

**2014
ECONOMIC IMPACT ANALYSIS**



**Wright-Patterson
Air Force Base
Ohio**

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PREFACE

Commander's Foreword

Wright-Patterson Air Force Base is one of the largest, most organizationally complex bases in the Air Force with over 27,500 personnel serving more than 100 different mission partners. These partners support combatant commands, sister services, major commands, and allies. All Wright-Patt active and reserve military, civilians, and contractors play a significant role in helping support and defend the United States. Locally, as the largest single-site employer in Ohio, Wright-Patt generates tens of thousands of direct and indirect jobs throughout Ohio's Miami Valley region.



Whether providing vital infrastructure and services to operate the base, or training and processing the over 1,000 Airmen who annually deploy to all corners of the world, the 88th Air Base Wing provides the foundation, which enables our mission partners' successes across Wright-Patt. These partners include the Air Force Materiel Command Headquarters, Air Force Life Cycle Management Center, Air Force Research Laboratory, Air Force Institute of Technology, National Air and Space Intelligence Center, and 445th Airlift Wing (Reserves) – all of whom deliver critical aerospace research, test and development; life cycle and supply chain management; advanced secondary education and research; national intelligence; flying operations; and combat support. This solid foundation, paired with such significant contributions to Air Force missions, allows us to *fly, fight and win* in air, space, and cyberspace. Wright-Patt is the center of innovation for our Air Force.

Additionally, the 88 ABW continually liaises with the surrounding community. The 20-plus cities, towns, and villages in the 16-county Miami Valley region, along with numerous private and public organizations, provide Wright-Patt with outstanding community support in countless ways through various military appreciation events at local universities, sporting events, and arts and culture venues. In turn, Wright-Patt remains a strong partner with the area, with many of our Airmen providing thousands of volunteer hours to community organizations, and becoming strong ambassadors within the community. This strong relationship was instrumental in Wright-Patt being tied for "#1" in an *Air Force Times* poll for quality of life.

The 2014 installation economic impact was estimated at over \$4.3 billion with more than 62,000 direct and indirect jobs created on or near the installation at any given time. We will continue to be good stewards as we strengthen and build our community relationships for both our Airmen and our Miami Valley family. Wright-Patt is the community and the community is Wright-Patt!


JOHN M. DEVILLIER, COLONEL, USAF
Commander, 88th Air Base Wing

Wright-Patterson's Heritage

Wright-Patterson AFB near Dayton, Ohio, traces its origin directly from the Wright brothers' pioneering flights in 1904 and 1905 at the Huffman Prairie Flying Field located in the middle of the installation. Its past, present and future are all inextricably linked with the Wright brothers' legacy. Dayton was the Wright brothers' home and Daytonians consider their city the "Birthplace of Aviation." The Wrights' early years, their bicycle shops, their printing business, and their early aviation efforts are evident throughout the greater Dayton area. Just off the end of Wright-Patterson's active runway, a replica of the Wright brothers' 1905 hangar overlooks the Huffman Prairie Flying Field. Here they established their first flying field, developed the first practical airplane, and in their own words, "really learned to fly." The Flying Field has been designated a National Historic Landmark and is part of the Dayton Aviation Heritage National Historical Park.

The installation itself has been a leader in military aviation since World War I. Aviation research and development began to flourish at Wright-Patterson as the U.S. entered World War I. Wilbur Wright Field was established in the summer of 1917 as a pilot training school at the site of Wright-Patterson's present flight line. In the fall of 1917, McCook Field was established as an Air Service engineering center. McCook Field was located near downtown Dayton at what is now the intersection of State Route 4 and Interstate 75. In 1927, a new aerodrome and research complex opened on land donated by the citizens of Dayton to replace the overcrowded McCook Field. Named Wright Field in honor of both brothers, it is now part of Wright-Patterson's Area B.

Wright-Patterson's logistics heritage also dates from World War I. The Fairfield Aviation General Supply Depot was established in 1917 adjacent to Wilbur Wright Field. The Fairfield Air Depot, as it became known, was a major Army Air Corps depot through the end of World War II. In 1931, the area encompassing the Fairfield Air Depot, Wilbur Wright Field, and the Huffman Prairie Flying Field, was renamed Patterson Field in honor of Lt. Frank Stuart Patterson who died in 1918 when his DH-4 crashed on the airfield during a flight test.

In 1948, Wright and Patterson Fields merged to create Wright-Patterson AFB. The 88 ABW has been the host organization for most of the period since the merger. It has provided base operating support for the installation since 1944.

