

MILITARY ECONOMIC IMPACT ANALYSIS FOR EAST TENNESSEE | JUNE 2021



EAST TENNESSEE MILITARY AFFAIRS COUNCIL (ETMAC)

ETMAC is a non-profit organization that was founded in 1990 to recognize, encourage, support and advocate on behalf of military and veteran activities in East Tennessee. In cooperation with the Knoxville Chamber, ETMAC:

- Informs community, business, education, and government leaders about East Tennessee military units, their missions, and their contribution to the local economy.
- Serves as a liaison between military units, military-related organizations, and the public.
- Helps the community avoid "loss by default" of military offices, detachments, and installations.
- Helps veterans and military members along with their families understand that East Tennessee values them as members of the community.
- Promotes and supports military and veteran events and functions.
- Supports area military recruiters.
- Promotes the Employer Support of the Guard and Reserve (ESGR) Program.
- Supports charitable, scientific, and educational programs and events.

ETMAC sponsors and supports several military-related activities and organizations including:

- Annual ETMAC Veterans Appreciation and Awards Luncheon
- Colonel Jack K. Westbrook (USAF, Ret.) Army and Air Force ROTC Scholarships, University of Tennessee
- American Legion Post 2 Veteran's Day Parade
- HonorAir Knoxville
- East Tennessee Veterans Memorial Association's Medal of Honor Evening
- Pearl Harbor Day Remembrance Ceremony
- Vietnam Veterans Day Ceremony
- Mountain Man Memorial March
- Military Units' Family Days and Special Events
- Smoky Mountain Air Show

ETMAC membership is open to any individual, business, or organization. Visit the ETMAC website at www.ETMAC.org or contact the Knoxville Chamber at 865-637-4550 and ask for the "ETMAC representative."

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EXECUTIVE SUMMARY

This Military Economic Impact Analysis is an update of the last analysis completed in 2017. ETMAC had planned to release this report in Spring 2020; however, due to COVID 19 the release was postponed until 2021.

Like previous analyses, the purpose is to provide business and civic leaders, and the public at large, a complete picture of the very significant contribution the military and defense programs make to the economy of East Tennessee.

<u>Methodology</u>: The analysis follows standard Department of Defense methodology for determining the cumulative economic impact within fifty miles of Knoxville. The following factors are included:

- Annual payroll of Active Duty, Guard and Reserve, and civilian personnel.
- Expenditure for construction, supplies, services, contracts, and materials.
- Indirect jobs resulting from the personnel and their salaries.
- Military contracts to private businesses.
- Other military expenditures, including pay to military retirees, veterans' benefits, etc.

We included Active Duty, National Guard, and Reserve components of the Air Force, Army, Navy, and Marine Corps, and other Department of Defense related expenditures such as retiree benefits, assistance to veterans, and DoD contracts. The Department of Energy activities at Oak Ridge that support the Department of Defense were not included as their impact is well publicized elsewhere.

The economic impact has increased steadily since we completed the first analysis 19 years ago, and for several reasons the amount is over 50% higher than the last report in 2017.

- There has been a significant increase in the number and dollar amounts of Department of Defense contracts awarded to firms in the Knoxville area.
- The number of military retirees living in East Tennessee continues to remain over 9,000.
- There has also been a significant increase in the benefits our veterans are receiving, both in terms of medical care as well as educational assistance.
- Both the Army and Air Force missions in East Tennessee have continued to be relevant and very active; an example is the 119th Command and Control Squadron at McGhee Tyson converted to a new mission of supporting Cyber Security Operations.
- Finally, there is a continued increase in military and civilian salaries, including the salaries of the indirect jobs created by the military activity.

The military continues to be one of the major drivers of the economic activity in our area. As such, business and civic leaders should consider policies and actions that attract and retain this valuable resource to East Tennessee.

The total impact of military activity in East Tennessee is estimated to be more than \$2.9 Billion for 2019.

PURPOSE OF THE ANALYSIS

The purpose of this Military Economic Impact Analysis is to estimate the economic effect the military bases, installations, and other related military activities have on the local community. It can provide business and civic leaders, and the public at large, a complete picture of the very significant contribution that the military and defense programs make to the economy of East Tennessee.

Unlike some areas that have a very large active-duty military installation, the military presence in East Tennessee is characterized by several small- to medium-sized military units. The largest units are part of the Guard or Reserve components of their respective services. As such, the scope of their activities and number of personnel assigned may not be apparent daily since many of the personnel serve "part time." There are relatively few Active-Duty military personnel in the area. While there are several small contractors who perform DoD work, there is no large-scale defense contractor in the region. (The Department of Energy facility at Oak Ridge does support the Department of Defense; the DOE facility's financial impact is included in other reports and therefore excluded here).

Given the unique situation described above, one of ETMAC's goals is to collect the various military and military-related economic data into a single document and then explain the cumulative effect. It is hoped that this analysis will raise awareness of the importance of our local military to the economy of East Tennessee, as well as increase the appreciation of the public at large for the critical national defense missions these units perform.

METHODOLOGY AND SCOPE

This economic analysis uses the standard methodology and parameters of the DoD Economic Impact Analysis (EIA) Model. The total economic impact is computed by summing the payroll of all personnel, annual base/installation/activity expenditures for services, supplies, construction, maintenance, etc., and the estimated annual dollar value of indirect jobs created. As in the DoD model, the impact area is assumed to be within fifty miles of Knoxville. Appendix 2 contains additional details on the DoD EIA model.

We included Active Duty, National Guard, and Reserve components of the Air Force, Army, Navy, and Marine Corps as applicable, plus DoD contracts, various veterans' benefits, and military retiree pay. Data was provided by the individual units and organizations over the past several months and we have tried to obtain the most accurate, up-to-date information available.

Detailed data sheets for each unit included in the analysis can be found in Appendix 3. The Department of Energy activities at Oak Ridge that support the DoD was not included, as their impact is well publicized elsewhere.

The units, organizations, and activities in the analysis can be found in Appendix 1.

COMPARISON OF ECONOMIC IMPACT MILITARY VERSUS KNOXVILLE AREA MAJOR EMPLOYERS

<u>Comparison to Other Businesses:</u> While it is difficult to directly compare the results of this analysis to other activities in the area, the military is among the largest economic drivers in the area. Shown below is a list of Knoxville Area Major Employers ranked according to number of employees. The number of individuals included in our analysis (Active Duty, Guard, Reserve, retirees, and civilian employees) would rank tops on this list. To make a reasonable comparison, the *JobsEQ* model was used which differs from the DoD Economic Impact Model shown in Appendix 2.

Top Major Employers	<u>Direct</u> <u>Jobs</u>	<u>Indirect</u> <u>Jobs</u>	<u>Induced</u> Jobs	<u>Total</u> <u>Jobs</u>	\$ Economic Impact
U.S. DOE - Oak Ridge	15,862	16,831	23,898	56,591	\$17,502,971,516
*Military	6,955	9,254	13,499	29,708	\$9,891,460,245
DENSO Manufacturing	5,350	2,936	2,238	10,525	\$3,418,173,002
Covenant Health	9,792	2,573	2,907	15,272	\$2,336,082,897
State of Tennessee	3,286	1,208	2,694	7,187	\$1,922,933,741
Clayton Homes	4,883	861	1,302	7,046	\$1,655,248,040
University of Tennessee	9,384	906	2,029	12,319	\$1,434,098,225
University Health System	5,458	1,434	1,620	8,513	\$1,302,118,102
Knox County Schools	7,949	685	1,478	10,113	\$1,004,309,727
The Dollywood Co.	4,500	788	870	6,158	\$833,101,003
Walmart	6,863	579	924	8,367	\$791,255,043

Sources:

- Knoxville News-Sentinel Book of Lists 2020
- Chmura Economics JobsEQ Economic Impact Model Q1 2020

Direct Jobs – jobs within the specific industry being analyzed.

