

North Dakota National Guard

FY21 Economic Impact Analysis



Methodology / Availability of Information

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

In fiscal year (FY) 2021, the National Guard employed 4,490 people and created about 880 indirect jobs in North Dakota. Annual payroll for National Guard employees is approximately \$205.1M and indirect salaries are approximately \$47.6M. The National Guard also has direct expenses for construction, services, materials, equipment and supplies of about \$62.3. We estimated the total National Guard economic impact in North Dakota for Fiscal Year 2021 at about \$315.0M.

We calculated the total National Guard economic impact in North Dakota 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. We obtained the indirect job multipliers from LMI Economic Impact database, Installations and Indirect/Induced Multipliers, Feb 95. We obtained the average annual pay for North Dakota from the North Dakota Labor Market Information, a statistics web site using State labor information from the 2nd quarter of 2021.

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 General and Special Funds. We identify some figures as estimates in the report based on known factors.

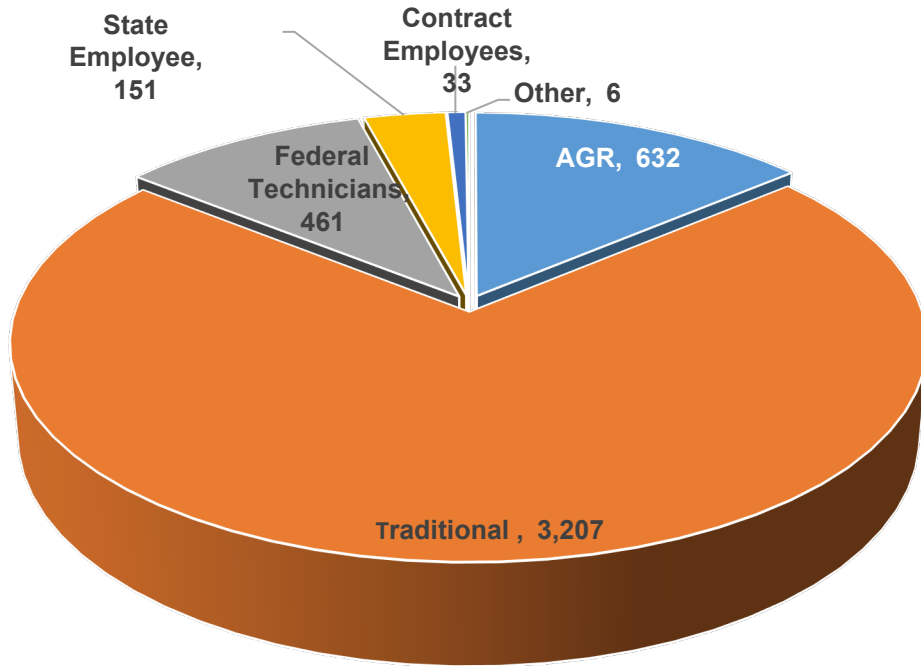
North Dakota Army (NDARNG) and Air National Guard (NDANG) units make up the North Dakota National Guard. Information contained in this analysis is for the period 01 Oct 20 through 30 Sep 21 (Fiscal year 21). NGND-PFO-IR collected and compiled the information for this analysis.

TABLE 1:
Personnel by classification (By Location)

	<u>NDANG</u>	<u>NDARNG</u>	<u>Total</u>
1. Military Appropriated			
(AGRs, Mday and excepted technicians)			
Bismarck/Mandan	25	965	990
Devils Lake		352	352
Fargo/West Fargo	1,056	551	1,607
Grand Forks		348	348
Minot	98	204	302
Other		631	631
Total	1,179	3,051	4,230
2. Federal Technicians			
Bismarck/Mandan	6	210	216
Devils Lake		51	51
Fargo/West Fargo	129	34	163
Grand Forks		11	11
Minot		10	10
Other		10	10
Military technicians included in part 1 *	(119)	(272)	(391)
Total	16	54	70
3. Other			
(State, Contract and Other)			
Bismarck /Mandan		72	72
Devils Lake		52	52
Fargo/West Fargo	44	12	56
Grand Forks		3	3
Minot		4	4
Other		3	3
Total	44	146	190
Total Personnel	1,239	3,251	4,490
4. Dependents			
Bismarck/Mandan	52	1490	1,542
Devils Lake		556	556
Fargo/West Fargo	1289	703	1,992
Grand Forks		325	325
Minot	152	225	377
Other		615	615
Total	1,493	3,914	5,407
Total Personnel and Dependents	2,732	7,165	9,897