Wright-Patterson is one of the largest, most diverse, and organizationally complex bases in the Air Force. Its missions range from life cycle and logistics management, to research and development, post-secondary education and research, flight operations, national intelligence, and many other defense and non-defense activities. Wright-Patterson is home to HQ AFMC, AFLCMC, AFRL, AFIT, NASIC, the National Museum of the United States Air Force (NMUSAF), the 445 AW, a regional DoD medical center, and numerous other Air Force, DoD, and government agencies. Enabling it all is the 88 ABW, which operates, maintains, and defends the installation.

Today, as in the first century of flight, the nation's aerospace systems are developed, researched, tested, and life cycle managed at Wright-Patterson AFB. The installation's legendary heritage spurs modern aerospace scientists, engineers, intelligence experts, and life cycle professionals in their quest to keep men and women flying higher, faster, farther, and safer with increasing capabilities than ever before. The installation also serves as an aerial port of embarkation and plays a continuing role in Overseas Contingency Operations.

The excellent community spirit and cooperation of the installation and its personnel is another hallmark of Wright-Patterson's heritage. Base personnel contribute thousands of volunteer hours to community projects and Science, Technical, Engineer, and Math (STEM) events. They support and offer special events at the NMUSAF, host the Air Force Marathon, conduct education outreach programs, and work with the Dayton Aviation Heritage National Historical Park to enhance the Miami Valley's legacy as the Birthplace of Aviation.

The creativity and professionalism of our military, federal civilians, and contractors combined with the vitality of the Miami Valley's citizens continue to make Wright-Patterson AFB the birthplace, home, and future of aerospace.



ECONOMIC IMPACT TABLES

Table 1

Personnel by Classification and Housing Location

CLASSIFICATION	LIVING ON BASE	LIVING OFF BASE	TOTAL
1. APPROPRIATED FUND MILITARY			
Active Duty			
Air Force	414	4,901	5,315
Army		59	59
Navy/Marine	5	24	29
International Military AFIT		23	23
Air Force Reserve (AFR)		1,866	1,866
Non-Extended Active Duty AFR		12	12
Trainees/Cadets (304 NPS 711 HPW Pipeline/2,441 TDY FTEs Students)	193		193
TOTAL:	612	6,885	7,497
2. ACTIVE DUTY MILITARY DEPENDENTS			
Air Force	791	9,361	10,152
Army		113	113
Navy/Marine	10	46	56
Air Force Reserve (AFR)		3,564	3,564
Non-Extended Active Duty AFR		23	23
TOTAL:	801	13,107	13,908
3. APPROPRIATED FUND CIVILIANS			
General Schedule (GS)			8,698
Federal Wage System (FWS)			499
Defense Commissary Agency (DeCA)			99
Defense Civilian Intelligence Personnel System (DCIPS) (GG, IA)			1,349
Other (SES, Scientific and Professional Positions, AD, DO, DR, DU, DX, ES, GP, SL, ST)			1,887
TOTAL:			12,532
4. NON-APPROPRIATED FUND, CONTRACT CIVILIANS AND PRIVATE BUSINESS			
Air Force Civilian Non-appropriated fund employees (NAF)			665
Army & Air Force Exchange Service civilian employees (AAFES)			225
Contract Civilians (not included below)			6,528
Private Businesses On Base, By Type:			
Chase Bank/Wright-Patt Credit Union			23
Office Runway (Cincinnati Association for the Blind)			6
Hope Hotel			60
National Aviation Hall of Fame			2
Other Civilian Vendors			14
TOTAL:			7,523
TOTAL ASSIGNED PERSONNEL:			27,552
TOTAL PERSONNEL INCLUDING DEPENDENTS:			41,460