Indirect Jobs – jobs added within the support industries/suppliers of the industry being analyzed.

Induced Jobs — jobs added in all the other industries as a result of the household spending of the industry being analyzed and its suppliers — examples include dry cleaners, restaurants, grocery stores, etc.

^{*}Military economic impact figures in this table exclude: Cadets/Trainees, DoD contracts, UT aerospace & defense-related programs, GI Bill data, and other veteran benefits.

^{*}Please note: The Chmura Economics JobsEQ Economic Impact Model has changed from the last 2017 ETMAC Economic Impact Report to now include "induced jobs" added as a result of the household spending of both the "direct jobs" and "indirect jobs." Previous reports did not include the "induced" impacts and therefore cannot be compared to the current report. See all three impact definitions below:

<u>Military Impact – Beyond Dollars</u>: In addition to the purely economic factor, the military presence pays big dividends to the community in several other ways. Military personnel know the value of "service to others" and are valuable members of the community. Listed below are examples of the civic activities that Active Duty, Guard, and Reserve personnel, as well as veterans and retirees, are supporting daily:

- Boy and Girl Scouts
- Boys and Girls Clubs
- Charity runs/walks
- Church leadership roles
- Civic Events/Color Guards
- Combined Federal Campaign/United Way
- Habitat for Humanity
- High School Career Counseling
- High School Junior ROTC
- Homeless Veterans Stand Down Volunteers
- Honor Air Knoxville
- Military Funerals
- Mountain Man Memorial March
- President's Reading Program children in schools
- Knoxville Red Cross Chapter Support for the Armed Forces
- Red Cross Armed Forces Emergency Services Committee
- Salvation Army
- Service clubs such as Kiwanis and Rotary
- Toys for Tots
- United Way
- Veterans Appreciation and Awards Luncheon
- American Legion Post 2 Veterans Day Parade
- Youth mentoring
- Youth sports

Military veterans and retirees are skilled, reliable, hard-working, motivated, well-educated, and quickly become active in the local community.

Clearly, the military is one of the major drivers of the economic activity in our area. As such, business and civic leaders must consider policies and actions that attract and retain this invaluable resource to East Tennessee.



East Tennessee Military Affairs Council



The Military Economic Impact in

East Tennessee

June 2021



Supporting the Military in East Tennessee

- This presentation summarizes the results of the Military Economic Impact Study conducted by the East Tennessee Military Affairs Council (ETMAC), in cooperation with the Knoxville Chamber.
- The study uses data from Fiscal Year 2019/2020 and updates the previous study of 2017
- The detailed report is available at the ETMAC web site: www.etmac.org
- For more information, contact the Knoxville Chamber at 865-637-4550 and ask for the "ETMAC representative."

Updated: 05/10/2021



Economic Impact Analysis Overview



- ETMAC Who we are
- Purpose of the analysis and methodology
- Results
- Questions





Supporting the Military in East Tennessee

- This presentation will cover these topics.
 - First, some brief background on ETMAC, the purpose of the analysis, and the approach that was used.
 - The focus of the presentation will be on the results of the analysis.
 - And there will be an opportunity to ask questions at the end.

- Knoxville Sun Sphere
- Veterans Day Parade Knoxville



Economic Impact Analysis ETMAC



- East Tennessee Military Affairs Council
 - Founded in 1990 to recognize, encourage, support & advocate for area military activities
 - · Strong partnership with the Knoxville Chamber
- Military support some examples
 - · Veterans Appreciation & Awards Luncheon
 - Colonel Jack K. Westbrook ROTC scholarships at UT
 - · Veterans Day Parade
 - · HonorAir Knoxville
 - · Smoky Mountain Air Show
 - · Economic Impact Analysis
 - Mountain Man Memorial March



Supporting the Military in East Tennessee

- ETMAC has been in existence since 1990. Most large military bases or posts have a chamber-sponsored military affairs committee to link the military and the civilian-business community.
 - ETMAC serves that role here to help the public, business leaders, and others understand military activities in the area, and also to facilitate coordination among the many military units and related organizations in the area. ETMAC is currently comprised of 19 military organizations and 42 veteran or veteran related organizations.
- ETMAC is involved in a number of events and activities.
 - Since 1996, ETMAC has sponsored the Knoxville Veteran's Appreciation and Awards Luncheon and the Colonel Jack K. Westbrook (USAF, Retired) ROTC Scholarships to an Army and Air Force cadet at the University of Tennessee.
 - Other events include supporting the Veterans Day Parade, and *HonorAir* Knoxville which takes WW II, Korean, and now Vietnam War veterans to DC to see the memorials built in their honor.
 - This is the sixth Military Economic Impact Analysis completed by ETMAC.

- The late Sam Hardman, ETMAC and Honor Air "Ambassador", and Patrice Collins of the Knoxville Chamber.
- · Veterans Day Parade



Economic Impact Analysis Purpose - Methodology



- Purpose of the analysis
 - Provide business and civic leaders and the public a complete picture of the military and defense contributions to the local economy
- Methodology -- DoD Economic Impact Model
 - Total impact = payroll + other expenditures + indirect jobs



Supporting the Military in East Tennessee

- The purpose of the analysis is shown here. Most large military installations do an annual economic impact report and publicize it widely. East Tennessee does not have a single, large installation (such as Fort Campbell), but a number of smaller National Guard or Reserve units.
- While support for the local military units is quite strong in our area, the cumulative economic impact is not well understood.
- We applied the same model/formula used by other DoD installations to calculate the economic impact. This "formula" includes:
 - The military and civilian salaries
 - Other expenditures such as construction, utilities, service contracts, rent, supplies, etc.
 - Finally, military and civilian personnel will create some number of "indirect jobs" in the community. Obviously, these personnel and their families need housing, food, and other community goods and services, thereby creating a demand in the local economy.
- The total economic impact is the sum of these three factors.

Photo

• A tribute to a fallen hero.- Mountain Man Memorial March



Economic Impact Analysis Purpose - Methodology



- Units/organizations included (50 miles of Knoxville)
 - · Active Duty, Guard, and Reserve
 - · Military retirees
 - Veterans' benefits disability,
 VA medical, GI Bill, etc.
 - DoD Contracts
- Not included DOE/Oak Ridge





Supporting the Military in East Tennessee

- We included military units within 50 miles of Knoxville. This is the same area (50 miles) as the DoD model.
 - While there are a few active duty military personnel such as the ROTC Detachments at the University of Tennessee, the Military Entrance Processing Station (MEPS) and military recruiters, the predominant military presence is Guard and Reserves. The largest are the units at McGhee Tyson Air National Guard Base, the 278th Armored Cavalry Regiment US Army on Sutherland Avenue in Knoxville, and the 1-230th Assault Helicopter Battalion at the Air Base. There is also the Navy Operational Support Center (NOSC) and Marine Corps Reserve Center on Alcoa Highway.
 - There is a large military retiree presence in East Tennessee. We obtained the number and annual retired pay from the Defense Finance and Accounting Service (DFAS) in Cleveland, OH.
 - In addition, there are many veterans in the area who are entitled to disability pay, medical services, and educational benefits such as the GI Bill.
 - Finally, there are numerous local civilian business with contracts with the Department of Defense.
- The full report contains detailed data sheets on each activity, the source of the data, and a further explanation of the DoD Economic Impact Model.
- As in previous analyses, we have not included the work at the Department of Energy (DOE) facility in Oak Ridge in support of the military. That activity and associated economic impact are well publicized and included in other studies.

