\$4,724,966	\$0	\$1,082,213
Mining	\$0	\$0	\$30,657	\$16,426	\$2,232,267	\$0	\$579,453
Utilities	\$0	\$0	\$114,073	\$63,213	\$9,412,728	\$0	\$2,130,340
Construction	\$0	\$0	\$89,833	\$17,919	\$2,232,267	\$0	\$468,675
Manufacturing	\$0	\$0	\$437,042	\$271,767	\$44,347,713	\$0	\$10,225,633
Wholesale trade	\$0	\$0	\$121,916	\$115,974	\$17,188,459	\$0	\$4,056,168
Retail trade	\$0	\$0	\$159,702	\$191,133	\$29,019,477	\$0	\$7,285,763
Transportation and warehousing	\$0	\$0	\$97,675	\$98,055	\$14,770,170	\$0	\$3,144,382
Information	\$0	\$0	\$95,536	\$147,332	\$24,034,079	\$0	\$4,874,218
Finance and insurance	\$0	\$0	\$336,515	\$226,971	\$29,391,521	\$0	\$6,416,585
Real estate and rental and leasing	\$0	\$0	\$7,429,720	\$5,261,637	\$43,380,397	\$0	\$8,981,514
Professional, scientific, and technical services	\$0	\$0	\$156,850	\$127,920	\$399,947,916	\$0	\$4,337,373
Management of companies and enterprises	\$0	\$0	\$26,379	\$37,828	\$4,464,535	\$0	\$1,661,665
Administrative and waste management services	\$0	\$0	\$205,331	\$100,544	\$20,722,883	\$0	\$89,721,406
Educational services	\$0	\$0	\$19,963	\$29,367	\$5,692,282	\$0	\$1,192,990
Health care and social assistance	\$0	\$0	\$120,490	\$181,178	\$33,930,465	\$0	\$7,447,669
Arts, entertainment, and recreation	\$0	\$0	\$8,555	\$13,439	\$2,418,290	\$0	\$494,239
Accommodation and food services	\$0	\$0	\$59,175	\$94,073	\$16,035,121	\$0	\$3,280,724
Other services	\$0	\$0	\$106,231	\$99,549	\$13,281,991	\$0	\$2,948,391
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>\$0</b>	<b>\$0</b>	<b>\$9,637,746</b>	<b>\$7,119,212</b>	<b>\$717,227,528</b>	<b>\$0</b>	<b>\$160,329,400</b>

**Table 57. Economic Impact of ALL U.S. Military Activity to Kansas Output, Table 8 of 9**

<b>ECONOMIC IMPACT TO OUTPUT FROM CONTRACTS BY INDUSTRY</b>	<b>Waste management and remediation services</b>	<b>Educational services</b>	<b>Ambulatory health care services</b>	<b>Hospitals and nursing and residential care facilities</b>	<b>Social assistance</b>	<b>Performing arts, museums, and related activities</b>	<b>Amusements, gambling, and recreation</b>
Actual Values - DoD Procurement Data	\$29,641,004	\$2,626,184	\$1,903,272	\$31,461	\$1,228,447	\$140,485	\$78,645
Agriculture, forestry, fishing, and hunting	\$317,159	\$40,181	\$27,407	\$645	\$30,834	\$1,728	\$1,604
Mining	\$530,574	\$20,747	\$14,655	\$280	\$12,162	\$829	\$676
Utilities	\$1,499,835	\$89,815	\$57,098	\$1,189	\$42,873	\$3,821	\$3,437
Construction	\$160,061	\$69,331	\$13,704	\$296	\$14,373	\$1,082	\$1,077
Manufacturing	\$4,701,063	\$402,331	\$310,614	\$5,893	\$254,780	\$15,833	\$11,293
Wholesale trade	\$2,735,865	\$152,844	\$113,054	\$2,108	\$90,291	\$5,872	\$4,475
Retail trade	\$2,469,096	\$222,175	\$173,959	\$2,882	\$102,944	\$10,213	\$6,126
Transportation and warehousing	\$1,653,968	\$110,562	\$88,121	\$1,582	\$61,177	\$4,636	\$3,209
Information	\$1,609,507	\$186,722	\$120,096	\$1,696	\$86,483	\$8,078	\$4,734
Finance and insurance	\$2,267,537	\$215,610	\$175,482	\$2,847	\$102,452	\$10,649	\$6,331
Real estate and rental and leasing	\$2,744,757	\$486,895	\$261,890	\$4,826	\$174,808	\$16,957	\$10,711
Professional, scientific, and technical services	\$1,230,102	\$129,733	\$99,160	\$1,711	\$58,228	\$6,814	\$4,050
Management of companies and enterprises	\$358,656	\$33,878	\$34,259	\$648	\$29,606	\$1,911	\$1,675
Administrative and waste management services	\$34,131,616	\$139,450	\$104,299	\$1,922	\$70,144	\$7,600	\$2,776
Educational services	\$364,584	\$2,686,849	\$31,975	\$569	\$19,778	\$2,739	\$1,077
Health care and social assistance	\$2,291,250	\$257,891	\$2,138,516	\$34,780	\$1,345,027	\$11,815	\$6,850
Arts, entertainment, and recreation	\$163,026	\$18,121	\$12,942	\$214	\$7,739	\$145,809	\$79,235
Accommodation and food services	\$1,090,789	\$117,916	\$90,215	\$1,784	\$53,560	\$4,973	\$2,768
Other services	\$2,661,762	\$117,916	\$78,224	\$1,413	\$49,261	\$4,875	\$3,342
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>\$62,981,205</b>	<b>\$5,498,967</b>	<b>\$3,945,673</b>	<b>\$67,286</b>	<b>\$2,606,519</b>	<b>\$266,233</b>	<b>\$155,450</b>