Table 2
Annual Payroll by Classification and Housing Location

CLASSIFICATION	LIVING ON BASE (\$)	LIVING OFF BASE (\$)	TOTAL (\$)
1. APPROPRIATED FUND MILITARY			
Active Duty			
Air Force	\$ 18,496,258	\$ 402,744,576	\$ 421,240,834
Army		\$ 6,852,280	\$ 6,852,280
Navy/Marine	\$ 358,324	\$ 2,164,863	\$ 2,523,187
International Military AFIT		\$ 2,789,440	\$ 2,789,440
Air Force Reserve (AFR)		\$ 33,179,000	\$ 33,179,000
Non-Extended Active Duty AFR		\$ 250,500	\$ 250,500
Trainees/Cadets (711 HPW Pipeline/TDY Students)	\$ 12,829,803		\$ 12,829,803
TOTAL:	\$ 31,684,385	\$ 447,980,659	\$ 479,665,044
2. APPROPRIATED FUND CIVILIANS			
General Schedule (GS)			\$ 733,040,367
Federal Wage System (FWS)			\$ 28,954,768
Defense Commissary Agency (DeCA)			\$ 4,721,220
Defense Civilian Intelligence Personnel System (DCIPS) (GG, IA)			\$ 121,523,849
Other (SES, Scientific and Professional Positions, AD, DO, DR, DU, DX, ES, GP, SL, ST)			\$ 217,223,395
			TOTAL: \$ 1,105,463,599
3. NON-APPROPRIATED, FUND CONTRACT CIVILIANS AND PRIVATE BUSINESS			
Air Force Civilian Non-appropriated fund employees (NAF)			\$ 12,917,118
Army & Air Force Exchange Service civilian employees (AAFES)			\$ 5,509,337
Contract Civilians (not included below)			\$ 659,328,000
Private Businesses On Base, By Type:			
Chase Bank/Wright-Patt Credit Union			\$ 657,989
Office Runway (Cincinnati Association for the Blind)			\$ 210,600
Hope Hotel			\$ 969,600
National Aviation Hall of Fame			\$ 65,000
Other Civilian Vendors			\$ 630,000
			TOTAL: \$ 680,287,644
TOTAL ANNUAL PAYROLL:			\$ 2,265,416,287

Table 3

Expenditures for Construction, Services, and Procurement of Materials, Equipment, and Supplies

CLASSIFICATION	ACTUAL ANNUAL EXPENDITURES
1. CONSTRUCTION	
Military Construction Program (MILCON)	\$ 38,470,281
Non-Appropriated Fund Construction (NAF)	\$ 8,608,493
Military Family Housing (MFH)	\$ 1,271,376
Military Family Housing Operations and Maintenance (O&M)	\$ 769,593
Construction related Operations and Maintenance (O&M)	\$ 66,985,387
TOTAL:	\$ 116,105,130
2. SERVICES	
Operations and Maintenance Service Contracts (O&M)	\$ 37,011,134
Medical Service Contracts	\$ 59,447,319
Non-Appropriated Fund Service Contracts (NAF)	\$ 354,663
Other Service Contracts	\$ 74,110,711
Research, Development, Testing and Evaluation (RDT&E) Service Contracts	\$ 36,658,933
TOTAL:	\$ 207,582,760
3. PROCUREMENT OF MATERIALS, EQUIPMENT, AND SUPPLIES	
Commissary (DeCA)	\$ 220,247
Base Exchange (AAFES)	\$ 1,758,336
Health (Tri-Care, Government Cost Only)	\$ 45,014,039
Non-Appropriated Fund (NAF)	\$ 1,355,016
Education (Impact Aid and Tuition Assistance)	\$ 3,906,482
Chase Bank/Wright-Patt Credit Union	\$ 158,000
TDY (Military and Civilian)	\$ 11,510,246
GPC/Other Materials, Equipment & Supplies	\$ 256,575,103
TOTAL:	\$ 320,497,469
TOTAL ANNUAL EXPENDITURES: \$ 644,185,359	

Table 4
Estimate of Number and Dollar Value of Indirect Jobs Created

TYPE OF PERSONNEL	NUMBER OF BASE JOBS	MULTIPLIER	NUMBER OF INDIRECT JOBS
ACTIVE DUTY MILITARY	7,497	0.41	3,074
APPROPRIATED FUND CIVILIANS	12,532	1.57	19,675
OTHER CIVILIANS	7,523	1.57	11,811
TOTAL:	27,552		34,560
ESTIMATED NUMBER OF INDIRECT JOBS CREATED:			34,560
AVERAGE ANNUAL PAY FOR THE LOCAL COMMUNITY:			\$40,423
ESTIMATED ANNUAL DOLLAR VALUE OF JOBS CREATED:			\$1,397,018,880

DATA SOURCES:

Multipliers: Logistics Management Institute (LMI), Economic Impact Database, Indirect Job Multipliers for AF Installations, Excel file, Feb 95, SAF/FMC – Cost and Economics is accessible at www.my.af.mil.

Avg Annual Pay: Current tables for Average Annual Pay Levels in Metropolitan Areas and Average Annual Pay by city/state are accessible at www.bls.gov.

