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Economic Impact of the North Dakota University System in 2009

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Executive Summary

The North Dakota University System consists of the North Dakota University System Office and 11 college campuses located throughout the state. In addition to the 11 main campuses, numerous other university facilities, centers, and offices are located throughout the state. Institutions of higher education have an economic effect in their respective areas and across the state as those institutions acquire inputs, purchase services, and provide for payroll and employment at both the local and state level. North Dakota University System expenditures include general fund sources (e.g., state appropriated monies) and non-general fund sources (i.e., grants, contracts, donations). North Dakota University System in-state expenditures for fiscal year (FY) 2009 comprise the direct economic impact or 'first round effects.' The North Dakota Input-Output Model was used to estimate the secondary economic effects as those direct effects (i.e., expenditures) are circulated and re-spent in the economy. The model estimates the changes in gross business volume (gross receipts) for all sectors of an economy and is used to provide key economic indicators such as retail trade activity, economy-wide personal income, gross business volume, secondary employment, and state-level tax receipts.

Key measures of the economic contribution of the North Dakota University System in FY2009 include:

- Direct economic impacts (expenditures) of \$980 million, of which \$706 million were expenditures from non-general fund sources
- Direct expenditures from general and non-general funds created a gross business volume of \$2.9 billion, which included \$709 million in retail trade activity and \$1.1 billion in economy-wide personal income
- Economic output in the retail trade sector would generate \$32.8 million in sales and use tax collections, and economy-wide personal income of \$1.1 billion would generate about \$17 million in individual income tax collections in North Dakota
- Direct employment by the North Dakota University System was 11,079 positions (excluding student jobs).
- Secondary (indirect and induced) employment resulting from the business activity generated by the North Dakota University System was estimated at 16,100 jobs
- Enrollment in the 11 member universities and colleges in the Fall of 2008 (which more closely aligns with FY2009) was equal to 36,095 full-time equivalent students
- Student living expenses were estimated at \$327 million and were in addition to institution spending
- Increased business activity generated by student spending was estimated at \$813 million, which included \$368 million in retail trade activity and \$197 million of economy-wide personal income and would support about 3,800 secondary jobs.

Economic Contribution of the North Dakota University System

Dean A. Bangsund, F. Larry Leistritz, and Randal C. Coon*

The North Dakota University System (NDUS) is comprised of the North Dakota University System Office and 11 college campuses, and their related entities located throughout the state. These institutions contribute to the state and local economies through expenditures for inputs and services and through personal spending by staff and faculty. Previous studies have estimated the economic contribution of the NDUS for fiscal years (FY) 1999 and 2004 (Leistritz and Coon 2005), FY2006 (Leistritz and Coon 2007), and FY2008 (Leistritz and Coon 2009). This study will provide a similar analysis for FY2009.

The North Dakota University System experienced substantial growth during the 1999-2006 period, and that trend has continued through 2009. The number of students attending schools in the North Dakota University System has increased since 1999. Employment at the 11 universities has also increased since 1999. Expenditures to operate the NDUS have increased steadily over the FY1999 to FY2009 period, largely funded from the federal government and/or other out-of-state sources, primarily for research and economic development activities.

The economic contribution of the NDUS was estimated with consideration given to the source of revenue for the system colleges and universities. General fund revenues are primarily received from state government appropriations. Non-general fund revenues come from sources other than the appropriated state tax revenue. Examples of non-general fund revenues can be federal grants, private grants, private/public research contracts, and donations. The main body of the report focuses on the North Dakota University System and the economic effects of general and non-general fund expenditures by colleges and universities. An abbreviated economic impact analysis for each of the 11 campuses in the state and the North Dakota University System Office are appended to the end of this report.

Methods

The initial task in any impact assessment is estimating the direct effects or first round of spending associated with an activity, project, or program. The North Dakota University System Office provided FY2009 financial data for each of the 11 institutions and the North Dakota University System Office. Also provided were Fall 2008 student enrollment data for each of the state's 11 public colleges and universities. The expenditure data were provided for the same budget categories as previous studies (i.e., FY1999, FY2004, FY2006, and FY2008 analyses) (see Appendix A). Data were provided for general and non-general fund expenditures. As part of the budget expense categories, capital improvement (building) and capital equipment expenditures for each of the institutions were also included. However, non-general fund capital equipment purchases at North Dakota State University and University of North Dakota were excluded from this analysis. Although this category contained significant levels of spending at both the schools, those purchases primarily represent scientific, lab, and technical equipment which are primarily purchased from out-of-state suppliers.

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Expenditure data came from the ConnectND system. Expenditure data for each individual institution may not correspond exactly with that institution's financial statement. The following colleges and universities, along with their respective centers and stations, were included in the ConnectND data system:

North Dakota University System Office

Bismarck State College

Dickinson State University

Lake Region State College

Mayville State University

Minot State University

Dakota College Bottineau

North Dakota State College of Science

North Dakota State University

Agricultural Experiment Station:

NDSU Main Research Center

Dickinson Research Extension Center

Central Grasslands Research Extension Center

Hettinger Research Extension Center

Langdon Research Extension Center

North Central Research Extension Center

Williston Research Extension Center

Carrington Research Extension Center

Agronomy Seed Farm

Northern Crops Institute

Upper Great Plains Transportation Institute

NDSU Cooperative Extension Service

North Dakota Forest Service

University of North Dakota

School of Medicine and Health Services

Valley City State University

Williston State College

Data for organizations such as development foundations and university/private partnerships (e.g., NDSU Research & Technology Park) are not included in the ConnectND data base. Therefore, the financial activity of those entities are not reflected in this report. The absence of those expenditure data, in some cases, understates the economic effects of the NDUS. However, despite those omissions, the ConnectND data set provides a consistent, accurate, and annual data base for an economic contribution analysis.

Spending on capital improvements came from both general fund and non-general fund sources. Non-general fund construction would have been funded by external sources such as grants, contracts, and donations. All expenditure data were in current year dollar values (also called nominal dollars), meaning dollar values have not been adjusted for inflation. Some of the growth reported in expenditures would be accounted for with inflation. In other words, some growth in expenditures would be required to keep spending steady on a real basis (i.e., account for inflationary changes in the purchasing power of the dollar). The Consumer Price Index suggests inflation during the 1999-2009 period was 29 percent (Bureau of Labor Statistics 2010).

Therefore, a 29 percent increase in expenditures from 1999 to 2009 would be required to represent a zero change in expenditures if corrected for inflation (i.e., dollars expressed in real terms).

The North Dakota Input-Output Model was used to estimate the secondary economic impacts based on NDUS expenditure data. The North Dakota Input-Output Model consists of interdependence coefficients or multipliers that measure the level of business activity generated in each economic sector from an additional dollar of expenditures in a given sector. (A sector is a group of similar economic units, e.g., the firms engaged in retail trade make up the retail trade sector.) For a complete description of the input-output model, see Coon and Leistritz (1989). The model estimates the changes in gross business volume (gross receipts) for all sectors of the area economy resulting from the direct expenditures associated with the North Dakota University System. The increased gross business volumes are used to estimate secondary employment and tax revenues based on historic relationships. The procedures used in the analysis are parallel to those used in estimating the impact of other facilities and activities in North Dakota (Leistritz 1995; Bangsund and Leistritz 2004). Empirical testing has confirmed the model's accuracy in estimating changes in levels of economic activity in North Dakota; over the period 1958-2006, estimates of statewide personal income derived from the model averaged within 5 percent of comparable values reported by the U.S. Department of Commerce (Leistritz et al. 1990, Coon and Leistritz 2008).

This analysis also includes the economic impact of student spending. Student spending has an economic impact beyond that of the North Dakota University System. Estimated costs of education for the 2008-2009 academic year were obtained from the North Dakota Career Resource Network (2010). Those expenditures provide an indication of the economic contribution of student spending in the state.

North Dakota University System Economic Contribution

The North Dakota University System operating budget increased 84 percent from \$533 million in FY1999 to \$980 million in FY2009, excluding capital equipment purchases at NDSU and UND (Table 1). Wages and salaries represented the largest itemized expense over the time period. Wages and salaries were \$226 million in FY1999 (42 percent of total) and grew to \$405 million in FY2009 (41 percent of total). The percentage of total general and non-general fund expenditures for wages and salaries has remained essentially unchanged over the 10-year period (Table 1).

Table 1. Direct Economic Impacts from General and Non-general Fund Expenditures, North Dakota University System, by Budget Category, and Allocation to the Input-Output Model Industrial Sectors, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

						Change			
Item	FY1999	FY2004	FY2006	FY2008	FY2009	1999- 2009	2008- 2009		
			\$000s			%			
Operating Expenditures:									
Wages and Salaries	225,512	318,838	352,778	374,053	404,743	79.5	8.2		
Fringe Benefits	55,809	85,718	98,123	111,650	119,436	114.0	7.0		
Travel	14,102	21,194	23,136	26,684	26,731	89.6	0.2		
Data Processing	4,324	7,625	13,297	16,510	14,633	238.4	-11.4		
Fees	22,565	38,891	28,657	36,487	33,956	50.5	-6.9		
Utilities	12,054	15,780	18,173	22,562	23,606	95.8	4.6		
Communications	11,284	11,050	8,057	8,340	8,494	-24.7	1.8		
Insurance	1,832	3,426	3,464	3,224	4,704	156.8	45.9		
Rents and Fees	10,416	14,809	9,013	10,642	14,127	35.6	32.7		
Office	15,372	20,968	10,526	10,884	10,564	-31.3	-2.9		
Supplies	9,626	17,330	19,512	21,731	23,132	140.3	6.4		
Instructional	5,677	7,155	16,916	20,868	21,567	279.9	3.3		
Noncapital Equipment	1,777	2,981	6,441	7,114	7,345	313.3	3.2		
Merchandise for Resale	34,696	32,785	37,858	41,861	47,752	37.6	14.1		
Repairs	24,631	20,064	21,382	25,325	27,999	13.7	10.6		
Scholarships, etc.	40,160	62,774	69,979	80,165	86,654	115.8	8.1		
General	10,088	24,841	49,004	57,199	64,444	538.8	12.7		
Capital Equipment	6,468	4,793	2,300	19,754	6,396	-1.1	-67.6		
Recovery of Expenses		(11,945)							
Capital Improvements	26,529	62,243	39,488	45,246	34,084	28.5	-24.7		
Total	532,922	761,320	828,104	940,299	980,365	84.0	4.3		
Input-Output Model Sectors:									
Construction Communications	26,529	62,243	39,488	45,246	34,084	28.5	-24.7		
& Public Utilities	23,338	26,831	26,230	30,902	32,100	37.5	3.9		
Retail Trade	73,616	74,066	93,553	122,212	116,755	58.6	-4.5		
Finance, Ins., R. Estate	68,057	103,952	110,559	125,517	124,140	82.4	-1.1		
Business and					101		,		
Personal Services	75,710	112,615	135,477	162,204	181,890	140.2	12.1		
Households	<u>265,672</u>	<u>381,613</u>	422,757	<u>454,218</u>	<u>491,396</u>	85.0	8.2		
Total	532,922	761,320	828,104	940,299	980,365	84.0	4.3		

Fringe benefits represented the second largest itemized expenditure, increasing from \$56 million in FY1999 (10 percent of total) to \$119 million in FY2009 (12 percent of total). Wages and salaries plus benefits equaled \$281 million in FY1999, \$405 million in FY2004, \$451 million in FY2006, \$486 million in FY2008, and \$524 million in FY2009. Salaries and wages, along with benefits, averaged over 50 percent of university expenditures over the past 10-years (Table 1). Wages and salaries and benefits increased 86 percent from FY1999 to FY2009.

Capital improvements were \$26 million in FY1999, \$62 million in FY2004, \$39 million in FY2006, \$45 million in FY2008, and \$34 million in FY2009. Expenditures for construction are often based on availability of funds from a variety of sources. General fund monies allocated to capital improvements come from tax revenues and generally reflect the economic welfare of the state during each legislative biennium. Most of the change in capital improvements during the last 10-year period has come from non-general fund sources.

Expenditures made by the North Dakota University System comprise the direct impacts or first-round effects on the state's economy. The economic effects of those first-round expenditures are distributed in numerous locations through out the state. Direct impacts were \$533 million in FY1999, \$761 million in FY2004, \$828 million in FY2006, \$940 million in FY2008, and \$980 million in FY2009 (Table 1). These expenditures were allocated to six economic sectors of the North Dakota Input-Output Model.

As the state's higher education institutions have expanded their roles in research, economic development, outreach, and developed community and industrial partnerships, sources of funding for many of the universities' activities also have changed. Non-general fund revenue (grants, contracts, donations) has become an important source of growth in the higher education system in ND. In FY1999, \$333 million of non-general fund expenditures comprised 62 percent of the total expenditures by the University System in ND; these outlays increased to \$535 million in FY2004, 70 percent of the total (Table 2). In FY2006, non-general fund expenditures were \$614 million, which accounted for 74 percent of the University System's expenditures. Non-general fund expenditures increased to \$689 million in FY2008, 73 percent of the total budget. In FY2009, non-general fund expenditures were estimated at \$706 million and represented 72 percent of all expenditures.

Non-general fund expenditures have increased \$373 million since FY1999 or by 112 percent over the 10-year period. The majority of non-general fund expenditures were for wages and salaries over the 10-year period. In FY 2009, salaries and wages from non-general fund sources accounted for 66 percent of all expenditures for wages and salaries. Thus, two-thirds of NDUS wages and salaries for staff and faculty come from sources other than state government appropriations. It is likely that in the absence of external funding for wages and salaries, overall employment in the NDUS could be expected to be much lower than current levels. Similar to expenditures from general fund revenues, non-general fund outlays were allocated to six economic sectors of the North Dakota Input-Output Model to estimate secondary economic impacts from just the non-general fund expenditures associated with the NDUS.

Table 2. Direct Economic Impacts from Non-General Fund Expenditures, North Dakota University System, by Budget Category, and Allocation to the Input-Output Model Industrial Sectors, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

_						Change		
Item	FY1999	FY2004	FY2006	FY2008	FY2009	1999- 2009	2008- 2009	
			\$000s			%		
Operating Expenditures:								
Wages and Salaries	116,454	194,399	236,265	246,481	266,414	128.8	8.1	
Fringe Benefits	28,161	50,243	64,446	72,168	77,229	174.2	7.0	
Travel	10,839	17,170	19,323	22,177	22,202	104.8	0.1	
Data Processing	2,546	5,676	11,096	11,884	11,215	340.5	-5.6	
Fees	17,013	34,267	26,893	33,329	30,741	80.7	-7.8	
Utilities	4,195	6,975	9,893	12,580	13,359	218.5	6.2	
Communications	7,683	7,991	6,227	6,326	6,366	-17.1	0.6	
Insurance	1,063	2,144	2,320	2,326	3,618	240.4	55.5	
Rents and Fees	7,595	13,062	7,684	9,630	12,944	70.4	34.4	
Office	9,104	15,269	7,883	8,271	7,848	-13.8	-5.1	
Supplies	8,055	14,805	16,136	18,320	18,936	135.1	3.4	
Instructional	2,654	4,349	12,645	16,103	16,612	525.9	3.2	
Noncapital Equipment	1,122	2,159	5,401	5,895	6,039	438.2	2.4	
Merchandise for Resale	31,704	32,784	37,857	41,860	47,750	50.6	14.1	
Repairs	16660	14861	16999	19124	20381	22.3	6.6	
Scholarships, etc.	38,495	58,787	55,133	61,670	67,613	75.6	9.6	
General	6,904	18,312	42,095	47,763	53,137	669.7	11.3	
Capital Equipment	1,847	1,789	1,238	17,351	4,302	132.9	-75.2	
Recovery of Expenses		(11,945)						
Capital Improvements	20,807	51,846	34,266	<u>36,201</u>	19,124	-8.1	-47.2	
Total	332,901	534,943	613,800	689,459	705,830	112.0	2.4	
Input-Output Model Sectors								
Construction Communications	20,807	51,846	34,266	36,201	19,124	-8.1	-47.2	
& Public Utilities	11,878	14,966	16,120	18,906	19,725	66.1	4.3	
Retail Trade	54,486	59,211	81,160	107,801	101,487	86.3	-5.9	
Finance, Ins., R. Estate Business and	36,819	65,448	74,450	84,124	80,847	119.6	-3.9	
Personal Services	53,962	90,286	116,406	134,276	150,621	179.1	12.2	
Households	<u>154,949</u>	<u>253,186</u>	<u>291,398</u>	308,151	<u>334,026</u>	115.6	8.4	
Total	332,901	534,943	613,800	689,459	705,830	112.0	2.4	

Secondary economic effects associated with the North Dakota University System were estimated by applying the input-output model coefficients to the level of expenditures by economic sector . The combination of direct and secondary economic effects are sometimes referred to as gross business volume. Gross business volumes were estimated for both total expenditures (general and non-general fund) and for only non-general fund expenditures (Table 3).