**Table 58. Economic Impact of ALL U.S. Military Activity to Kansas Output, Table 9 of 9**

ECONOMIC IMPACT TO OUTPUT FROM CONTRACTS BY INDUSTRY	Food services and drinking		
	Accommodation	places	Other services
Actual Values - DoD Procurement Data	\$2,829,149	\$3,449,948	\$6,294,528
Agriculture, forestry, fishing, and hunting	\$55,734	\$230,457	\$73,017
Mining	\$22,067	\$30,705	\$64,834
Utilities	\$113,166	\$149,038	\$227,232
Construction	\$35,081	\$31,740	\$104,489
Manufacturing	\$369,487	\$828,678	\$1,126,091
Wholesale trade	\$144,004	\$312,910	\$378,301
Retail trade	\$198,889	\$293,591	\$502,933
Transportation and warehousing	\$105,810	\$163,873	\$276,330
Information	\$153,340	\$189,747	\$363,824
Finance and insurance	\$199,172	\$284,621	\$453,206
Real estate and rental and leasing	\$300,739	\$434,348	\$782,410
Professional, scientific, and technical services	\$120,805	\$142,828	\$331,722
Management of companies and enterprises	\$56,866	\$41,054	\$99,454
Administrative and waste management services	\$105,244	\$92,114	\$269,406
Educational services	\$35,081	\$47,954	\$85,606
Health care and social assistance	\$222,654	\$305,665	\$515,522
Arts, entertainment, and recreation	\$15,843	\$24,840	\$33,990
Accommodation and food services	\$2,921,096	\$3,584,151	\$216,532
Other services	\$110,054	\$134,548	\$6,554,492
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>\$5,285,133</b>	<b>\$7,322,860</b>	<b>\$12,459,389</b>

**Table 59. Economic Impact of ALL U.S. Military Activity to Kansas Earnings, Table 1 of 9**

<b>ECONOMIC IMPACT TO EARNINGS FROM CONTRACTS BY INDUSTRY</b>	<b>Crop and animal production</b>	<b>Forestry, fishing, and related activities</b>	<b>Oil and gas extraction</b>	<b>Mining, except oil and gas</b>	<b>Support activities for mining</b>	<b>Utilities</b>	<b>Construction</b>
Actual Values - DoD Procurement Data	\$51,721	\$115,218	\$10,585	\$319,571	\$24,721	\$31,992,721	\$537,906,381
Agriculture, forestry, fishing, and hunting	\$7,856	\$31,005	\$8	\$288	\$27	\$25,594	\$806,860
Mining	\$176	\$138	\$2,061	\$81,586	\$6,536	\$684,644	\$1,990,254
Utilities	\$341	\$403	\$67	\$3,068	\$121	\$5,665,911	\$2,958,485
Construction	\$134	\$173	\$12	\$415	\$44	\$179,159	\$176,971,199
Manufacturing	\$1,681	\$2,085	\$205	\$8,213	\$761	\$537,478	\$27,164,272
Wholesale trade	\$1,484	\$1,924	\$127	\$5,273	\$438	\$339,123	\$12,802,172
Retail trade	\$745	\$1,832	\$152	\$5,976	\$502	\$457,496	\$22,054,162
Transportation and warehousing	\$853	\$830	\$102	\$5,497	\$351	\$793,419	\$8,122,386
Information	\$336	\$622	\$66	\$2,397	\$260	\$198,355	\$5,916,970
Finance and insurance	\$926	\$1,613	\$133	\$4,953	\$413	\$403,108	\$11,080,871
Real estate and rental and leasing	\$264	\$346	\$194	\$1,598	\$136	\$137,569	\$2,850,904
Professional, scientific, and technical services	\$714	\$2,362	\$180	\$4,666	\$517	\$607,862	\$20,924,558
Management of companies and enterprises	\$264	\$426	\$194	\$5,592	\$1,313	\$153,565	\$4,303,251
Administrative and waste management services	\$372	\$691	\$68	\$2,205	\$193	\$287,934	\$7,369,317
Educational services	\$176	\$461	\$38	\$1,470	\$124	\$143,967	\$3,227,438
Health care and social assistance	\$1,215	\$3,284	\$264	\$9,811	\$863	\$780,622	\$22,753,440
Arts, entertainment, and recreation	\$62	\$219	\$14	\$1,150	\$94	\$41,591	\$1,129,603
Accommodation and food services	\$393	\$1,002	\$82	\$3,196	\$274	\$294,333	\$7,207,946
Other services	\$595	\$922	\$78	\$2,780	\$255	\$249,543	\$7,692,061
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>\$18,589</b>	<b>\$50,339</b>	<b>\$4,043</b>	<b>\$150,134</b>	<b>\$13,221</b>	<b>\$11,981,274</b>	<b>\$347,326,150</b>

**Table 60. Economic Impact of ALL U.S. Military Activity to Kansas Earnings, Table 2 of 9**

ECONOMIC IMPACT TO EARNINGS FROM CONTRACTS BY INDUSTRY	Nonmetallic		Primary metal manufacturing	Fabricated metal product manufacturing		Machinery manufacturing	Computer and electronic product manufacturing	Electrical equipment and appliance manufacturing
	Wood product manufacturing	mineral product manufacturing						
Actual Values - DoD Procurement Data	\$195,963	\$432,272	\$2,118,282	\$29,525,313	\$24,837,791	\$23,214,912	\$3,243,373	
Agriculture, forestry, fishing, and hunting	\$176	\$346	\$1,906	\$26,573	\$22,354	\$18,572	\$2,919	
Mining	\$235	\$4,971	\$6,355	\$38,383	\$27,322	\$18,572	\$4,541	
Utilities	\$862	\$5,749	\$17,582	\$156,484	\$106,803	\$78,931	\$17,514	
Construction	\$294	\$821	\$4,025	\$53,146	\$42,224	\$32,501	\$5,514	
Manufacturing	\$45,385	\$83,558	\$463,904	\$7,865,543	\$5,685,370	\$5,021,385	\$728,137	
Wholesale trade	\$5,898	\$7,738	\$65,667	\$679,082	\$730,231	\$591,980	\$102,815	
Retail trade	\$3,155	\$7,132	\$34,528	\$496,025	\$387,470	\$329,652	\$53,191	
Transportation and warehousing	\$3,214	\$10,072	\$38,341	\$342,494	\$307,989	\$197,327	\$42,813	
Information	\$1,411	\$3,026	\$15,463	\$230,297	\$203,670	\$204,291	\$26,596	
Finance and insurance	\$2,508	\$5,706	\$27,749	\$398,592	\$325,375	\$273,936	\$42,164	
Real estate and rental and leasing	\$588	\$1,426	\$6,355	\$100,386	\$81,965	\$99,824	\$9,730	
Professional, scientific, and technical services	\$2,528	\$6,052	\$31,562	\$416,307	\$389,953	\$385,368	\$56,759	
Management of companies and enterprises	\$1,764	\$5,922	\$26,055	\$360,209	\$387,470	\$322,687	\$57,732	
Administrative and waste management services	\$1,411	\$3,156	\$16,946	\$215,535	\$181,316	\$171,790	\$24,001	
Educational services	\$745	\$1,599	\$8,261	\$121,054	\$96,867	\$83,574	\$12,649	
Health care and social assistance	\$5,173	\$10,980	\$56,558	\$847,376	\$660,685	\$575,730	\$87,571	
Arts, entertainment, and recreation	\$274	\$605	\$2,966	\$44,288	\$34,773	\$30,179	\$4,541	
Accommodation and food services	\$1,803	\$3,847	\$19,700	\$289,348	\$233,475	\$199,648	\$30,488	
Other services	\$1,822	\$5,101	\$24,360	\$295,253	\$223,540	\$174,112	\$31,461	
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>\$79,247</b>	<b>\$167,808</b>	<b>\$868,284</b>	<b>\$12,976,375</b>	<b>\$10,128,851</b>	<b>\$8,810,059</b>	<b>\$1,341,135</b>	