Table 5
Total Annual Economic Impact Statement

ANNUAL PAYROLL:		
Military		\$ 479,665,044
Federal Civilian		\$ 1,105,463,599
Other Civilian		\$ 680,287,644
	Total	\$ 2,265,416,287
ANNUAL EXPENDITURES:		\$ 644,185,359
ESTIMATED ANNUAL DOLLAR VALUE OF JOBS CREATED:		
Estimated Indirect Jobs Created		34,560
Average Annual Pay		\$40,423
	Total	\$ 1,397,018,880
TOTAL ECONOMIC IMPACT:		\$ 4,306,620,526

APPENDICES

Analysis Methodology

The objective of this Economic Impact Analysis (EIA) is to quantify Wright-Patterson AFB’s local economic activity within Fiscal Year 2014 (FY14). FY14 covers the time period from October 1, 2013 to September 30, 2014. For the purpose of this analysis, the local area is defined as the Greater Dayton region, and is referred to as the Metropolitan Statistical Area (MSA). The MSA for Wright-Patterson AFB consists of all or part of 14 counties in Southwest Ohio: Auglaize, Butler, Champaign, Clark, Clinton, Darke, Fayette, Greene, Mercer, Miami, Montgomery, Preble, Shelby, and Warren. The MSA is illustrated in Figure 1 below.



Figure 1: Economic Area for Wright-Patterson AFB

Table 1: Personnel by Classification and Housing Location

The active duty Air Force military personnel was derived from an Economic Resource Impact Statement (ERIS) produced from the Defense Joint Military Pay System (DJMS) report furnished by the 88 Comptroller Squadron (CPTS/FMF), and from NIPR accounts provided by the 88 Communications Squadron (88 CS/SCO). The population of Army/International military personnel was derived from the input provided from AFIT. The population of Navy/Marine military personnel is derived from inputs provided from AFIT, Naval Medical Research Unit (NAMRU), and US Marine Forces Reserves (USMFR). The Air Force Reserve population was provided by the 445 AW. The Military Dependent population was calculated utilizing the average number of dependents for all grades/ranks from AFI 65-503 *Cost Factors*, Table 29-1, *Dependents Per Military Sponsor*. The Appropriated Fund, Non-Appropriated Fund, Contract Civilian, and Private Business populations were provided by the 88 FSS/FSM/FSR, 88 CS/SCO, tenant organizations, and non-governmental organizations.

Table 2: Annual Payroll by Classification and Housing Location

The payroll for active duty Air Force military personnel was derived from the ERIS/DJMS report furnished by the 88 CPTS/FMF. The Army/International military payroll was provided by AFIT. The Navy/Marine military payroll was provided by AFIT, NAMRU, and USMFR. The Air Force Reserve payroll was provided by 445 AW. The Appropriated Fund, Non-Appropriated Fund, Contract Civilian, and Private Business payrolls were provided by the 88 FSS/FSM, 88 CS/SC, and various tenant organizations and non-governmental organizations.

Table 3: Expenditures for Construction, Services, and Procurement

All of the Military Construction (MILCON) funded spending was collected from the US Army Corps of Engineers (USACoE). NAF funded construction expenditures were provided by the 88 FSS/FSR. All other construction related expenditures were provided by the Civil Engineer Directorate (88 ABW/CE) and USACoE. The amount for O&M Other Service Contracts was provided by the Air Force Life Cycle Management Center Contracting Directorate (AFLCMC/PK), and AFRL. Medical Service Contract expenditures were provided by AFLCMC/PK, AFRL, and 88 MDSS. The amount for Non-Appropriated Fund Service Contracts was provided by the 88 FSS/FSR. The amount for Other Service Contracts was provided by AFLCMC/PK, DeCA, and the 88 MDSS. The amount for Research, Development, Testing and Evaluation (RTD&E) Service Contracts was provided by AFRL. NAF procurement spending was provided by 88 FSS/FSR. Education spending was a combination of the inputs provided by 88 FSS/FSD and the U.S. Department of Education. Data for the Government Purchase Card (GPC) expenditures and other spending came from the 88 CPTS/FMA CRIS accounting system and the USACoE.

Table 4: Estimate of Number and Dollar Value of Indirect Jobs Created

The multipliers in this table were taken from the Economic Impact Database owned by the Logistics Management Institute, which is available through the Secretary of the Air Force Financial Management and Comptroller (SAF/FMC) webpage on the Air Force Portal. The average annual pay for the local community was obtained from the United States Department of Labor website: <http://www.bls.gov/ro5/qcewoh.htm>. This methodology is required according to Chapter 8 of AFMAN 65-506.

Table 5: Total Annual Economic Impact Estimate

This table is simply a summary of Tables 1 – 4. Wright-Patterson AFB's total estimated economic impact upon the MSA is **\$4,306,620,526**.

Summary

This Economic Impact Analysis was prepared by the 88 CPTS/FMA, Wright-Patterson AFB, Ohio. Questions or comments concerning the statistics or data contained in this analysis may be addressed to Mr. Ken Charles, 937-522-2133, or by email to kenneth.charles@us.af.mil.