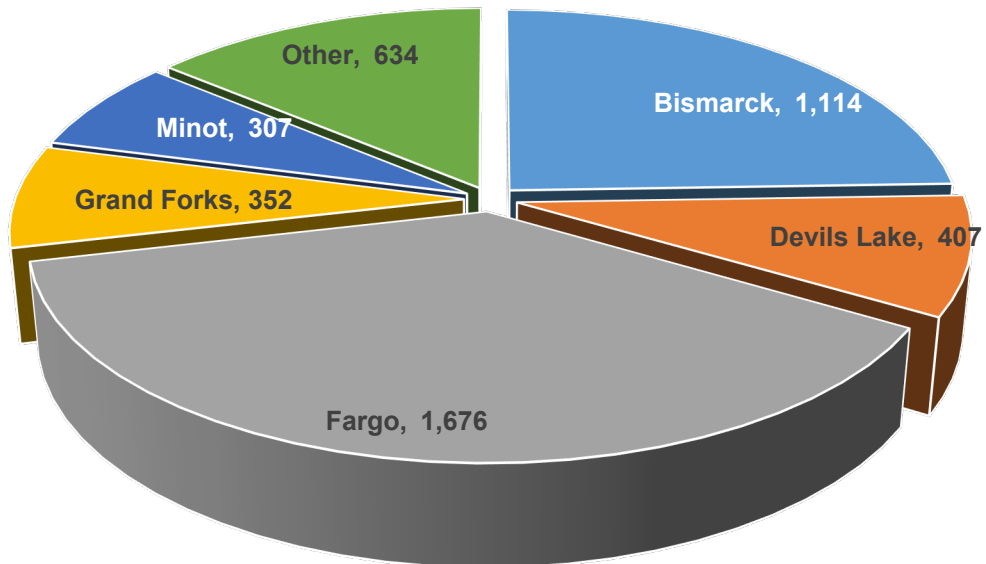
*Some military members are Federal technicians and are included in part 1. The total is reduced by that number so they are not counted twice.

FY21 NGND Personnel by classification



Total NGND Personnel 4,490

FY21 NGND Personnel by Location

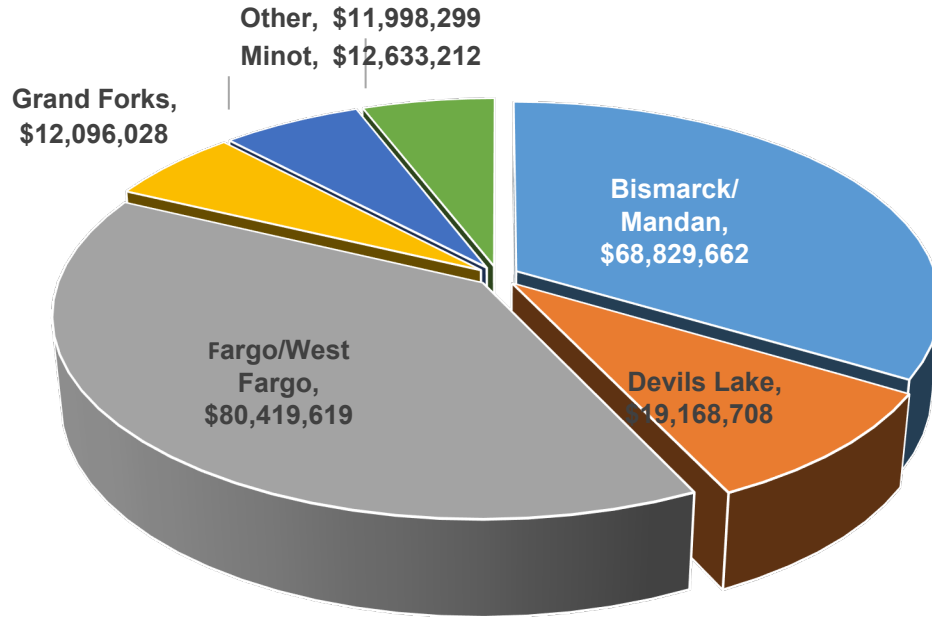


Total NGND Personnel 4,490

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

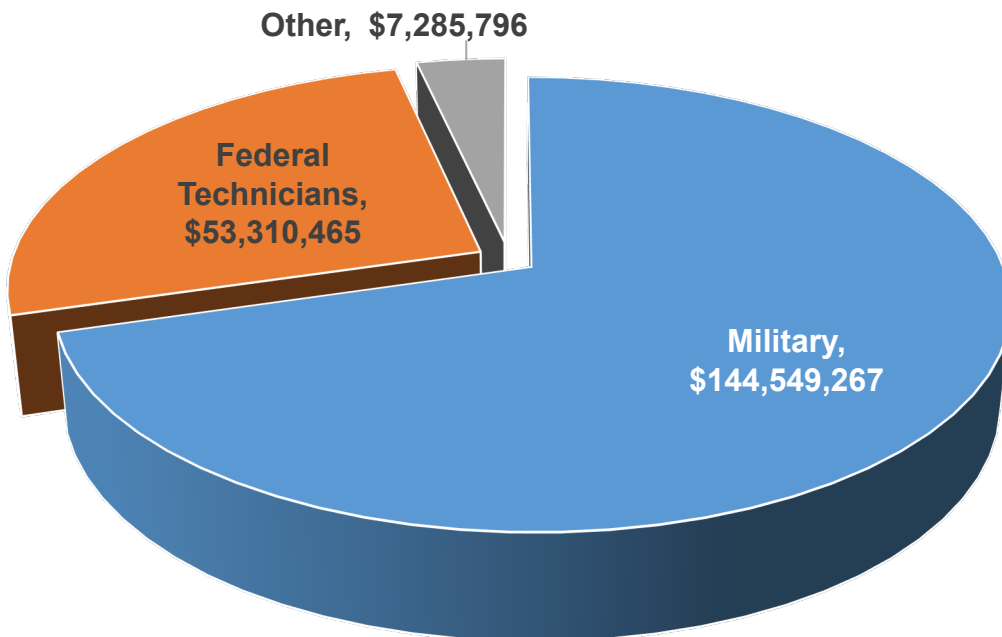
	<u>NDANG</u>	<u>NDARNG</u>	<u>Total</u>
1. Military Appropriated			
Bismarck/Mandan	\$1,347,844	\$35,998,781	\$37,346,625
Devils Lake		11,522,172	11,522,172
Fargo/West Fargo	50,533,854	12,387,944	62,921,798
Grand Forks		10,884,800	10,884,800
Minot	6,880,889	4,236,588	11,117,477
Other		10,756,395	10,756,395
Total	\$ 58,762,587	\$ 85,786,680	\$ 144,549,267
2. Federal Technicians			
Bismarck/Mandan	\$656,689	\$27,202,682	\$27,859,371
Devils Lake		6,809,930	6,809,930
Fargo/West Fargo	14,118,811	1,331,841	15,450,652
Grand Forks		998,397	998,397
Minot		1,213,116	1,213,116
Other		978,999	978,999
Total	\$ 14,775,500	\$38,534,965	\$53,310,465
3. Other			
Bismarck/Mandan		\$3,623,666	\$3,623,666
Devils Lake		836,606	836,606
Fargo/West Fargo	1,445,815	601,354	2,047,169
Grand Forks		212,831	212,831
Minot		302,619	302,619
Other		262,905	262,905
Total	\$1,445,815	\$5,839,981	\$7,285,796
4. Total Annual Payroll			
Bismarck/Mandan	\$2,004,533	\$66,825,129	\$68,829,662
Devils Lake		19,168,708	19,168,708
Fargo/West Fargo	66,098,480	14,321,139	80,419,619
Grand Forks		12,096,028	12,096,028
Minot	6,880,889	5,752,323	12,633,212
Other		11,998,299	11,998,299
Total	\$74,983,902	\$130,161,626	\$205,145,528