Gross business volume associated with general and non-general fund expenditures in the state were estimated at \$1.6 billion in FY1999, \$2.2 billion in FY2004, \$2.4 billion in FY2006, \$2.8 billion in FY2008, and \$2.9 billion in FY2009 (Table 3). The gross business volume for the University System has increased by \$1.3 billion or by 85 percent over the 10-year period. Economic sectors of the ND economy that received major contributions include households (i.e., economy-wide personal income of state residents), retail trade, construction, and finance, insurance and real estate. Retail trade activity amounted to \$393 million in FY1999 and \$709 million in FY2009. Economic activity in the retail trade sector increased by \$192 million or by 80 percent over the period. The University System was estimated to increase economy-wide personal income (i.e., households sector) in North Dakota from \$613 million in FY1999 to \$1.1 billion in FY2009. Levels of business activity resulting from the North Dakota University System would support 19,530 secondary (indirect and induced) full-time equivalent (FTE) jobs in 1999 and 19,940 FTE secondary jobs in 2009 (Table 4). These jobs represent employment in addition to the 8,120 persons employed by the North Dakota University System in 1999 and the 11,079 positions (excluding student jobs) in 2009 (Table 4). In FY2009, retail trade activity (\$709 million) would generate about \$32.8 million in additional sales and use tax collections in the state. Similarly, economy-wide personal income of \$1.1 billion would generate \$17 million in state income tax collections.

A similar analysis was conducted for non-general fund expenditures (Table 3). Non-general fund outlays in FY1999 generated a gross business volume of nearly \$1.0 billion, \$1.6 billion in FY2004, \$1.8 billion in FY2006, and about \$2.0 billion in FY2008 and FY2009. Gross business volume in the state from non-general fund expenditures in the NDUS increased by 114 percent over the 10-year period. Overall activity in the *retail trade* sector was estimated at \$248 million in FY1999 and \$517 million in FY2009; levels sufficient to generate \$11.5 million and \$23.9 million in increased sales and use tax collections for the respective years. Economy-wide personal income of \$792 million in FY2009 would generate \$11.9 million in state individual income tax collections.

The economic effects associated with non-general fund expenditures comprise a substantial share of the total North Dakota University System economic contribution. Both the relative share of University System spending that comes from non-general funds sources and that the share has been increasing over the 10-year period highlight the importance that outside financial support plays in the economic effects on the North Dakota economy.

Table 3. Direct and Secondary Economic Effects, General and Non-General Funds, North Dakota University System, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

						Cha	nge			
Item	FY1999 FY2004		FY2006	FY2008	FY2009	1999- 2009	2008- 2009			
			\$ 000s			%	ý			
Direct and Secondary Economic Effects, General and Non-General Funds, by Economic Sector:										
Construction	65,070	117,946	100,140	112,887	105,381	62.0	-6.6			
Comm & Pub Util	76,560	103,633	110,370	125,617	131,886	72.3	5.0			
Retail Trade	392,833	536,877	597,584	684,069	708,724	80.4	3.6			
Fin, Ins, Real Estate	139,715	207,621	223,761	251,652	257,349	84.2	2.3			
Bus & Pers Services	103,849	153,552	180,280	212,297	234,744	126.0	10.6			
Prof & Soc Services	39,731	57,512	62,822	69,725	73,706	85.5	5.7			
Households	612,835	887,089	968,846	1,073,533	1,135,643	85.3	5.8			
Other ¹	126,456	<u>179,794</u>	<u>196,758</u>	221,915	231,738	83.3	4.4			
Total	1,557,049	2,244,024	2,440,561	2,751,695	2,879,171	84.9	4.6			
Direct and Secondary Eco	onomic Effect	s, Non-Gener	ral Fund Onl	y, by Econon	nic Sector:					
Construction	44,163	90,086	78,001	84,342	69,227	56.8	-17.9			
Comm & Pub Util	44,380	68,060	77,533	87,144	90,781	104.6	4.2			
Retail Trade	247,754	376,788	444,393	507,419	517,180	108.7	1.9			
Fin, Ins, Real Estate	80,184	136,560	156,023	173,842	174,518	117.6	0.4			
Bus & Pers Services	70,970	118,369	148,781	169,984	187,891	164.7	10.5			
Prof & Soc Services	23,867	39,196	44,941	1 49,224 51,49		115.7	4.6			
Households	367,522	603,700	691,608	756,177	791,816	115.4	4.7			
Other ¹	77,625	124,256	143,421	160,301	164,860	112.4	2.8			
Total	956,465	1,557,015	1,784,701	1,988,433	2,047,765	114.1	3.0			

¹ Includes agriculture, mining, manufacturing, transportation, and government.

Table 4. Direct Employment in the North Dakota University System, Secondary Employment Attributed to University System Expenditures, and Student Enrollment, 1999, 2004, 2006, 2008, and 2009

Year	Direct Employment ¹	Secondary Employment ²	Student Enrollement ³
1999	8,120	19,530	30,720
2004	9,608	21,150	36,245
2006	10,260	21,930	35,373
2008	10,651	18,910	36,095
2009	11,079	19,940	37,564
Change 1999-2009:			
Number Percent	2,959 36.4	410 2.1	6,844 22.3
Change 2008-2009:			
Number Percent	428 4.0	1,030 5.4	1,469 4.1

¹ North Dakota University System employment is an employee head count consisting of faculty, classified, other non-classified and temporary. Student workers were not included in this total.

Student Economic Contribution

Student spending contributes to the economic contribution of the North Dakota University System. Student spending included outlays for personal items, recreation, books, supplies, and room and board. Excluded from student expenditures were outlays for tuition and fees. Estimates of student expenditures were available for each of the 11 institutions in the North Dakota University System (North Dakota Career Resource Network 2010). The North Dakota Career Resource Network estimated that students would average \$3,060 per person for personal and recreational spending while attending college during the 2008-2009 academic year. Student living expenditures were estimated to range from \$7,178 per student per academic year at Williston State College to \$9,736 per student per academic year at North Dakota State University (Appendix Table A12).

Multiplying the Fall 2008 FTE student enrollment for each school by their respective perstudent living expenditures provided an estimate of direct impacts or first-round effects associated with student spending. However, the use of ND Career Resource Network estimates of room and board expenses may overstate the economic effects of student expenditures. Although a large number of students live on-campus or live independently off-campus, some students live at home. Students living at home would likely incur less expense for room and board compared to those living on-campus or independently off-campus. Another factor that

² Secondary employment is full-time equivalent workers. Estimates are associated with gross business volume from university expenditures and student living expenses.

³ Student enrollment is full-time equivalent students.

complicates the estimation of the effects of student spending is that some of the revenues for room and board for students living in university dormitories could be considered double counting with expenditures by the universities. The revenues received by universities and colleges for on-campus room and board would likely be dispersed by the universities for inputs and services associated with student housing. As such, expenditures for providing student housing are probably partially captured by the analyses of university spending. Therefore, including room and board expenses for all students might result in some double counting of University System expenditures. Data were unavailable to adjust the economic contribution of student spending to account for those students living at home or to adjust for the percentage of room and board expenses already captured by University System expenditures.

Another area of potential double counting could occur in how expenses are handled for books and other educational materials. Books and educational materials purchased by students through campus-sponsored book stores or at on-campus varsity marts also are likely to be fully or partially captured by university expenditures. Since those facilities are part of the university or college, expenses for staff, facilities, and materials/inventory would necessarily be included in the university analysis. Further, it is highly likely that a large percentage of college text books would be acquired from entities outside of North Dakota and would not represent in-state expenditures by universities and colleges. However, to the extent that educational materials are purchased by students from off-campus sources, those expenditures would not represent double counting. The degree of overlap between student spending for books and educational supplies and university expenditures associated with book stores and varsity marts is unknown, as is the degree of those supplies purchased by universities from out-of-state entities. Despite these potential problems, the cost of books was included in the student spending analysis for consistency with previous analyses.

In 2008, NDUS indicated that 36,095 FTE students were enrolled in the 11 state universities and colleges. Based on expenditures per FTE student, students were estimated to have spent \$327 million in North Dakota on books, room and board, personal items, and recreation (Table 5). Of course, students also incur expenses for fees, tuition, and other items not covered in this analysis. Those expenditures were not included in this study and would be captured by the analysis of university expenditures.

A large share of the student spending would occur in the communities where the institutions are located, due to the nature of their purchases (i.e., books, supplies, and room and board). Some of the student expenditures for recreation and personal items will occur in cities and trade areas other than those where the university or college is located. However, for this analysis, all student spending will be assumed to remain in close proximity to the community where the college or university is located (data presented for each university in Appendix B).

Student spending was estimated at \$327 million for the 2008-2009 academic year, which most closely approximates the FY2009 calendar year (Table 5). The \$327 million in student expenditures would be in addition to expenditures made by the North Dakota University System universities and colleges despite the potential problems identified earlier in this section. In 2008-2009, student direct expenditures were 33 percent of the general and non-general fund expenditures made by the North Dakota University System.

Student spending was allocated to the *retail trade* (75 percent) and *finance, insurance, and real estate* (25 percent) sectors of the North Dakota Input-Output Model. The total economic contribution associated with student spending was estimated at \$813 million in FY2009. The sector that received the largest impact was the *retail trade* sector, with \$368 million in retail trade activity. The *household* sector (economy-wide personal income) was estimated at \$197 million in FY2009. Retail trade activity would generate \$17 million in sales and use tax collections, while personal income tax collections were estimated to be \$3 million as the result of increased economic activity in the *household* sector. The gross business volume resulting from North Dakota University System student spending would support about 3,800 secondary (indirect and induced) jobs in the state in FY2009.

Table 5. Direct and Total Economic Effects, Student Living Expenditures, Students Enrolled in the North Dakota University System, Fiscal Years 2008 and 2009

Item	FY2008	FY2009			
	\$ 000				
Direct Impacts:					
Student Expenditures for Living Expenses	304,502	327,360			
Direct Impacts by I-O Model Sector:					
Retail Trade Finance, Insurance, Real Estate	228,377 <u>76,125</u>	245,519 81,841			
Total	304,502	327,360			
Direct and Secondary Impacts:					
Construction Comm and Public Utilities Retail Trade Finance, Insurance, Real Estate Business and Personal Services Professional and Social Services Households Other ¹	13,558 22,137 342,306 100,143 10,262 12,515 183,614 72,084 756,619	14,575 23,798 368,001 107,662 11,032 13,454 197,398 77,391 813,311			

¹ Includes agriculture, mining, manufacturing, transportation, and government.

Conclusions

The North Dakota University System consists of 11 colleges and universities located throughout the state. Those universities receive revenues from state appropriated funds, state grants, federal grants, and from private grants, contracts, and donations. The universities and colleges have positive effects on the state economy and local economies as those revenues are used to purchase inputs and services and pay wages and salaries. Expenditure data for the NDUS came from the ConnectND system.

The North Dakota University System was responsible for \$533 million in direct expenditures within North Dakota in FY1999. By FY2009, direct expenditures within ND had increased by 84 percent to \$980 million. Much of the growth during this 10-year period has come from non-general fund sources, such as grants, contracts, and donations, which increased by 112 percent over the period. Non-general fund expenditures represented nearly 75 percent of the total direct spending by the NDUS in FY2009.

The North Dakota Input-Output Model was used to estimate the amount of business activity generated from expenditures by the NDUS. The total direct effects, \$980 million in NDUS expenditures, were allocated to various sectors of the ND I/O Model. Interdependence coefficients within the model were then used to estimate the secondary economic effects. Combining direct and secondary economic effects provides an estimate of the gross business volume. The gross business volume associated with the NDUS was estimated at \$1.6 billion in FY1999, \$2.2 billion in FY2004, \$2.4 billion in FY2006, \$2.8 billion in FY2008, and \$2.9 billion in FY2009. Other key measures of economic impact include retail trade activity and economywide personal income. Retail trade sales attributed to the North Dakota University System expenditures were estimated at \$393 million, \$537 million, \$598 million, \$684 million, and \$709 million in fiscal years 1999, 2004, 2006, 2008, and 2009, respectively. Economy-wide personal income was estimated to be \$613 million in FY1999, \$887 million in FY2004, \$969 million in FY2006, \$1.07 billion in FY2008, and \$1.14 billion in FY2009.

Student expenditures create an economic impact that is in addition to that of the North Dakota University System. Student spending, excluding tuition and fees, was estimated at \$327 million in FY2009. The gross business volume associated with spending from the 36,095 FTE students enrolled in the NDUS during the 2008-2009 academic year was estimated at \$813 million.

Overall, student spending and NDUS expenditures were estimated at \$1.31 billion in FY2009. Including secondary economic impacts raises the total economic impact to \$3.7 billion. State-level effects included \$1.1 billion in additional retail trade activity and \$1.3 billion of economy-wide personal income. Retail trade activity would generate \$49.9 million in sales and use tax collections, and \$20 million of personal income tax revenues when the expenditures of the North Dakota University System and student spending are combined.

Institutions of higher education in North Dakota are influential in many perspectives. They help provide the state with an educated workforce ready to meet the challenges of an ever changing work environment. They provide outreach and continuing education programs for the state's residents and businesses. In addition to providing education, the state's universities and

colleges create and support jobs and employment opportunities through research, extension, and teaching activities. All these important services and products provide economic benefits which enhance local and state economies.

Essentially, the state's 11 University System colleges, universities, and supporting centers and facilities act as centers for local and regional economic development. The state's colleges and universities are able to leverage over \$2.50 from external sources for every dollar of state appropriated funds. Much of those non-appropriated funds come from outside sources, and could be considered new money to the state of North Dakota. Those dollars, along with appropriated funds, are dispersed within the state through purchase of services, inputs, and payroll that support university programs, events, and activities. In FY2009, these institutions employed over 11,000 workers, were educating over 43,400 headcount students (36,095 full-time equivalents), and their expenditures supported over 19,940 FTE secondary jobs.

The North Dakota University System has a strong economic presence in the state. The universities and colleges in the state continue to serve as example of the importance of higher education and the benefits that a strong University System can have on the quality of life in North Dakota.

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APPENDIX A

Expenditure and Student Enrollment Data, North Dakota University System Member Institutions, Fiscal Years 1999, 2004, 2006, 2008, and 2009 Appendix Table A1. Direct Economic Impacts from General and Non-general Fund Expenditures, North Dakota University System and Member Institutions, by Budget Category, and Allocation to the Input-Output Model Sectors, Fiscal Year 1999 (Current Year Dollars)

