

North Dakota National Guard

FY19 Economic Impact Analysis



Prepared by NGND-PFO-IR

1. Methodology / Availability of Information
2. Table 1 – Personnel by Classification (By Location)
3. Table 2 – Annual Payroll by Classification (By Location)
4. Table 3 – Expenditures for Construction, Services, and Procurement of Materials, Equipment and Supplies. (By Location)
5. Table 4 – Estimate of number of indirect jobs created. (By Location)
6. Table 4a – Estimate of dollar value of indirect jobs created. (By Location)
7. Table 5 – Total Annual Economic Impact Estimate (By Location)
8. Table 6 – Personnel by Classification (By Component)
9. Table 7 – Annual Payroll by Classification (By Component)
10. Table 8 – Expenditures for Construction, Services, and Procurement of Materials, Equipment and Supplies. (By Component)
11. Table 9 – Estimate of number and dollar value of indirect jobs created. (By Component)
12. Table 10 – Total Annual Economic Impact Estimate (By Component)
13. Table 11 – Total Annual Economic Impact Estimate (By Location)
14. Charts
18. Organizations

Methodology / Availability of Information

The Economic Impact Analysis (EIA) provides unclassified key information about the resources and economic impact of the military on the State of North Dakota.

In fiscal year (FY) 2019 Military organizations employed 13,953 people and created about 3,909 indirect jobs in North Dakota. Annual payroll for military employees is approximately \$719.3M and indirect salaries are approximately \$191.0M. The military also has direct expenses for construction, services, materials, equipment and supplies of \$223.5M. Total military economic impact in North Dakota for Fiscal Year 2019 was estimated at about \$1.13B.

The total economic impact of the military in North Dakota is calculated by totaling annual payroll, annual expenditures and estimated dollar value of indirect jobs created. The economic area for this report is the State of North Dakota. The indirect job multipliers were obtained from LMI Economic Impact database, Installations and Indirect/Induced Multipliers, Feb 95. The average annual pay for North Dakota was obtained from the North Dakota Workforce Intelligence, a statistics web site using State labor information from the 1st quarter of 2019. This program analysis was prepared within the parameters of the Office of the Secretary of Defenses' economic impact analysis model. The funding sources used in this analysis are Appropriated Funds (AFP), Non-Appropriated Funds (NAF) and State Military Funds. Some figures were estimates based on known factors and are identified in the report. The Active Duty information was obtained from the Annual Economic Impact Analysis for the Grand Forks and Minot Air Force bases and information provided by Armed Forces Recruiting Stations.

National Guard is made up of North Dakota Army and Air National Guard units. Active Duty is made up of the Air Force bases at Minot and Grand Forks and the Armed Forces recruiting stations for Air Force, Army, Marines and Navy. The Reserves are made up of the Air Force at Minot; the Army at Bismarck, Fargo and Grand Forks; the Marines at Wahpeton and the Navy at Fargo.

Information contained in this analysis is for the period 01 Oct 18 through 30 Sep 19 (Fiscal year 2019). The report is broken down by location (Tables 1-5) and military component (Tables 6- 11). The information for this analysis was collected and compiled by NGND-PFO-IR.

TABLE 1:
Personnel by classification (By Location)

	<u>National Guard</u>	<u>Active Duty</u>	<u>Reserves *</u>	<u>Total</u>
1. Military Appropriated				
Bismarck/Mandan	967	14	40	1,021
Devils Lake	319			319
Fargo/West Fargo	1,536	17	119	1,672
Grand Forks	322	1,651	44	2,017
Minot	283	5,622	17	5,922
Other	637		66	703
Total	4,064	7,304	286	11,654
2. Appropriated Fund Civilians				
Bismarck/Mandan	224		8	232
Devils Lake	49			49
Fargo/West Fargo	204		4	208
Grand Forks	10	312	1	323
Minot	9	587		596
Other	12			12
Mil techs included in part 1 *	(468)			(468)
Total	40	899	13	952
3. Other Civilians				
Bismarck/Mandan	75			75
Devils Lake	53			53
Fargo/West Fargo	59			59
Grand Forks	4	636		640
Minot	5	512		517
Other	3			3
	199	1,148		1,347
Total Personnel	4,303	9,351	299	13,953
4. Dependents				
Bismarck/Mandan	1,479	18	64	1,561
Devils Lake	502			502
Fargo/West Fargo	2,104	26	163	2,293
Grand Forks	282	1,830	60	2,172
Minot	393	5,308	23	5,724
Other	656		88	744
Total Dependents	5,416	7,182	398	12,996
Total Personnel and Dependents	9,719	16,533	697	26,949

*Some military members are Federal technicians and are included in part 1. The total is reduced by that number so they are not counted twice.