FY21 NGND Payroll by Location



Total FY21 NGND Payroll \$205,145,528

FY21 NGND Payroll by Classification

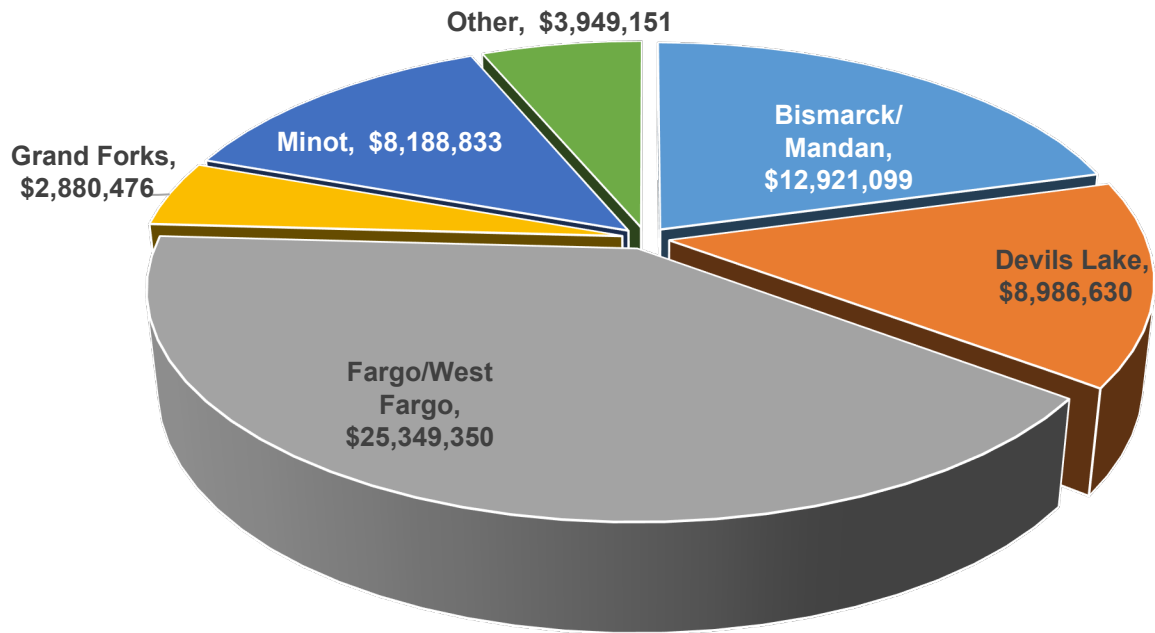


Total FY21 NGND Payroll \$205,145,528

**TABLE 3:
Expenditures for Construction, Services, and Procurement of
Materials, Equipment and Supplies**

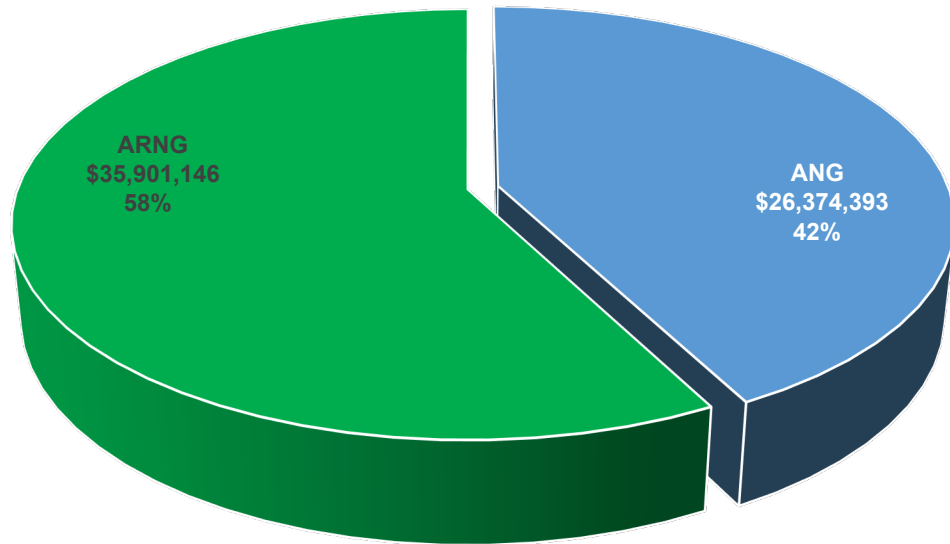
	<u>NDANG</u>	<u>NDARNG</u>	<u>Total</u>
1. CONSTRUCTION			
Bismarck/Mandan			
Devils Lake			
Fargo/West Fargo		135,829	135,829
Grand Forks			
Minot			
Other		105,253	
Total		\$241,082	\$135,829
2. SERVICES, MATERIALS, EQUIPMENT, AND SUPPLIES PROCUREMENT			
Bismarck/Mandan	\$57,787	\$12,863,312	\$12,921,099
Devils Lake		8,986,630	8,986,630
Fargo/West Fargo	19,209,838	6,003,683	25,213,521
Grand Forks		2,880,476	2,880,476
Minot	7,106,768	1,082,065	8,188,833
Other		3,843,898	3,843,898
Total	\$26,374,393	\$35,660,064	\$62,034,457
3. TOTAL ANNUAL EXPENDITURES			
Bismarck/Mandan	\$57,787	\$12,863,312	\$12,921,099
Devils Lake		8,986,630	8,986,630
Fargo/West Fargo	19,209,838	6,139,512	25,349,350
Grand Forks		2,880,476	2,880,476
Minot	7,106,768	1,082,065	8,188,833
Other		3,949,151	3,949,151
Total	\$26,374,393	\$35,901,146	\$62,275,539

FY21 NGND Expenditures by Location



Total FY21 NGND Expenditures \$62,275,539

FY 21 NGND Expenditures by Component



Total FY21 NGND Expenditures \$62,275,539

TABLE 4:
Indirect Jobs create (By Location)

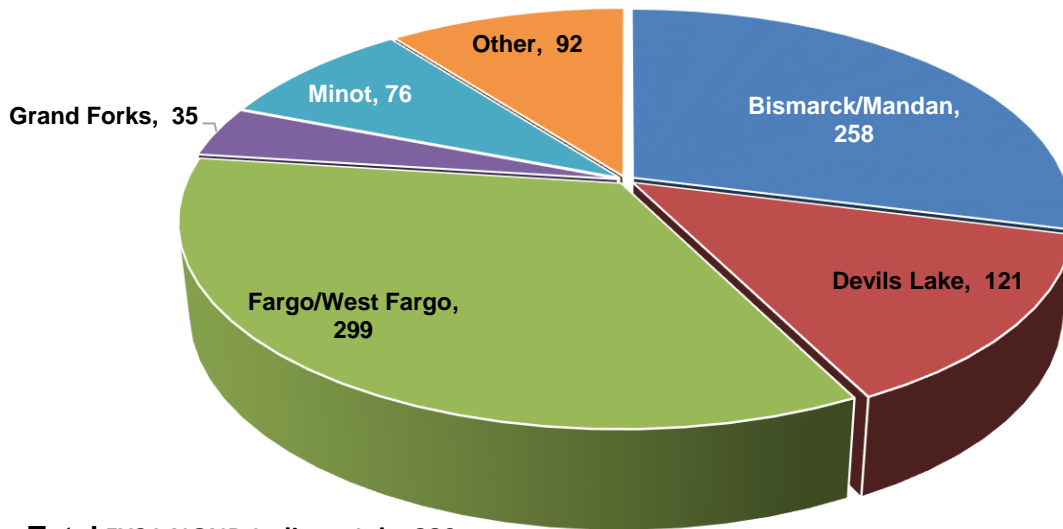
	<u>NDANG</u>	<u>NDARNG</u>	<u>Total</u>	<u>Multiplier</u>	<u>Indirect Jobs created</u>
Bismarck					
AGR	6	162	168	0.29	49
Federal Technicians	6	210	216	0.43	93
BX/PX , State and Contract		72	72	0.43	31
Reserve	17	641	658	0.13	86
Total	29	1,085	1,114		258
Devils Lake					
AGR		69	69	0.29	20
Federal Technicians		51	51	0.43	22
BX/PX , State and Contract		52	52	0.43	22
Reserve		434	434	0.13	56
		606	606		121
Fargo					
AGR	223	39	262	0.29	76
Federal Technicians	129	34	163	0.43	70
BX/PX , State and Contract	44	12	56	0.43	24
Reserve	716	276	992	0.13	129
Total	1,112	361	1,473		299
Grand Forks					
AGR		21	21	0.29	6
Federal Technicians		11	11	0.43	5
BX/PX , State and Contract		3	3	0.43	1
Reserve		173	173	0.13	22
Total		208	208		35
Minot					
AGR	57	22	79	0.29	23
Federal Technicians		10	10	0.43	4
BX/PX , State and Contract		4	4	0.43	2
Reserve	41	321	362	0.13	47
Total	98	357	455		76
Other					
AGR		33	33	0.29	10
Federal Technicians		10	10	0.43	4
BX/PX , State and Contract		3	3	0.43	1
Reserve		588	588	0.13	76
Total		634	634		92
Grand Total	1,239	3,251	4,490		880