Daagot C	itogory, a	ila Alloca	ion to the	IIIput Out	put Mouc	occiois,	i iscai i ce					
BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	vcsu	wsc	SYSTEM	TOTAL
7,624,362	5,633,759	2,692,858	3,933,608	13,780,777	1,764,651	11,405,658	75,085,567	95,234,284	5,327,108	2,242,611	786,569	225,511,812
1,856,496	1,565,445	666,554	1,066,327	3,437,860	495,309	3,072,878	18,312,018	23,233,796	1,350,183	564,791	187,594	55,809,251
311,741	480,363	156,701	200,885	618,289	113,737	550,371	6,096,115	5,032,178	321,503	152,614	67,862	14,102,359
109,895	67,030	53,900	118,989	114,529	29,096	243,785	1,661,310	1,438,529	427,223	36,587	23,224	4,324,097
474,420	1,007,687	196,013	567,687	1,122,676	328,649	348,983	7,324,642	10,117,064	780,895	167,540	128,377	22,564,633
481,565	491,370	153,525	292,695	753,189	125,291	879,757	4,218,318	4,212,632	335,987	109,544		12,053,873
255,922	329,546	71,433	165,643	309,983	86,548	782,556	3,949,782	4,810,922	458,170	47,554	16,156	11,284,215
25,700	30,186	13,557	28,265	54,362	10,103	101,902	376,748	1,151,895	29,875	8,677	150	1,831,420
246,088	8,893	13,864	704,269	225,896	9,161	241,281	3,190,017	5,346,155	363,580	65,985	948	10,416,137
338,831	299,072	104,844	124,504	439,558	89,197	397,234	10,293,392	2,987,251	165,460	66,624	66,404	15,372,371
721,042	293,069	79,952	190,024	510,459	111,104	435,808		6,841,298	202,164	225,201	15,330	9,625,451
434,916	232,240	125,997	141,806	475,758	63,520	1,023,268		2,641,202	241,489	116,367	180,809	5,677,372
		45,028	90,488	316,079	19,110	210,160	889,989		194,601	1,225	9,944	1,776,624
906,895	400,876	335,963	292,487		101,176	2,007,713	11,533,334	18,428,685	282,908	406,173		34,696,210
308,845	595,803	85,007	194,265	428,991	29,747	942,152	4,650,159	17,067,743	199,955	123,402	4,966	24,631,035
1,938,131	1,965,302	940,073	838,810	2,959,876	707,881	2,572,791	9,964,304	12,793,931	1,299,853	1,096,413	3,082,734	40,160,099
435,588	230,959	128,197	125,127	456,290	144,343	1,413,991	2,777,946	2,452,843	208,580	165,224	1,549,000	10,088,088
525,987	437,571	161,197	140,197	707,930	105,248	870,754	1,731,519	1,275,680	326,479	185,369		6,467,931
916,398	869,272	722,973	209,806	3,375,092	241,840	3,066,092	5,580,589	10,342,136	841,460	363,440		26,529,098
17,912,822	14,938,443	6,747,636	9,425,882	30,087,594	4,575,711	30,567,134	167,635,749	225,408,224	13,357,473	6,145,341	6,120,067	532,922,076
BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	vcsu	wsc	SYSTEM	TOTAL
916,398	869,272	722,973	209,806	3,375,092	241,840	3,066,092	5,580,589	10,342,136	841,460	363,440	0	26,529,098
737,487	820,916	224,958	458,338	1,063,172	211,839	1,662,313	8,168,100	9,023,554	794,157	157,098	16,156	23,338,088
2,927,671	1,662,828	852,981	979,506	2,449,784	489,355	4,944,937	24,448,234	32,174,116	1,413,101	1,000,959	272,487	73,615,959
2,128,284	1,604,524	693,975	1,798,861	3,718,118	514,573	3,416,061	21,878,783	29,731,846	1,743,638	639,453	188,692	68,056,808
1,640,489	2,381,842	619,818	1,206,953	2,740,775	645,572	3,499,282	22,510,172	36,108,357	1,938,156	645,367	1,773,429	75,710,212
9,562,493	7,599,061	3,632,931	4,772,418	16,740,653	2,472,532	13,978,449	85,049,871	108,028,215	6,626,961	3,339,024	3,869,303	265,671,911
17,912,822	14,938,443	6,747,636	9,425,882	30,087,594	4,575,711	30,567,134	167,635,749	225,408,224	13,357,473	6,145,341	6,120,067	532,922,076
	8SC 7,624,362 1,856,496 311,741 109,895 474,420 481,565 255,922 25,700 246,088 338,831 721,042 434,916 906,895 308,845 1,938,131 435,588 525,987 916,398 17,912,822 BSC 916,398 737,487 2,927,671 2,128,284 1,640,489 9,562,493	BSC DSU 7,624,362 5,633,759 1,856,496 1,565,445 311,741 480,363 109,895 67,030 474,420 1,007,687 481,565 491,370 255,922 329,546 25,700 30,186 246,088 8,893 338,831 299,072 721,042 293,069 434,916 232,240 906,895 400,876 308,845 595,803 1,938,131 1,965,302 435,588 230,959 525,987 437,571 916,398 869,272 17,912,822 14,938,443 BSC DSU 916,398 869,272 737,487 820,916 2,927,671 1,662,828 2,128,284 1,604,524 1,640,489 2,381,842 9,562,493 7,599,061	BSC DSU LRSC 7,624,362 5,633,759 2,692,858 1,856,496 1,565,445 666,554 311,741 480,363 156,701 109,895 67,030 53,900 474,420 1,007,687 196,013 481,565 491,370 153,525 255,922 329,546 71,433 25,700 30,186 13,557 246,088 8,893 13,864 338,831 299,072 104,844 721,042 293,069 79,952 434,916 232,240 125,997 45,028 400,876 335,963 308,845 595,803 85,007 1,938,131 1,965,302 940,073 435,588 230,959 128,197 525,987 437,571 161,197 916,398 869,272 722,973 17,912,822 14,938,443 6,747,636 BSC DSU LRSC 916,398 869,272 722,973 </td <td>BSC DSU LRSC MaSU 7,624,362 5,633,759 2,692,858 3,933,608 1,856,496 1,565,445 666,554 1,066,327 311,741 480,363 156,701 200,885 109,895 67,030 53,900 118,989 474,420 1,007,687 196,013 567,687 481,565 491,370 153,525 292,695 255,922 329,546 71,433 165,643 25,700 30,186 13,557 28,265 246,088 8,893 13,864 704,269 338,831 299,072 104,844 124,504 721,042 293,069 79,952 190,024 434,916 232,240 125,997 141,806 906,895 400,876 335,963 292,487 308,845 595,803 85,007 194,265 1,938,131 1,965,302 940,073 838,810 435,588 230,959 128,197 125,127 525,98</td> <td>BSC DSU LRSC MaSU MiSU 7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,856,496 1,565,445 666,554 1,066,327 3,437,860 311,741 480,363 156,701 200,885 618,289 109,895 67,030 53,900 118,989 114,529 474,420 1,007,687 196,013 567,687 1,122,676 481,565 491,370 153,525 292,695 753,189 255,922 329,546 71,433 165,643 309,983 25,700 30,186 13,557 28,265 54,362 246,088 8,893 13,864 704,269 225,896 338,831 299,072 104,844 124,504 439,558 721,042 293,069 79,952 190,024 510,459 434,916 232,240 125,997 141,806 475,758 308,845 595,803 85,007 194,265 428,991 1,938,131</td> <td>BSC DSU LRSC MaSU MiSU DCB 7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,764,651 1,856,496 1,565,445 666,554 1,066,327 3,437,860 495,309 311,741 480,363 156,701 200,885 618,289 113,737 109,895 67,030 53,900 118,989 114,529 29,096 474,420 1,007,687 196,013 567,687 1,122,676 328,649 481,565 491,370 153,525 292,695 753,189 125,291 255,922 329,546 71,433 165,643 309,983 86,548 25,700 30,186 13,557 28,265 54,362 10,103 246,088 8,893 13,864 704,269 225,896 9,161 338,831 299,072 104,844 124,504 439,558 89,197 721,042 293,069 79,952 190,024 510,459 111,104 434,916<!--</td--><td>BSC DSU LRSC MaSU MISU DCB NDSCS 7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,764,651 11,405,658 1,856,496 1,565,445 666,554 1,066,327 3,437,860 495,309 3,072,878 311,741 480,363 156,701 200,885 618,289 113,737 550,371 109,895 67,030 53,900 118,989 114,529 29,096 243,785 474,420 1,007,687 196,013 567,687 1,122,676 328,649 348,983 481,565 491,370 153,525 292,695 753,189 125,291 879,757 255,922 329,546 71,433 165,643 309,983 86,548 782,556 25,700 30,186 13,557 28,265 54,362 10,103 101,902 246,088 8,893 13,864 704,269 225,896 9,161 241,281 338,831 299,072 104,844 124,504</td><td>BSC DSU LRSC MaSU MiSU DCB NDSCS NDSUS 7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,764,651 11,405,658 75,085,567 1,856,496 1,565,445 666,554 1,066,327 3,437,860 495,309 3,072,878 18,312,018 311,741 480,363 156,701 200,885 618,289 113,737 550,371 6,096,115 109,895 67,030 53,900 118,989 114,529 29,096 243,785 1,661,310 474,420 1,007,687 196,013 567,687 1,122,676 326,649 348,983 7,324,642 481,565 491,370 153,525 292,695 753,189 125,291 879,757 4,218,318 255,922 329,546 71,433 165,643 309,983 86,548 782,556 3,947,82 25,700 30,186 13,557 28,265 54,362 10,103 101,902 376,748 240,088 8,893</td><td>BSC DSU LRSC Masu Misu DCB NDSCS NDSU UND 7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,764,651 11,405,658 75,085,567 95,234,284 1,856,496 1,565,445 666,554 1,066,327 3,437,860 495,309 3,072,878 18,312,018 23,233,796 109,895 67,030 53,900 118,989 114,529 29,096 243,785 1,661,310 1,438,529 474,420 1,007,687 196,013 567,687 1,122,676 328,649 348,983 7,324,642 10,117,064 481,565 491,370 153,525 292,695 753,189 125,291 879,757 4,218,318 4,212,632 255,922 39,546 71,433 165,643 309,983 86,548 782,556 3,949,782 4,810,922 25,700 30,186 13,557 28,265 54,362 10,103 101,902 376,748 1,151,895 338,831 299,072 10</td><td> BSC DSU LRSC MaSU MiSU DCB NDSCS NDSU UND VCSU 7.624,362 5.633,759 2.692,858 3.933,608 13,780,777 1,764,651 11,405,658 75,085,567 95,234,284 5.327,108 1,856,496 1,565,445 666,554 1,066,327 3,437,860 495,309 3,072,878 18,312,018 23,233,796 1,350,183 311,741 480,363 156,701 200,885 618,288 113,737 550,371 6,096,115 5,032,178 321,503 109,895 67,030 53,900 118,989 114,529 29,996 243,785 1,661,310 1,438,529 427,223 474,420 1,007,687 196,013 567,687 1,122,676 328,649 348,983 7,324,642 10,117,064 780,895 481,565 491,370 153,525 292,695 753,189 125,291 879,757 4,218,318 4,212,632 335,987 255,922 329,546 71,433 165,643 309,983 86,548 782,556 3,949,782 4,810,922 458,170 25,700 30,186 13,557 28,265 54,362 10,103 101,902 376,748 1,151,895 29,875 246,088 8,893 13,864 704,269 225,896 9,161 241,281 3,190,017 5,346,155 363,580 338,831 299,072 104,844 124,504 439,558 89,197 397,234 10,293,392 2,987,251 165,460 721,042 293,069 79,952 190,024 510,459 111,104 435,808 6,841,298 202,164 434,916 232,240 125,997 141,806 475,758 63,520 10,23,688 89,998 2,641,202 241,489 308,845 595,803 86,007 194,266 428,991 29,747 942,152 4,650,159 17,067,743 199,955 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,64,304 12,793,391 1,299,853 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,391 1,299,853 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,391 1,299,853 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,391 1,299,853 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,391 1,299,853 1,338,148 4,448,244 3,444,245 3,444,245 </td><td>7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,764,651 11,405,658 75,085,567 95,234,284 5,327,108 2,242,611 1,856,496 1,565,445 666,544 1,066,327 3,437,860 495,309 3,072,878 18,312,018 23,233,796 1,350,183 564,791 311,741 480,363 156,701 200,885 618,289 113,737 550,371 5,006,61,15 5,032,178 321,503 152,614 109,895 67,030 53,900 118,898 114,529 29,096 243,785 1,661,310 1,438,529 427,223 36,587 474,420 1,007,687 196,013 567,687 1,122,676 328,649 348,933 7,324,642 10,117,064 780,895 167,540 481,566 491,370 153,525 292,695 753,189 125,291 879,757 4,218,318 4,212,632 335,987 109,544 255,922 329,546 71,433 165,643 309,983 86,548 782,556 4,944,947 24,184,184 1,151,895 29,875 8,677 246,088 8,893 13,864 704,269 225,996 9,161 241,241 3,190,017 5,346,155 363,580 65,985 338,831 299,072 104,844 124,504 439,558 89,197 397,234 10,293,392 2,987,251 165,460 66,624 721,042 293,069 79,952 190,024 510,459 111,104 435,808 6,841,298 202,164 225,201 434,916 232,240 125,997 141,806 475,758 63,520 1,023,268 2,641,202 241,489 116,367 308,845 595,803 85,007 194,265 428,991 29,747 942,152 4,650,159 17,067,743 199,955 123,402 1,938,131 1,965,502 940,073 838,810 2,959,976 707,881 2,572,791 9,964,304 12,793,931 1,299,853 1,096,413 345,588 809,72 722,973 209,806 3,375,092 241,840 3,066,092 5,580,589 10,342,136 841,460 363,440 373,487 866,986 869,272 722,973 209,806 3,375,092 241,840 3,066,092 5,580,589 10,342,136 841,460 363,440 373,447 822 14,938,443 6,747,636 9,425,882 30,087,594 4,575,711 30,567,134 167,635,749 225,408,224 13,357,473 6,145,341 88C 508,000 16 224,988 458,338 1,063,172 21,1840 3,066,092 5,580,589 10,342,136 841,460 363,440 373,447 820,916 224,988 458,338 1,063,172 21,189 1,662,33 3,164,087 10,082,215 6,62,696 3,339,024 4,575,99,61 3,630,391 4,772,418 16,640,653 2,472,532 13,978,449 85,049,871 108,028,215 6,62,66 13,339,024 4,650,391 1,662,343 7,599,061 3,632,391 4,772,418 16,640,653 2,472,532 13,976,449 85,049,871 108,028,215 6,626,661 3,339,024</td><td> BSC DSU LRSC MaSU MISU DCB NDSCS NDSU UND VCSU WSC SYSTEM T,624,362 5,633,759 2,692,868 3,933,080 13,780,777 1,764,661 11,405,658 75,085,567 95,234,224 5,327,108 2,242,611 786,569 311,741 480,363 156,701 200,885 618,289 113,737 550,371 6,096,115 5,032,178 321,503 152,614 67,862 109,895 67,030 53,900 118,989 114,529 29,996 243,785 1,661,310 1,438,529 427,223 36,587 23,224 474,420 1,007,887 196,013 567,687 1,122,676 332,649 348,983 7,324,642 101,170,64 780,985 167,540 128,377 481,565 491,370 153,525 292,695 753,189 125,291 879,767 4,218,318 4,212,632 335,987 109,544 255,922 329,546 71,433 165,643 309,983 86,548 782,556 3,349,782 4,810,922 458,170 47,554 16,156 246,088 8,893 13,864 704,269 225,896 9,161 241,281 3,190,017 5,346,155 363,560 65,985 948 338,831 299,072 104,844 124,504 439,558 89,197 397,234 10,293,392 2,987,251 165,460 66,624 66,404 721,042 293,069 79,952 190,024 510,459 111,104 435,808 62,412,02 241,489 116,567 180,809 433,968 230,999 128,197 149,266 426,991 297,477 49,158 437,598 230,899 128,197 125,127 456,290 144,343 143,991 2,777,916 2,452,843 20,890 430,876 335,963 292,487 101,176 2,007,713 11,533,334 14,486,605 226,208 406,173 193,8131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,931 1,299,853 1,096,413 3,082,734 435,588 230,999 128,197 125,127 456,290 144,343 144,1399 2,777,946 2,452,843 208,690 466,224 15,490,000 14,506 14,5</td></td>	BSC DSU LRSC MaSU 7,624,362 5,633,759 2,692,858 3,933,608 1,856,496 1,565,445 666,554 1,066,327 311,741 480,363 156,701 200,885 109,895 67,030 53,900 118,989 474,420 1,007,687 196,013 567,687 481,565 491,370 153,525 292,695 255,922 329,546 71,433 165,643 25,700 30,186 13,557 28,265 246,088 8,893 13,864 704,269 338,831 299,072 104,844 124,504 721,042 293,069 79,952 190,024 434,916 232,240 125,997 141,806 906,895 400,876 335,963 292,487 308,845 595,803 85,007 194,265 1,938,131 1,965,302 940,073 838,810 435,588 230,959 128,197 125,127 525,98	BSC DSU LRSC MaSU MiSU 7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,856,496 1,565,445 666,554 1,066,327 3,437,860 311,741 480,363 156,701 200,885 618,289 109,895 67,030 53,900 118,989 114,529 474,420 1,007,687 196,013 567,687 1,122,676 481,565 491,370 153,525 292,695 753,189 255,922 329,546 71,433 165,643 309,983 25,700 30,186 13,557 28,265 54,362 246,088 8,893 13,864 704,269 225,896 338,831 299,072 104,844 124,504 439,558 721,042 293,069 79,952 190,024 510,459 434,916 232,240 125,997 141,806 475,758 308,845 595,803 85,007 194,265 