- · Blackhawk Helicopter performing a litter extraction
- A KC-135 Stratotanker aircraft of the 134th Air Refueling Wing, McGhee Tyson ANGB



Economic Impact Analysis What's Changed



- What has changed since the 2017 analysis
 - Significant increase in number and amount of DoD Contracts
 - Number of retirees continues to hover around 9,000
 - Growth of Air Force National Guard personnel, expenditures
 - · Increased veterans benefits
 - · Cost of living/salary increases
 - o Retiree benefits, military/civilian pay
 - Average annual salary (indirect jobs) increased



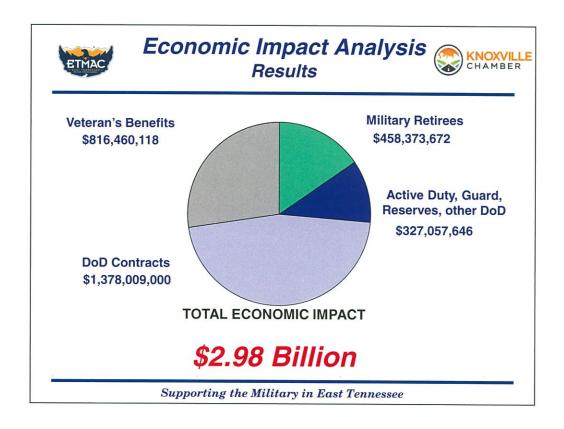


Supporting the Military in East Tennessee

- There have been a number of changes since the last analysis was completed about three years ago that have contributed to an increase in the economic impact.
 - Military contracts represent the largest increase in the economic impact. The number and amount for military contracts in the area around Knoxville increased significantly as compared to the 2017 analysis with an increase of over \$900 Million. Since ETMAC updates the analysis figures every three or four years, there may be a "spike" in the dollar amount simply because of the timing.
 - The number of retirees continues to hover around 9,000 in the 16-county region within 50 miles of Knoxville.
 - •There has also been a significant increase in the benefits our veterans are receiving, both in terms of medical care as well as educational assistance
 - •Mission change, reorganization, and funding have resulted in a 10% growth in the Active Duty, Guard and Reserve unit's funding.

As expected, with a rising cost of living, military and civilian salaries/payroll also increase. The average wage of the "indirect jobs" created by the military activity also tends to increase over time, although not with as much certainty or regularity. The average annual salary in the Knoxville area is almost \$46,000. (Source: Bureau of Labor Statistics).

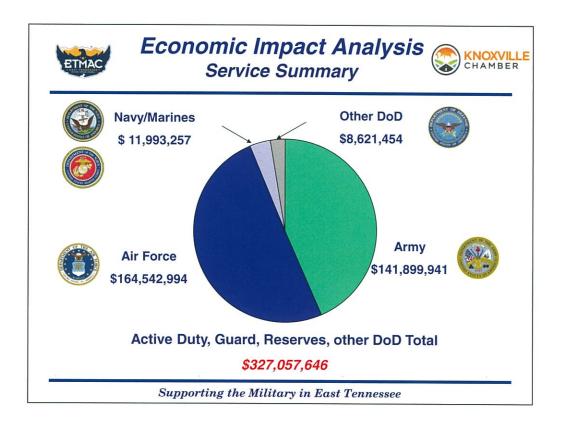
- · Both Guard and Reserve units supported COVID vaccine distribution across the state
- · Naval Operations and Support Center



- The four major categories of military and related spending included are shown on the pie chart.
 - Active duty, Guard and Reserve units and other DoD account for almost \$330 million. We will break out this amount on the next chart to show the various service contributions. (2017: \$299 million / 2013: \$240 million)
 - DoD Contracts are \$1.378 billion. This number is \$900 million higher than last reported and could reflect the timing of the contract.

(2017: \$467 million / 2013: \$102 million)

- With over 9,000 retirees in the area, their annual pay and indirect jobs created amount to some \$458 million. This speaks to the desirability of East Tennessee as an attractive place to settle. (2027: \$436 million / 2013: \$375 million)
- Veterans Benefits is normally the highest category and again showed significant growth at more than \$816 million. (2017: \$655 million / 2013: \$224 million)
- The total military economic impact is estimated to be **\$2.98 Billion** for 2019. (This compares to \$1.8 billion in the previous analysis).



- Breaking down the Active, Guard, Reserve, and other DoD, the Air Force and Army capture the bulk of the funding.
 - Most of the \$164 million for the Air Force results from the activities at McGhee Tyson, which includes not only the 134th Air Refueling Wing and their tanker aircraft, but several other units at the base that are not as well known: The I. G. Brown Air National Guard Training and Education Center, the 119th Cyber Operations Squadron (new mission), and the 572nd Air Force Band of the South.

(2017: \$140 million / 2013: \$141 million)

• The Army total is almost \$142 Million, with an increased number of Army personnel due in part to a realignment of forces across the state and mission conversion of the Blackhawk Helicopter Battalion at the airport.

(2017: \$139 million / 2013 Army: \$80 million)

• Other DoD includes the Military Entrance Processing Station and education and research programs at UT that support the Department of Defense.

(2017: \$10 million / 2013 Other DoD: \$10 million)

• Finally, the Naval Operations Support Center on Alcoa Highway makes up the bulk of the Navy and Marines total at nearly \$12 million.

(2017: \$9.3 million / 2013 Navy/Marines: \$8.1 million)



Economic Impact Analysis Comparison



Top Major Employers	Direct Jobs	Indirect Jobs	Induced Jobs	Total Jobs	\$ Economic Impact
U.S. DOE - Oak Ridge	15,862	16,831	23,898	56,591	\$17,502,971,516
*Military	6,955	9,254	13,499	29,708	\$9,891,460,245
DENSO Manufacturing	5,350	2,936	2,238	10,525	\$3,418,173,002
Covenant Health	9,792	2,573	2,907	15,272	\$2,336,082,897
State of Tennessee	3,286	1,208	2,694	7,187	\$1,922,933,741
Clayton Homes	4,883	861	1,302	7,046	\$1,655,248,040
University of Tennessee	9,384	906	2,029	12,319	\$1,434,098,225
University Health System	5,458	1,434	1,620	8,513	\$1,302,118,102
Knox County Schools	7,949	685	1,478	10,113	\$1,004,309,727
The Dollywood Co.	4,500	788	870	6,158	\$833,101,003
Walmart	6,863	579	924	8,367	\$791,255,043

Sources/Notes: Knoxville News Sentinel, Book of Lists 2020

* Economic impact dollars computed using JobsEQ; Chmura Economics (Excludes DoD Contracts, Veterans Benefits, and UT Defense-related programs)

Supporting the Military in East Tennessee

- While it is difficult to make a direct comparison of the military economic impact with other area businesses and industries, one comparison does give some insight as to the impact.
 - We compared the number of individuals included in our analysis (Active Duty, Guard, Reserve, retirees, and civilian employees) with other major employers in the area. The military ranks number two behind Oak Ridge.
 - To make a reasonable comparison from an economic impact standpoint, the *JobsEQ* model was used. This model differs from the DoD Economic Impact Model shown in Appendix 2 of the report. Therefore, the \$9.9 billion shown in this comparison for the military differs from the total overall economic impact figure of \$2.98 billion
 - Using this model, the military would exceed all other employers other than the Dept of Energy at Oak Ridge.
 - *Military economic impact figures in this table exclude: Cadets/Trainees, DoD contracts, UT aerospace & defense-related programs, GI Bill data, and other veteran benefits.

Sources:

- •Knoxville News-Sentinel Book of Lists 2020
- •Chmura Economics JobsEQ Economic Impact Model Q1 2020



Economic Impact AnalysisOur Military – More than Dollars



- Active Duty, Guard/Reserve, veterans and retirees are valuable community resources
 - · Highly trained, dependable, disciplined, loyal
 - · Many start local businesses
- Military people know the meaning of service: they get involved
 - Boys & Girls Clubs, United Way, Dogwood Arts, Rotary/Kiwanis, Honor Air, Habitat for Humanity, Red Cross, Toys for Tots, Salvation Army, and more!