TABLE 4a:

Estimated annual dollar value of jobs created (by location)

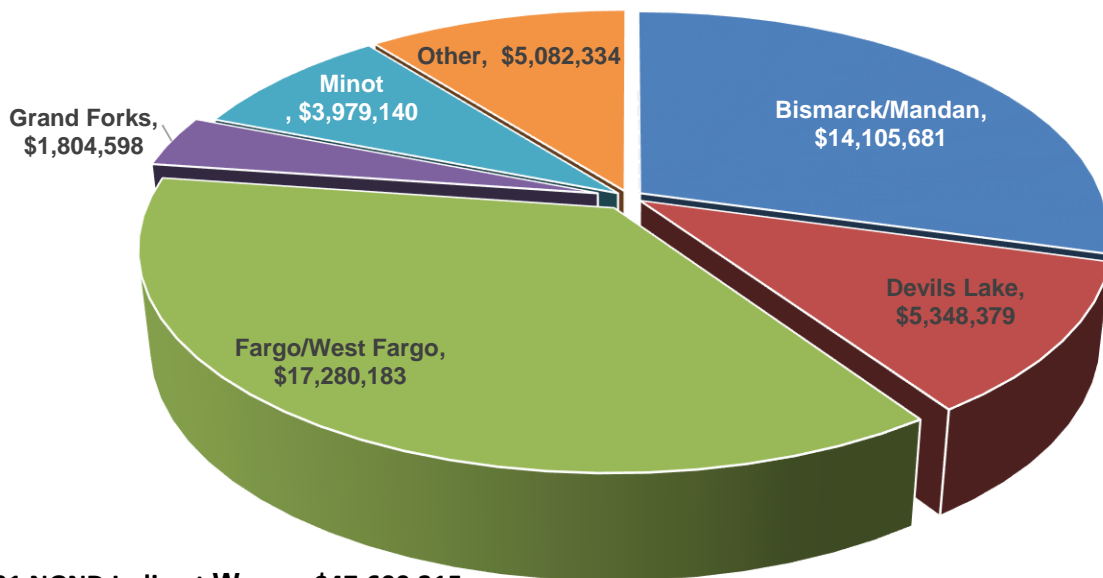
	<u>Indirect Jobs</u>	<u>Average Wage</u>	<u>Indirect Wages</u>
Bismarck/Mandan	258	\$54,652	\$14,105,681
Devils Lake	121	\$44,304	5,348,379
Fargo/West Fargo	299	\$57,772	17,280,183
Grand Forks	35	\$52,156	1,804,598
Minot	76	\$52,364	3,979,140
Other	92	\$55,484	5,082,334
Total	880		\$47,600,316