** The number of Reserve dependents was estimated using the National Guard Military Member to dependent ratio.

**TABLE 2:
Annual Payroll by Classification (By Location)**

	<u>National Guard</u>	<u>Active Duty</u>	<u>*Reserves</u>	<u>Total</u>
1. Military Appropriated				
Bismarck	\$ 34,394,489	\$ 965,655	\$ 475,260	\$ 35,835,404
Devils Lake	10,806,192			10,806,192
Fargo	49,136,731	995,168	1,545,542	51,677,441
Grand Forks	4,477,513	95,595,225	302,154	100,374,892
Minot	9,647,628	323,746,190	979,124	334,372,942
Other	9,182,750		857,189	10,039,939
	\$ 117,645,303	\$ 421,302,238	\$ 4,159,269	\$ 543,106,810
2. Appropriated Funds Civilians				
Bismarck/Mandan	\$ 25,291,084		\$ 535,332	\$ 25,826,416
Devils Lake	3,933,124			3,933,124
Fargo/West Fargo	18,748,002		124,444	18,872,446
Grand Forks	985,865	35,493,146	57,345	36,536,356
Minot	1,081,214	53,914,002		54,995,216
Other	1,026,915			1,026,915
	\$ 51,066,204	\$ 89,407,148	\$ 717,121	\$ 141,190,473
3. **Other Civilian				
Bismarck/Mandan	\$ 6,334,972			\$ 6,334,972
Devils Lake	3,928,897			3,928,897
Fargo/West Fargo	3,854,428			3,854,428
Grand Forks	338,479	5,975,010		6,313,489
Minot	418,558	13,810,481		14,229,039
Other	294,026			294,026
	\$ 15,169,360	\$ 19,785,491		\$ 34,954,851
4. Total Annual Payroll				
Bismarck/Mandan	\$ 66,020,545	\$ 965,655	\$ 1,010,592	\$ 67,996,792
Devils Lake	18,668,213			18,668,213
Fargo/West Fargo	71,739,161	995,168	1,669,986	74,404,315
Grand Forks	5,801,857	137,063,381	359,499	143,224,737
Minot	11,147,400	391,470,673	979,124	403,597,197
Other	10,503,691	-	857,189	11,360,880
	\$ 183,880,867	\$ 530,494,877	\$ 4,876,390	\$ 719,252,134

* The Reserves payroll was estimated based on known members because actual payroll amounts were not available

** The National Guard contract employees payroll was estimated because actual payroll amounts were not available.

**TABLE 3:
Expenditures for Construction, services, and procurement of materials,
equipment and supplies**

	<u>National Guard</u>	<u>Active Duty</u>	<u>Reserves*</u>	<u>Total</u>
1. CONSTRUCTION				
Bismarck/Mandan				
Devils Lake				
Fargo/West Fargo	27,519,513			27,519,513
Grand Forks		20,089,208		20,089,208
Minot		7,713,640		7,713,640
Other				-
	\$ 27,519,513	\$ 27,802,848		\$ 55,322,361

2. SERVICES, MATERIALS EQUIPMENT AND SUPPLIES PROCUREMENT				
Bismarck/Mandan	\$ 11,966,292		\$ 65,939	\$ 12,032,231
Devils Lake	8,006,997			8,006,997
Fargo/West Fargo	14,103,356		154,013	14,257,369
Grand Forks	1,248,185	70,918,908	78,467	72,245,560
Minot	6,561,615	53,379,341		59,940,956
Other	1,401,213		257,693	1,658,906
	\$ 43,287,658	\$ 124,298,249	\$ 556,112	\$ 168,142,019

3. TOTAL ANNUAL EXPENDITURES				
Bismarck/Mandan	\$ 11,966,292		\$ 65,939	\$ 12,032,231
Devils Lake	8,006,997			8,006,997
Fargo/West Fargo	41,622,869		154,013	41,776,882
Grand Forks	1,248,185	91,008,116	78,467	92,334,768
Minot	6,561,615	61,092,981		67,654,596
Other	1,401,213		257,693	1,658,906
	\$ 70,807,171	\$ 152,101,097	\$ 556,112	\$ 223,464,380

*Army Reserve Expenditures were estimated because actual figures were not available.

**TABLE 4:
Indirect Jobs created (By Location)**

	National Guard	Active Duty	Reserves	Total	Multiplier	Indirect jobs created
Bismarck/Mandan						
Active/AGR	178	14	3	195	0.29	57
Reserves	596		37	633	0.13	82
Appropriated Civilian	224		8	232	0.43	100
NAF Civilian				0	0.43	
BX/PX, State and Contract	75			75	0.43	32
	1,073	14	48	1,135		271
Devils Lake						
Active/AGR	69			69	0.29	20
Reserves	202			202	0.13	26
Appropriated Civilian	49			49	0.43	21
NAF Civilian				0	0.43	
BX/PX, State and Contract	53			53	0.43	23
	373			373		90
Fargo/West Fargo						
Active/AGR	201	17	13	231	0.29	67
Reserves	1,139		117	1,256	0.13	163
Appropriated Civilian	204		3	207	0.43	89
NAF Civilian					0.43	
BX/PX, State and Contract	59			59	0.43	25
	1,603	17	133	1,753		345
Grand Forks						
Active/AGR	18	1,651		1,669	0.29	484
Reserves	294		44	338	0.13	44
Appropriated Civilian	10	373	1	384	0.43	165
NAF Civilian	4	575		579	0.43	249
BX/PX, State and Contract					0.43	-
	326	2,599	45	2,970		942
Minot						
Active/AGR	77	5,622		5,699	0.29	1,653
Reserves	197		17	214	0.13	28
Appropriated Civilian	9	587		596	0.43	256
NAF Civilian	5	512		517	0.43	222
BX/PX, State and Contract					0.43	
	288	6,721	17	7,026		2,159
Other						
Active/AGR	28		6	34	0.29	10
Reserves	597		60	657	0.13	85
Appropriated Civilian	12			12	0.43	5
NAF Civilian					0.43	
BX/PX, State and Contract	3			3	0.43	1
	640		66	706		102
Totals	4,303	9,351	309	13,963		3,909