**Table 61. Economic Impact of ALL U.S. Military Activity to Kansas Earnings, Table 3 of 9**

<b>ECONOMIC IMPACT TO EARNINGS FROM CONTRACTS BY INDUSTRY</b>	<b>Motor vehicle, body, trailer, and parts manufacturing</b>	<b>Other transportation equipment manufacturing</b>	<b>Furniture and related product manufacturing</b>	<b>Miscellaneous manufacturing</b>	<b>Food, beverage, and tobacco product manufacturing</b>	<b>Textile and textile product mills</b>	<b>Apparel, leather, and allied product manufacturing</b>
Actual Values - DoD Procurement Data	\$6,164,730	\$732,348,410	\$368,054	\$4,376,277	\$48,705,686	\$6,813,054	\$5,742,966
Agriculture, forestry, fishing, and hunting	\$4,315	\$732,348	\$331	\$4,814	\$2,834,671	\$6,813	\$4,594
Mining	\$5,548	\$805,583	\$405	\$5,689	\$102,282	\$8,176	\$4,594
Utilities	\$20,344	\$3,002,628	\$1,730	\$21,444	\$292,234	\$36,109	\$22,398
Construction	\$7,398	\$1,244,992	\$626	\$14,879	\$97,411	\$10,901	\$6,892
Manufacturing	\$974,027	\$211,868,395	\$98,822	\$1,111,574	\$7,232,794	\$1,617,419	\$1,146,870
Wholesale trade	\$153,502	\$17,503,127	\$9,643	\$122,973	\$1,558,582	\$158,744	\$130,940
Retail trade	\$114,664	\$12,889,332	\$6,404	\$77,898	\$784,162	\$108,328	\$76,956
Transportation and warehousing	\$76,443	\$8,714,946	\$4,932	\$57,329	\$944,890	\$87,888	\$59,727
Information	\$37,605	\$6,151,727	\$3,092	\$49,452	\$379,904	\$51,779	\$37,904
Finance and insurance	\$69,045	\$10,911,991	\$5,042	\$61,268	\$808,514	\$84,482	\$64,321
Real estate and rental and leasing	\$19,111	\$2,416,750	\$1,325	\$15,317	\$209,434	\$21,802	\$16,080
Professional, scientific, and technical services	\$91,238	\$15,379,317	\$5,300	\$82,712	\$706,232	\$88,570	\$68,341
Management of companies and enterprises	\$59,181	\$9,593,764	\$4,049	\$58,642	\$555,245	\$91,295	\$74,084
Administrative and waste management services	\$40,071	\$5,785,552	\$2,724	\$35,448	\$394,516	\$46,329	\$67,767
Educational services	\$24,042	\$3,881,447	\$1,546	\$18,380	\$185,082	\$25,890	\$18,952
Health care and social assistance	\$128,843	\$22,776,036	\$10,747	\$128,225	\$1,266,348	\$179,865	\$132,088
Arts, entertainment, and recreation	\$6,781	\$1,171,757	\$552	\$7,002	\$68,188	\$9,538	\$6,892
Accommodation and food services	\$46,235	\$7,909,363	\$3,681	\$44,638	\$452,963	\$61,999	\$47,092
Other services	\$98,636	\$6,810,840	\$3,681	\$45,951	\$521,151	\$65,405	\$42,498
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>\$1,977,029</b>	<b>\$349,549,896</b>	<b>\$164,631</b>	<b>\$1,963,635</b>	<b>\$19,394,604</b>	<b>\$2,761,331</b>	<b>\$2,028,990</b>

**Table 62. Economic Impact of ALL U.S. Military Activity to Kansas Earnings, Table 4 of 9**

ECONOMIC IMPACT TO EARNINGS FROM CONTRACTS BY INDUSTRY	Plastics and rubber products						
	Paper manufacturing	Printing and related support activities	Petroleum and coal products manufacturing	Chemical manufacturing	Wholesale trade	Retail trade	
Actual Values - DoD Procurement Data	\$69,602	\$223,219	\$665,288,356	\$1,809,801	\$7,370,455	\$1,110,580,462	\$19,157,634
Agriculture, forestry, fishing, and hunting	\$56	\$223	\$532,231	\$2,172	\$6,633	\$1,332,697	\$24,905
Mining	\$104	\$290	\$27,143,765	\$11,402	\$14,741	\$1,221,639	\$26,821
Utilities	\$383	\$1,138	\$5,388,836	\$13,754	\$45,697	\$4,997,612	\$122,609
Construction	\$118	\$379	\$1,064,461	\$3,801	\$12,530	\$2,221,161	\$51,726
Manufacturing	\$13,134	\$64,309	\$89,015,582	\$272,737	\$1,677,516	\$22,544,783	\$390,816
Wholesale trade	\$1,559	\$5,514	\$16,033,449	\$50,493	\$173,943	\$326,954,888	\$249,049
Retail trade	\$981	\$4,107	\$9,114,450	\$26,966	\$120,875	\$22,211,609	\$6,331,598
Transportation and warehousing	\$1,016	\$3,572	\$12,041,719	\$30,586	\$128,983	\$17,213,997	\$304,606
Information	\$466	\$2,321	\$3,925,201	\$14,478	\$53,067	\$13,549,082	\$285,449
Finance and insurance	\$807	\$3,237	\$8,249,576	\$22,442	\$95,079	\$16,880,823	\$325,680
Real estate and rental and leasing	\$195	\$848	\$4,058,259	\$9,049	\$24,323	\$4,442,322	\$93,872
Professional, scientific, and technical services	\$821	\$3,348	\$12,108,248	\$41,806	\$107,609	\$22,544,783	\$398,479
Management of companies and enterprises	\$1,288	\$2,880	\$8,249,576	\$39,454	\$103,186	\$14,770,720	\$452,120
Administrative and waste management services	\$445	\$1,719	\$5,189,249	\$14,478	\$53,067	\$18,213,520	\$283,533
Educational services	\$230	\$1,004	\$2,395,038	\$6,334	\$28,745	\$5,552,902	\$101,535
Health care and social assistance	\$1,601	\$6,964	\$15,102,046	\$41,625	\$195,317	\$36,315,981	\$693,506
Arts, entertainment, and recreation	\$84	\$357	\$798,346	\$2,353	\$10,319	\$1,999,045	\$36,400
Accommodation and food services	\$557	\$2,321	\$5,455,365	\$15,383	\$67,808	\$12,438,501	\$237,555
Other services	\$647	\$2,344	\$5,721,480	\$17,374	\$72,230	\$11,661,095	\$222,229
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>\$24,493</b>	<b>\$106,877</b>	<b>\$231,586,877</b>	<b>\$636,688</b>	<b>\$2,991,668</b>	<b>\$557,067,160</b>	<b>\$10,632,487</b>