Summary of Capital Assets

CAPITAL ASSETS	
<i>(As of: 30 September 2014)</i>	
Building Category	Square Feet
Housing (Includes detached garages, storage buildings, and VAQ/VOQ)	777,163
Community (Includes commissary, BX, and recreation)	2,672,118
Research and Development	6,039,832
Hospital	783,194
All Other Buildings (Includes Operations & Training, Supply, Maintenance & Production, and Administration)	6,243,612
Other Structures and Facilities	119,851
TOTAL:	16,635,770

Dormitory/Temporary Quarters	Number of Units	Bed Capacity
Airman/NCO	6	592
Visiting Officer/Airman Quarters	8	441
Temporary Lodging Facilities	21	132
Compassionate Care Facilities	2	32
TOTAL:	37	1,197

Land	Acres
Fee Owned	7,629
Easements	431
Right of Way	83
Leased	2
TOTAL:	8,145

Runways	Linear Feet
Area A	19,600
TOTAL:	19,600

Facilities Data	Number of Buildings
Buildings	463
Family Housing	127
TOTAL:	590

Figure 2: Wright-Patterson AFB's Capital Assets

Personnel Distribution

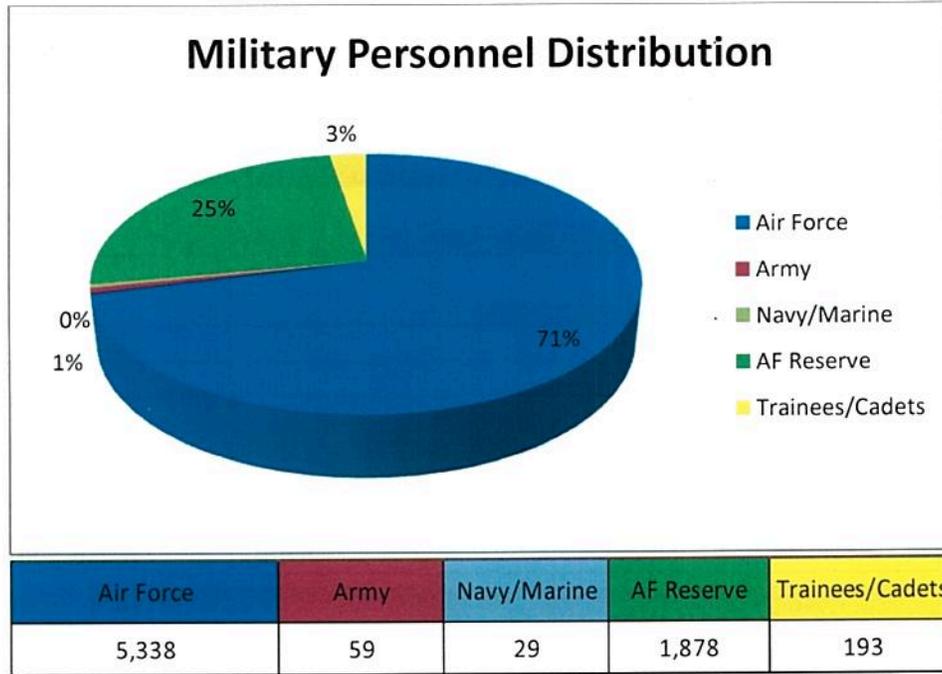


Figure 3: Distribution of Military Personnel by Branch of Service

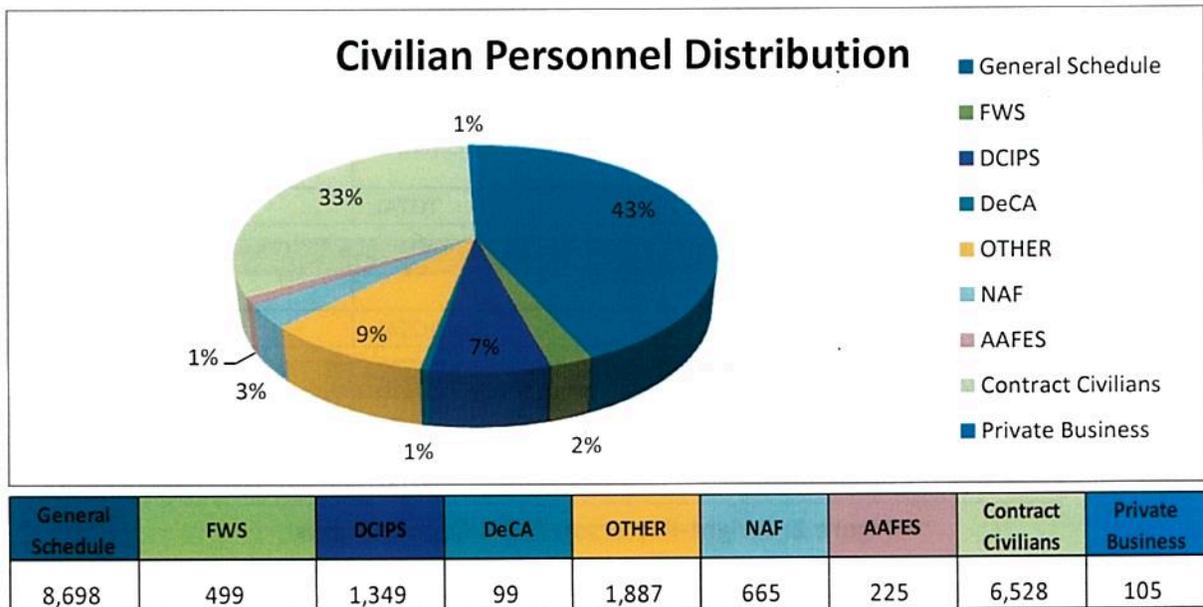