Supporting the Military in East Tennessee

- While this report focuses on dollars, we know that our local military performs vital missions in defending our nation which included a significant number of personnel involved in various aspects of COVID response this past year. In addition, military personnel are valuable members of the community.
 - Veterans are exceptionally capable employees. They are highly trained, dedicated, reliable, and patriotic. A number of organizations have targeted job fairs especially for veterans.
 - There are numerous veteran-owned businesses in the local area and there are organizations that team with the Chamber to mentor veteran entrepreneurs.
 - Veterans know the meaning of "service". They take active roles in the community, with the activities listed just a few of the many examples.

- Veterans returning from Honor Air flights to Washington, DC.
- Holding the UT flag is (now retired) General Mike Holmes, a UTK graduate.



Economic Impact Analysis Thanks



- A very special thanks to:
 - Unit commanders & organizations for the data
 - Patrice Collins Knoxville Chamber/ETMAC
 - · Joe Riley Knoxville Chamber





Supporting the Military in East Tennessee

- The Economic Impact Report took a total team effort to complete, and a few people deserve a special thanks:
 - All the military commanders and their staffs who provided the economic and other data for their units.
 - Patrice Collins and Joe Riley of the Knoxville Chamber. Patrice serves as the ETMAC liaison at the Chamber and is our "Command Sergeant Major". Joe Riley researched and collected all the data, crunched the numbers, and produced the detailed work sheets in the report.
 - Finally, Joe Sutter and Owen Ragland, Past Presidents of ETMAC, rode herd on the entire effort.

- Blue Angels over Knoxville Smoky Mountain Air Show
- Patrice Collins ETMAC Administrator and Board Member

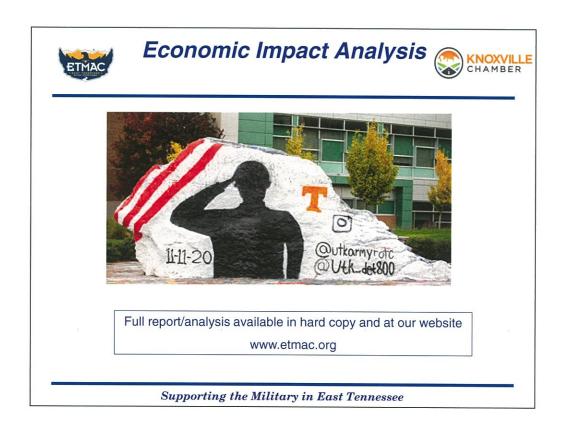


Photo: UT Army and Air Force ROTC units paint the "rock" on Veterans Day - Nov. 11, 2020

Appendix 1Units, Organizations and Activities Included

Service	Unit	Location	Mission
US Army			
Active Duty	Army ROTC – Rocky Top Battalion	University of Tennessee - Knoxville	Officer training and commissioning
	US Army Recruiters	Throughout the Area	Recruit officer & enlisted members for the Army
National Guard	278 Armored Cavalry Regiment & 1-230 th Assault Helicopter Battalion	Knoxville – Sutherland Ave and McGhee Tyson ANGB	Reconnaissance, surveillance, and security
Reserves	489 th Civil Affairs Battalion	Army Reserve Center – Middlebrook Pike	Assist other military units – Create, restore, and maintain public order
	844 th Engineer Combat Battalion	Army Reserve Center – Middlebrook Pike	Heavy construction
	1 st Battalion, 100 th Regiment, 3 rd Brigade, 100 th Division	Army Reserve Center – Middlebrook Pike	Engineer training
	AMSA 148	Army Reserve Center – Middlebrook Pike	Heavy vehicle maintenance
Other	Army High School Junior ROTC	Gibbs, Jefferson County, Campbell County, Grainger County, and South Doyle HS	Educate and train HS cadets in citizenship, promote community service, instill responsibility, character, and self-discipline

Units, Organizations and Activities Included (con't)

Service	Unit	Location	Mission
US Navy			
Active Duty	USN Recruiters	Throughout the Area	Recruit officer & enlisted members for the Navy
Reserves	Naval Operations Support Center	Alcoa Highway – Reserve Center	Training, logistical, & administrative support to the fleet
Other	Sea Cadets	Throughout the Area	Promote interest in seamanship and skills, encourage good citizenship and public service
US Marine Corps			
Active Duty	USMC Recruiters	Throughout the Area	Recruit officer & enlisted members for the Marine Corps
Reserves	Company D, 4 th Combat Engineer Battalion (includes some A/D)	Alcoa Highway – Reserve Center	Combat engineer support
	Detachment, Surgical Company A, 4 th FSSG	Alcoa Highway – Reserve Center	Medical support
US Air Force			
Active Duty	AFROTC Detachment 800	University of Tennessee	Officer training and commissioning
	332 nd USAF Recruiters	Throughout the Area	Recruit officer & enlisted members for the USAF
National Guard	134 th Air Refueling Wing	McGhee Tyson ANGB	Aerial refueling
	119 th Cyberspace Operations Squadron	McGhee Tyson ANGB	Provides command and control (C2) of full-spectrum cyberspace operations for Air Force and Air National Guard cyberspace forces.
	I.G. Brown Training and Education Center	McGhee Tyson ANGB	Professional military education such as the Non-Commissioned Officer (NCO) Academy
	572 nd Air Force Band of the South	McGhee Tyson ANGB	Support for USAF; public relations and recruiting
Other	Junior ROTC	William Blount, Heritage, Clinton, Karns, and Austin East HS	Educate and train HS cadets in citizenship, promote community service, instill responsibility, character, and self-discipline
	Civil Air Patrol	Throughout area	Support search and rescue, disaster relief and other emergencies and contingencies.

Units, Organizations and Activities Included (con't)

Service	Unit	Location	Mission
Other DoD			
Active Duty	Military Entrance Processing Station (MEPS)	Knoxville	Process and enlist members into all branches of the service
Various DoD Agencies	University of Tennessee	University of Tennessee	Research and Development, Executive Education and Training, etc.
Defense Contracts	Various	Counties within 50 miles of Knoxville (Congressional Districts One, Two, and Three)	Manufacturing and services for DoD in 2016
Other Military			
Department of Veterans Affairs	VA Medical Center – Outpatient Clinic	Knoxville – Ray Mears Blvd.	Primary care, specialty care, extended care, and related services for veterans
	Veteran's Affairs – Advisor/Registrar	University of Tennessee – Knoxville, Maryville College, Tusculum College, Pellissippi, Roane, and Walters Sate Community Colleges, and South College	Montgomery GI Bill and other education benefits
	Other Benefits	Knoxville Area	Veterans' rehabilitation, disability benefits, etc.
TN Department of Veterans Affairs	Ben Atchley State Veterans Nursing Home	Knoxville – One Veterans Way	Safe, secure, and pleasant home for veterans
Retirees	Retired Military Personnel	Within 50 miles of Knoxville	Retired pay

Appendix 2

DoD ECONOMIC IMPACT ANALYSIS MODEL

PAYROLL	
# ACTIVE DUTY PERSONNEL # GUARD/RESERVE PERSONNEL # CIVILIAN PERSONNEL	TOTAL ANNUAL SALARYTOTAL ANNUAL SALARYTOTAL ANNUAL SALARY
OTHER EXPENDITURES	\$TOTAL PAYROLL
CONSTRUCTION SERVICES MATERIALS CONTRACTS UTILITIES RENT SUPPLIES ENVIRONMENTAL OTHER	
	\$TOTAL OTHER EXPENDITURES
<u>INDIRECT JOBS*</u>	
#ACTIVE DUTY x 0.41 = #GUARD/RESERVE x 0. 16 = #CIVILIANS x 0.55 =	INDIRECT JOBS CREATED INDIRECT JOBS CREATED INDIRECT JOBS CREATED
JOBS CREATED x \$ 45,997 * =	\$IMPACT OF JOBS CREATED
TOTAL ECONOMIC IMPACT = PAYROL	L + EXPENDITURES + INDIRECT JOBS
*Notes 1. Indirect jobs multipliers were obtained from the employment base for each region. (AFM)	the DoD EIA model and are based on the size of IAN 65-506 Economic Impact Analysis).
2. The annual salary estimates for the indirect j files for Knoxville 2018 through www.bls.g.	jobs are from the Bureau of Labor Statistics (BLS) ov.