**Table 63. Economic Impact of ALL U.S. Military Activity to Kansas Earnings, Table 5 of 9**

ECONOMIC IMPACT TO EARNINGS FROM CONTRACTS BY INDUSTRY	Transit and ground passenger transportation							Other transportation and support activities*
	Air transportation	Rail transportation	Water transportation	Truck transportation	Transit and ground passenger transportation	Pipeline transportation		
Actual Values - DoD Procurement Data	-\$13,245	\$3,141	\$0	\$2,877,416	\$694,220	\$164,879	\$7,711,142	
Agriculture, forestry, fishing, and hunting	-\$16	\$3	\$0	\$2,877	\$902	\$198	\$11,567	
Mining	-\$60	\$8	\$0	\$8,057	\$3,471	\$2,292	\$15,422	
Utilities	-\$56	\$10	\$0	\$11,510	\$5,762	\$1,418	\$33,158	
Construction	-\$20	\$4	\$0	\$5,179	\$1,388	\$1,550	\$17,736	
Manufacturing	-\$472	\$79	\$0	\$69,346	\$26,103	\$6,826	\$175,043	
Wholesale trade	-\$224	\$62	\$0	\$68,195	\$23,742	\$3,660	\$112,583	
Retail trade	-\$254	\$55	\$0	\$73,374	\$18,119	\$3,990	\$188,923	
Transportation and warehousing	-\$2,815	\$762	\$0	\$743,237	\$253,182	\$40,329	\$3,146,146	
Information	-\$167	\$22	\$0	\$30,501	\$7,220	\$1,764	\$90,220	
Finance and insurance	-\$213	\$42	\$0	\$66,468	\$17,564	\$3,743	\$143,427	
Real estate and rental and leasing	-\$54	\$31	\$0	\$13,524	\$3,610	\$890	\$37,013	
Professional, scientific, and technical services	-\$293	\$74	\$0	\$51,506	\$24,922	\$10,602	\$145,741	
Management of companies and enterprises	-\$91	\$13	\$0	\$31,939	\$7,081	\$1,171	\$36,242	
Administrative and waste management services	-\$485	\$34	\$0	\$27,335	\$8,331	\$4,485	\$106,414	
Educational services	-\$62	\$15	\$0	\$13,236	\$4,374	\$923	\$47,038	
Health care and social assistance	-\$407	\$90	\$0	\$91,214	\$29,713	\$6,166	\$316,928	
Arts, entertainment, and recreation	-\$25	\$4	\$0	\$4,604	\$1,458	\$313	\$15,422	
Accommodation and food services	-\$356	\$29	\$0	\$29,062	\$9,303	\$1,979	\$111,812	
Other services	-\$151	\$32	\$0	\$42,298	\$9,303	\$2,341	\$103,329	
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>-\$6,220</b>	<b>\$1,370</b>	<b>\$0</b>	<b>\$1,383,462</b>	<b>\$455,547</b>	<b>\$94,641</b>	<b>\$4,854,164</b>	

**Table 64. Economic Impact of ALL U.S. Military Activity to Kansas Earnings, Table 6 of 9**

<b>ECONOMIC IMPACT TO EARNINGS FROM CONTRACTS BY INDUSTRY</b>	<b>Warehousing and storage</b>	<b>Publishing including software</b>	<b>Motion picture and sound recording industries</b>	<b>Broadcasting and telecommunications</b>	<b>Information and data processing services</b>	<b>Federal Reserve banks, credit intermediation and related services</b>	<b>Securities, commodity contracts, investments</b>
Actual Values - DoD Procurement Data	-\$815,594	\$11,500,531	\$78,423	\$0	\$763,687	\$125,905	\$0
Agriculture, forestry, fishing, and hunting	-\$1,060	\$11,501	\$78	\$0	\$1,069	\$101	\$0
Mining	-\$2,039	\$10,350	\$55	\$0	\$840	\$76	\$0
Utilities	-\$8,401	\$41,402	\$267	\$0	\$3,589	\$327	\$0
Construction	-\$2,855	\$17,251	\$141	\$0	\$1,833	\$277	\$0
Manufacturing	-\$16,801	\$365,717	\$1,161	\$0	\$14,816	\$1,272	\$0
Wholesale trade	-\$12,152	\$184,008	\$784	\$0	\$11,684	\$907	\$0
Retail trade	-\$20,553	\$207,010	\$1,114	\$0	\$19,856	\$1,750	\$0
Transportation and warehousing	-\$359,351	\$149,507	\$612	\$0	\$10,004	\$1,221	\$0
Information	-\$9,135	\$3,217,849	\$17,582	\$0	\$339,688	\$919	\$0
Finance and insurance	-\$14,925	\$163,308	\$918	\$0	\$14,281	\$28,631	\$0
Real estate and rental and leasing	-\$5,057	\$55,203	\$267	\$0	\$4,277	\$390	\$0
Professional, scientific, and technical services	-\$14,844	\$208,160	\$1,490	\$0	\$15,579	\$2,543	\$0
Management of companies and enterprises	-\$3,752	\$97,755	\$400	\$0	\$4,658	\$541	\$0
Administrative and waste management services	-\$11,745	\$127,656	\$769	\$0	\$17,030	\$1,221	\$0
Educational services	-\$5,138	\$54,052	\$274	\$0	\$6,186	\$453	\$0
Health care and social assistance	-\$35,723	\$359,967	\$1,914	\$0	\$34,137	\$3,022	\$0
Arts, entertainment, and recreation	-\$1,713	\$18,401	\$173	\$0	\$1,833	\$164	\$0
Accommodation and food services	-\$11,011	\$117,305	\$682	\$0	\$11,761	\$1,385	\$0
Other services	-\$11,337	\$106,955	\$604	\$0	\$10,081	\$1,045	\$0
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>-\$547,590</b>	<b>\$5,513,355</b>	<b>\$29,283</b>	<b>\$0</b>	<b>\$523,202</b>	<b>\$46,245</b>	<b>\$0</b>