428,991 1,938,131	BSC DSU LRSC MaSU MiSU DCB 7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,764,651 1,856,496 1,565,445 666,554 1,066,327 3,437,860 495,309 311,741 480,363 156,701 200,885 618,289 113,737 109,895 67,030 53,900 118,989 114,529 29,096 474,420 1,007,687 196,013 567,687 1,122,676 328,649 481,565 491,370 153,525 292,695 753,189 125,291 255,922 329,546 71,433 165,643 309,983 86,548 25,700 30,186 13,557 28,265 54,362 10,103 246,088 8,893 13,864 704,269 225,896 9,161 338,831 299,072 104,844 124,504 439,558 89,197 721,042 293,069 79,952 190,024 510,459 111,104 434,916 </td <td>BSC DSU LRSC MaSU MISU DCB NDSCS 7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,764,651 11,405,658 1,856,496 1,565,445 666,554 1,066,327 3,437,860 495,309 3,072,878 311,741 480,363 156,701 200,885 618,289 113,737 550,371 109,895 67,030 53,900 118,989 114,529 29,096 243,785 474,420 1,007,687 196,013 567,687 1,122,676 328,649 348,983 481,565 491,370 153,525 292,695 753,189 125,291 879,757 255,922 329,546 71,433 165,643 309,983 86,548 782,556 25,700 30,186 13,557 28,265 54,362 10,103 101,902 246,088 8,893 13,864 704,269 225,896 9,161 241,281 338,831 299,072 104,844 124,504</td> <td>BSC DSU LRSC MaSU MiSU DCB NDSCS NDSUS 7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,764,651 11,405,658 75,085,567 1,856,496 1,565,445 666,554 1,066,327 3,437,860 495,309 3,072,878 18,312,018 311,741 480,363 156,701 200,885 618,289 113,737 550,371 6,096,115 109,895 67,030 53,900 118,989 114,529 29,096 243,785 1,661,310 474,420 1,007,687 196,013 567,687 1,122,676 326,649 348,983 7,324,642 481,565 491,370 153,525 292,695 753,189 125,291 879,757 4,218,318 255,922 329,546 71,433 165,643 309,983 86,548 782,556 3,947,82 25,700 30,186 13,557 28,265 54,362 10,103 101,902 376,748 240,088 8,893</td> <td>BSC DSU LRSC Masu Misu DCB NDSCS NDSU UND 7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,764,651 11,405,658 75,085,567 95,234,284 1,856,496 1,565,445 666,554 1,066,327 3,437,860 495,309 3,072,878 18,312,018 23,233,796 109,895 67,030 53,900 118,989 114,529 29,096 243,785 1,661,310 1,438,529 474,420 1,007,687 196,013 567,687 1,122,676 328,649 348,983 7,324,642 10,117,064 481,565 491,370 153,525 292,695 753,189 125,291 879,757 4,218,318 4,212,632 255,922 39,546 71,433 165,643 309,983 86,548 782,556 3,949,782 4,810,922 25,700 30,186 13,557 28,265 54,362 10,103 101,902 376,748 1,151,895 338,831 299,072 10</td> <td> BSC DSU LRSC MaSU MiSU DCB NDSCS NDSU UND VCSU 7.624,362 5.633,759 2.692,858 3.933,608 13,780,777 1,764,651 11,405,658 75,085,567 95,234,284 5.327,108 1,856,496 1,565,445 666,554 1,066,327 3,437,860 495,309 3,072,878 18,312,018 23,233,796 1,350,183 311,741 480,363 156,701 200,885 618,288 113,737 550,371 6,096,115 5,032,178 321,503 109,895 67,030 53,900 118,989 114,529 29,996 243,785 1,661,310 1,438,529 427,223 474,420 1,007,687 196,013 567,687 1,122,676 328,649 348,983 7,324,642 10,117,064 780,895 481,565 491,370 153,525 292,695 753,189 125,291 879,757 4,218,318 4,212,632 335,987 255,922 329,546 71,433 165,643 309,983 86,548 782,556 3,949,782 4,810,922 458,170 25,700 30,186 13,557 28,265 54,362 10,103 101,902 376,748 1,151,895 29,875 246,088 8,893 13,864 704,269 225,896 9,161 241,281 3,190,017 5,346,155 363,580 338,831 299,072 104,844 124,504 439,558 89,197 397,234 10,293,392 2,987,251 165,460 721,042 293,069 79,952 190,024 510,459 111,104 435,808 6,841,298 202,164 434,916 232,240 125,997 141,806 475,758 63,520 10,23,688 89,998 2,641,202 241,489 308,845 595,803 86,007 194,266 428,991 29,747 942,152 4,650,159 17,067,743 199,955 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,64,304 12,793,391 1,299,853 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,391 1,299,853 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,391 1,299,853 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,391 1,299,853 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,391 1,299,853 1,338,148 4,448,244 3,444,245 3,444,245 </td> <td>7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,764,651 11,405,658 75,085,567 95,234,284 5,327,108 2,242,611 1,856,496 1,565,445 666,544 1,066,327 3,437,860 495,309 3,072,878 18,312,018 23,233,796 1,350,183 564,791 311,741 480,363 156,701 200,885 618,289 113,737 550,371 5,006,61,15 5,032,178 321,503 152,614 109,895 67,030 53,900 118,898 114,529 29,096 243,785 1,661,310 1,438,529 427,223 36,587 474,420 1,007,687 196,013 567,687 1,122,676 328,649 348,933 7,324,642 10,117,064 780,895 167,540 481,566 491,370 153,525 292,695 753,189 125,291 879,757 4,218,318 4,212,632 335,987 109,544 255,922 329,546 71,433 165,643 309,983 86,548 782,556 4,944,947 24,184,184 1,151,895 29,875 8,677 246,088 8,893 13,864 704,269 225,996 9,161 241,241 3,190,017 5,346,155 363,580 65,985 338,831 299,072 104,844 124,504 439,558 89,197 397,234 10,293,392 2,987,251 165,460 66,624 721,042 293,069 79,952 190,024 510,459 111,104 435,808 6,841,298 202,164 225,201 434,916 232,240 125,997 141,806 475,758 63,520 1,023,268 2,641,202 241,489 116,367 308,845 595,803 85,007 194,265 428,991 29,747 942,152 4,650,159 17,067,743 199,955 123,402 1,938,131 1,965,502 940,073 838,810 2,959,976 707,881 2,572,791 9,964,304 12,793,931 1,299,853 1,096,413 345,588 809,72 722,973 209,806 3,375,092 241,840 3,066,092 5,580,589 10,342,136 841,460 363,440 373,487 866,986 869,272 722,973 209,806 3,375,092 241,840 3,066,092 5,580,589 10,342,136 841,460 363,440 373,447 822 14,938,443 6,747,636 9,425,882 30,087,594 4,575,711 30,567,134 167,635,749 225,408,224 13,357,473 6,145,341 88C 508,000 16 224,988 458,338 1,063,172 21,1840 3,066,092 5,580,589 10,342,136 841,460 363,440 373,447 820,916 224,988 458,338 1,063,172 21,189 1,662,33 3,164,087 10,082,215 6,62,696 3,339,024 4,575,99,61 3,630,391 4,772,418 16,640,653 2,472,532 13,978,449 85,049,871 108,028,215 6,62,66 13,339,024 4,650,391 1,662,343 7,599,061 3,632,391 4,772,418 16,640,653 2,472,532 13,976,449 85,049,871 108,028,215 6,626,661 3,339,024</td> <td> BSC DSU LRSC MaSU MISU DCB NDSCS NDSU UND VCSU WSC SYSTEM T,624,362 5,633,759 2,692,868 3,933,080 13,780,777 1,764,661 11,405,658 75,085,567 95,234,224 5,327,108 2,242,611 786,569 311,741 480,363 156,701 200,885 618,289 113,737 550,371 6,096,115 5,032,178 321,503 152,614 67,862 109,895 67,030 53,900 118,989 114,529 29,996 243,785 1,661,310 1,438,529 427,223 36,587 23,224 474,420 1,007,887 196,013 567,687 1,122,676 332,649 348,983 7,324,642 101,170,64 780,985 167,540 128,377 481,565 491,370 153,525 292,695 753,189 125,291 879,767 4,218,318 4,212,632 335,987 109,544 255,922 329,546 71,433 165,643 309,983 86,548 782,556 3,349,782 4,810,922 458,170 47,554 16,156 246,088 8,893 13,864 704,269 225,896 9,161 241,281 3,190,017 5,346,155 363,560 65,985 948 338,831 299,072 104,844 124,504 439,558 89,197 397,234 10,293,392 2,987,251 165,460 66,624 66,404 721,042 293,069 79,952 190,024 510,459 111,104 435,808 62,412,02 241,489 116,567 180,809 433,968 230,999 128,197 149,266 426,991 297,477 49,158 437,598 230,899 128,197 125,127 456,290 144,343 143,991 2,777,916 2,452,843 20,890 430,876 335,963 292,487 101,176 2,007,713 11,533,334 14,486,605 226,208 406,173 193,8131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,931 1,299,853 1,096,413 3,082,734 435,588 230,999 128,197 125,127 456,290 144,343 144,1399 2,777,946 2,452,843 208,690 466,224 15,490,000 14,506 14,5</td>	BSC DSU LRSC MaSU MISU DCB NDSCS 7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,764,651 11,405,658 1,856,496 1,565,445 666,554 1,066,327 3,437,860 495,309 3,072,878 311,741 480,363 156,701 200,885 618,289 113,737 550,371 109,895 67,030 53,900 118,989 114,529 29,096 243,785 474,420 1,007,687 196,013 567,687 1,122,676 328,649 348,983 481,565 491,370 153,525 292,695 753,189 125,291 879,757 255,922 329,546 71,433 165,643 309,983 86,548 782,556 25,700 30,186 13,557 28,265 54,362 10,103 101,902 246,088 8,893 13,864 704,269 225,896 9,161 241,281 338,831 299,072 104,844 124,504	BSC DSU LRSC MaSU MiSU DCB NDSCS NDSUS 7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,764,651 11,405,658 75,085,567 1,856,496 1,565,445 666,554 1,066,327 3,437,860 495,309 3,072,878 18,312,018 311,741 480,363 156,701 200,885 618,289 113,737 550,371 6,096,115 109,895 67,030 53,900 118,989 114,529 29,096 243,785 1,661,310 474,420 1,007,687 196,013 567,687 1,122,676 326,649 348,983 7,324,642 481,565 491,370 153,525 292,695 753,189 125,291 879,757 4,218,318 255,922 329,546 71,433 165,643 309,983 86,548 782,556 3,947,82 25,700 30,186 13,557 28,265 54,362 10,103 101,902 376,748 240,088 8,893	BSC DSU LRSC Masu Misu DCB NDSCS NDSU UND 7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,764,651 11,405,658 75,085,567 95,234,284 1,856,496 1,565,445 666,554 1,066,327 3,437,860 495,309 3,072,878 18,312,018 23,233,796 109,895 67,030 53,900 118,989 114,529 29,096 243,785 1,661,310 1,438,529 474,420 1,007,687 196,013 567,687 1,122,676 328,649 348,983 7,324,642 10,117,064 481,565 491,370 153,525 292,695 753,189 125,291 879,757 4,218,318 4,212,632 255,922 39,546 71,433 165,643 309,983 86,548 782,556 3,949,782 4,810,922 25,700 30,186 13,557 28,265 54,362 10,103 101,902 376,748 1,151,895 338,831 299,072 10	BSC DSU LRSC MaSU MiSU DCB NDSCS NDSU UND VCSU 7.624,362 5.633,759 2.692,858 3.933,608 13,780,777 1,764,651 11,405,658 75,085,567 95,234,284 5.327,108 1,856,496 1,565,445 666,554 1,066,327 3,437,860 495,309 3,072,878 18,312,018 23,233,796 1,350,183 311,741 480,363 156,701 200,885 618,288 113,737 550,371 6,096,115 5,032,178 321,503 109,895 67,030 53,900 118,989 114,529 29,996 243,785 1,661,310 1,438,529 427,223 474,420 1,007,687 196,013 567,687 1,122,676 328,649 348,983 7,324,642 10,117,064 780,895 481,565 491,370 153,525 292,695 753,189 125,291 879,757 4,218,318 4,212,632 335,987 255,922 329,546 71,433 165,643 309,983 86,548 782,556 3,949,782 4,810,922 458,170 25,700 30,186 13,557 28,265 54,362 10,103 101,902 376,748 1,151,895 29,875 246,088 8,893 13,864 704,269 225,896 9,161 241,281 3,190,017 5,346,155 363,580 338,831 299,072 104,844 124,504 439,558 89,197 397,234 10,293,392 2,987,251 165,460 721,042 293,069 79,952 190,024 510,459 111,104 435,808 6,841,298 202,164 434,916 232,240 125,997 141,806 475,758 63,520 10,23,688 89,998 2,641,202 241,489 308,845 595,803 86,007 194,266 428,991 29,747 942,152 4,650,159 17,067,743 199,955 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,64,304 12,793,391 1,299,853 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,391 1,299,853 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,391 1,299,853 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,391 1,299,853 1,338,131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,391 1,299,853 1,338,148 4,448,244 3,444,245 3,444,245	7,624,362 5,633,759 2,692,858 3,933,608 13,780,777 1,764,651 11,405,658 75,085,567 95,234,284 5,327,108 2,242,611 1,856,496 1,565,445 666,544 1,066,327 3,437,860 495,309 3,072,878 18,312,018 23,233,796 1,350,183 564,791 311,741 480,363 156,701 200,885 618,289 113,737 550,371 5,006,61,15 5,032,178 321,503 152,614 109,895 67,030 53,900 118,898 114,529 29,096 243,785 1,661,310 1,438,529 427,223 36,587 474,420 1,007,687 196,013 567,687 1,122,676 328,649 348,933 7,324,642 10,117,064 780,895 167,540 481,566 491,370 153,525 292,695 753,189 125,291 879,757 4,218,318 4,212,632 335,987 109,544 255,922 329,546 71,433 165,643 309,983 86,548 782,556 4,944,947 24,184,184 1,151,895 29,875 8,677 246,088 8,893 13,864 704,269 225,996 9,161 241,241 3,190,017 5,346,155 363,580 65,985 338,831 299,072 104,844 124,504 439,558 89,197 397,234 10,293,392 2,987,251 165,460 66,624 721,042 293,069 79,952 190,024 510,459 111,104 435,808 6,841,298 202,164 225,201 434,916 232,240 125,997 141,806 475,758 63,520 1,023,268 2,641,202 241,489 116,367 308,845 595,803 85,007 194,265 428,991 29,747 942,152 4,650,159 17,067,743 199,955 123,402 1,938,131 1,965,502 940,073 838,810 2,959,976 707,881 2,572,791 9,964,304 12,793,931 1,299,853 1,096,413 345,588 809,72 722,973 209,806 3,375,092 241,840 3,066,092 5,580,589 10,342,136 841,460 363,440 373,487 866,986 869,272 722,973 209,806 3,375,092 241,840 3,066,092 5,580,589 10,342,136 841,460 363,440 373,447 822 14,938,443 6,747,636 9,425,882 30,087,594 4,575,711 30,567,134 167,635,749 225,408,224 13,357,473 6,145,341 88C 508,000 16 224,988 458,338 1,063,172 21,1840 3,066,092 5,580,589 10,342,136 841,460 363,440 373,447 820,916 224,988 458,338 1,063,172 21,189 1,662,33 3,164,087 10,082,215 6,62,696 3,339,024 4,575,99,61 3,630,391 4,772,418 16,640,653 2,472,532 13,978,449 85,049,871 108,028,215 6,62,66 13,339,024 4,650,391 1,662,343 7,599,061 3,632,391 4,772,418 16,640,653 2,472,532 13,976,449 85,049,871 108,028,215 6,626,661 3,339,024	BSC DSU LRSC MaSU MISU DCB NDSCS NDSU UND VCSU WSC SYSTEM T,624,362 5,633,759 2,692,868 3,933,080 13,780,777 1,764,661 11,405,658 75,085,567 95,234,224 5,327,108 2,242,611 786,569 311,741 480,363 156,701 200,885 618,289 113,737 550,371 6,096,115 5,032,178 321,503 152,614 67,862 109,895 67,030 53,900 118,989 114,529 29,996 243,785 1,661,310 1,438,529 427,223 36,587 23,224 474,420 1,007,887 196,013 567,687 1,122,676 332,649 348,983 7,324,642 101,170,64 780,985 167,540 128,377 481,565 491,370 153,525 292,695 753,189 125,291 879,767 4,218,318 4,212,632 335,987 109,544 255,922 329,546 71,433 165,643 309,983 86,548 782,556 3,349,782 4,810,922 458,170 47,554 16,156 246,088 8,893 13,864 704,269 225,896 9,161 241,281 3,190,017 5,346,155 363,560 65,985 948 338,831 299,072 104,844 124,504 439,558 89,197 397,234 10,293,392 2,987,251 165,460 66,624 66,404 721,042 293,069 79,952 190,024 510,459 111,104 435,808 62,412,02 241,489 116,567 180,809 433,968 230,999 128,197 149,266 426,991 297,477 49,158 437,598 230,899 128,197 125,127 456,290 144,343 143,991 2,777,916 2,452,843 20,890 430,876 335,963 292,487 101,176 2,007,713 11,533,334 14,486,605 226,208 406,173 193,8131 1,965,302 940,073 838,810 2,959,876 707,881 2,572,791 9,964,304 12,793,931 1,299,853 1,096,413 3,082,734 435,588 230,999 128,197 125,127 456,290 144,343 144,1399 2,777,946 2,452,843 208,690 466,224 15,490,000 14,506 14,5