Appendix 3

ARMY ROTC		2019	ARMY Active Duty
	Personnel	Payroll	Comments
ACTIVE DUTY	6	\$610,000	
GUARD/RESERVE	1	\$78,000	
CIVILIAN	3	\$157,000	
SCHOLARSHIP CADETS	124	\$1,850,000	Includes stipends (scholarship & non-scholarship) books, tuition, fees
Totals	134	\$2,695,000	
INDIRECT JOBS	4	\$200,160	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	2.46		
Guard/Reserve x 0.16	0.16		
Civilian x 0.55	1.65		
EXPENDITURES		\$54,000	
Contract Services		\$15,000	
Materials/Supplies/Equip		\$19,000	
Utilities			
Healthcare			
Education			
TDY/TAD Expenses		\$20,000	
Other			
TOTAL ECO. IMPACT	138	\$2,949,160	Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: U.S. Army ROTC - Rocky Top Battalion		University of Tennessee	

ARMY JROTC (Junior ROTC)		2019	ARMY Active Duty
	Personnel	Payroll	Comments
			Data covers five units at area high schools
ACTIVE DUTY	0	\$0	including: Campbell Co., Gibbs,
GUARD/RESERVE	0	\$0	Grainger Co., Jefferson Co., and South-Doyle.
CIVILIAN	10	\$590,000	
CADETS	75	\$0	
Totals	85	\$590,000	
INDIRECT JOBS	6	\$300,240	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	0.00		
Guard/Reserve x 0.16	0.00		
Civilian x 0.55	5.50		
EXPENDITURES		\$90,325	
Contract Services		\$3,750	Bus contracts for transportation of cadets
Materials/Supplies/Equip		\$75,000	Uniforms & equipment
Utilities			
Healthcare			
			Summer Camp at local Boy Scout camp (this
Education		\$1,575	year Davey Crockett)
TDY/TAD Expenses			
Other		\$10,000	Military balls and/or awards ceremonies at the schools
TOTAL ECO. IMPACT	91	\$980,565	Total Impact = Payroll + Indirect Job \$ + Expenditures
-		,	'
Source: LTC Bill Woodcock; Senior Army Instructor; South-Doyle High School			

Army Recruiters		2019	ARMY Active Duty
UNIT DID NOT PROVIDE DATA			•
	Personnel	Payroll	Comments
ACTIVE DUTY	NA	NA	Unit did not provide data.
GUARD/RESERVE	NA	NA	
CIVILIAN	NA	NA	
OTHER	NA	NA	
Totals			
INDIRECT JOBS			Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	0.00		
Guard/Reserve x 0.16	0.00		
Civilian x 0.55	0.00		
EXPENDITURES			
Contract Services		NA	
Supplies		NA	
Materials		NA	
Utilities		NA	
Education		NA	
TDY/TAD Expenses		NA	
Rent		NA	
TOTAL ECO. IMPACT			Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: U.S. Army - Knoxville Recruiting Company			

ARMY National Guard		2019	ARMY National Guard
	Personnel	Payroll	Comments
ACTIVE DUTY	692	\$47,502,016	Active Duty includes full-time guard personnel.
GUARD/RESERVE	3,390	\$36,659,483	Army National Guard numbers include the 278th Armored Cavalry
			Regiment & the 1-230th Assault Helicopter Battalion in the first,
CIVILIAN	0	\$0	second &
OTHER	0	\$0	third congressional districts of Tennessee.
Totals	4,082	\$84,161,499	
INDIRECT JOBS	826	\$41,333,040	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	283.72		
Guard/Reserve x 0.16	542.40		
Civilian x 0.55	0.00		
EXPENDITURES		NA	Expenditure data was not available.
Armory Maintenance			
Contract Services & Supplies			
Rent			
Utilities			
TOTAL ECO. IMPACT	4,908	\$125,494,539	Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: U.S. Army - 278th Armored Cavalry Regiment			

ARMY Reserve		2019	ARMY Reserve
	Personnel	Payroll	Comments
ACTIVE DUTY	40		Active Duty payroll included in Reserve payroll total.
GUARD/RESERVE	373	\$6,237,843	Reserve units include: 489th Civil Affairs Battalion;
CIVILIAN	21	\$1,601,418	844th Engineer Battalion; 1-100th Engineer Battalion;
OTHER	0	\$0	321st Engineer Detachment; 630th Engineer Detachment
Totals	434	\$7,839,261	
INDIRECT JOBS	88	\$4,403,520	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	16.40		
Guard/Reserve x 0.16	59.68		
Civilian x 0.55	11.55		
EXPENDITURES		\$232,896	
Municipal Services		\$35,418	
Rent		\$0	
Utilities		\$51,597	
Maintenance/Repair/Minor Construction		\$133,381	
Environmental		\$12,500	
TOTAL ECO. IMPACT	522	\$12,475,677	Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: U.S. Army Reserve - Electronic Congressional Data Reporting System			

NAVY JROTC (Junior ROTC)		2019	NAVY Active Duty
	Personnel	Payroll	Comments
			Five area high school units include: Bearden, Central, Farragut,
ACTIVE DUTY	0	\$0	Fulton & West.
GUARD/RESERVE	0	\$0	
CIVILIAN	10	\$362,567	
CADETS	18	\$0	
Totals	28	\$362,567	
INDIRECT JOBS	6	\$300,240	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	0.00		
Guard/Reserve x 0.16	0.00		
Civilian x 0.55	5.50		
EXPENDITURES		\$19,088	
Contract Services			
			Uniform maintenance, orientation, in-service training, and unit
Materials/Supplies/Equip		\$19,088	support
Utilities			
Healthcare			
Education			
TDY/TAD Expenses			
Other			
TOTAL ECO. IMPACT	34	\$681,895	Total Impact = Payroll + Indirect Job \$ + Expenditures
		•	

Sources: Mike Fisk, NJROTC Instructor Compensation, U.S. Department of the Navy; and Danny Trent; Executive Director of Secondary Education; Knox County Schools

Navy Recruiters		2019	NAVY Active Duty
-			
	Personnel	Payroll	Comments
ACTIVE DUTY	18	\$1,296,000	
GUARD/RESERVE	0	\$0	
CIVILIAN	1	\$52,000	
OTHER	0	\$0	
Totals	19	\$1,348,000	
INDIRECT JOBS	8	\$400,320	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	7.38		
Guard/Reserve x 0.16	0.00		
Civilian x 0.55	0.55		
EXPENDITURES		\$0	
Contract Services		\$0	
Materials/Supplies/Equip		\$0	
Utilities		\$0	
Healthcare		\$0	
Education		\$0	
TDY/TAD Expenses		\$0	
Rent		\$0	
TOTAL ECO. IMPACT	27	\$1,748,320	Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: U.S. Naval Operations Support Center - Knoxville			