**Table 65. Economic Impact of ALL U.S. Military Activity to Kansas Earnings, Table 7 of 9**

<b>ECONOMIC IMPACT TO EARNINGS FROM CONTRACTS BY INDUSTRY</b>	<b>Insurance carriers and related activities</b>	<b>Funds, trusts, and other financial vehicles</b>	<b>Real estate</b>	<b>Rental and leasing services and lessors of intangible assets</b>	<b>Professional, scientific, and technical services</b>	<b>Management of companies and enterprises</b>	<b>Administrative and support services</b>
Actual Values - DoD Procurement Data	\$0	\$0	\$7,129,565	\$4,977,426	\$372,044,573	\$0	\$85,213,606
Agriculture, forestry, fishing, and hunting	\$0	\$0	\$2,139	\$2,489	\$483,658	\$0	\$110,778
Mining	\$0	\$0	\$6,417	\$2,986	\$409,249	\$0	\$102,256
Utilities	\$0	\$0	\$19,963	\$10,950	\$1,636,996	\$0	\$366,419
Construction	\$0	\$0	\$29,231	\$5,973	\$744,089	\$0	\$153,384
Manufacturing	\$0	\$0	\$74,147	\$41,313	\$6,771,211	\$0	\$1,542,366
Wholesale trade	\$0	\$0	\$33,509	\$32,353	\$4,762,171	\$0	\$1,124,820
Retail trade	\$0	\$0	\$49,194	\$58,734	\$8,929,070	\$0	\$2,241,118
Transportation and warehousing	\$0	\$0	\$27,092	\$30,860	\$4,687,762	\$0	\$971,435
Information	\$0	\$0	\$19,963	\$30,860	\$5,097,011	\$0	\$1,039,606
Finance and insurance	\$0	\$0	\$76,999	\$50,770	\$6,659,598	\$0	\$1,448,631
Real estate and rental and leasing	\$0	\$0	\$235,276	\$735,166	\$1,823,018	\$0	\$383,461
Professional, scientific, and technical services	\$0	\$0	\$62,027	\$50,272	\$157,598,081	\$0	\$1,712,793
Management of companies and enterprises	\$0	\$0	\$12,120	\$17,421	\$2,046,245	\$0	\$758,401
Administrative and waste management services	\$0	\$0	\$74,860	\$37,331	\$7,775,732	\$0	\$34,204,741
Educational services	\$0	\$0	\$8,555	\$12,444	\$2,381,085	\$0	\$494,239
Health care and social assistance	\$0	\$0	\$55,611	\$83,123	\$15,588,668	\$0	\$3,425,587
Arts, entertainment, and recreation	\$0	\$0	\$2,852	\$4,977	\$892,907	\$0	\$178,949
Accommodation and food services	\$0	\$0	\$21,389	\$33,846	\$5,766,691	\$0	\$1,184,469
Other services	\$0	\$0	\$34,935	\$32,851	\$4,390,126	\$0	\$971,435
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>\$0</b>	<b>\$0</b>	<b>\$846,279</b>	<b>\$1,274,719</b>	<b>\$238,443,367</b>	<b>\$0</b>	<b>\$52,414,889</b>

**Table 66. Economic Impact of ALL U.S. Military Activity to Kansas Earnings, Table 8 of 9**

<b>ECONOMIC IMPACT TO EARNINGS FROM CONTRACTS BY INDUSTRY</b>	<b>Waste management and remediation services</b>	<b>Educational services</b>	<b>Ambulatory health care services</b>	<b>Hospitals and nursing and residential care facilities</b>	<b>Social assistance</b>	<b>Performing arts, museums, and related activities</b>	<b>Amusements, gambling, and recreation</b>
Actual Values - DoD Procurement Data	\$29,641,004	\$2,626,184	\$1,903,272	\$31,461	\$1,228,447	\$140,485	\$78,645
Agriculture, forestry, fishing, and hunting	\$32,605	\$4,202	\$2,855	\$66	\$3,194	\$183	\$165
Mining	\$94,851	\$3,677	\$2,665	\$50	\$2,211	\$155	\$118
Utilities	\$257,877	\$15,494	\$9,897	\$204	\$7,371	\$660	\$590
Construction	\$53,354	\$22,585	\$4,568	\$98	\$4,668	\$351	\$354
Manufacturing	\$646,174	\$62,503	\$46,630	\$859	\$39,802	\$2,458	\$1,691
Wholesale trade	\$755,846	\$42,282	\$31,214	\$582	\$24,937	\$1,630	\$1,243
Retail trade	\$758,810	\$68,281	\$53,482	\$887	\$31,694	\$3,147	\$1,887
Transportation and warehousing	\$465,364	\$33,090	\$27,788	\$488	\$18,304	\$1,433	\$975
Information	\$337,907	\$40,181	\$25,123	\$359	\$18,427	\$1,728	\$1,015
Finance and insurance	\$512,789	\$49,897	\$39,969	\$673	\$23,586	\$2,416	\$1,431
Real estate and rental and leasing	\$127,456	\$18,909	\$10,849	\$195	\$6,879	\$829	\$456
Professional, scientific, and technical services	\$486,112	\$51,211	\$39,017	\$673	\$22,972	\$2,683	\$1,596
Management of companies and enterprises	\$165,990	\$15,494	\$15,797	\$299	\$13,513	\$871	\$771
Administrative and waste management services	\$8,895,265	\$51,998	\$38,827	\$711	\$26,166	\$2,852	\$1,015
Educational services	\$151,169	\$1,121,906	\$13,323	\$239	\$8,231	\$1,138	\$448
Health care and social assistance	\$1,052,256	\$118,441	\$1,023,580	\$15,683	\$531,795	\$5,437	\$3,146
Arts, entertainment, and recreation	\$59,282	\$6,565	\$4,758	\$79	\$2,825	\$50,898	\$29,248
Accommodation and food services	\$394,225	\$42,544	\$32,546	\$645	\$19,409	\$1,798	\$999
Other services	\$877,374	\$38,868	\$25,884	\$466	\$16,216	\$1,602	\$1,101
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>\$16,124,706</b>	<b>\$1,808,128</b>	<b>\$1,448,771</b>	<b>\$23,256</b>	<b>\$822,200</b>	<b>\$82,268</b>	<b>\$48,249</b>