FY21 NGND Indirect Jobs by Location



Total FY21 NGND Indirect Jobs 880

FY21 NGND Indirect wages by location

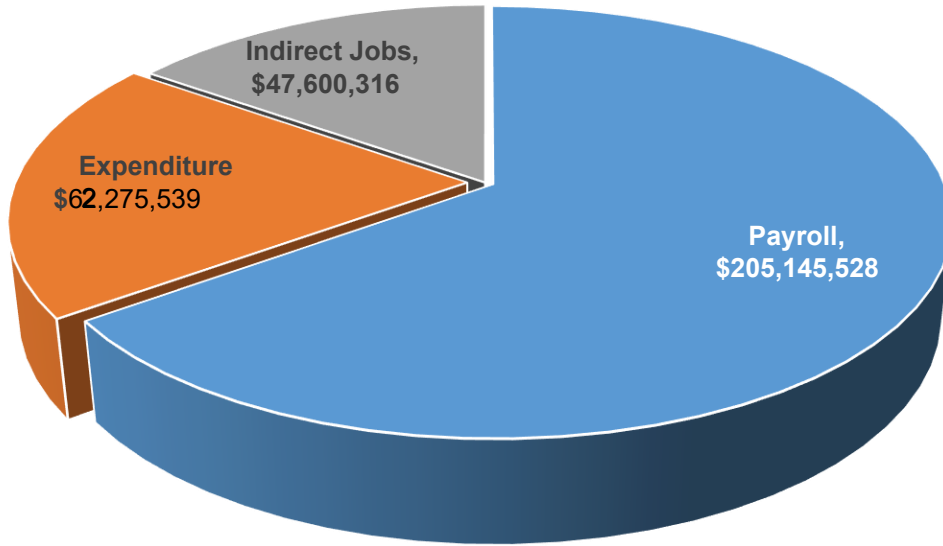


Total FY21 NGND Indirect Wages \$47,600,315

TABLE 5:
Total Annual Economic Impact by Location

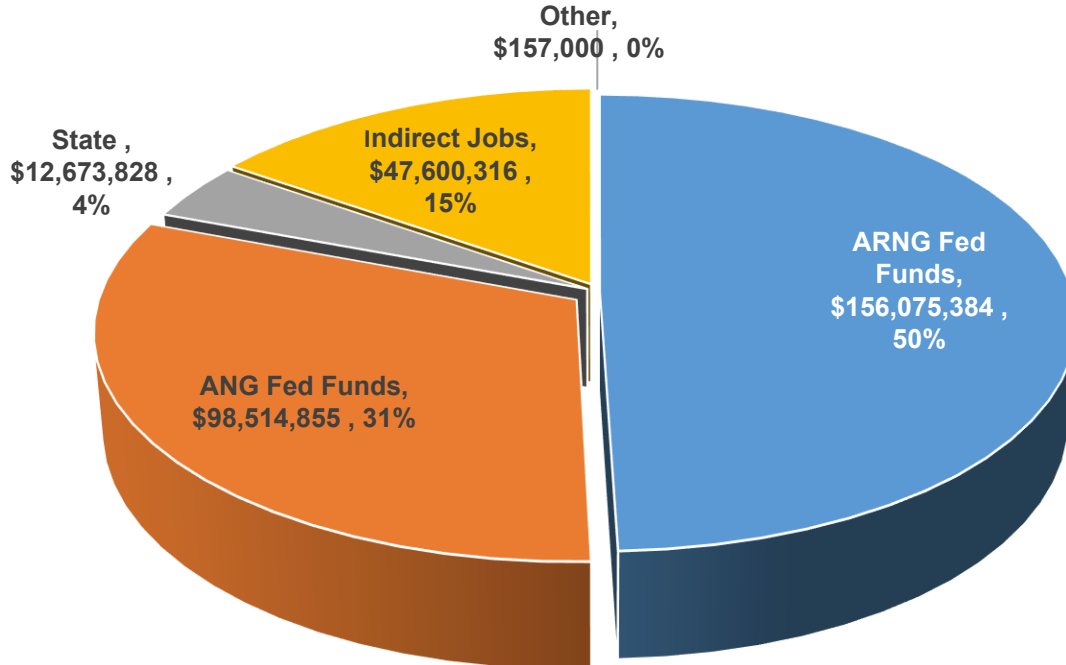
	<u>NDANG</u>	<u>NDARNG</u>	<u>Total</u>
Annual Payroll			
Bismarck/Mandan	\$2,004,533	\$66,825,129	\$68,829,662
Devils Lake		19,168,708	19,168,708
Fargo/West Fargo	66,098,480	14,321,139	80,419,619
Grand Forks		12,096,028	12,096,028
Minot	6,880,889	5,752,323	12,633,212
Other		11,998,299	11,998,299
Totals	\$74,983,902	\$130,161,626	\$205,145,528
Annual Expenditures			
Bismarck/Mandan	\$57,787	\$12,863,312	\$12,921,099
Devils Lake		8,986,630	8,986,630
Fargo/West Fargo	19,209,838	6,139,512	25,349,350
Grand Forks		2,880,476	2,880,476
Minot	7,106,768	1,082,065	8,188,833
Other		3,949,151	3,949,151
Totals	\$26,374,393	\$35,901,146	\$62,275,539