Figure 4: Distribution of Civilians by Personnel System

Total Military & Civilian Payroll and Personnel Assignment Trends

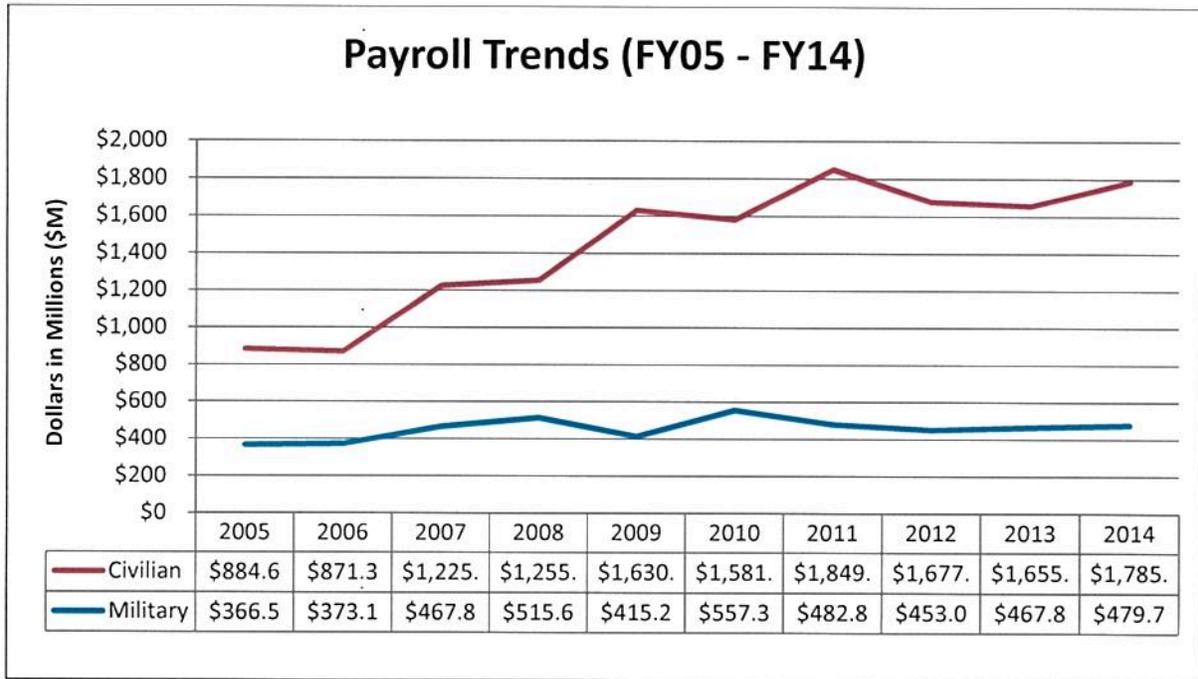


Figure 5: Total Military & Civilian Annual Payroll

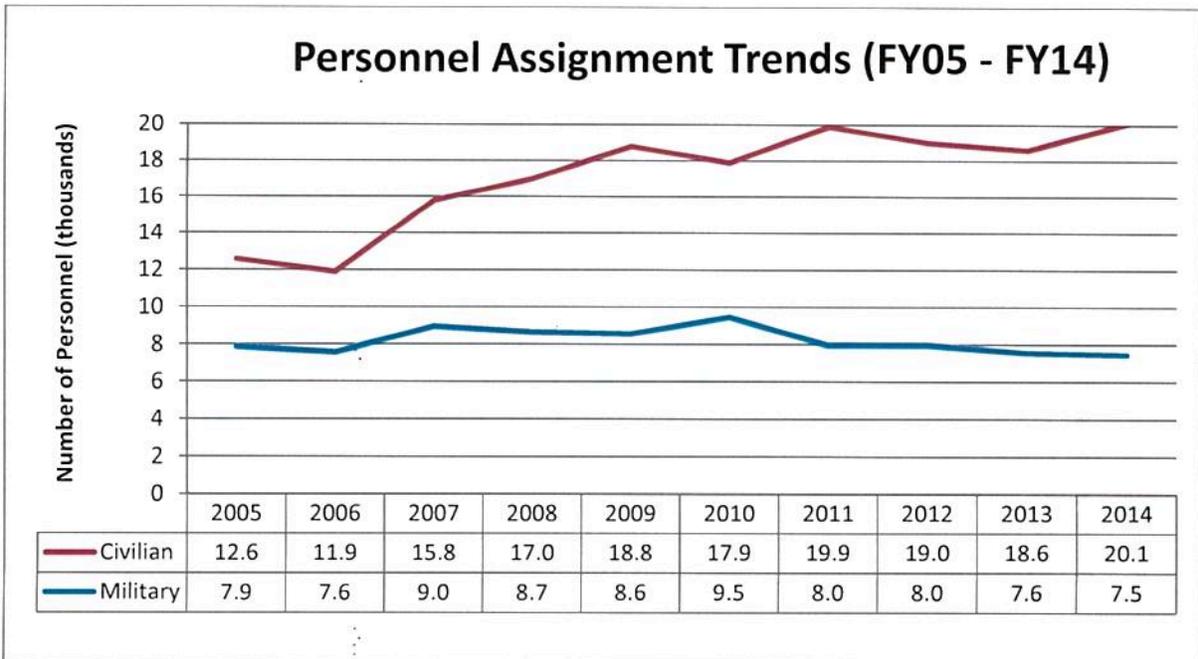
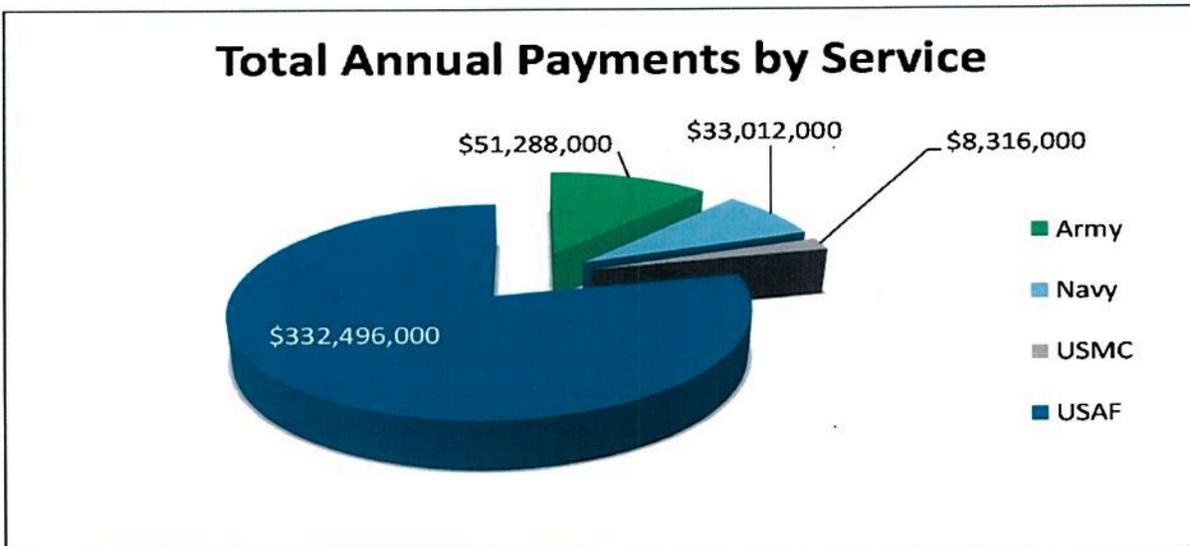


Figure 6: Total Military & Civilian Personnel Assigned

Military Retiree Payments



Service	Army	Navy	USMC	USAF
Number of Recipients	2,399	1,457	374	10,556
Annual Disbursement Amount	\$51,288,000	\$33,012,000	\$8,316,000	\$332,496,000