**Table 67. Economic Impact of ALL U.S. Military Activity to Kansas Earnings, Table 9 of 9**

ECONOMIC IMPACT TO EARNINGS FROM CONTRACTS BY INDUSTRY	Food services and drinking		
	Accommodation	places	Other services
Actual Values - DoD Procurement Data	\$2,829,149	\$3,449,948	\$6,294,528
Agriculture, forestry, fishing, and hunting	\$5,941	\$23,805	\$7,553
Mining	\$3,961	\$5,520	\$11,960
Utilities	\$19,521	\$25,875	\$39,026
Construction	\$11,600	\$10,350	\$33,990
Manufacturing	\$54,320	\$110,053	\$180,653
Wholesale trade	\$39,891	\$86,594	\$104,489
Retail trade	\$61,110	\$90,389	\$154,845
Transportation and warehousing	\$31,686	\$44,849	\$82,458
Information	\$32,818	\$40,019	\$77,423
Finance and insurance	\$44,983	\$63,824	\$103,230
Real estate and rental and leasing	\$14,146	\$18,630	\$31,473
Professional, scientific, and technical services	\$47,530	\$56,234	\$130,926
Management of companies and enterprises	\$26,028	\$18,975	\$45,321
Administrative and waste management services	\$38,194	\$33,464	\$99,454
Educational services	\$14,712	\$20,010	\$35,879
Health care and social assistance	\$102,415	\$140,413	\$237,304
Arts, entertainment, and recreation	\$5,658	\$8,970	\$12,589
Accommodation and food services	\$978,320	\$1,310,635	\$78,052
Other services	\$36,213	\$44,504	\$2,161,541
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>\$1,569,046</b>	<b>\$2,153,113</b>	<b>\$3,628,166</b>

**Table 68. Economic Impact of ALL U.S. Military Activity to Kansas Employment, Table 1 of 9**

ECONOMIC IMPACT TO EMPLOYMENT FROM CONTRACTS BY INDUSTRY	Forestry, fishing, and related activities						
	Crop and animal production	Forestry, fishing, and related activities	Oil and gas extraction	Mining, except oil and gas	Support activities for mining	Utilities	Construction
Actual Values - DoD Procurement Data	\$51,721	\$115,218	\$10,585	\$319,571	\$24,721	\$31,992,721	\$537,906,381
Agriculture, forestry, fishing, and hunting	1	1	0	0	0	2	72
Mining	0	0	0	1	0	10	30
Utilities	0	0	0	0	0	66	35
Construction	0	0	0	0	0	5	5,231
Manufacturing	0	0	0	0	0	11	624
Wholesale trade	0	0	0	0	0	7	245
Retail trade	0	0	0	0	0	23	1,115
Transportation and warehousing	0	0	0	0	0	14	200
Information	0	0	0	0	0	4	106
Finance and insurance	0	0	0	0	0	10	266
Real estate and rental and leasing	0	0	0	0	0	6	153
Professional, scientific, and technical services	0	0	0	0	0	13	440
Management of companies and enterprises	0	0	0	0	0	2	63
Administrative and waste management services	0	0	0	0	0	12	303
Educational services	0	0	0	0	0	8	179
Health care and social assistance	0	0	0	0	0	23	668
Arts, entertainment, and recreation	0	0	0	0	0	3	87
Accommodation and food services	0	0	0	0	0	22	534
Other services	0	0	0	0	0	12	360
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>252</b>	<b>10,711</b>

**Table 69. Economic Impact of ALL U.S. Military Activity to Kansas Employment, Table 2 of 9**

ECONOMIC IMPACT TO EMPLOYMENT FROM CONTRACTS BY INDUSTRY	Computer and Electrical						
	Wood product manufacturing	Nonmetallic mineral product manufacturing	Primary metal manufacturing	Fabricated metal product manufacturing	Machinery manufacturing	electronic product manufacturing	equipment and appliance manufacturing
Actual Values - DoD Procurement Data	\$195,963	\$432,272	\$2,118,282	\$29,525,313	\$24,837,791	\$23,214,912	\$3,243,373
Agriculture, forestry, fishing, and hunting	0	0	0	2	2	2	0
Mining	0	0	0	1	0	0	0
Utilities	0	0	0	2	1	1	0
Construction	0	0	0	2	1	1	0
Manufacturing	2	2	10	202	122	87	15
Wholesale trade	0	0	1	13	14	11	2
Retail trade	0	0	2	25	20	17	3
Transportation and warehousing	0	0	1	8	8	5	1
Information	0	0	0	4	4	4	1
Finance and insurance	0	0	1	10	8	7	1
Real estate and rental and leasing	0	0	0	6	4	5	1
Professional, scientific, and technical services	0	0	1	9	8	8	1
Management of companies and enterprises	0	0	0	5	6	5	1
Administrative and waste management services	0	0	1	9	7	7	1
Educational services	0	0	0	7	5	5	1
Health care and social assistance	0	0	2	25	19	17	3
Arts, entertainment, and recreation	0	0	0	3	3	2	0
Accommodation and food services	0	0	1	21	17	15	2
Other services	0	0	1	14	10	8	1
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>3</b>	<b>4</b>	<b>23</b>	<b>367</b>	<b>261</b>	<b>206</b>	<b>34</b>