Appendix Table A2. Direct Economic Impacts from General and Non-general Fund Expenditures, North Dakota University System and Member													
Institutions, by Budget Category, and Allocation to the Input-Output Model Sectors, Fiscal Year 2004 (Current Year Dollars)													

Baaget G	atogo. y, a	11a / 11100a		input Cut	pat meae	0000013,	1 15001 1 00	11 2007 (Oc	irronic rou	- Domaro,		
BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	VCSU	wsc	SYSTEM	TOTAL
10,677,953	8,449,508	3,875,177	5,107,680	18,289,339	2,071,683	13,102,386	108,330,752	138,411,786	6,200,614	3,181,196	1,140,167	318,838,241
3,075,352	2,227,221	1,104,810	1,748,436	5,064,750	684,626	4,044,488	28,633,198	35,890,600	1,979,661	969,707	294,735	85,717,584
528,006	897,347	230,405	343,727	1,066,284	133,337	682,995	8,740,074	7,964,347	299,950	225,241	81,876	21,193,589
175,041	168,212	74,382	139,673	277,341	44,941	205,964	3,573,584	2,476,813	438,545	32,761	18,225	7,625,482
1,937,574	1,519,806	565,394	17,311	1,894,896	400,357	976,164	14,816,581	15,756,380	73,682	417,180	516,118	38,891,443
513,452	704,119	251,062	354,274	865,867	153,410	1,064,866	5,849,285	5,510,969	330,980	181,683		15,779,967
195,012	265,110	81,955	73,800	400,092	87,587	772,948	4,335,990	4,402,881	340,817	74,100	20,141	11,050,433
85,849	77,046	35,117	52,517	105,135	21,761	111,411	762,310	2,085,877	62,215	23,396	2,933	3,425,567
522,825	246,343	37,246	56,662	99,326	49,545	221,126	3,466,018	9,449,143	594,423	52,256	13,923	14,808,836
485,438	617,193	112,590	235,539	507,815	129,328	540,853	14,203,920	3,728,638	212,103	119,034	75,807	20,968,258
422,027	496,188	86,098	283,568	519,378	139,117	499,540		14,328,562	216,850	328,271	10,289	17,329,888
565,110	264,664	132,458	134,743	490,796	64,094	1,304,529		3,468,160	231,908	108,646	389,487	7,154,595
249,205	304,200	24,414	121,542	289,763	63,675	440,677	1,324,452		79,110	78,100	6,323	2,981,461
1,556,688	730,626	400,252	416,502		160,204	2,308,280	15,020,855	11,157,239	439,836	594,473		32,784,955
394,657	305,344	119,440	206,538	586,510	24,260	940,302	5,679,687	11,422,354	274,585	105,679	4,303	20,063,659
3,469,368	3,480,444	1,099,405	1,292,335	4,416,501	836,697	3,529,367	19,394,720	18,798,594	1,507,728	1,720,918	3,228,405	62,774,482
1,680,689	387,487	199,696	1,323,736	2,876,076	124,510	2,698,206	3,030,301	4,529,810	1,166,469	667,931	6,156,061	24,840,972
784,843	174,559	117,625	93,314	981,695	44,070	448,812	1,397,785	510,359	149,726	89,794		4,792,582
365,648	1,696,081	695,976	3,778,013	670,525	116,870	757,340	20,138,649	25,177,798	2,423,340	1,117,152	5,305,869	62,243,261
							(11,945,358)					(11,945,358)
27,684,737	23,011,498	9,243,502	15,779,910	39,402,089	5,350,072	34,650,254	246,752,803	315,070,310	17,022,542	10,087,518	17,264,662	761,319,897
BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	vcsu	WSC	SYSTEM	TOTAL
365,648	1,696,081	695,976	3,778,013	670,525	116,870	757,340	20,138,649	25,177,798	2,423,340	1,117,152		62,243,261
708,464	969,229	333,017	428,074	1,265,959	240,997	1,837,814	10,185,275	9,913,850	671,797	255,783	20,141	26,830,400
4,063,311	2,587,430	873,437	1,285,208	2,789,447	600,488	5,542,691	20,001,654	33,192,958	1,329,533	1,318,318	481,906	74,066,381
3,684,026	2,550,610	1,177,173	1,857,615	5,269,211	755,932	4,377,025	32,861,526	47,425,620	2,636,299	1,045,359	5,617,460	103,951,987
4,715,967	3,278,196	1,189,317	2,030,985	6,701,107	727,405	5,503,631	35,840,227	42,149,704	2,253,231	1,448,792	6,776,583	112,615,145
14,147,321	11,929,952	4,974,582	6,400,015	22,705,840	2,908,380	16,631,753	127,725,472	157,210,380	7,708,342	4,902,114	4,368,572	381,612,723
27,684,737	23,011,498	9,243,502	15,779,910	39,402,089	5,350,072	34,650,254	246,752,803	315,070,310	17,022,542	10,087,518	17,264,662	761,319,897
	BSC 10,677,953 3,075,352 528,006 175,041 1,937,574 513,452 195,012 85,849 522,825 485,438 422,027 565,110 249,205 1,556,688 394,657 3,469,368 1,680,689 784,843 365,648 27,684,737 BSC 365,648 708,464 4,063,311 3,684,026 4,715,967 14,147,321	BSC DSU 10,677,953 8,449,508 3,075,352 2,227,221 528,006 897,347 175,041 168,212 1,937,574 1,519,806 513,452 704,119 195,012 265,110 85,849 77,046 522,825 246,343 485,438 617,193 422,027 496,188 565,110 264,664 249,205 304,200 1,556,688 730,626 394,657 305,344 3,469,368 3,480,444 1,680,689 387,487 784,843 174,559 365,648 1,696,081 27,684,737 23,011,498 BSC DSU 365,648 1,696,081 708,464 969,229 4,063,311 2,587,430 3,684,026 2,550,610 4,715,967 3,278,196 14,147,321 11,929,952	BSC DSU LRSC 10,677,953 8,449,508 3,875,177 3,075,352 2,227,221 1,104,810 528,006 897,347 230,405 175,041 168,212 74,382 1,937,574 1,519,806 565,394 513,452 704,119 251,062 195,012 265,110 81,955 85,849 77,046 35,117 522,825 246,343 37,246 485,438 617,193 112,590 422,027 496,188 86,098 565,110 264,664 132,458 249,205 304,200 24,414 1,556,688 730,626 400,252 394,657 305,344 119,440 3,469,368 3,480,444 1,099,405 1,680,689 387,487 199,696 784,843 174,559 117,625 365,648 1,696,081 695,976 27,684,737 23,011,498 9,243,502 BSC DSU	BSC DSU LRSC MaSU 10,677,953 8,449,508 3,875,177 5,107,680 3,075,352 2,227,221 1,104,810 1,748,436 528,006 897,347 230,405 343,727 175,041 168,212 74,382 139,673 1,937,574 1,519,806 565,394 17,311 513,452 704,119 251,062 354,274 195,012 265,110 81,955 73,800 85,849 77,046 35,117 52,517 522,825 246,343 37,246 56,662 485,438 617,193 112,590 235,539 422,027 496,188 86,098 283,568 565,110 264,664 132,458 134,743 249,205 304,200 24,414 121,542 1,556,688 730,626 400,252 416,502 394,657 305,344 119,440 206,538 3,469,368 3,480,444 1,099,405 1,292,335	BSC DSU LRSC MaSU MiSU 10,677,953 8,449,508 3,875,177 5,107,680 18,289,339 3,075,352 2,227,221 1,104,810 1,748,436 5,064,750 528,006 897,347 230,405 343,727 1,066,284 175,041 168,212 74,382 139,673 277,341 1,937,574 1,519,806 565,394 17,311 1,894,896 513,452 704,119 251,062 354,274 865,867 195,012 265,110 81,955 73,800 400,092 85,849 77,046 35,117 52,517 105,135 522,825 246,343 37,246 56,662 99,326 485,438 617,193 112,590 235,539 507,815 422,027 496,188 86,098 283,568 519,378 565,110 264,664 132,458 134,743 490,796 249,205 304,200 24,414 121,542 289,763 1,556,6	BSC DSU LRSC MaSU MiSU DCB 10,677,953 8,449,508 3,875,177 5,107,680 18,289,339 2,071,683 3,075,352 2,227,221 1,104,810 1,748,436 5,064,750 684,626 528,006 897,347 230,405 343,727 1,066,284 133,337 175,041 168,212 74,382 139,673 277,341 44,941 1,937,574 1,519,806 565,394 17,311 1,894,896 400,357 513,452 704,119 251,062 354,274 865,867 153,410 195,012 265,110 81,955 73,800 400,092 87,587 85,849 77,046 35,117 52,517 105,135 21,761 522,825 246,343 37,246 56,662 99,326 49,545 485,438 617,193 112,590 235,539 507,815 129,328 422,027 496,188 86,098 283,568 519,378 139,117	BSC DSU LRSC MaSU MiSU DCB NDSCS 10,677,953 8,449,508 3,875,177 5,107,680 18,289,339 2,071,683 13,102,386 3,075,352 2,227,221 1,104,810 1,748,436 5,064,750 684,626 4,044,488 528,006 897,347 230,405 343,727 1,066,284 133,337 682,995 175,041 168,212 74,382 139,673 277,341 44,941 205,964 1,937,574 1,519,806 565,394 17,311 1,894,896 400,357 976,164 513,452 704,119 251,062 354,274 865,867 153,410 1,064,866 195,012 265,110 81,955 73,800 400,092 87,587 778,948 85,849 77,046 35,117 52,517 105,135 21,761 111,411 522,825 246,343 37,246 56,662 99,326 49,545 221,126 485,438 617,193 112,590 235,539	BSC DSU LRSC MaSU MiSU DCB NDSCS NDSU 10,677,953 8,449,508 3,875,177 5,107,680 18,289,339 2,071,683 13,102,386 108,330,752 3,075,352 2,227,221 1,104,810 1,748,436 5,064,750 684,626 4,044,488 28,633,198 528,006 897,347 230,405 343,727 1,066,284 133,337 682,995 8,740,074 175,041 168,212 74,382 139,673 277,341 44,941 205,964 3,573,584 1,937,574 1,519,806 565,394 17,311 1,894,896 400,957 976,164 14,816,581 513,452 704,119 251,062 354,274 865,867 153,410 1,064,866 5,849,285 195,012 265,110 81,955 73,800 400,092 87,587 772,948 4,335,990 85,849 77,046 35,117 52,517 105,135 21,761 111,411 762,310 522,825 246,343 3	BSC DSU LRSC MaSU MISU DCB NDSCS NDSU UND 10,677,953 8,449,508 3,875,177 5,107,680 18,289,339 2,071,683 13,102,386 108,330,752 138,411,786 3,075,352 2,227,221 1,104,810 1,748,436 5,064,750 684,626 4,044,488 28,633,198 35,890,600 528,006 897,347 230,405 343,727 1,066,284 133,337 682,995 8,740,074 7,964,347 175,041 168,212 74,382 139,673 277,341 44,941 205,964 3,573,584 2,476,813 1,937,574 1,519,806 565,394 17,311 1,894,896 400,357 976,164 14,816,581 15,756,380 513,452 704,119 251,062 354,274 865,867 153,410 1,064,866 5,849,285 5,510,969 195,012 265,110 81,955 73,800 400,092 87,587 772,948 4,335,990 4,402,881 85,849 77,046 </td <td> BSC DSU LRSC MaSU MISU DCB NDSCS NDSU UND VCSU 10.677,953 8,449,508 3,875,177 5,107,680 18,289,339 2,071,683 13,102,386 108,30752 138,417,86 6,200,614 3,075,352 2,227,221 1,104,810 1,748,436 5,064,750 684,626 4,044,488 28,633,198 35,890,600 1,979,661 528,006 897,347 230,405 343,727 1,066,284 133,337 682,995 8,740,074 7,964,347 299,950 175,041 168,212 74,382 139,673 277,341 44,941 205,964 3,573,584 2,476,813 438,545 1,937,574 1,519,806 565,394 17,311 1,1984,996 400,357 976,164 14,816,581 15,756,380 73,682 513,452 704,119 251,062 354,274 865,867 153,410 1,064,866 5,849,285 5,510,969 330,980 195,012 265,110 81,955 73,800 400,092 87,587 772,948 4,335,990 4,402,881 340,817 85,849 77,046 35,117 52,517 105,135 21,761 111,411 762,310 2,085,877 62,215 522,825 246,343 37,246 56,662 99,326 49,545 221,126 3,466,018 9,449,143 594,423 422,027 496,188 86,098 283,568 519,378 139,117 499,540 14,328,562 216,850 555,110 264,664 132,458 134,743 490,796 64,094 1,304,529 3,468,160 231,908 249,205 304,200 24,414 121,542 289,763 63,675 440,677 1,324,452 79,110 1,556,688 730,626 400,252 416,502 160,204 2,308,280 15,020,855 11,157,239 439,836 349,657 305,344 119,440 206,538 566,510 24,260 940,302 5,679,687 11,422,354 274,585 3,469,368 3,480,444 1,099,405 1,292,336 4,416,501 836,697 352,9367 13,347,720 18,799,594 1,507,728 365,648 1,696,081 695,976 3,778,013 670,525 116,870 757,340 20,138,649 25,177,796 2,423,340 708,648 1,696,081 695,976 3,778,013 670,525 116,870 757,340 20,138,649 25,177,796 2,423,340 708,648 16,696,081 695,976 3,778,013 670,525 116,870 757,340 20,138,649 25,177,796 2,423,340 708,648 16,606,081 695,976 3,778,013 670,525 116,870 757,340 20</td> <td> 10,677,953</td> <td> BSC DSU LRSC MaSU MISU DCB NDSCS NDSU UND VCSU WSC SYSTEM 10.677.953 8.449,508 3.875.177 5.107,680 18.280,339 2.071.683 13.102.386 108.330,752 138,411,786 6.200.614 3.181,196 1.140,167 3.075,552 2.227,221 1.104,810 1.748,436 5.064,750 684,626 4.044,488 28.683,198 35.890,600 1.979,661 969,707 294,735 528,006 897,347 230,405 343,727 1.066,284 133,337 682,995 8.740,074 7.964,347 299,950 225,241 81,876 175,041 168,212 74,382 139,973 277,341 44,941 205,564 3.573,584 2.476,813 488,545 3.2761 18,225 1.393,757 1.519,806 565,394 17,311 1.894,896 400,357 976,164 14,816,581 15,756,380 73,682 417,180 516,118 513,452 704,119 251,062 354,274 865,867 153,410 1.064,866 5,849,285 5,510,969 330,980 181,683 195,012 265,110 81,955 73,800 400,092 87,587 772,948 43,359,90 4,402,881 340,817 74,100 20,141 88,849 77,046 35,117 52,517 105,135 21,761 111,411 762,310 2,068,877 62,215 23,396 2,933 522,825 246,343 37,246 56,662 93,326 49,545 221,126 3,466,018 9,449,143 554,423 552,256 13,923 485,436 617,193 112,590 235,539 507,815 129,328 540,835 14,203,920 3,728,638 212,103 119,034 75,607 422,027 496,188 86,098 283,568 519,378 139,117 499,540 14,328,562 216,860 328,271 10,298 565,110 284,664 132,458 134,743 490,796 64,094 1,304,524 3,488,160 231,908 108,646 389,487 249,205 304,200 24,141 421,542 289,763 63,675 440,677 1,324,452 79,110 78,100 6,323 346,664 32,458 134,743 490,796 64,094 1,304,524 3,488,160 231,908 108,646 389,487 249,205 304,200 24,144 421,542 289,763 63,675 440,677 1,324,452 79,110 78,100 78,1</td>	BSC DSU LRSC MaSU MISU DCB NDSCS NDSU UND VCSU 10.677,953 8,449,508 3,875,177 5,107,680 18,289,339 2,071,683 13,102,386 108,30752 138,417,86 6,200,614 3,075,352 2,227,221 1,104,810 1,748,436 5,064,750 684,626 4,044,488 28,633,198 35,890,600 1,979,661 528,006 897,347 230,405 343,727 1,066,284 133,337 682,995 8,740,074 7,964,347 299,950 175,041 168,212 74,382 139,673 277,341 44,941 205,964 3,573,584 2,476,813 438,545 1,937,574 1,519,806 565,394 17,311 1,1984,996 400,357 976,164 14,816,581 15,756,380 73,682 513,452 704,119 251,062 354,274 865,867 153,410 1,064,866 5,849,285 5,510,969 330,980 195,012 265,110 81,955 73,800 400,092 87,587 772,948 4,335,990 4,402,881 340,817 85,849 77,046 35,117 52,517 105,135 21,761 111,411 762,310 2,085,877 62,215 522,825 246,343 37,246 56,662 99,326 49,545 221,126 3,466,018 9,449,143 594,423 422,027 496,188 86,098 283,568 519,378 139,117 499,540 14,328,562 216,850 555,110 264,664 132,458 134,743 490,796 64,094 1,304,529 3,468,160 231,908 249,205 304,200 24,414 121,542 289,763 63,675 440,677 1,324,452 79,110 1,556,688 730,626 400,252 416,502 160,204 2,308,280 15,020,855 11,157,239 439,836 349,657 305,344 119,440 206,538 566,510 24,260 940,302 5,679,687 11,422,354 274,585 3,469,368 3,480,444 1,099,405 1,292,336 4,416,501 836,697 352,9367 13,347,720 18,799,594 1,507,728 365,648 1,696,081 695,976 3,778,013 670,525 116,870 757,340 20,138,649 25,177,796 2,423,340 708,648 1,696,081 695,976 3,778,013 670,525 116,870 757,340 20,138,649 25,177,796 2,423,340 708,648 16,696,081 695,976 3,778,013 670,525 116,870 757,340 20,138,649 25,177,796 2,423,340 708,648 16,606,081 695,976 3,778,013 670,525 116,870 757,340 20	10,677,953	BSC DSU LRSC MaSU MISU DCB NDSCS NDSU UND VCSU WSC SYSTEM 10.677.953 8.449,508 3.875.177 5.107,680 18.280,339 2.071.683 13.102.386 108.330,752 138,411,786 6.200.614 3.181,196 1.140,167 3.075,552 2.227,221 1.104,810 1.748,436 5.064,750 684,626 4.044,488 28.683,198 35.890,600 1.979,661 969,707 294,735 528,006 897,347 230,405 343,727 1.066,284 133,337 682,995 8.740,074 7.964,347 299,950 225,241 81,876 175,041 168,212 74,382 139,973 277,341 44,941 205,564 3.573,584 2.476,813 488,545 3.2761 18,225 1.393,757 1.519,806 565,394 17,311 1.894,896 400,357 976,164 14,816,581 15,756,380 73,682 417,180 516,118 513,452 704,119 251,062 354,274 865,867 153,410 1.064,866 5,849,285 5,510,969 330,980 181,683 195,012 265,110 81,955 73,800 400,092 87,587 772,948 43,359,90 4,402,881 340,817 74,100 20,141 88,849 77,046 35,117 52,517 105,135 21,761 111,411 762,310 2,068,877 62,215 23,396 2,933 522,825 246,343 37,246 56,662 93,326 49,545 221,126 3,466,018 9,449,143 554,423 552,256 13,923 485,436 617,193 112,590 235,539 507,815 129,328 540,835 14,203,920 3,728,638 212,103 119,034 75,607 422,027 496,188 86,098 283,568 519,378 139,117 499,540 14,328,562 216,860 328,271 10,298 565,110 284,664 132,458 134,743 490,796 64,094 1,304,524 3,488,160 231,908 108,646 389,487 249,205 304,200 24,141 421,542 289,763 63,675 440,677 1,324,452 79,110 78,100 6,323 346,664 32,458 134,743 490,796 64,094 1,304,524 3,488,160 231,908 108,646 389,487 249,205 304,200 24,144 421,542 289,763 63,675 440,677 1,324,452 79,110 78,100 78,1

Appendix Table A3. Di	rect Econo	mic Impac	ts from Ge	eneral and	Non-gene	eral Fund l	Expenditu	res, North	Dakota U	niversity S	System an	d
Member Institutions, by	y Budget Ca	ategory, ar	nd Allocati	on to the	Input-Out	put Model	Sectors, F	iscal Yea	r 2006 (Cu	rrent Year	Dollars)	