Annual Indirect Wages			
Bismarck/Mandan	\$356,878	\$13,748,804	\$14,105,682
Devils Lake		5,348,379	5,348,379
Fargo/West Fargo	13,411,192	3,868,991	17,280,183
Grand Forks		1,804,598	1,804,598
Minot	1,144,677	2,834,463	3,979,140
Other		5,082,334	5,082,334
Totals	\$14,912,747	\$32,687,569	\$47,600,316
Total Economic Impact			
Bismarck/Mandan	\$2,419,198	\$93,437,245	\$95,856,443
Devils Lake		33,503,717	33,503,717
Fargo/West Fargo	98,719,510	24,329,642	123,049,152
Grand Forks		16,781,102	16,781,102
Minot	15,132,334	9,668,851	24,801,185
Other		21,029,784	21,029,784
Totals	\$116,271,042	\$198,750,341	\$315,021,383

FY21 NGND Economic Impact by Type



FY21 Total NGND EIA \$315,021,383

FY21 NGND Economic Impact by Contribution



FY21 Total NGND EIA \$315,021,383
 State Funds include Special Funds of \$434,177

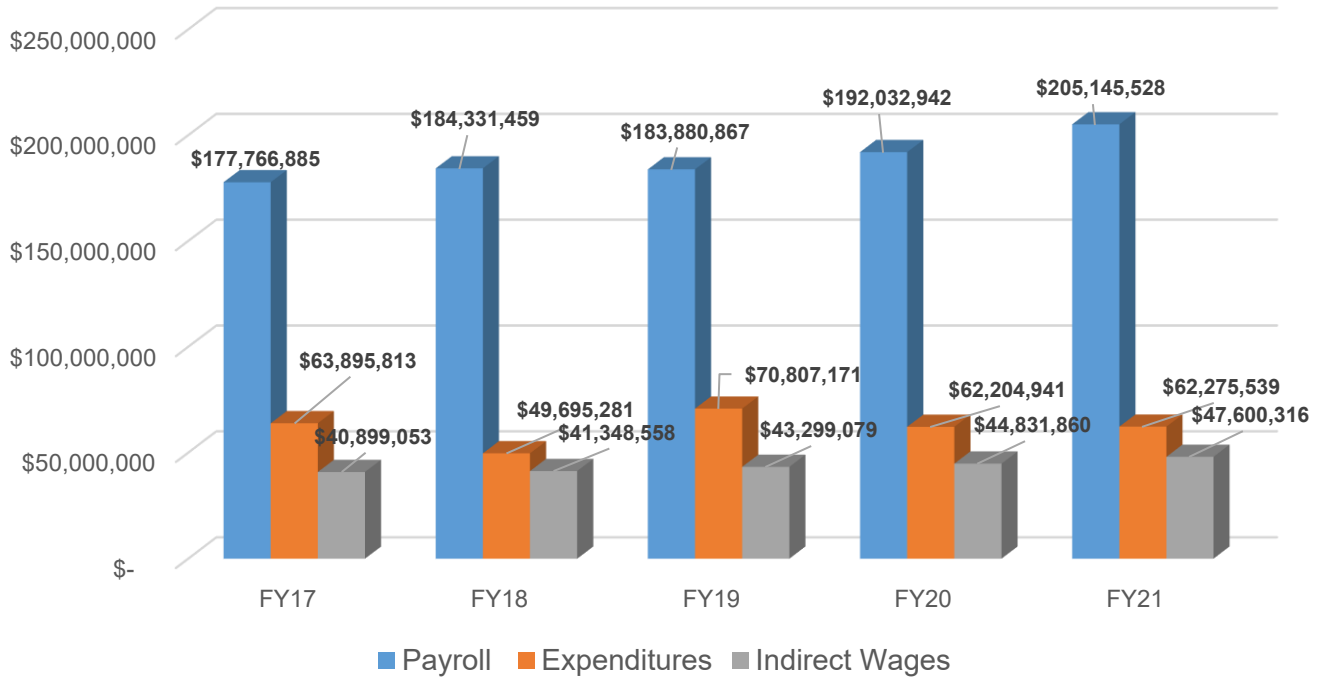
TABLE 6:
Total Annual Economic Impact by Location Type