Figure 7: Total Military Retiree Payment by Branch of Service

Combined Federal Campaign Contributions

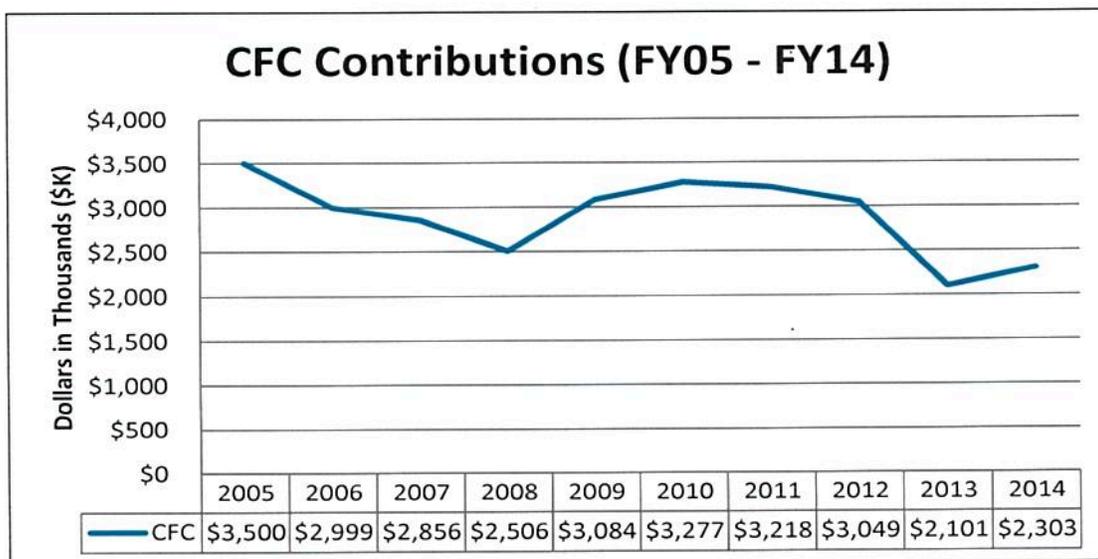


Figure 8: Total CFC Contributions from Wright-Patterson AFB

Summary of Impact Aid Payments

EDUCATION IMPACT AID PROGRAM SUMMARY		
School District	County	Amount
Mad River Local	Montgomery	\$446,010
Fairborn City	Greene	\$117,294
Beavercreek Local	Greene	\$101,393
Bellbrook-Sugarcreek Local	Greene	\$15,322
TOTAL Impact Aid		\$680,019

Figure 9: Summary of Dayton, OH Impact Aid Payments

NMUSAF Visitation Trends

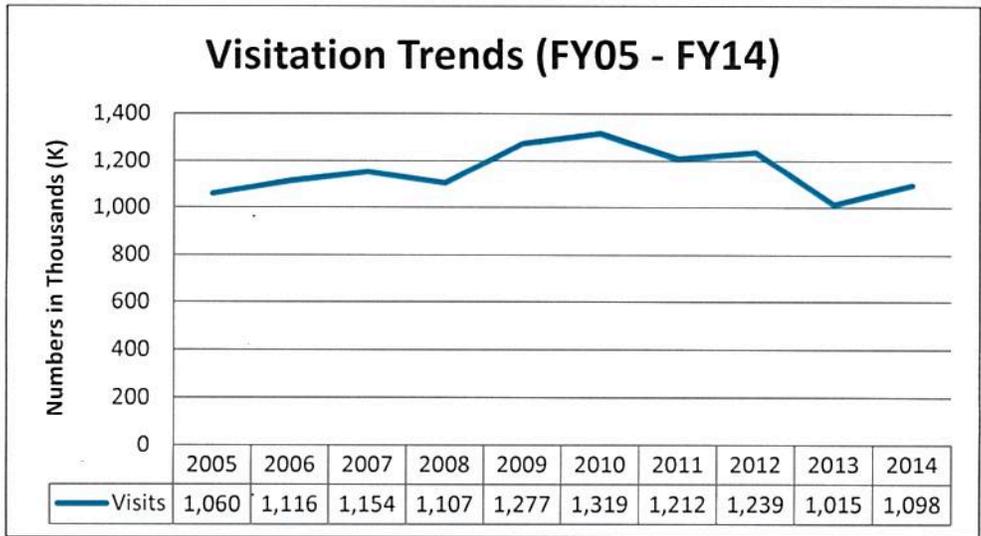


Figure 10: Summary of National Museum of the U.S. Air Force Visitation

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Wright-Patterson

Air Force Base

Ohio 45433