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	BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	VCSU	wsc	SYSTEM	TOTAL
Wages & Salaries	12,644,309	9,833,672	4,184,656	5,709,434	19,501,429	2,284,186	14,149,136	121,985,291	151,183,856	6,582,135	3,421,147	1,298,308	352,777,559
Fringe Benefits	3,743,539	2,883,671	1,208,378	1,835,315	5,727,543	745,962	4,298,317	33,549,557	40,474,669	2,149,184	1,166,256	340,176	98,122,567
Travel	531,738	899,550	199,125	420,017	893,465	124,884	918,250	10,026,826	8,370,132	370,745	282,209	98,588	23,135,529
Data Processing	327,367	494,722	184,741	62,302	380,011	60,331	552,598	5,050,506	5,525,722	596,947	58,329	3,674	13,297,250
Fees	881,266	740,900	309,159	44,424	767,935	317,634	145,201	11,431,445	13,465,984	267,219	77,966	208,256	28,657,389
Utilities	577,478	703,023	260,112	676,843	1,101,064	168,465	1,196,565	7,106,409	5,768,536	392,415	221,992		18,172,902
Communications	77,029	177,133	33,518	62,153	122,147	47,688	496,731	2,859,553	3,797,506	306,715	54,763	22,474	8,057,410
Insurance	19,678	171,075	30,494	73,051	107,172	18,336	126,829	872,800	1,961,727	59,458	21,240	1,683	3,463,543
Rents & Leases	510,488	55,521	80,099	232,155	56,140	33,613	197,405	2,066,192	5,378,422	322,737	65,645	14,330	9,012,747
Office	344,519	581,372	114,225	292,574	413,872	74,272	622,542	4,041,610	3,662,105	206,119	101,210	71,630	10,526,050
Supplies	686,885	674,880	167,146	310,594	1,159,118	109,018	497,979	7,908,984	7,604,410	263,338	119,319	10,295	19,511,966
Instructional	697,957	625,737	132,656	165,514	941,486	84,449	1,408,982	5,111,382	7,122,438	295,087	323,733	7,029	16,916,450
Noncap Equipment	176,622	347,664	91,623	158,249	104,865	30,018	517,170	1,996,508	2,782,179	203,460	25,443	6,869	6,440,670
Merch for Resale	1,505,877	622,937	425,528	667,788	1,474,247	226,278	2,666,128	14,787,258	14,291,952	551,023	638,863		37,857,879
Repairs	407,827	638,785	229,680	208,912	809,064	76,724	1,392,399	4,409,358	12,801,122	347,552	58,579	2,362	21,382,364
Scholarships etc.	3,299,547	4,981,850	1,253,694	1,661,422	5,444,005	800,748	3,213,748	22,034,371	20,324,703	1,714,453	1,563,518	3,686,961	69,979,020
General	2,052,786	2,599,468	674,201	880,007	2,510,736	265,469	2,167,311	14,576,239	20,924,196	1,266,311	747,955	339,143	49,003,822
Capital Equipment	297,850	261,965	29,594	102,673	350,453	8,400	314,219	455,388	233,671	183,251	62,633		2,300,097
Capital Improvement	844,104	1,577,255	549,536	175,907	4,422,269	476,567	739,416	14,411,188	15,804,556	295,367	192,463		39,488,628
Recovery of Exp													
TOTAL	29,626,866	28,871,180	10,158,165	13,739,334	46,287,021	5,953,042	35,620,926	284,680,865	341,477,886	16,373,516	9,203,263	6,111,778	828,103,842
Sector	BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	vcsu	wsc	SYSTEM	TOTAL
Construction	844,104	1,577,255	549,536	175,907	4,422,269	476,567	739,416	14,411,188	15,804,556	295,367	192,463		39,488,628
Com & Pub Util	654,507	880,156	293,630	738,996	1,223,211	216,153	1,693,296	9,965,962	9,566,042	699,130	276,755	22,474	26,230,312
Retail Trade	3,709,710	3,114,555	960,772	1,697,392	4,444,041	532,435	6,027,020	34,301,130	35,696,755	1,702,278	1,271,201	95,823	93,553,112
FIRE	4,273,705	3,110,267	1,318,971	2,140,521	5,890,855	797,911	4,622,551	36,488,549	47,814,818	2,531,379	1,253,141	356,189	110,598,857
Bus & Pers Ser	4,200,984	5,373,425	1,596,906	1,615,662	5,361,211	845,042	5,175,759	45,494,374	61,087,156	2,848,774	1,225,038	652,023	135,476,354
Households	15,943,856	14,815,522	5,438,350	7,370,856	24,945,434	3,084,934	17,362,884	144,019,662	171,508,559	8,296,588	4,984,665	4,985,269	422,756,579
TOTAL	29,626,866	28,871,180	10,158,165	13,739,334	46,287,021	5,953,042	35,620,926	284,680,865		16,373,516	9,203,263	6,111,778	
TOTAL	23,020,000	20,011,100	10, 130, 103	13,133,334	70,201,021	3,333,042	55,020,320	204,000,000	J+1,411,000	10,373,310	3,203,203	0,111,110	020,100,04

Appendix Tab	le A4. Dire	ect Econo	mic Impac	ts from G	eneral and	d Non-gen	eral Fund	Expendit	ures, North	n Dakota U	niversity	System a	and
Member Institu	utions, by	Budget Ca	ategory, a	nd Allocat	ion to the	Input-Out	put Mode	Sectors,	Fiscal Yea	ır 2008 (Cu	irrent Yea	r Dollars	.)
	BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	vcsu	WSC	SYSTEM	TOTAL
Wages & Salaries	13,703,590	11,286,146	4,952,288	5,643,638	20,320,073	2,608,923	14,991,907	130,082,496	157,668,622	7,289,965	3,825,886	1,679,156	374,052,690
Fringe Benefits	4,307,608	3,526,620	1,478,733	2,034,101	6,464,563	875,153	4,920,186	38,934,598	44,878,689	2,464,252	1,279,187	486,380	111,650,070
Travel	588,673	1,061,370	251,952	405,847	1,059,127	197,645	979,330	11,965,470	9,324,937	438,929	272,617	138,562	26,684,459
Data Processing	511,701	424,540	292,426	127,432	204,974	83,403	658,173	7,240,407	6,591,131	297,698	62,616	15,056	16,509,557
Fees	1,007,145	1,161,040	462,696	117,499	1,165,169	57,829	138,827	14,465,742	17,338,976	219,525	290,457	61,640	36,486,545
Utilities	630,152	785,124	266,416	807,715	1,213,832	192,883	1,152,232	8,631,293	8,206,289	437,848	238,259	0	22,562,043
Communications	91,423	165,421	40,930	56,044	124,488	56,587	442,230	3,361,364	3,739,743	180,389	61,336	19,712	8,339,667
Insurance	43,013	371,374	20,414	46,850	87,039	20,012	76,267	737,453	1,760,526	52,204	7,473	1,609	3,224,234
Rents & Leases	532,841	37,762	69,407	54,090	79,957	28,991	196,592	4,058,554	5,003,937	454,126	102,274	23,805	10,642,336
Office	395,539	571,106	135,498	259,999	623,326	87,002	684,386	4,177,768	3,558,767	234,466	86,508	69,344	10,883,709
Supplies	951,415	620,178	215,381	326,147	1,383,572	160,456	574,168	7,883,828	9,164,445	308,340	137,546	5,724	21,731,200
Instructional	978,633	503,125	138,790	185,021	931,054	149,831	1,426,165	7,531,445	8,532,985	255,376	188,925	46,573	20,867,923
Noncap Equipment	127,203	249,040	45,003	85,268	84,184	73,425	649,530	2,047,058	3,514,740	168,426	63,181	6,448	7,113,506
Merch for Resale	1,833,354	835,247	539,407	645,252	0	248,369	2,364,568	16,913,148	17,413,103	424,315	644,504		41,861,267
Repairs	614,844	638,539	115,309	244,655	716,989	63,239	3,894,641	5,419,518	12,936,757	570,115	90,722	19,245	25,324,573
Scholarships etc.	3,979,302	5,920,393	1,372,192	1,316,110	6,132,277	996,483	3,217,429	26,613,374	20,700,457	2,084,452	1,489,101	6,343,835	80,165,405
General	2,547,068	2,420,899	755,348	680,917	2,922,151	564,162	2,548,962	20,577,444	21,839,822	1,354,115	525,577	462,048	57,198,513
Capital Equipment	186,223	278,301	143,207	135,070	116,766	0	470,734	10,257,527	6,675,116	133,741	1,357,386		19,754,071
Capital Improvement	4,620,975	268,154	63,663	871,102	1,031,081	199,757	293,844	24,765,090	11,637,564	1,290,730	204,057		45,246,017
Recovery of Exp													
TOTAL	37,650,702	31,124,379	11,359,060	14,042,757	44,660,622	6,664,150	39,680,171	345,663,577	370,486,606	18,659,012	10,927,612	9,379,137	940,297,785
Sector	BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	vcsu	WSC	SYSTEM	TOTAL
Construction	4,620,975	268,154	63,663	871,102	1,031,081	199,757	293,844	24,765,090	11,637,564	1,290,730	204,057		45,246,017
Com & Pub Util	721,575	950,545	307,346	863,759	1,338,320	249,470	1,594,462	11,992,657	11,946,032	618,237	299,595	19,712	30,901,710
Retail Trade	4,472,367	3,056,997	1,217,286	1,636,757	3,138,902	719,083	6,169,551	48,810,774	48,859,156	1,524,664	2,478,050	128,089	122,211,676
FIRE	4,883,462	3,935,756	1,568,554	2,135,041	6,631,559	924,156	5,193,045	43,730,605	51,643,152	2,970,582	1,388,934	511,794	125,516,640
Bus & Pers Ser	5,269,431	5,706,388	1,877,731	1,576,350	6,068,410	966,278	8,219,933	59,668,581	68,031,623	2,880,382	1,241,989	696,551	162,203,647
Households	17,682,892	17,206,539	6,324,480	6,959,748	26,452,350	3,605,406	18,209,336	156,695,870	178,369,079	9,374,417	5,314,987	8,022,991	454,218,095
TOTAL	37,650,702	31,124,379	11,359,060	14,042,757	44,660,622	6,664,150	39,680,171	345,663,577	370,486,606	18,659,012	10,927,612	9,379,137	940,297,785

Appendix Table A5. Direct Economic Impacts from General and Non-general Fund Expenditures, North Dakota University System and Member Institutions, by Budget Category, and Allocation to the Input-Output Model Sectors, Fiscal Year 2009 (Current Year Dollars) BSC DSU LRSC MaSU MISU DCB NDSCS NDSU UND VCSU WSC SYSTEM Wages & Salaries 15,054,282 12,014,001 5,320,075 6,004,869 21,197,308 2,882,403 16,419,452 143,001,091 169,301,631 7,733,058 4,046,988 1,767,350 44

Wichiber matitu	tions, by	auget ou	tegery, and	a Alloouti	<u> </u>	iput Gutp	at moaci	0001013, 1	150ai i cai	2000 (Ou.	i Cilit i Cui	Donard,	
	BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	vcsu	wsc	SYSTEM	TOTAL
Wages & Salaries	15,054,282	12,014,091	5,320,075	6,004,869	21,197,308	2,882,493	16,419,452	143,001,091	169,301,631	7,733,058	4,046,988	1,767,250	404,742,588
Fringe Benefits	4,627,734	3,711,683	1,574,148	2,191,816	6,728,224	946,358	5,164,347	42,400,778	47,858,893	2,521,319	1,240,477	470,330	119,436,107
Travel	630,382	1,089,229	294,444	410,610	982,348	218,282	979,256	11,701,807	9,548,451	464,610	305,348	116,142	26,730,909
Data Processing	540,507	490,988	193,591	100,902	246,848	68,713	646,458	4,173,874	7,615,922	339,410	189,866	26,126	14,633,205
Fees	1,028,818	1,245,178	440,564	62,852	1,045,135	115,232	231,177	11,777,872	16,927,469	276,785	591,548	212,916	33,955,546
Utilities	822,018	764,462	264,407	783,242	1,172,667	203,974	1,059,928	9,089,812	8,755,933	442,642	247,300	0	23,606,385
Communications	87,495	166,872	43,881	89,694	119,836	51,653	433,938	3,606,243	3,638,872	166,526	68,602	20,445	8,493,958
Insurance	59,661	449,955	26,526	51,846	129,697	19,190	94,112	1,637,687	2,153,612	64,578	15,124	1,640	4,703,628
Rents & Leases	605,012	125,465	68,843	104,922	145,225	33,470	307,338	6,173,732	6,015,217	449,928	67,591	29,946	14,126,689
Office	489,421	597,973	113,711	253,788	588,980	137,214	636,573	4,005,427	3,341,182	204,272	102,960	92,099	10,563,600
Supplies	1,311,163	749,583	197,650	272,909	1,741,264	192,084	524,073	8,245,678	9,339,097	350,330	202,021	5,835	23,131,687
Instructional	921,076	517,302	135,288	182,919	941,451	155,317	1,618,303	7,387,626	9,062,343	250,088	336,377	58,417	21,566,507
Noncap Equipment	355,463	264,224	99,881	101,560	46,890	24,839	730,175	2,529,044	2,846,551	130,422	212,275	3,894	7,345,218
Merch for Resale	1,893,867	844,849	439,836	588,631	0	250,888	2,354,770	19,469,632	20,802,151	577,206	529,939	0	47,751,769
Repairs	1,036,508	659,572	161,488	206,704	748,512	95,055	1,941,570	7,716,730	14,733,524	620,405	76,151	3,106	27,999,325
Scholarships etc.	4,540,498	6,615,567	1,451,071	1,400,626	6,490,942	1,079,432	3,211,836	30,395,558	21,911,322	2,178,374	1,539,686	5,868,692	86,653,604
General	2,853,928	2,698,851	722,156	1,219,758	2,991,503	652,400	2,553,738	22,614,535	25,686,710	1,337,160	745,747	367,660	64,444,146
Capital Equipment	2,179,350	182,484	93,697	59,777	75,514	22,633	1,210,854	1,405,468	402,052	146,794	617,727	0	6,396,350
Capital Improvement	1,178,460	4,340,205	109,139	521,248	3,145,658	248,560	378,189	18,050,934	4,194,388	983,573	933,303	0	34,083,657
Recovery of Exp													
TOTAL	40,205,643	37,528,833	11,750,396	14,608,673	48,508,002	7,397,787	40,495,988	355,383,528	384,135,320	19,237,480	12,069,030	9,044,498	980,364,878
Sector	BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	vcsu	wsc	SYSTEM	TOTAL
Construction	1,178,460	4,340,205	109,139	521,248	3,145,658	248,560	378,189	18,050,934	4,194,388	983,573	933,303	0	34,083,657
Com & Pub Util	909,513	931,334	308,288	872,936	1,292,503	255,627	1,493,767	12,696,055	12,394,805	609,168	315,902	20,445	32,100,343
Retail Trade	7,150,340	3,156,415	1,080,063	1,459,584	3,394,099	782,975	7,074,748	43,042,875	45,793,376	1,659,112	2,001,299	160,245	116,755,131
FIRE	4,687,395	4,161,638	1,600,674	2,243,662	6,857,921	965,548	5,258,459	44,038,465	50,012,505	2,585,897	1,255,601	471,970	124,139,735
Bus & Pers Ser	6,685,155	6,309,283	1,881,086	2,105,748	6,159,571	1,183,152	6,659,537	64,158,550	80,527,293	3,488,298	1,976,251	755,896	181,889,820
Households	19,594,780	18,629,658	6,771,146	7,405,495	27,658,250	3,961,925	19,631,288	173,396,649	191,212,953	9,911,432	5,586,674	7,635,942	491,396,192
TOTAL	40,206,643	37,528,533	11,750,396	14,608,673	48,508,002	7,397,787	40,495,988	355,383,528	384,135,320	19,237,480	12,069,030	9,044,498	980,364,878