TABLE 4a:

Estimated annual dollar value of jobs created by location

	<u>Indirect Jobs</u>	<u>Average Wage</u>	<u>Indirect wages</u>
Bismarck/Mandan	271	\$ 52,364	\$ 14,182,789
Devils Lake	90	40,456	3,646,299
Fargo/West Fargo	345	51,220	17,652,973
Grand Forks	942	44,460	41,883,098
Minot	2,159	50,128	108,232,367
Other	102	53,092	5,400,518
	<u>3,909</u>		<u>\$ 190,998,046</u>

The average annual salary was taken from www.ndworkforceintelligence.com for the 1st quarter of 2019.

TABLE 5

Total Annual Economic Impact by Location

Annual Payroll

	<u>National Guard</u>	<u>Active Duty</u>	<u>Reserves</u>	<u>Total</u>
Bismarck/Mandan	\$ 66,020,545	\$ 965,655	\$ 1,010,592	\$ 67,996,792
Devils Lake	18,668,213			18,668,213
Fargo/West Fargo	71,739,161	995,168	1,669,986	74,404,315
Grand Forks	5,801,857	137,063,381	359,499	143,224,737
Minot	11,147,400	391,470,673	979,124	403,597,197
Other	10,503,691		857,189	11,360,880
	\$ 183,880,867	\$ 530,494,877	\$ 4,876,390	\$ 719,252,134

Annual Expenditures

Bismarck/Mandan	\$ 11,966,292		\$ 65,939	\$ 12,032,231
Devils Lake	8,006,997			8,006,997
Fargo/West Fargo	41,622,869		154,013	41,776,882
Grand Forks	1,248,185	91,008,116	78,467	92,334,768
Minot	6,561,615	61,092,981		67,654,596
Other	1,401,213		257,693	1,658,906
	\$ 70,807,171	\$ 152,101,097	\$ 556,112	\$ 223,464,380

Annual Indirect Wages

Bismarck/Mandan	\$ 13,492,632	\$ 212,598	\$ 477,560	\$ 14,182,789
Devils Lake	3,646,299			3,646,299
Fargo/West Fargo	16,362,229	252,515	1,038,229	17,652,973
Grand Forks	2,198,992	39,410,678	273,429	41,883,098
Minot	2,704,907	105,416,678	110,783	108,232,367
Other	4,894,021		506,498	5,400,518
	\$ 43,299,079	\$ 145,292,468	\$ 2,406,499	\$ 190,998,046

Total Economic Impact

Bismarck/Mandan	\$ 91,479,469	\$ 1,178,253	\$ 1,554,091	\$ 94,211,812
Devils Lake	30,321,509			30,321,509
Fargo/West Fargo	129,724,259	1,247,683	2,862,228	133,834,170
Grand Forks	9,249,034	267,482,175	711,395	277,442,603
Minot	20,413,922	557,980,332	1,089,907	579,484,160
Other	16,798,925		1,621,380	18,420,304
	\$ 297,987,117	\$ 827,888,442	\$ 7,839,001	\$ 1,133,714,560

**TABLE 6:
Personnel by classification (By Component)**

1. Military Appropriated

	<u>National Guard</u>	<u>Active Duty</u>	<u>Reserves</u>	<u>Total</u>
Air Force	1,130	7,273	17	8,420
Army	2,934	18	138	3,090
Marines		4	66	70
Navy		9	65	74
Total	4,064	7,304	286	11,654

2. Appropriated Fund Civilians

General Scale	508	899	13	1,420
Excepted technicians included in Part One	(468)			(468)
Total	40	899	13	952

3. Other Civilians

State Employees	147			147
NAF Civilians		397		397
Civilian BX/PX/DECA	5	201		206
Contract	47	418		465
Private		132		132
Total	199	1,148		1,347
Total Personnel	4,303	9,351	299	13,953

4. Dependents

Air Force	1,739	7,139	23	8,901
Army	3,677	25	200	3,902
Marines		6	88	94
Navy		13	87	100
Total Dependents	5,416	7,183	398	12,997
Total Personnel and dependents	9,719	16,534	697	26,950

*Some National Guard Civilians are also military members and are included in with the Military Appropriated Civilians and therefore not added into the total personnel.