	<u>Payroll</u>	<u>Expenditures</u>	<u>Indirect Wages</u>	<u>Total</u>
Bismarck/Mandan	\$ 68,829,662	\$ 12,921,099	\$ 14,105,681	\$ 95,856,443
Devils Lake	19,168,708	8,986,630	5,348,379	33,503,717
Dickinson	1,483,606	648,095	628,438	2,760,139
Edgeley	1,148,400	352,194	486,448	1,987,042
Fargo/West Fargo	80,419,619	25,349,350	17,280,183	123,049,152
Grand Forks	12,096,028	2,880,476	1,804,598	16,781,102
Jamestown	1,589,892	536,829	673,459	2,800,180
Lisbon	678,646	271,066	287,466	1,237,178
Minot	12,633,212	8,188,833	3,979,140	24,801,185
Valley City	3,676,576	739,940	1,557,353	5,973,869
Wahpeton	2,051,997	847,620	869,201	3,768,818
Williston	797,919	330,259	337,989	1,466,167
Wishek	571,263	223,148	241,980	1,036,391
	\$ 205,145,528	\$ 62,275,539	\$ 47,600,316	\$ 315,021,383

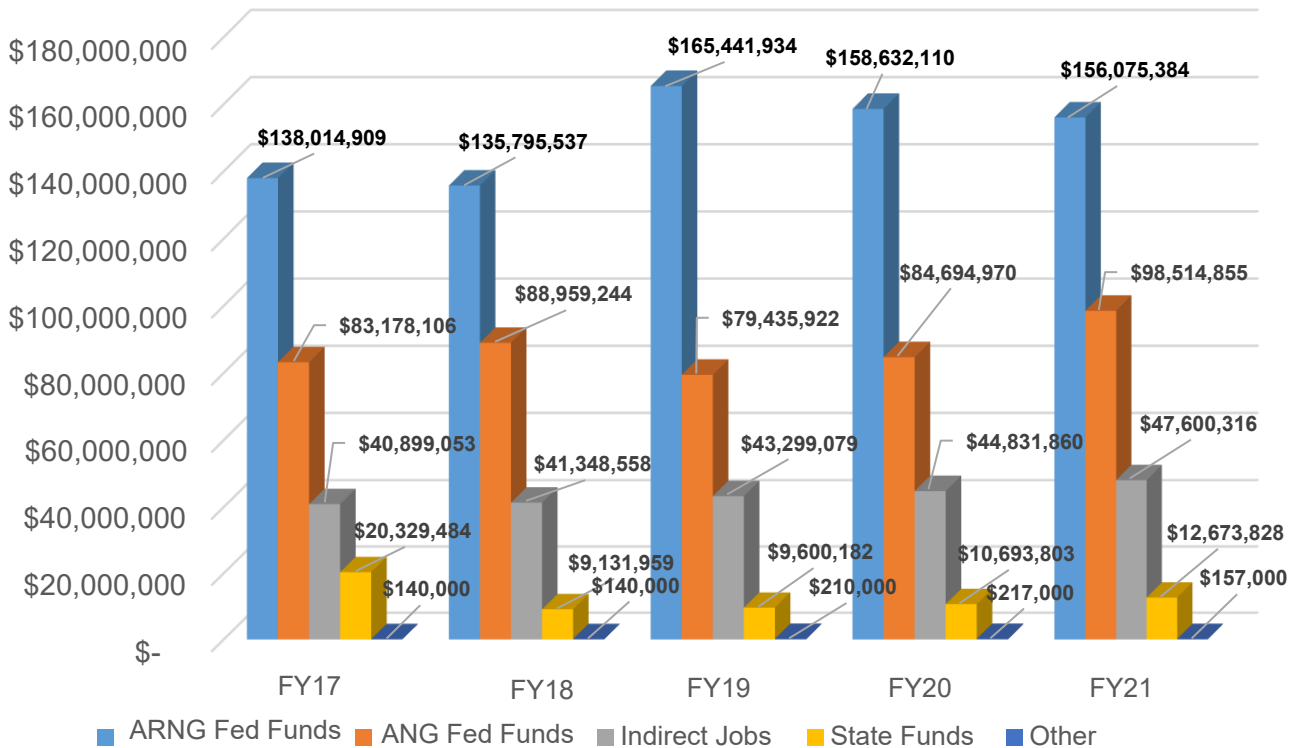
TABLE 7:
Total Annual Economic Impact by Location and Component