**Table 70. Economic Impact of ALL U.S. Military Activity to Kansas Employment, Table 3 of 9**

<b>ECONOMIC IMPACT TO EMPLOYMENT FROM CONTRACTS BY INDUSTRY</b>	<b>Motor vehicle, body, trailer, and parts manufacturing</b>	<b>Other transportation equipment manufacturing</b>	<b>Furniture and related product manufacturing</b>	<b>Miscellaneous manufacturing</b>	<b>Food, beverage, and tobacco product manufacturing</b>	<b>Textile and textile product mills</b>	<b>Apparel, leather, and allied product manufacturing</b>
Actual Values - DoD Procurement Data	\$6,164,730	\$732,348,410	\$368,054	\$4,376,277	\$48,705,686	\$6,813,054	\$5,742,966
Agriculture, forestry, fishing, and hunting	0	65	0	0	267	1	0
Mining	0	11	0	0	1	0	0
Utilities	0	35	0	0	3	0	0
Construction	0	38	0	0	3	0	0
Manufacturing	17	2,821	3	24	175	53	35
Wholesale trade	3	335	0	2	30	3	3
Retail trade	6	650	0	4	40	5	4
Transportation and warehousing	2	222	0	1	23	2	2
Information	1	115	0	1	7	1	1
Finance and insurance	2	263	0	1	19	2	2
Real estate and rental and leasing	1	137	0	1	12	1	1
Professional, scientific, and technical services	2	324	0	2	15	2	1
Management of companies and enterprises	1	139	0	1	8	1	1
Administrative and waste management services	2	237	0	1	16	2	3
Educational services	1	216	0	1	10	1	1
Health care and social assistance	4	669	0	4	37	5	4
Arts, entertainment, and recreation	1	90	0	1	5	1	1
Accommodation and food services	3	585	0	3	33	5	3
Other services	5	319	0	2	24	3	2
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>50</b>	<b>7,273</b>	<b>5</b>	<b>51</b>	<b>729</b>	<b>89</b>	<b>63</b>

**Table 71. Economic Impact of ALL U.S. Military Activity to Kansas Employment, Table 4 of 9**

ECONOMIC IMPACT TO EMPLOYMENT FROM CONTRACTS BY INDUSTRY	Plastics and rubber products						
	Paper manufacturing	Printing and related support activities	Petroleum and coal products manufacturing	Chemical manufacturing	Plastics and rubber products manufacturing	Wholesale trade	Retail trade
Actual Values - DoD Procurement Data	\$69,602	\$223,219	\$665,288,356	\$1,809,801	\$7,370,455	\$1,110,580,462	\$19,157,634
Agriculture, forestry, fishing, and hunting	0	0	50	0	1	126	2
Mining	0	0	386	0	0	18	0
Utilities	0	0	62	0	1	58	1
Construction	0	0	31	0	0	65	2
Manufacturing	0	2	944	4	39	504	9
Wholesale trade	0	0	307	1	3	6,264	5
Retail trade	0	0	459	1	6	1,124	320
Transportation and warehousing	0	0	237	1	3	419	8
Information	0	0	73	0	1	252	5
Finance and insurance	0	0	199	1	2	405	8
Real estate and rental and leasing	0	0	165	0	1	256	6
Professional, scientific, and technical services	0	0	255	1	2	475	8
Management of companies and enterprises	0	0	120	1	2	214	7
Administrative and waste management services	0	0	210	1	2	759	12
Educational services	0	0	131	0	2	306	6
Health care and social assistance	0	0	444	1	6	1,067	20
Arts, entertainment, and recreation	0	0	62	0	1	146	3
Accommodation and food services	0	0	401	1	5	921	18
Other services	0	0	269	1	3	548	10
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>1</b>	<b>3</b>	<b>4,805</b>	<b>14</b>	<b>81</b>	<b>13,928</b>	<b>449</b>

**Table 72. Economic Impact of ALL U.S. Military Activity to Kansas Employment, Table 5 of 9**

ECONOMIC IMPACT TO EMPLOYMENT FROM CONTRACTS BY INDUSTRY	Transit and ground passenger transportation							Other transportation and support activities*
	Air transportation	Rail transportation	Water transportation	Truck transportation	Transit and ground passenger transportation	Pipeline transportation		
Actual Values - DoD Procurement Data	-\$13,245	\$3,141	\$0	\$2,877,416	\$694,220	\$164,879	\$7,711,142	
Agriculture, forestry, fishing, and hunting	(0)	0	-	0	0	0	1	
Mining	(0)	0	-	0	0	0	0	
Utilities	(0)	0	-	0	0	0	0	
Construction	(0)	0	-	0	0	0	1	
Manufacturing	(0)	0	-	1	0	0	4	
Wholesale trade	(0)	0	-	1	0	0	2	
Retail trade	(0)	0	-	4	1	0	10	
Transportation and warehousing	(0)	0	-	19	16	1	72	
Information	(0)	0	-	1	0	0	2	
Finance and insurance	(0)	0	-	2	0	0	3	
Real estate and rental and leasing	(0)	0	-	1	0	0	2	
Professional, scientific, and technical services	(0)	0	-	1	1	0	3	
Management of companies and enterprises	(0)	0	-	0	0	0	1	
Administrative and waste management services	(0)	0	-	1	0	0	4	
Educational services	(0)	0	-	1	0	0	3	
Health care and social assistance	(0)	0	-	3	1	0	9	
Arts, entertainment, and recreation	(0)	0	-	0	0	0	1	
Accommodation and food services	(0)	0	-	2	1	0	8	
Other services	(0)	0	-	2	0	0	5	
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>(0)</b>	<b>0</b>	<b>-</b>	<b>40</b>	<b>22</b>	<b>2</b>	<b>131</b>	