Appendix Table			•					•					
Institutions, by	Budget C	ategory, a	ınd Alloca	tion to the	Input-Ou	tput Mode	I Sectors,	Fiscal Ye	ar 1999 (C	urrent Yea	ar Dollars)	
	BSC	DSU	LRSC	MaSU	DCB	MiSU	NDSCS	NDSU	UND	VCSU	WSC	SYSTEM	TOTAL
Wages & Salaries	3,804,427	2,240,486	1,455,042	1,670,610	335,157	3,082,874	2,548,174	39,410,288	58,883,241	2,142,142	855,470	26,400	116,454,311
Fringe Benefits	919,611	649,940	338,747	443,389	71,772	638,149	653,715	9,240,405	14,498,166	509,919	189,413	7,872	28,161,098
Travel	212,725	302,902	105,080	141,343	67,564	408,832	342,451	4,660,871	4,268,740	218,010	107,916	2,409	10,838,843
Data Processing	55,994	44,687	22,571	44,442	4,419	67,696	34,376	909,052	985,222	355,516	22,204		2,546,179
Fees	349,307	940,758	150,103	522,342	299,441	891,001	337,026	4,816,300	7,863,862	703,911	138,463	219	17,012,733
Utilities	201,911	195,337	42,987	76,765		1,114	2,888	1,778,251	1,768,934	90,037	36,515		4,194,739
Communications	151,457	165,088	25,772	87,476	44,458	125,625	532,309	2,405,184	3,769,119	359,611	17,046	299	7,683,444
Insurance	10,875	16,720	3,854	7,614	1,137	5,690	14,984	210,814	780,386	8,543	2,244		1,062,861
Rents & Leases	141,423	5,861	7,434	677,650	8,877	66,732	188,495	2,034,118	4,082,062	358,187	23,297	900	7,595,036
Office	209,678	129,562	63,507	73,828	35,624	247,765	125,862	5,864,043	2,233,312	95,729	25,292	62	9,104,264
Supplies	563,683	250,685	48,502	130,692	31,572	220,534	255,968		6,273,164	156,129	123,956	433	8,055,318
Instructional	276,205	91,413	75,457	69,524	15,858	32,902	493,696		1,282,403	99,647	36,303	180,809	2,654,217
Noncap Equipment			26,319	62,657	3,503	137,768	34,885	687,278		167,900	1,225		1,121,535
Merch for Resale	906,895	400,876	335,963	292,487	101,176		2,007,713	8,540,584	18,428,685	282,908	406,173		31,703,460
Repairs	171,402	417,096	31,312	154,989	8,482	157,438	491,550	2,686,110	12,367,987	124,181	49,688	59	16,660,294
Scholarships etc.	1,938,131	1,965,302	940,073	838,810	707,881	2,959,876	2,572,791	9,854,315	12,622,231	1,299,853	1,096,413	1,699,042	38,494,718
General	387,887	196,413	120,394	109,135	137,917	370,590	1,369,734	1,916,375	1,968,000	178,721	148,458		6,903,624
Capital Equipment	439,107	291,677	86,673	77,569	3,064	332,483	295,250	0	0	212,909	107,958		1,846,690
Capital Improvement	366,346	667,346	598,734	57,894	241,840	2,897,712	3,066,092	3,561,184	8,734,203	252,656	363,440		20,807,447
Recovery of Exp													
TOTAL	11,107,064	8,972,149	4,478,524	5,539,216	2,119,742	12,644,781	15,367,959	98,575,172	160,809,717	7,616,509	3,751,474	1,918,504	332,900,811
Sector	BSC	DSU	LRSC	MaSU	DCB	MiSU	NDSCS	NDSU	UND	vcsu	wsc	SYSTEM	TOTAL
Construction	366,346	667,346	598,734	57,894	241,840	2,897,712	3,066,092	3,561,184	8,734,203	252,656	363,440	0	20,807,447
Comm & Pub Util	353,368	360,425	68,759	164,241	44,458	126,739	535,197	4,183,435	5,538,053	449,648	53,561	299	11,878,183
Retail Trade	2,395,568	1,164,213	636,421	706,757	190,797	971,452	3,213,374	15,091,905	28,217,564	1,015,222	700,907	181,304	54,485,484
FIRE	1,071,909	672,521	350,035	1,128,653	81,786	710,571	857,194	11,485,337	19,360,614	876,649	214,954	8,772	36,818,995
Bus & Pers Ser	1,177,315	1,901,856	429,460	972,251	517,823	1,895,557	2,575,137	14,988,708	27,453,811	1,580,339	466,729	2,687	53,961,673
Households	5,742,558	4,205,788	2,395,115	2,509,420	1,043,038	6,042,750	5,120,965	49,264,603	71,505,472	3,441,995	1,951,883	1,725,442	154,949,029
TOTAL	11,107,064	8,972,149	4,478,524	5,539,216	2,119,742	12,644,781	15,367,959	98,575,172	160,809,717	7,616,509	3,751,474	1,918,504	332,900,811

Appendix Table A7. Direct Economic Impacts from Non-General Fund Expenditures, North Dakota University System and Member Institutions, by Budget Category, and Allocation to the Input-Output Model Sectors, Fiscal Year 2004 (Current Year Dollars) BSC DSU LRSC MaSU MiSU DCB **NDSCS** NDSU UND vcsu wsc **SYSTEM** TOTAL Wages & Salaries 6,364,671 4,443,905 2,489,869 1,504,697 5,362,350 446,964 3,487,324 66,507,549 100,687,465 1,257,302 1,677,651 169,305 194,399,052 Fringe Benefits 1,781,001 1,185,765 715,333 527,644 1,153,826 144,781 1,005,277 16,718,436 26,120,233 343,109 497,616 49,524 50,242,545 17.170.206 Travel 408.944 715.461 165.564 219.887 726.920 75.611 452.949 6,971,750 7,098,557 153.376 168.927 12.260 **Data Processing** 110,505 128.083 41.110 47.969 193.860 17.283 108,302 2,912,197 1,824,798 268,258 23.252 5,675,617 Fees 1,661,053 1,435,510 448,749 12,317 1,559,557 360,238 799,934 13,607,720 13,981,976 35,263 360,392 4,126 34,266,835 348,503 142 2,166 2,832,981 3,280,356 6,974,600 Utilities 231,076 87,872 101,073 1,730 88,701 Communications 121,565 143,359 36,742 23,701 189,902 487,917 3,273,912 3,401,578 219,770 39,471 1,057 7,990,847 51,873 Insurance 46,451 52,269 17,951 6,853 16,434 4,104 8,727 341,653 1,626,037 11,487 11,769 2,143,761 Rents & Leases 343,883 174,550 19,851 36,414 (56.785)13,797 119,457 2,906,747 8,942,143 509,421 49,103 3,406 13,061,987 3,032,221 Office 347,370 346,280 69.802 120,789 340,409 71,840 277,970 10,495,009 105,700 61.173 689 15,269,252 Supplies 298,483 384,941 53,378 162,783 299,197 51,787 370,202 12,831,617 148,814 202,977 848 14,805,027 12,882 907,725 Instructional 381,616 126,168 82,119 36,575 131,696 2,149,986 67,406 63,671 389,487 4,349,331 240,805 1,132,908 2,158,668 Noncap Equipment 141,942 219,112 19,400 80,220 194,317 27,569 54,534 47,259 812 Merch for Resale 730,626 400,252 416,502 2,308,280 15,020,855 11,157,239 439,195 594,473 32,784,314 1,556,688 160,204 246,155 200,780 55,902 99,241 174,327 14,197 732,875 4,465,498 8,708,491 99,682 63,550 719 14,861,417 Repairs Scholarships etc. 3,469,368 3,478,904 1,099,405 1,089,883 4,416,501 836,697 3,529,367 18,963,063 18,795,125 1,307,606 1,720,918 80,318 58,787,155 1.053.627 2.695.014 General 1.574.955 341.653 190.666 2.675.505 116.119 2.640.802 3.934.770 984.177 648.495 1,456,074 18,311,857 Capital Equipment 488,295 157,063 83,133 62,004 638,819 14,649 197,588 102,773 45,196 1,789,520 Capital Improvement 207,447 1,579,467 674,616 2,122,789 176,038 35,465 757,340 18,913,032 23,839,538 2,423,340 1,117,152 51,846,224 Recovery of Exp (11,945,324) (11,945,324) 251,412,130 TOTAL 19,781,468 16,192,399 6,751,714 7,624,037 18,195,039 2,456,060 18,533,914 175,813,000 8,532,733 7,481,746 2,168,651 534,942,891 Sector **BSC** DSU LRSC MaSU MiSU DCB **NDSCS** NDSU UND vcsu SYSTEM TOTAL 1,579,467 18,913,032 23,839,538 1,117,152 51.846.224 Construction 207,447 674.616 2.122.789 176.038 35,465 757,340 2,423,340 Comm & Pub Util 352,641 491,862 124,614 23,843 192,068 51,873 588,990 6,106,893 6,681,934 221,500 128,172 1,057 14,965,447 Retail Trade 4,302,570 14,703,448 29,171,063 59,210,788 3,214,394 1,964,190 708,084 878,873 1,604,438 338,931 918,212 1,014,749 391,836 1,412,584 36,688,413 65,448,293 FIRE 2,171,335 753,135 570,911 1,113,475 162,682 1,133,461 19,966,836 864,017 558,488 52,956 Bus & Pers Ser 4,001,612 2,821,487 901,991 1,433,041 5,330,169 583,448 4,734,862 30,652,179 35,548,592 1,540,756 1,264,616 1,473,179 90,285,932 Households 9,834,039 7,922,809 3,589,274 2,594,580 9,778,851 1,283,661 7,016,691 85,470,612 119,482,590 2,564,908 3,398,569 249,623 253,186,207 TOTAL 19,781,468 16,192,399 6,751,714 7,624,037 18,195,039 2,456,060 18,533,914 175,813,000 251,412,130 8,532,733 7,481,746 2,168,651 534,942,891

Appendix Table Institutions, by													
motitudiono, by	BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	VCSU	wsc	SYSTEM	TOTAL
Wages & Salaries	7,645,037	6,131,568	2,716,752	3,417,833	11,387,305	979,014	7,418,136	79,124,365	112,293,373	3,337,342	1,741,451	73,062	236,265,238
Fringe Benefits	2,226,793	1,766,796	764,778	1,114,789	3,134,799	310,225	2,204,742	21,189,984	30,044,254	1,056,505	607,253	24,577	64,445,495
Travel	391,070	748,895	142,012	352,012	695,915	87,527	660,032	8,333,516	7,453,659	220,129	229,278	9,261	19,323,306
Data Processing	247,290	419,486	94,446	38,135	327,381	30,588	401,692	4,225,914	4,750,305	509,034	51,878	60	11,096,209
Fees	752,053	653,218	194,233	33,336	696,577	305,358	118,222	10,898,543	12,994,931	187,709	58,081	244	26,892,505
Utilities	259,696	408,887	100,838	266,231	469,525	42,597	408,346	3,982,746	3,699,024	152,147	103,003		9,893,040
Communications	43,150	132,462	16,913	31,108	63,208	38,787	353,936	2,267,388	3,017,224	230,884	30,585	1,189	6,226,834
Insurance	10,014	152,940	16,626	38,180	56,810	7,514	46,537	438,467	1,511,394	31,929	9,814	51	2,320,276
Rents & Leases	282,619	50,611	41,153	194,978	50,434	26,882	90,833	1,289,921	5,320,978	272,747	57,324	5,600	7,684,080
Office	254,624	404,074	61,786	221,224	267,349	36,746	406,975	3,062,557	2,967,639	134,050	64,589	1,641	7,883,254
Supplies	478,043	549,041	121,073	267,537	864,242	50,939	398,817	5,898,165	7,202,235	215,272	83,824	6,550	16,135,738
Instructional	479,449	481,856	80,575	112,869	633,274	49,468	1,153,418	3,738,829	5,447,549	196,434	271,772		12,645,493
Noncap Equipment	109,098	311,292	78,840	139,650	88,603	11,457	323,333	1,676,659	2,463,490	171,919	21,311	4,939	5,400,591
Merch for Resale	1,505,863	622,937	425,505	667,788	1,474,247	226,273	2,666,128	14,786,025	14,291,952	551,023	638,863		37,856,604
Repairs	241,043	521,421	139,019	156,015	501,856	39,722	998,592	3,285,771	10,851,250	229,256	34,557	365	16,998,867
Scholarships etc.	3,215,779	4,200,006	1,193,512	1,388,587	4,886,078	774,416	2,803,078	17,160,537	16,474,162	1,471,134	1,520,276	45,635	55,133,200
General	1,694,847	2,199,493	572,125	709,486	2,179,604	208,349	1,797,496	12,397,623	18,582,122	1,129,871	618,906	5,205	42,095,127
Capital Equipment	219,103	240,476	21,022	70,761	265,991	2,124	227,262			130,969	60,340		1,238,048
Capital Improvement	523,603	1,514,712	307,108	92,351	4,193,220	55,987	159,665	12,297,767	15,058,401		63,558		34,266,372
Recovery of Exp													
TOTAL	20,579,174	21,510,171	7,088,316	9,312,870	32,236,418	3,283,973	22,637,240	206,054,777	274,423,942	10,228,354	6,266,663	178,379	613,800,277
04	DOO	DOLL	1,000	Macu	Mich	DOD	NDCCC	NDCH	LIND	VOCII	woo	CVCTEM	TOTAL
Sector	BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	VCSU	WSC	SYSTEM	TOTAL
Construction	523,603	1,514,712	307,108	92,351	4,193,220	55,987	159,665	12,297,767	15,058,401	000 004	63,558	1 100	34,266,372
Com & Pub Util	302,846	541,349	117,751	297,339	532,733	81,384	762,282	6,250,134	6,716,248	383,031	133,588	1,189	16,119,874
Retail Trade	3,046,180	2,609,676	788,801	1,479,829	3,593,706	377,007	5,175,933	29,162,235	32,372,865	1,399,667	1,140,699	13,130	81,159,728
FIRE	2,519,426	1,970,347	822,557	1,347,947	3,242,043	344,621	2,342,112	22,918,372	36,876,626	1,361,181	674,391	30,228	74,449,851
Bus & Pers Ser	3,326,303	4,542,513	1,141,835	1,288,984	4,401,333	671,544	3,976,034	39,141,367	54,632,267	2,275,999	992,700	15,135	116,406,014
Households	10,860,816	10,331,574	3,910,264	4,806,420	16,273,383	1,753,430	10,221,214	96,284,902	128,767,535	4,808,476	3,261,727	118,697	
TOTAL	20,579,174	21,510,171	7,088,316	9,312,870	32,236,418	3,283,973	22,637,240	206,054,777	274,423,942	10,228,354	6,266,663	178,379	613,800,277

	ppendix Table A9. Direct Economic Impacts from Non-General Fund Expenditures, North Dakota University System and Member stitutions, by Budget Category, and Allocation to the Input-Output Model Sectors, Fiscal Year 2008 (Current Year Dollars)												
institutions, by							·		,				
	BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	VCSU	wsc	SYSTEM	TOTAL
Wages & Salaries	8,526,511	7,172,902	3,152,599	3,133,457	11,770,259	1,210,317	7,739,524	83,684,874	114,548,568	3,578,666	1,886,101	77,350	246,481,128
Fringe Benefits	2,626,113	2,226,703	953,991	1,185,835	3,542,813	400,799	2,476,405	24,629,341	32,364,487	1,133,497	569,739	57,974	72,167,697
Travel	431,118	895,352	197,019	223,710	832,542	143,493	733,358	10,012,236	8,202,122	275,480	220,355	10,695	22,177,480
Data Processing	279,805	347,858	248,645	105,462	158,546	41,502	521,505	5,002,804	4,885,889	236,431	54,131	893	11,883,471
Fees	873,611	892,502	345,897	74,804	1,071,971	48,606	131,624	13,165,500	16,315,139	139,584	266,698	3,096	33,329,032
Utilities	296,669	480,782	142,784	287,010	512,728	66,296	412,017	4,893,050	5,214,651	164,527	109,637		12,580,151
Communications	52,233	120,302	23,972	25,735	68,040	45,886	289,467	2,589,354	2,945,664	127,644	36,645	828	6,325,770
Insurance	21,711	359,602	12,067	19,318	46,366	11,404	28,994	397,113	1,397,654	29,512	2,529	11	2,326,281
Rents & Leases	296,057	30,937	47,033	29,691	68,376	24,291	114,300	3,578,393	4,914,770	413,005	94,668	18,532	9,630,053
Office	273,848	399,606	86,260	197,406	496,051	48,446	500,906	3,197,515	2,851,281	157,611	57,792	4,687	8,271,409
Supplies	809,145	511,509	163,235	279,261	1,071,527	99,123	438,667	5,912,597	8,678,293	249,085	104,699	2,797	18,319,938
Instructional	734,166	369,432	99,856	128,374	630,267	110,999	1,166,974	6,086,292	6,489,998	160,370	126,057	572	16,103,357
Noncap Equipment	104,654	172,580	34,616	52,761	57,371	36,902	511,910	1,700,551	3,037,982	138,996	45,614	599	5,894,536
Merch for Resale	1,833,354	835,247	539,407	645,252	0	248,369	2,364,361	16,912,798	17,412,693	424,292	644,221		41,859,994
Repairs	395,171	475,337	71,015	140,133	489,916	28,475	2,531,371	3,951,845	10,676,390	312,358	50,122	1,398	19,123,531
Scholarships etc.	3,914,872	4,685,699	1,271,048	1,174,376	5,476,979	965,161	2,828,167	20,458,368	17,099,712	1,838,491	1,434,642	522,814	61,670,329
General	1,954,064	2,106,482	545,160	521,800	2,549,634	494,966	2,097,827	17,810,224	18,138,849	1,149,578	381,509	12,857	47,762,950
Capital Equipment	97,357	211,177	140,259	112,810	76,109	0	223,125	8,765,428	6,295,659	85,502	1,344,018		17,351,444
Capital Improvement	4,016,973	207,065	0	171,777	187,964	78,559	59,479	20,205,813	11,199,582		73,690		36,200,902
Recovery of Exp													
TOTAL	27,537,432	22,501,074	8,074,863	8,508,972	29,107,459	4,103,594	25,169,981	252,954,096	292,669,383	10,614,629	7,502,867	715,103	689,459,453
Sector	BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	vcsu	wsc	SYSTEM	TOTAL
Construction	4,016,973	207,065	0	171,777	187,964	78,559	59,479	20,205,813	11,199,582		73,690		36,200,902
Com & Pub Util	348,902	601,084	166,756	312,745	580,768	112,182	701,484	7,482,404	8,160,315	292,171	146,282	828	18,905,921
Retail	3,852,524	2,499,551	1,063,633	1,415,864	2,331,325	543,839	5,205,943	42,575,181	44,765,906	1,215,856	2,322,401	8,655	107,800,678
FIRE	2,943,881	2,617,242	1,013,091	1,234,844	3,657,555	436,494	2,619,699	28,604,847	38,676,911	1,576,014	666,936	76,517	84,124,031
Bus & Pers Ser	3,933,769	4,717,531	1,407,736	1,065,909	5,102,609	757,042	6,015,685	49,942,609	58,218,389	2,113,431	972,815	28,939	134,276,464
Households	12,441,383	11,858,601	4,423,647	4,307,833	17,247,238	2,175,478	10,567,691	104,143,242	131,648,280	5,417,157	3,320,743	600,164	308,151,457
TOTAL	27,537,432	22,501,074	8,074,863	8,508,972	29,107,459	4,103,594	25,169,981	252,954,096	292,669,383	10,614,629	7,502,867	715,103	689,459,453