NAVY SEA CADETS		2019	NAVY Active Duty
	Personnel	Payroll	Comments
			This is a non-profit with no federal funding. The source of
ACTIVE DUTY	0	\$0	funds comes from the
GUARD/RESERVE	1	\$0	cadet families from all over East Tennessee.
CIVILIAN	5	\$0	
CADETS	30	\$0	
Totals	36	\$0	
INDIRECT JOBS	3	\$150,120	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	0.00		
Guard/Reserve x 0.16	0.16		
Civilian x 0.55	2.75		
EXPENDITURES		\$12,700	
Contract Services			
Materials/Supplies/Equip		\$12,700	
Utilities			
Healthcare			
Education			
TDY/TAD Expenses			
Other			
TOTAL ECO. IMPACT	39	\$162,820	Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: LTJG Todd Johnson, retired			
USN, Commanding Officer Knoxville			
Anchor Division			

Naval Operations Support Center		2019	NAVY - Active Duty and Reserves
			·
	Personnel	Payroll	Comments
ACTIVE DUTY	13	\$1,100,000	
GUARD/RESERVE	220	\$1,400,000	
CIVILIAN	1	\$39,000	
OTHER	0	\$0	
Totals	234	\$2,539,000	
INDIRECT JOBS	41	\$2,051,640	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	5.33		
Guard/Reserve x 0.16	35.20		
Civilian x 0.55	0.55		
EXPENDITURES		\$1,625,000	
Contract Services		\$250,000	
Materials/Supplies/Equip		\$75,000	
Utilities/Healthcare/Education		\$370,000	
TDY/TAD Expenses		\$930,000	
Other			
TOTAL ECO. IMPACT	275	\$6,215,640	Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: U.S. Naval Operations Support Center - Knoxville			

USMC Reserve/Recruiters		2019	MARINES Active Duty and Reserves
	Personnel	Payroll	Comments
ACTIVE DUTY	12	\$685,832	
GUARD/RESERVE	119	\$501,571	
CIVILIAN	0	\$0	
OTHER	0	\$0	
Totals	131	\$1,187,403	
INDIRECT JOBS	24	\$1,200,960	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	4.92		
Guard/Reserve x 0.16	19.04		
Civilian x 0.55	0.00		
EXPENDITURES		\$796,219	
Contract Services		\$55,749	
Supplies		\$10,000	
Construction			
Materials		\$315,000	
Rent		\$415,470	
TDY/TAD Expenses			
Healthcare			
Clothing Allowances			
Other			
TOTAL ECO. IMPACT	155	\$3,184,582	Total Impact = Payroll + Indirect Job \$ + Expenditures
TOTAL LOC. IIIII ACT	133	ψ3,134,362	Total Impact – Layron - maneet 300 \$ 1 Expenditures
Source: U.S. Marine Corps. Company D, 4th CEB Reserve Unit			Includes "D" Company Marines, "A" Detachment Marines, & RS Knoxville Recruiter

AFROTC - UT		2019	USAF Active Duty
	Personnel	Payroll	Comments
ACTIVE DUTY	13	\$900,840	Includes AFIT students (8)
GUARD/RESERVE	0	\$0	
CIVILIAN	0	\$0	
SCHOLARSHIP CADETS		\$650,550	Includes stipends (scholarship & non-scholarship), books, tuition, fees
Totals	13	\$1,551,390	
INDIRECT JOBS	5	\$250,200	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	5.33		
Guard/Reserve x 0.16	0.00		
Civilian x 0.55	0.00		
PENDITURES		\$0	
Contract Services			Expenditures are covered with university funds.
Materials/Supplies/Equip			
Utilities			
Healthcare			
Education			
TDY/TAD Expenses			
Other			
TOTAL ECO. IMPACT	18	\$1,801,590	Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: U.S. Air Force - ROTC Detachment 800, University of Tennessee			

AFJROTC (Junior ROTC)		2019	USAF Active Duty		
			-		
	Personnel	Payroll	Comments		
ACTIVE DUTY	0	\$0	Data covers 5 AFJROTC units within 50 miles of Knoxville.		
GUARD/RESERVE	0	\$0			
CIVILIAN	10	\$289,563	Instructors at four units within 50-mile radius of Knoxville.		
CADETS	608	\$0	Austin-East, Clinton, Heritage, William Blount, & Karns High Schools		
Totals	618	\$289,563			
INDIRECT JOBS	6	\$300,240	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)		
Active Duty x 0.41	0.00				
Guard/Reserve x 0.16	0.00				
Civilian x 0.55	5.50				
EXPENDITURES		\$397,423			
Supplies		\$13,049			
Uniforms		\$181,510			
Utilities					
Rent					
Education					
TDY/TAD Expenses					
Other		\$202,864			
TOTAL ECO. IMPACT	624	\$987,226	Total Impact = Payroll + Indirect Job \$ + Expenditures		
Source: R. Wayne Barron, GS-12, USAF; Directo	Source: R. Wayne Barron, GS-12, USAF; Director - Region 7; Headquarters, Air Force Junior ROTC; Holm Center, Maxwell AFB, AL				

AF Recruiters		*2016	USAF Active Duty
	Personnel	Payroll	Comments
			*No data provided for 2019. Data for this unit has been
ACTIVE DUTY	9	\$344,926	carried over from 2016 report.
GUARD/RESERVE	0	\$0	
CIVILIAN	1	\$37,113	
Totals	10	\$382,039	
INDIRECT JOBS	4	\$200,160	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	3.69		
Guard/Reserve x 0.16	0.00		
Civilian x 0.55	0.55		
EXPENDITURES		\$73,338	
Contract Services		\$2,823	
Supplies		\$5,555	
Utilities		\$3,650	
Construction		\$15,085	
Rent		\$42,025	
TDY/TAD Expenses			
Other		\$4,200	
TOTAL ECO. IMPACT	14	\$655,537	Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: U.S. Air Force - 332nd Recruiting Command			

McGhee Tyson ANGB All Units		2019	USAF Air National Guard
	Personnel	Payroll	Comments
ACTIVE DUTY	218	\$16,642,337	
GUARD/RESERVE	966	\$31,710,293	
CIVILIAN	425	\$34,056,150	Includes federal civilians, BX & Club, and other civilians
TRAINEES/CADETS	10,676	\$27,450,522	
Totals	12,285	\$109,859,302	
INDIRECT JOBS	478	\$23,919,120	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	89.38		
Guard/Reserve x 0.16	154.56		
Civilian x 0.55	233.75		
EXPENDITURES		\$27,241,429	
Contract Services	\$8,521,603		
Construction	\$16,463,945		
Materials, Equipment & Supplies	\$2,255,881		
TOTAL ECO. IMPACT	12,763	\$161,019,851	Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: U.S. Air Force - McGhee Tyson Air National Guard Base			Includes: 134th Air Refueling Wing, 119th Cyber Operations Squadron, 241st Engineering Installation Squadron, I.G. Brown ANG Training & Education Center, and the 572nd Air Force Band of the South

Civil Air Patrol		2019	USAF Auxiliary Civil Air Patrol
	Personnel	Payroll	Comments
ACTIVE DUTY	0	\$0	
GUARD/RESERVE	0	\$0	
CIVILIAN	1	\$28,750	
TRAINEES/CADETS	0	\$0	
Totals	1	\$28,750	
INDIRECT JOBS	1	\$50,040	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	0.00		
Guard/Reserve x 0.16	0.00		
Civilian x 0.55	0.55		
EXPENDITURES			No expenditure data provided.
Training			
1st Air Force Missions			
Cadet Programs			
Miscellaneous Expenses			
TOTAL ECO. IMPACT	2	\$78,790	Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: Dent Young, Lt. Col., Civil Air Patrol, Tennessee Wing			

U.S. Coast Guard Recruiters		2019	U.S. COAST GUARD Active Duty
- NO DATA PROVIDED			
	Personnel	Payroll	Comments
ACTIVE DUTY	NA	NA	
GUARD/RESERVE	NA	NA	
CIVILIAN	NA	NA	
Totals			
INDIRECT JOBS			Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	0.00		
Guard/Reserve x 0.16	0.00		
Civilian x 0.55	0.00		
EXPENDITURES			
Contract Services		NA	
Supplies		NA	
Utilities		NA	
Construction		NA	
Rent		NA	
TDY/TAD Expenses		NA	
Other		NA	
TOTAL ECO. IMPACT	0	\$0	Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: U.S. Coast Guard			