**Table 73. Economic Impact of ALL U.S. Military Activity to Kansas Employment, Table 6 of 9**

<b>ECONOMIC IMPACT TO EMPLOYMENT FROM CONTRACTS BY INDUSTRY</b>	<b>Warehousing and storage</b>	<b>Publishing including software</b>	<b>Motion picture and sound recording industries</b>	<b>Broadcasting and telecommunicat ions</b>	<b>Information and data processing services</b>	<b>Federal Reserve banks, credit intermediation and related services</b>	<b>Securities, commodity contracts, investments</b>
Actual Values - DoD Procurement Data	-\$815,594	\$11,500,531	\$78,423	\$0	\$763,687	\$125,905	\$0
Agriculture, forestry, fishing, and hunting	(0)	1	0	-	0	0	-
Mining	(0)	0	0	-	0	0	-
Utilities	(0)	0	0	-	0	0	-
Construction	(0)	1	0	-	0	0	-
Manufacturing	(0)	8	0	-	0	0	-
Wholesale trade	(0)	4	0	-	0	0	-
Retail trade	(1)	10	0	-	1	0	-
Transportation and warehousing	(10)	4	0	-	0	0	-
Information	(0)	83	0	-	8	0	-
Finance and insurance	(0)	4	0	-	0	1	-
Real estate and rental and leasing	(0)	3	0	-	0	0	-
Professional, scientific, and technical services	(0)	4	0	-	0	0	-
Management of companies and enterprises	(0)	1	0	-	0	0	-
Administrative and waste management services	(0)	5	0	-	1	0	-
Educational services	(0)	3	0	-	0	0	-
Health care and social assistance	(1)	11	0	-	1	0	-
Arts, entertainment, and recreation	(0)	1	0	-	0	0	-
Accommodation and food services	(1)	9	0	-	1	0	-
Other services	(1)	5	0	-	0	0	-
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>(17)</b>	<b>157</b>	<b>1</b>	<b>-</b>	<b>14</b>	<b>1</b>	<b>-</b>

**Table 74. Economic Impact of ALL U.S. Military Activity to Kansas Employment, Table 7 of 9**

<b>ECONOMIC IMPACT TO EMPLOYMENT FROM CONTRACTS BY INDUSTRY</b>	<b>Insurance carriers and related activities</b>	<b>Funds, trusts, and other financial vehicles</b>	<b>Real estate</b>	<b>Rental and leasing services and lessors of intangible assets</b>	<b>Professional, scientific, and technical services</b>	<b>Management of companies and enterprises</b>	<b>Administrative and support services</b>
Actual Values - DoD Procurement Data	\$0	\$0	\$7,129,565	\$4,977,426	\$372,044,573	\$0	\$85,213,606
Agriculture, forestry, fishing, and hunting	-	-	0	0	46	-	10
Mining	-	-	0	0	6	-	1
Utilities	-	-	0	0	19	-	4
Construction	-	-	1	0	22	-	5
Manufacturing	-	-	2	1	147	-	33
Wholesale trade	-	-	1	1	91	-	22
Retail trade	-	-	2	3	451	-	113
Transportation and warehousing	-	-	1	1	116	-	24
Information	-	-	0	1	95	-	19
Finance and insurance	-	-	2	1	160	-	35
Real estate and rental and leasing	-	-	17	22	105	-	22
Professional, scientific, and technical services	-	-	1	1	3,316	-	36
Management of companies and enterprises	-	-	0	0	30	-	11
Administrative and waste management services	-	-	3	2	325	-	1,444
Educational services	-	-	0	1	131	-	27
Health care and social assistance	-	-	2	2	458	-	101
Arts, entertainment, and recreation	-	-	0	0	65	-	14
Accommodation and food services	-	-	2	2	426	-	88
Other services	-	-	2	2	205	-	46
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	-	-	36	40	6,214	-	2,055

**Table 75. Economic Impact of ALL U.S. Military Activity to Kansas Employment, Table 8 of 9**

<b>ECONOMIC IMPACT TO EMPLOYMENT FROM CONTRACTS BY INDUSTRY</b>	<b>Waste management and remediation services</b>	<b>Educational services</b>	<b>Ambulatory health care services</b>	<b>Hospitals and nursing and residential care facilities</b>	<b>Social assistance</b>	<b>Performing arts, museums, and related activities</b>	<b>Amusements, gambling, and recreation</b>
Actual Values - DoD Procurement Data	\$29,641,004	\$2,626,184	\$1,903,272	\$31,461	\$1,228,447	\$140,485	\$78,645
Agriculture, forestry, fishing, and hunting	3	0	0	0	0	0	0
Mining	1	0	0	0	0	0	0
Utilities	3	0	0	0	0	0	0
Construction	2	1	0	0	0	0	0
Manufacturing	12	1	1	0	1	0	0
Wholesale trade	15	1	1	0	0	0	0
Retail trade	38	3	3	0	2	0	0
Transportation and warehousing	11	1	1	0	0	0	0
Information	6	1	0	0	0	0	0
Finance and insurance	12	1	1	0	1	0	0
Real estate and rental and leasing	7	1	1	0	0	0	0
Professional, scientific, and technical services	10	1	1	0	0	0	0
Management of companies and enterprises	2	0	0	0	0	0	0
Administrative and waste management services	262	2	2	0	1	0	0
Educational services	8	62	1	0	0	0	0
Health care and social assistance	31	3	22	0	41	0	0
Arts, entertainment, and recreation	4	0	0	0	0	2	2
Accommodation and food services	29	3	2	0	1	0	0
Other services	41	2	1	0	1	0	0
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>500</b>	<b>85</b>	<b>37</b>	<b>1</b>	<b>51</b>	<b>3</b>	<b>3</b>

**Table 76. Economic Impact of ALL U.S. Military Activity to Kansas Employment, Table 9 of 9**

ECONOMIC IMPACT TO EMPLOYMENT FROM CONTRACTS BY INDUSTRY	Food services and drinking		
	Accommodation	places	Other services
Actual Values - DoD Procurement Data	\$2,829,149	\$3,449,948	\$6,294,528
Agriculture, forestry, fishing, and hunting	1	2	1
Mining	0	0	0
Utilities	0	0	0
Construction	0	0	1
Manufacturing	1	3	4
Wholesale trade	1	2	2
Retail trade	3	5	8
Transportation and warehousing	1	1	2
Information	1	1	1
Finance and insurance	1	2	2
Real estate and rental and leasing	1	1	2
Professional, scientific, and technical services	1	1	3
Management of companies and enterprises	0	0	1
Administrative and waste management services	2	1	4
Educational services	1	1	2
Health care and social assistance	3	4	7
Arts, entertainment, and recreation	0	1	1
Accommodation and food services	54	101	6
Other services	2	2	101
<b>TOTAL IMPACT OF COLUMN INDUSTRY</b>	<b>73</b>	<b>128</b>	<b>148</b>





501 Poyntz Avenue  
Manhattan, KS 66502-6005  
(785) 776-8829  
john@manhattan.org



632 SW Van Buren, Suite 100  
Topeka, KS 66603  
(785) 296-1460  
(785) 296-1463 (fax)  
www.kansasinc.org  
ksinc@ink.org