**TABLE 7:
Annual Payroll by Classification (By Component)**

	<u>National Guard</u>	<u>Active Duty</u>	<u>*Reserves</u>	<u>Total</u>
1. Military Appropriated				
Air Force	\$ 42,508,181	\$ 419,414,722	\$ 979,124	\$ 462,902,027
Army	75,137,122	1,054,078	1,178,100	77,369,300
Marines		564,707	857,189	1,421,896
Navy		268,730	1,144,857	1,413,587
Total	<u>\$ 117,645,303</u>	<u>\$ 421,302,237</u>	<u>\$ 4,159,270</u>	<u>\$ 543,106,810</u>
2. Appropriated Funds Civilians				
Civilian Employees	\$ 51,066,204	\$81,647,148	\$ 717,121	\$ 133,430,473
Total	<u>\$ 51,066,204</u>	<u>\$ 81,647,148</u>	<u>\$ 717,121</u>	<u>\$ 133,430,473</u>
3. Other Civilian				
State Employees	\$ 12,373,360			\$ 12,373,360
Civilian NAF		13,142,330		13,142,330
**BX/PX Contract	2,796,000	6,643,161		9,439,161
Homeland Security		7,760,000		7,760,000
	<u>\$ 15,169,360</u>	<u>\$ 27,545,491</u>		<u>\$ 42,714,851</u>
Total Annual Payroll	<u>\$ 183,880,867</u>	<u>\$ 530,494,876</u>	<u>\$ 4,876,391</u>	<u>\$ 719,252,134</u>

* The Reserves payroll was estimated based on known members because actual payroll amounts were not available

** The National Guard contract employees payroll was estimated because actual payroll amounts were not available.

TABLE 8
Expenditures for Construction, Services and Materials (By Component)

	<u>National Guard</u>	<u>Active Duty</u>	<u>*Reserves</u>	<u>Total</u>
Construction				
Military Construction	\$ 27,519,513	\$		\$ 27,519,513
Military Family Housing				
Operations and Maintenance		27,802,848		27,802,848
Total	\$ 27,519,513	\$ 27,802,848	\$	\$ 55,322,361
Services, Materials, Equipment and Supplies procurement				
	43,287,658	124,298,249	556,112	168,142,019
	\$ 43,287,658	\$ 124,298,249	\$ 556,112	\$ 168,142,019
Total Expenditures	\$ 70,807,171	\$ 152,101,097	\$ 556,112	\$ 223,464,380

*Army Reserve Expenditures were estimated because actual figures were not available.

TABLE 9**Estimate of number and dollar value of indirect jobs created (by component)**

	<u>National</u> <u>Guard</u>	<u>Active</u> <u>Duty</u>	<u>Reserves</u>	<u>Total</u>	<u>Multiplier</u>	<u>Indirect</u> <u>Jobs</u> <u>Created</u>
Active Duty Military	571	7,304	22	7,897	0.29	2,290
Traditional	3,025	-	275	3,300	0.13	429
AFP Civilian	496	2,047	12	2,555	0.43	1,099
Other Civilian	211			211	0.43	91
Total	4,303	9,351	309	13,963		3,909

Estimated number of indirect jobs created

Active Duty	2,998
National Guard	863
Reserves	47
Total jobs created	3,909

Active Duty	\$ 145,292,468
National Guard	43,299,079
Reserves	2,406,499
Estimated total	<u><u>\$ 190,998,046</u></u>

Multiplier: LMI Economic database, Installations and Indirect/Induced Job Multipliers, Feb 95.

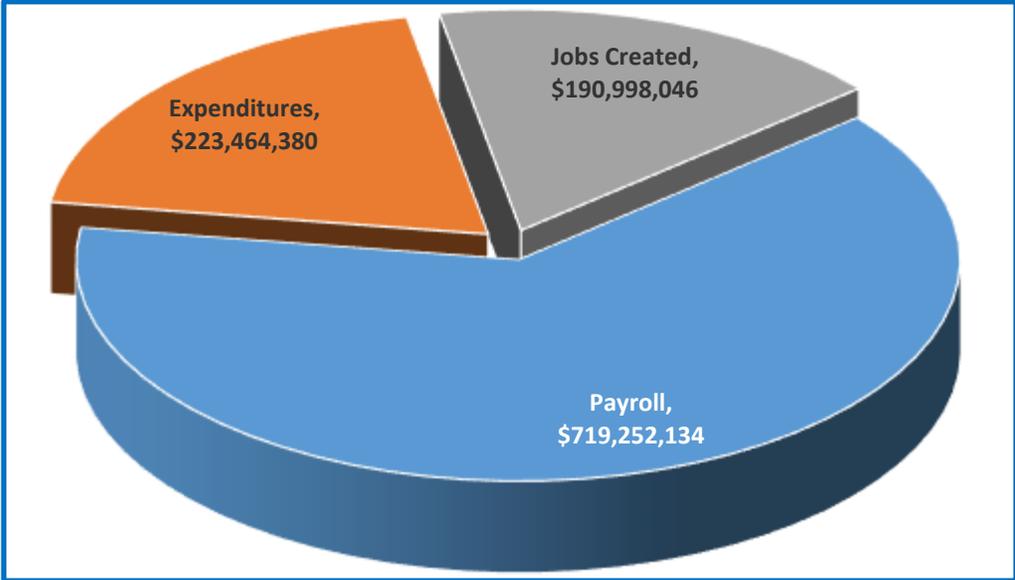
TABLE 10
Total Annual Economic Impact Estimate (By Component)