	<u>NDANG</u>	<u>NDARNG</u>	<u>Total</u>
Bismarck/Mandan	\$2,419,198	\$93,437,245	\$95,856,443
Devils Lake		\$33,503,717	\$33,503,717
Dickinson		2,760,139	2,760,139
Edgeley		1,987,042	1,987,042
Fargo/West Fargo	98,719,510	24,329,642	123,049,152
Grand Forks		16,781,102	16,781,102
Jamestown		2,800,180	2,800,180
Lisbon		1,237,178	1,237,178
Minot	15,132,334	9,668,851	24,801,185
Valley City		5,973,869	5,973,869
Wahpeton		3,768,818	3,768,818
Williston		1,466,167	1,466,167
Wishek		1,036,391	1,036,391
Total	\$116,271,042	\$198,750,341	\$315,021,383

Five year comparison of NGND Economic Impact by Type



Five Year comparison of NGND Economic Impact by Contribution

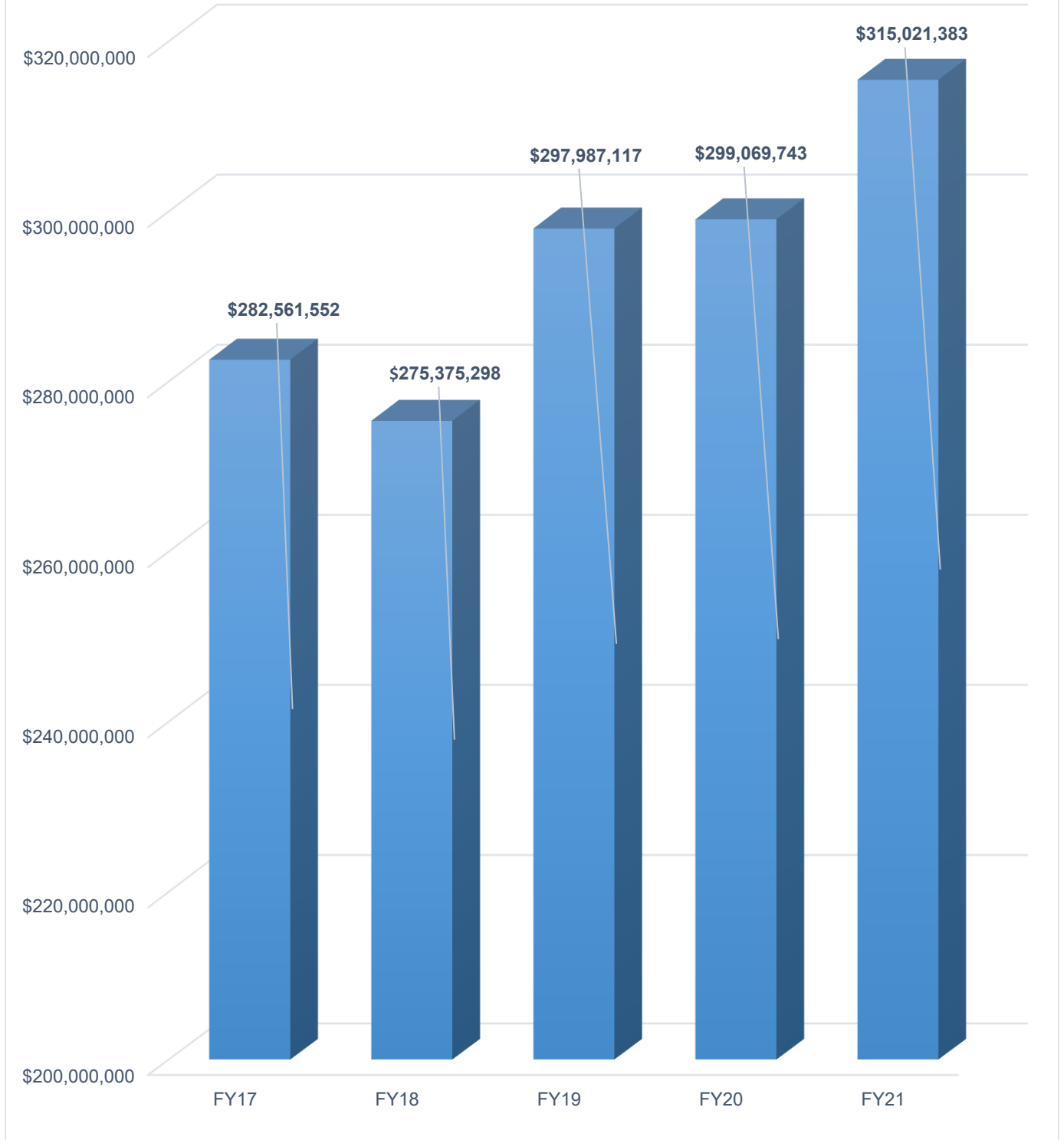


FY17 State Funds include State Active Duty for DAPL Support.

FY19 ARNG Funds include Military Construction in Fargo.

FY20 and FY21 Include State and Federal support of the COVID Mission.

NGND Economic Impact 5 Year Comparison



The total EIA for the 5-year period was approximately \$1,470,415,103