Military Entrance Processing Station		2019	Other DoD Active Duty
	Personnel	Payroll	Comments
4.0711/5 51171/	_		Active Duty and Guard/Reserve payroll included in the
ACTIVE DUTY	7		civilian payroll total.
GUARD/RESERVE	2		
CIVILIAN	23	\$2,150,131	
OTHER	0	\$0	
Totals	32	\$2,150,131	
INDIRECT JOBS	16	\$800,640	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	2.87		
Guard/Reserve x 0.16	0.32		
Civilian x 0.55	12.65		
EXPENDITURES		\$1,900,783	
Contract Services		\$874,300	
Materials/Supplies/Equip		\$51,413	
Rent		\$731,921	
Utilities		\$29,711	
TDY/TAD Expenses			
Other Expenditures		\$213,438	
Other Services			
TOTAL ECO. IMPACT	48	\$4,851,554	Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: Knoxville Military Entrance Processing Station			

UT Aerospace & Defense MBA Program		2019	Other DoD Active Duty
	Personnel	Expenses	Comments
STUDENTS	29	\$2,015,500	Student expenses include: tuition, fees & meals.
EXPENDITURES			
TDY/TAD Expenses		\$104,400	Student lodging
TOTAL ECO. IMPACT	29	\$2,119,900	

Source: Joseph B. Skipper; Executive Director, Aerospace & Defense Programs; Graduate & Executive Education; UT Haslam College of Business

Other Graduate & Executive Education - UT Haslam College of Business		2019	Other DoD Active Duty
EXPENDITURES	Personnel	Expenses	Comments
LIT Non Dograe Programming		¢1 575 000	The University of Tennessee provides research, development, training, and studies to the U.S. Air Force in three major areas: (1) Acquisition & Integrated Life-Cycle Management System (ILCMS) (2) Continuous Process Improvement (CPI) (3) Leadership & Organizational Development
UT Non-Degree Programming		\$1,575,000	Organizational Development
Visitors		\$75,000	
TOTAL ECO. IMPACT		\$1,650,000	

Source: Joseph B. Skipper; Executive Director, Aerospace & Defense Programs; Graduate & Executive Education; UT Haslam College of Business

Ben Atchley State Veterans' Home		2019	State Veterans' Services
-			
	Personnel	Payroll	Comments
ACTIVE DUTY	0	\$0	
GUARD/RESERVE	0	\$0	
CIVILIAN	183	\$7,441,981	
OTHER	0	\$0	
Totals	183	\$7,441,981	
INDIRECT JOBS	101	\$5,054,040	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Active Duty x 0.41	0.00		
Guard/Reserve x 0.16	0.00		
Civilian x 0.55	100.65		
EXPENDITURES		\$4,488,002	
Contract Services		\$634,566	
Materials/Supplies/Equip		\$2,646,971	
Utilities		\$412,465	
TDY/TAD Expenses			
Rent			
Other Services		\$794,000	
TOTAL ECO. IMPACT	284	\$16,984,023	Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: Ben Atchley State Veterans' Home			

DoD Prime Contracts		2019	Other DoD
DoD Contracts within 50-miles of Knoxville			
	_	Total Dollars	Comments
			The DoD Prime Contract Awards shown here represent grand total contract amounts awarded to
			Knoxville area companies from the Army, Air Force,
			Navy, Defense Logistics Agency, and all other
			defense agencies for FY 2019. Defense contract
Total Area Dellara	134	¢4 070 000 000	totals include all projects regardless single-year or
Total Area Dollars	contractors	\$1,378,009,000	multi-year. DOE contracts are not included.
TOTAL ECO. IMPACT		\$1,378,009,000	
Source: USAspending.gov			
Top 20 Contractors \$\$		2019	
Contractor	County	Total Amounts	Products/Services
Janus Global Operations	Loudon	\$539,117,764	Environmental remediation svcs; guard svcs;
SES Civil & Engineering Contractors	Anderson	\$175,847,615	technical project planning Civil engineers; construction
Vanquish Worldwide	Blount	\$105,677,252	Logistics support svcs
Relyant Global LLC	Blount	\$94,390,423	General contractor; runway construction
Noryant Clobal ELO	Bloant	Ψ04,000,420	Environmental & ecological svcs; construction;
Aerostar SES LLC	Anderson	\$77,865,105	building & infrastructure repairs
Specpro Environmental Services	Anderson	\$37,702,567	Engineering & maintenance svcs
Navarro Research & Engineering	Anderson	\$37,695,060	Environmental remediation & logistics support svcs
Siler Excavating	Claiborne	\$33,702,238	Excavating contractor; roadway maintenance
Valley Apparel	Knox	\$21,045,893	Military clothing
Navida Wila LO Jariana	17	Φ47.400.40 <u>5</u>	Demolition & salvage of facilities; environmental
North Wind Solutions Information International Associates	Knox	\$17,162,405	remediation
Jacobs Government Services Co.	Anderson Anderson	\$16,379,228 \$14,883,970	Applied research & exploratory development
Jacobs Government Services Co. Aqua-Chem	Knox	\$14,883,970	Environmental engineering & architectural svcs Water purification equipment
,,,			i
Anthony & Gordon Construction HGW & Associates	Knox Knox	\$13,964,859 \$12,739,159	Building construction Education & training

Contractors Continued:	County	Total Amounts	Products/Services
Short Bark Industries	Monroe	\$11,898,453	Personal armor & gear; ballistic combat shirts; combat coats; navy trousers
Security Walls	Knox	\$9,697,876	
Protection Strategies	Anderson	\$8,555,840	Maintenance & equipment repair svcs
Professional Project Services	Anderson	\$7,753,734	Engineering, architectural & research svcs
Phoenix Systems International	Roane	\$7,604,472	Heavy equipment transportation & logistics
Source: USAspending.gov			

VA Veterans' Benefits - Knoxville		2019	U.S. Veterans' Administration
	Personnel	Payroll	Comments
VETERANS			Veteran population in 16-county region within 50 miles of Knoxville is 89,848.
EXPENDITURES		\$772,747,000	There were also 28,591 unique patients. These are patients who received treatment at a VA healthcare facility.
Compensation & Pensions		\$482,519,000	
Construction		\$165,000	
Education/Vocational/Rehab/Employment		\$37,537,000	
General Operating Expenses		\$141,000	
Insurance/Indemnities		\$5,012,000	
Medical Care		\$247,373,000	
TOTAL ECO. IMPACT		\$772,747,000	
Sources: VA Office of the Actuary; VA Financial Management System; Veterans Benefits Administration Insurance Center; USAspending.gov; Allocation Resource Center			

NOTES:

Expenditure data sources: USASpending.gov for Compensation & Pension (C&P) and Education and Vocational Rehabilitation and Employment (EVRE) Benefits; Veterans Benefits Administration Insurance Center for the Insurance costs; the VA Financial Management System (FMS) for Construction, Medical Research, General Operating Expenses, and certain C&P and Readjustment data; and the Allocation Resource Center (ARC) for Medical Care costs.

^{*} Veteran population estimates, as of September 30, 2019, are produced by the VA Predictive Analytics and Actuary Service (VetPop 2016).

[#] Prior to FY 08, "Loan Guaranty" expenditures were included in the Education & Vocational Rehabilitation and Employment (E&VRE) programs. Currently, all "Loan Guaranty" expenditures are attributed to Travis County, TX, where all Loan Guaranty payments are processed. VA will continue to improve data collection for future GDX reports to better distribute loan expenditures at the state, county and congressional district levels.

^{**} Unique patients are patients who received treatment at a VA health care facility. Data are provided by the Allocation Resource Center (ARC).