	<u>National Guard</u>	<u>Active Duty</u>	<u>Reserves</u>	<u>Total</u>
Annual Payroll				
Military	\$ 117,645,303	\$ 421,302,238	\$ 4,159,270	\$ 543,106,811
Fed Civilian	51,066,204	89,407,148	717,121	141,190,473
Other Civilian	15,169,360	19,785,491		34,954,851
Total Payroll	\$ 183,880,867	\$ 530,494,877	\$ 4,876,391	\$ 719,252,135
	-	-	-	-
Annual Expenditures				
	\$ 70,807,171	\$ 152,101,097	\$ 556,112	\$ 223,464,380
Estimated Annual Dollar Value of Jobs Created				
	\$ 43,299,079	\$ 145,292,468	\$ 2,406,499	\$ 190,998,046
Total	\$ 297,987,117	\$ 827,888,442	\$ 7,839,002	\$ 1,133,714,561

TABLE 11:
Total Annual Economic Impact Estimate (By Location)

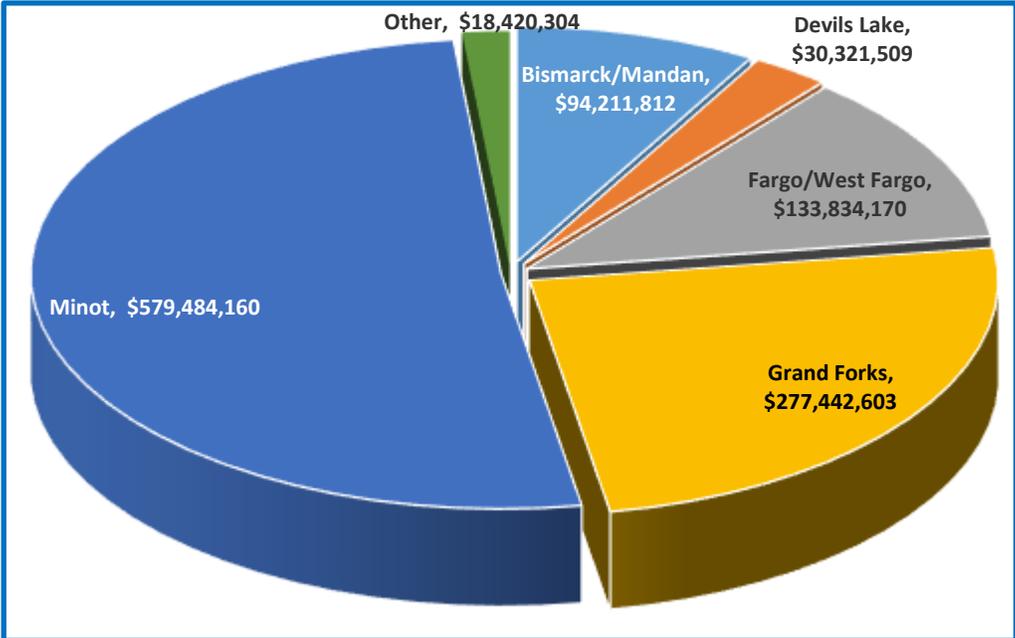
	<u>National Guard</u>	<u>Active Duty</u>	<u>Reserves</u>	<u>Total</u>
Bismarck/Mandan	\$ 91,479,469	\$ 1,178,253	\$ 1,554,091	\$ 94,211,813
Devils Lake	30,321,509			30,321,509
Dickinson	1,583,067			1,583,067
Edgeley	1,209,174			1,209,174
Fargo/West Fargo	129,724,259	1,247,683	2,862,228	133,834,170
Grand Forks	9,832,862	267,482,175	711,395	278,026,432
Jamestown	2,892,663			2,892,663
Lisbon	792,846			792,846
Minot	20,413,922	557,980,332	1,089,907	579,484,160
Valley City	4,854,249			4,854,249
Wahpeton	3,397,180		1,621,380	5,018,560
Williston	778,003			778,003
Wishek	707,914			707,914
Total	\$ 297,987,117	\$ 827,888,442	\$ 7,839,001	\$ 1,133,714,559