- 1. Expenditures are rounded to the nearest thousand dollars. For example, \$500 to \$1,000 are rounded to \$1; \$0 to \$499 are rounded to \$0; and "\$ -" = 0 or no expenditures.
- 2. The Compensation & Pension expenditures include dollars for the following programs: veterans' compensation for service-connected disabilities; dependency and indemnity compensation for service-connected deaths; veterans' pension for nonservice-connected disabilities; and burial and other benefits to veterans and their survivors.
- 3. Medical Care expenditures include dollars for medical services, medical administration, facility maintenance, educational support, research support, and other overhead items. Medical Care expenditures do not include dollars for construction or other non-medical support.
- 4. Medical Care expenditures are allocated to the patient's home location, not the site of care.

VA Outpatient Clinic -			
Knoxville		2019	Department of Veteran's Affairs
	Personnel	Payroll	Comments
VA Clinic Employees	161	\$18,936,877	
VA Contract Employees	0	\$0	
Totals	161	\$18,936,877	
INDIRECT JOBS	89	\$4,453,560	Indirect Jobs x \$50,040 (Area Avg. Annual Pay)
Employees x 0.55	88.55		
EXPENDITURES		\$3,454,446	
Contract Services		\$473,205	includes security and facility contracts
Materials/Supplies/Equip		\$400,189	includes radiology, pharmacy and audiology supplies
Knoxville Lab Services			
Lease Payments		\$2,581,052	includes main, new and admin leases as well as utilities
Other Services			
TOTAL ECO. IMPACT	250	\$26,844,883	Total Impact = Payroll + Indirect Job \$ + Expenditures
Source: U.S. Veterans' Administration			

GI Bill - UT		2019	
	Personnel	Amount	Comments
VETERANS	619	\$7,243,107	
Totals	619	\$7,243,107	
Source: UT Admissions Office - Veterans' Affairs Advisor			
GI Bill - Pellissippi State		2019	
	Personnel	Amount	Comments
VETERANS	231	\$601,341	Chapter 33 - Post 9/11 GI Bill benefits & Chapter 31 - VA Vocational Rehab funds
Totals	231	\$601,341	
Source: Pellissippi State; Nancy Ramsey; Executive Director of Institutional Effectiveness, Assessment & Planning			
GI Bill - Roane State		2019	
	Personnel	Amount	Comments
VETERANS	135	\$675,000	
Totals	135	\$675,000	
Source: Roane State Community College Business Office			
GI Bill - Walters State		2019	
	Personnel	Amount	Comments
VETERANS	204	\$572,244	Includes 146 veterans and 58 of their dependents
Totals	204	\$572,244	
Source: Walters State Community College; Linda Mason; Veterans' Affairs Office			

GI Bill - South College		2019	
	Personnel	Amount	Comments
VETERANS	172	\$2,936,605	
Totals	172	\$2,936,605	
Source: South College; President Steve South			
GI Bill - Tusculum College		2019	
	Personnel	Amount	Comments
VETERANS	74	\$470,271	
Totals	74	\$470,271	
Source: Tusculum College; Dale Laney; Director of Veteran Services			
GI Bill - Maryville College		2019	
	Personnel	Amount	Comments
VETERANS	60	\$2,160,000	Includes both veterans & veteran dependents
Totals	60	\$2,160,000	
Source: Maryville College; Stephen Kasper			
GI Bill - Lincoln Memorial University		2019	
	Personnel	Amount	Comments
VETERANS	110	\$1,372,667	Includes all campuses in region
Totals	110	\$1,372,667	
Source: Lincoln Memorial University			

GI Bill - King University			2019	
		Personnel	Amount	Comments
	VETERANS	49	\$837,000	
	Totals	49	\$837,000	
Source: King University				
Military Retirees			2019	Other - DoD
		Personnel	Payroll	Comments
			-	Data from DFAS - Cleveland, OH - (50-
	RETIREES	9,053	\$272,625,192	mile radius of Knoxville)
				Indirect Jobs = Retirees x 0.41 (Payroll =
	INDIRECT JOBS	3,712	\$185,748,480	Ind Job x \$50,040)
TOTAL ECO. IMPACT		12,765	\$458,373,672	
Source: Defense Finance and Accounting Service				

ETMAC Economic Impact		2019	Summary
•			•
Unit/Categories	Total Jobs	Total \$ Impact	Comments
Army ROTC	138	\$2,949,160	
Army JROTC	91	\$980,565	
Army Recruiters	0	\$0	
Army National Guard	4,908	\$125,494,539	
Army - Reserves	522	\$12,475,677	
			Army Total = \$141,899,941
Navy JROTC	34	\$681,895	
Navy Sea Cadets	39	\$162,820	
Navy Recruiters	27	\$1,748,320	
Naval Operations Support Center	275	\$6,215,640	
			Navy Total = \$8,808,675
Marine Reserve/Recruiters	155	\$3,184,582	
			Marines Total = \$3,184,582
Air Force ROTC - UT	18	\$1,801,590	
Air Force JROTC	624	\$987,226	
Air Force Recruiters	14	\$655,537	
Air ForceMcGhee-Tyson ANGB	12,763	\$161,019,851	
Air Force Auxiliary - Civil Air Patrol	2	\$78,790	
			Air Force Total = \$164,542,994
Knoxville Military Entrance Processing Stn	48	\$4,851,554	
Aerospace & Defense MBA Program - UT	29	\$2,119,900	
Other Graduate & Executive Education - UT			
Haslam College of Business		\$1,650,000	
			Other DoD Total = \$8,621,454
Ben Atchley State Veterans' Home	284	\$16,984,023	
			State Veterans Services Total = \$16,984,023
DoD Prime Contracts		\$1,378,009,000	
			Contracts Total = \$1,378,009,000
VA Outpatient Clinic	250	\$26,844,883	
GI Bill - UT	619	\$7,243,107	
GI Bill -Maryville College	60	\$2,160,000	
GI Bill - Pellissippi State	231	\$601,341	
Gl Bill - Roane State	135	\$675,000	

GI Bill - Walters State	204	\$572,244	
Gl Bill - South College	172	\$2,936,605	
Gl Bill - Tusculum College	74	\$470,271	
GI Bill - Lincoln Memorial University	110	\$1,372,667	
GI Bill - King University	49	\$837,000	
Other Veteran's Benefits		\$772,747,000	Includes disability payments, rehabilitation, etc.
			VA Benefits Total = \$816,460,118
Retirees	12,765	\$458,373,672	
			Retiree Total = \$458,373,672
Total Impact			
(All Units/Categories)	34,640	\$2,996,884,459	

Appendix 4

Acronyms

AASF Army Aviation Support Facility

ACR Armored Cavalry Regiment

A/D Active Duty (personnel)

AFIT Air Force Institute of Technology

AFMAN Air Force Manual

AFROTC Air Force Reserve Officer Training Corps

AMSA Area Maintenance Support Activity

ANG Air National Guard

ANGB Air National Guard Base

ARW Air Refueling Wing

BLS Bureau of Labor Statistics

DoD Department of Defense

DOE Department of Energy

EIA Economic Impact Analysis

ESGR Employer Support for the Guard and Reserve

ETMAC East Tennessee Military Affairs Council

FSSG Force Service Support Group

JROTC Junior Reserve Officer Training Corps (High School)

MEPS Military Entrance Processing Station

MILCON Military Construction

MGIB Montgomery GI Bill

NCO Non-Commissioned Officer

ROTC Reserve Officer Training Corps

RPM Real Property Maintenance

TAD Temporary Assigned Duty

TDY Temporary Duty

TEC Training and Education Center

USAF United States Air Force

USMC United States Marine Corps

USN United States Navy

UT University of Tennessee

VA (Department of) Veteran's Affairs