FY19 Economic Impact by Type



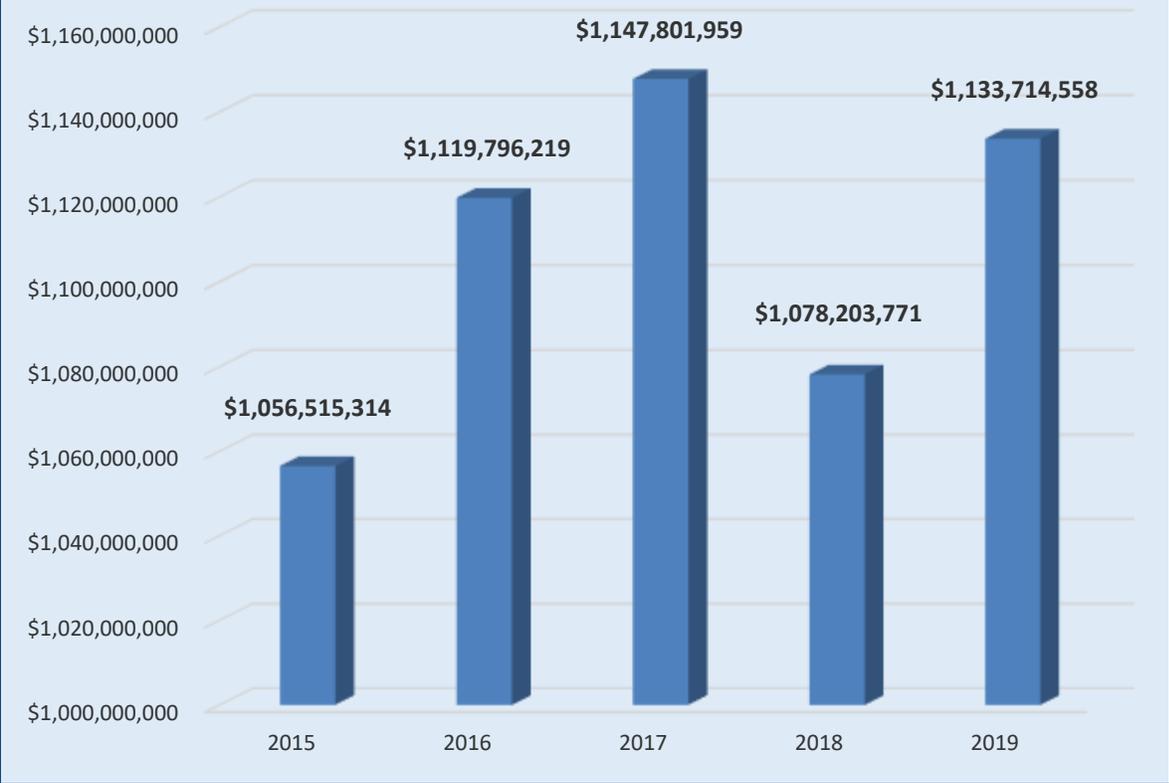
Total Economic Impact \$1,133,714,560

FY19 Economic Impact by Location

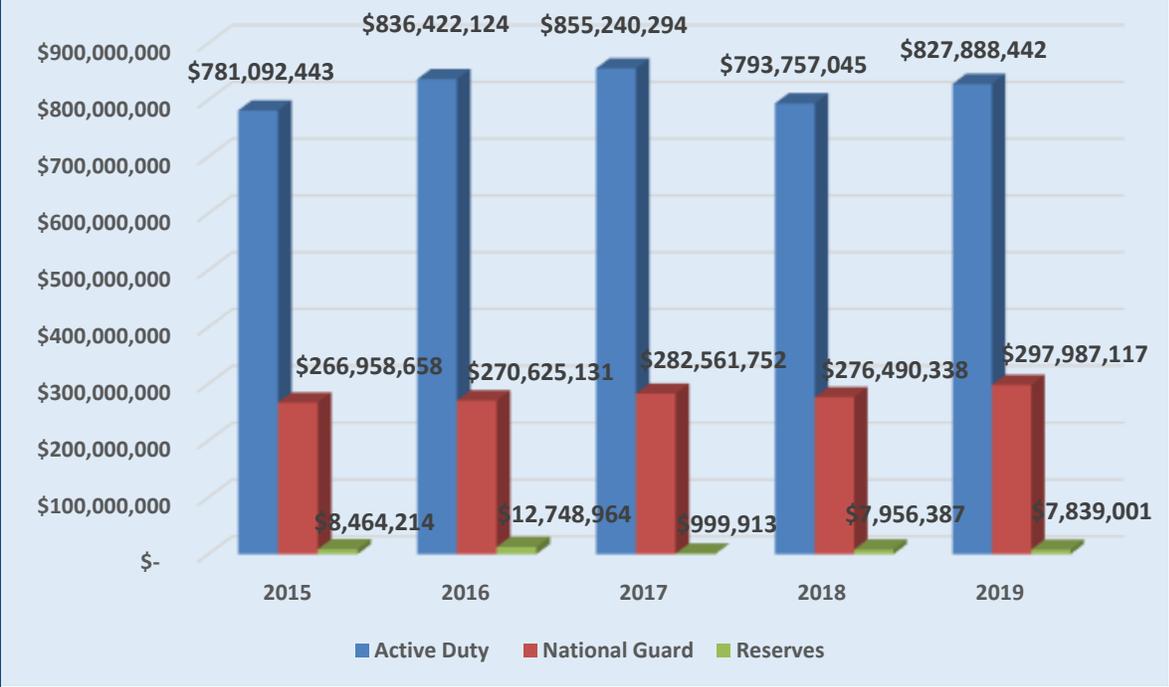


Total Economic Impact \$1,133,714,560

Annual ND Military Economic Impact

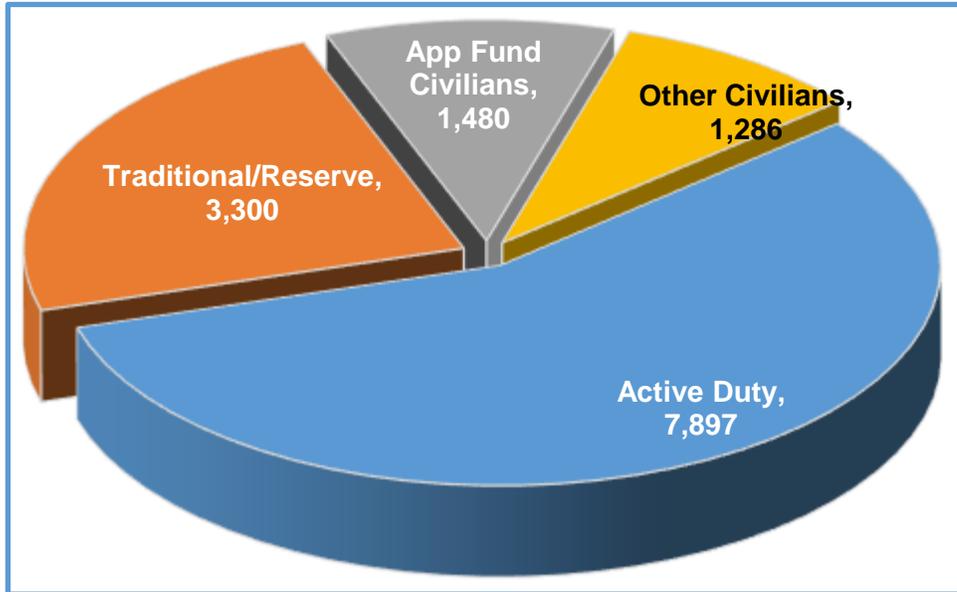


Annual Economic Impact by Component



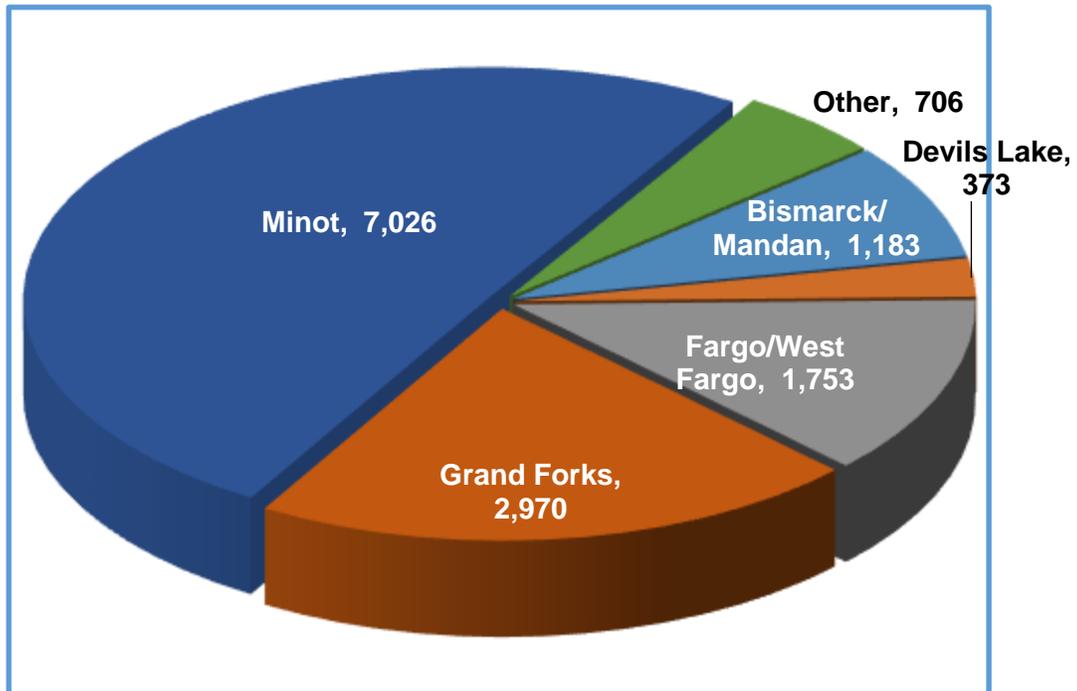
Total Economic Impact for five years \$5,536,031,821

FY 19 ND Military Direct Jobs by Type



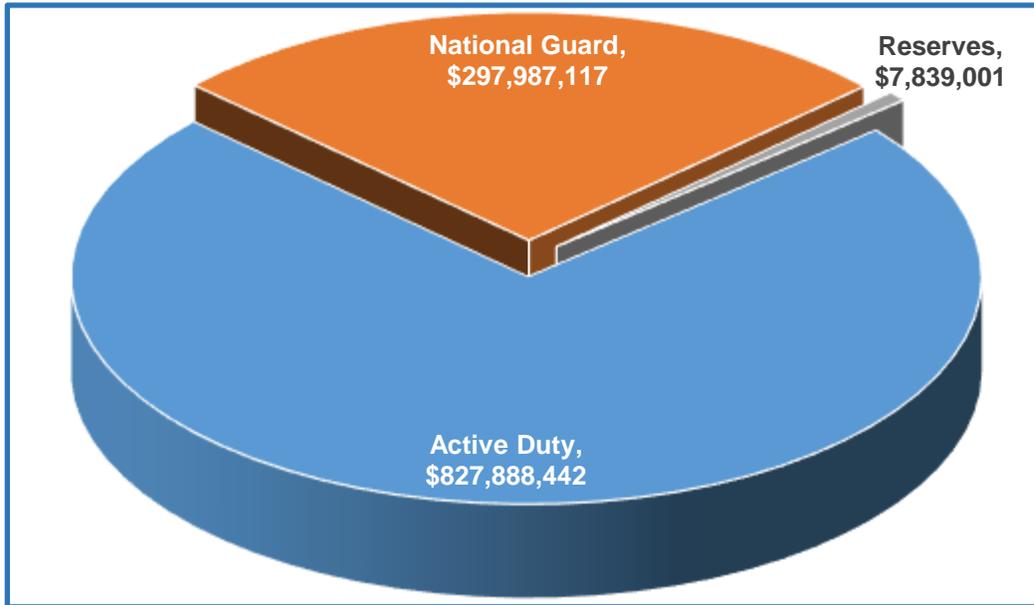
Total Direct Jobs 13,963

FY19 ND Direct Military Jobs by Location



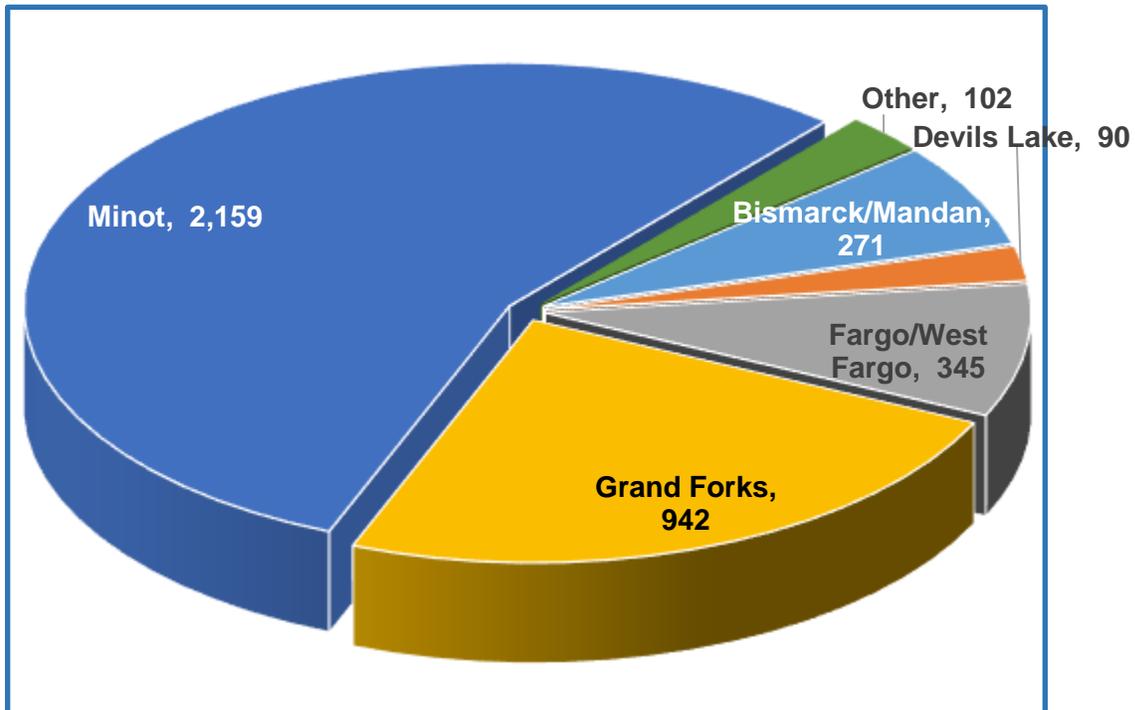
Total Direct Jobs 13,963

FY19 Military Economic Impact by Component



Total Economic Impact \$1,133,714,558

FY19 Indirect Jobs Created by Location



Total Indirect Jobs 3,909