Appendix Table A10. Direct Economic Impacts from Non-General Fund Expenditures, North Dakota University System and Member Institutions, by Budget Category, and Allocation to the Input-Output Model Sectors, Fiscal Year 2009 (Current Year Dollars) BSC DSU LRSC MaSU MiSU DCB **NDSCS** NDSU UND vcsu wsc SYSTEM TOTAL Wages & Salaries 8,786,629 7,954,999 3,457,865 3,383,641 12,426,344 1,390,641 8,157,608 90,563,543 124,369,870 3,781,968 2,038,093 102,433 266,413,634 34,712,933 Fringe Benefits 2,710,192 2,432,127 1,040,482 1,300,808 3,751,804 460,401 2,503,835 26,558,171 1,149,400 578,365 30,129 77,228,647 928.695 Travel 418.701 230.987 219.490 790.409 167.879 698.292 9,716,651 8.464.286 304.194 247.985 14.614 22.202.183 **Data Processing** 345,149 408.809 137.620 71,338 183.625 33,348 418,145 3.394.126 5,766,845 272,550 171,250 12,572 11.215.377 Fees 782,378 950,089 343,365 33,946 954,182 87,707 184,554 10,379,109 16,262,937 189,173 567,551 5,615 30,740,606 485,189 74,261 5,153,331 5,630,001 13,359,442 Utilities 408,610 145,283 279,738 502,615 392,428 163,616 124,370 Communications 47,861 114,512 44,095 40,380 281,408 2,735,972 2,846,107 114,904 6,365,727 26,251 69,083 45,154 Insurance 30,764 437,371 16,367 22,819 73,908 10,679 32,489 1,231,998 1,724,130 31,200 6,290 17 3,618,032 12,944,396 Rents & Leases 343,598 105,373 45,377 69,422 124,207 27,396 224,142 5,651,141 5,869,018 412,184 55,955 16,583 Office 320,440 432,069 75,825 170,340 470,933 88,681 472,033 2,971,409 2,646,537 136,180 58.377 5,390 7.848.214 Supplies 1,059,778 633,526 155,080 196,294 1,400,098 125,932 408,670 5,742,524 8,790,190 268,818 152,479 2,284 18,935,673 5,729,824 7,010,736 16,611,686 Instructional 718,105 379,719 101,815 94,058 676,331 119,511 1,348,469 155,742 277,342 34 2,071,558 2,348,430 2,028 Noncap Equipment 318,990 226,293 79,597 78,619 31,582 15,737 547,996 107,563 210,980 6,039,373 20,801,633 Merch for Resale 844,849 439,836 588,631 250,928 2,354,204 19,469,215 47,750,308 1,893,867 577,206 529,939 803,125 508,835 124,245 120,298 413,571 41,623 1,117,355 5,127,786 11,734,730 340,082 47,228 1,631 20,380,509 Repairs 4,453,704 Scholarships etc. 5,192,813 1,351,953 1,255,676 5,781,059 1,048,224 2,988,631 23,103,363 18,489,533 1,931,595 1,493,470 522,577 67,612,598 19.461.322 General 1.850.884 2.407.641 537.092 1.001.962 2.512.784 617.250 2,142,061 20.765.093 1.161.874 630.594 48.887 53,137,444 Capital Equipment 2,147,054 156,431 89,283 48,548 41,166 13,785 1,109,502 na 82,812 613,105 4,301,686 Capital Improvement 694,833 4,319,956 50,323 64,550 530,624 248,560 11,225,692 1,131,522 857,815 19,123,875 Recovery of Exp 30,734,325 25,381,822 250,286,735 299,364,531 TOTAL 28,134,662 28,919,296 8,448,646 9,044,273 4,862,923 11,181,061 8,706,342 764,794 705,829,410 Sector **BSC** DSU LRSC MaSU MiSU DCB **NDSCS** NDSU UND vcsu **SYSTEM** TOTAL 4.319.956 50.323 11,225,692 1.131.522 19.123.875 Construction 694,833 64,550 530.624 248.560 857.815 Com & Pub Util 456,471 599,701 171,534 323,833 571,698 114,641 673,836 7,889,303 8,476,108 278,520 169,524 19,725,169 Retail Trade 2,672,887 1,176,490 6,240,874 35,984,530 41,597,526 1,842,222 6,458,234 941,436 2,620,110 614,574 1,328,321 9,736 101,486,940 1,056,849 36,437,063 80,846,679 FIRE 2,740,956 2,869,498 1,323,627 3,825,712 471,080 2,536,324 27,790,169 1,180,600 584,655 30,146 Bus & Pers Ser 4,543,835 5,309,442 1,418,686 1,516,456 4,978,778 975,203 4,784,549 53,730,135 68,862,909 2,680,057 1,720,563 99,902 150,620,515 Households 13,240,333 13,147,812 4,809,818 4,639,317 18,207,403 2,438,865 11,146,239 113,666,906 142,859,403 5,713,563 3,531,563 625,010 334,026,232 TOTAL 28,134,662 28,919,296 8,448,646 9,044,273 30,734,325 4,862,923 25,381,822 250,286,735 299,364,531 11,181,061 8,706,342 764,794 705,829,410

Appendix Table A11. North D)akota Un	iversity Sy	stem Fall	Student Er	ırollment	, 1999, 200)4, 2006, 200	7, 2008, an	d 2009			
		1999			2004			2006			2007	
Institution	HC ¹	FT ²	FTE ³	HC ¹	FT ²	FTE ³	HC ¹	FT ²	FTE ³	HC ¹	FT ²	FTE ³
Bismarck State College	2,743	1,975	2,326	3,546	2,330	2,800	3,477	2,192	2,651	3,591	2,345	2,792
Dickinson State University	1,867	1,485	1,638	2,479	1,749	2,034	2,572	1,729	2,059	2,670	1,778	2,158
Lake Region State College	805	355	506	1,464	416	738	1,508	391	750	1,520	414	764
Mayville State University	851	592	692	897	665	761	832	554	652	769	478	586
Minot State University	3,155	2,466	2,753	3,851	2,521	3,022	3,712	2,540	2,928	3,424	2,358	2,730
Dakota College Bottineau	508	441	498	602	356	447	605	306	399	637	303	402
ND State College of Science	2,345	2,162	2,503	2,481	1,920	2,271	2,490	1,799	2,171	2,417	1,746	2,097
North Dakota State University	9,638	7,813	8,775	12,026	9,536	10,692	12,258	10,053	10,890	12,527	10,342	11,221
University of North Dakota	10,590	8,544	9,417	13,187	10,601	11,815	12,834	10,460	11,381	12,559	9,976	10,967
Valley City State University	1,077	796	956	1,033	833	956 ⁴	1,037	717	844	982	682	807
Williston State College	714	582	656	937	568	709	912	505	648	731	428	551
TOTAL	34,293	27,211	30,720	42,503	31,495	36,245	42,237	31,246	35,373	41,827	30,850	35,075

¹ Headcount is all students enrolled regardless of number of credit hours.

² Full-time is students enrolled in 12 credit hours or more.

³ In August 2006, the SBHE changed the definition of undergraduate FTE to 15 credit hours from 16. This new definition is compatible with National Integrated Post-Secondary Education Data System (IPEDS) reporting requirements.

⁴ Includes 89 VCSU elementary education students located on the NDSU campus

Appendix Table A11. Continued	_			_			_	
		2008			2009		Percentage Chang	e in FTE Students
Institution	HC ¹	FT ²	FTE ³	HC ¹	FT^2	FTE ³	1999-2009	2008-2009
Bismarck State College	3,788	2,492	2,937	4,020	2,708	3,160	35.9	7.6
Dickinson State University	2,730	1,891	2,294	2,767	1797	2,187	33.5	-4.7
Lake Region State College	1,657	419	784	1,702	490	868	71.5	10.7
Mayville State University	789	449	563	887	544	662	-4.3	17.6
Minot State University	3,432	2,350	2,720	3,649	2416	2,832	2.9	4.1
Dakota College Bottineau	655	345	440	748	348	490	-70.1-1.6	11.4
ND State College of Science	2,545	1,595	2,041	2,651	1,590	2,076	-17.1	1.7
North Dakota State University	13,229	11,004	11,794	14,189	11,679	12,577	43.3	6.6
University of North Dakota	12,748	10,192	11,137	13,172	10,215	11,306	20.1	1.5
Valley City State University	1,019	682	823	1,083	695	833	-12.9	1.2
Williston State College	850	399	562	949	419	573	-12.7	2.0
TOTAL	43,442	31,818	36,096	45,817	32,901	37,564	22.3	4.1

¹ Headcount is all students enrolled regardless of number of credit hours.

² Full-time is students enrolled in 12 credit hours or more.

³ In August 2006, the SBHE changed the definition of undergraduate FTE to 15 credit hours from 16. This new definition is compatible with National Integrated Post-Secondary Education Data System (IPEDS) requirements.

⁴ Includes 89 VCSU elementary education students located on the NDSU campus

Appendix Table A12. Direct Economic Impacts (Expenditures) for Student Living Expenses, Students Attending North Dakota University System Institutions, 2008-2009 Academic Year

Institution	Fall 2008 FTE Enrollment	Living Expenses Per Student ¹	Total Expenditures
		\$	
Bismarck State College	2,937	8,610	25,287,570
Dickinson State University	2,294	8,019	18,395,586
Lake Region State College	784	8,568	6,717,312
Mayville State University	563	8,232	4,634,616
Minot State University	2,720	8,364	22,750,080
Dakota College Bottineau	440	8,082	3,556,080
ND State College of Science	2,041	7,966	16,258,606
North Dakota State University	11,794	9,736	114,826,384
University of North Dakota	11,137	9,364	104,286,868
Valley City State University	823	8,031	6,609,513
Williston State College	562	7,178	4,034,036
Total	36,095		327,356,651

Source: North Dakota Career Resource Network (2010).

¹ Annual expenses included room and board, books and supplies, and \$3,060 for personal and recreational spending.

Appendix Table A13. Direct and Total Economic Impacts from Student Expenditures within the North Dakota University System, by Individual Institution, Fiscal Year 2009

Item	BSC	DSU	LRSC	MaSU	MiSU	DCB	NDSCS	NDSU	UND	VCSU	WSC
Direct Impacts: (\$000)											
Student Expenditures	25,288	18,396	6,717	4,691	22,751	3,556	16,279	114,827	104,287	6,609	4,035
Direct Impacts by I-O Sector: (\$000)											
Retail Trade Fin, Ins, Real Estate	18,966 6,322	13,797 4,599	5,038 1,679	3,518 1,173	17,063 5,688	2,667 889	12,209 4,070	86,120 28,707	78,215 26,072	4,957 1,652	3,026 1,009
Total	25,288	18,396	6,717	4,691	22,751	3,556	16,279	114,827	104,287	6,609	4,035
Total Impacts: (\$000)											
Construction Comm & Pub Util Retail Trade FIRE Bus & Per Serv Prof & Soc Serv Households Other¹ Total	1,126 1,838 28,428 8,317 852 1,039 15,249 5,985	819 1,337 20,680 6,050 620 756 11,093 4,355	299 488 7,551 2,209 226 276 4,050 1,589	206 337 5,210 1,525 156 191 2,795 1,098	1,013 1,654 25,575 7,483 767 935 13,719 1,281 56,532	158 259 3,997 1169 120 146 2,144 841	724 1,182 18,277 5,347 548 668 9,804 3,849	5,113 8,348 129,083 37,764 3,870 4,719 69,241 27,182 285,320	4,643 7,582 117,234 34,298 3,514 4,286 62,885 24,587	294 480 7,430 2,173 223 272 3,985 1,564	180 293 4,536 1,327 136 166 2,433 955
Tax Revenues: (\$000)											
Sales & Use Tax Pers Income Tax	1,316 229	957 166	350 61	241 42	1,184 206	185 32	846 147	5,977 1,039	5,428 943	344 60	210 36
Secondary Employment (jobs)	290	209	74	49	259	37	184	1,331	1,208	70	42

APPENDIX B

Economic Contribution to North Dakota, North Dakota University System Member Universities and Colleges, Fiscal Years 1999, 2004, 2006, 2008, and 2009

Bismarck State College

Each of the state's college campuses is an important component of that area's local economy. This brief analysis will provide highlights of an economic impact analysis of Bismarck State College in the Bismarck area. Key economic indicators estimated in the analysis include direct impacts, total level of economic activity, personal income, retail trade, tax revenues, and employment. All dollar values are presented in terms of current year dollars, i.e., the effects of inflation have not been removed. The Consumer Price Index indicates that inflation during the 10-year period 1999-2009 was 29 percent.

Expenditures by Bismarck State College comprise the direct impacts, or "first round effects". Expenditures by Bismarck State College were \$17.9 million in FY1999, \$27.7 million in FY2004, \$29.6 million in FY2006, \$37.7 million in FY2008, and \$40.2 million in FY2009 (Appendix Table B1). Expenditures increased over the 10-year period by \$22.3 million or by 124 percent.

Total impacts associated with Bismarck State College were estimated by applying the North Dakota Input-Output Model coefficients to total direct expenditures. Total economic contribution was estimated at \$52.1 million in FY1999, \$81.2 million in FY2004, \$87.8 million in 2006, \$109.3 million in FY2008, and \$116 million in FY2009. The sector that had the largest impact was *households* (i.e., personal income of area residents) for each year presented. Personal income increased from \$20.9 million in FY1999 to \$45.2 million in FY2009 or by 116 percent. Other sectors receiving major contributions included *retail trade*, *construction*, *finance*, *insurance*, *and real estate*, and *business and personal services*. Increased retail trade activity was estimated at \$13.7 million in FY1999, \$20.8 million in FY2004, \$22.0 million in FY2006, \$26.8 million in FY2008, and \$30.8 million in FY2009. Increased levels of retail trade activity would generate \$1.4 million in sales and use tax collections for FY2009, compared to \$636,000 in FY1999 and \$1.2 million in FY2008. Personal income tax collections were estimated to be \$314,000 in FY1999, \$483,000 in FY2004, \$531,000 in FY2006, \$634,000 in FY2008, and \$680,000 in FY2009 as the result of increased economic activity in the *household* sector.

Levels of business activity resulting from Bismarck State College expenditures would support almost 670 secondary (indirect and induced) jobs in 2009. These jobs are in addition to the 527 positions (excluding student jobs) at Bismarck State College in 2009. In the Fall of 2009, 3,160 full-time equivalent students were enrolled at Bismarck State College.

In addition to the economic impact resulting from the institution's expenditures, spending by students also contributes to the local economy. Direct impacts of student spending in the Bismarck area was \$25.3 million in FY2009. The total economic contribution of student spending was \$62.8 million. Student spending was estimated to generate an additional \$1.3 million in sales and use tax revenue and \$229,000 in personal income tax collections. This level of student spending would create enough business activity to support about 390 secondary (indirect and induced) jobs. A detailed analysis of the economic impact resulting from student expenditures is presented in Appendix Table A13.

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Appendix Table B1. Direct and Total Economic Impacts for Bismarck State College, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

						Cha	nge
Item	FY1999	FY2004	FY2006	FY2008	FY2009	FY1999- 2009	FY2008- 2009
			\$ 000			%	,)
Direct Impacts:							
General Fund	6,256	7,745	8,727	9,509	11,587	85.2	21.9
Nongeneral Fund	10,741	19,574	20,056	23,521	27,440	155.5	16.7
Capital Improvements	916	366	844	4,621	1,178	28.7	-74.5
TOTAL	17,913	27,685	29,627	37,651	40,205	124.4	6.8
Direct Impacts by I-O Sector:							
Construction	916	366	844	4,621	1,178	28.6	-74.5
Communication and Public Util	737	709	654	722	910	23.5	26.0
Retail Trade	2,928	4,063	3,710	4,472	7,150	144.2	59.9
Finance, Insurance, Real Estate	2,128	3,684	4,274	4,884	4,687	120.3	-4.0
Business and Personal Services	1,641	4,716	4,201	5,269	6,685	307.4	26.9
Households	9,563	14,147	15,944	<u>17,683</u>	<u> 19,595</u>	104.9	10.8
TOTAL	17,913	27,685	29,627	37,651	40,205	124.4	6.8
Total Impacts:							
Construction	2,221	2,378	3,042	7,299	4,024	81.2	-44.9
Communications and Public Util	2,493	3,517	3,678	4,403	4,875	95.5	10.7
Retail Trade	13,726	20,791	22,018	26,757	30,768	124.2	15.0
Finance, Insurance, Real Estate	4,545	7,443	8,377	9,849	9,987	119.7	1.4
Business and Personal Services	2,575	6,208	5,826	7,226	8,774	240.7	21.4
Professional Social Services	1,351	2,088	2,294	2,744	2,931	117.0	6.8
Households	20,903	32,191	35,426	42,285	45,164	116.1	6.8
Other ¹	4,306	6,628	7,165	8,764	9,509	120.8	8.5
TOTAL	52,120	81,244	87,826	109,327	116,032	122.6	6.1

¹ Includes agriculture, mining, manufacturing, transportation, and government.

Dickinson State University

Each of the state's college campuses is an important component of that area's local economy. This brief analysis will provide highlights of an economic impact analysis of Dickinson State University in the Dickinson area. Key economic indicators estimated in the analysis include direct impacts, total level of economic activity, personal income, retail trade, tax revenues, and employment. All dollar values for FY1999, FY2004, FY2006, and FY2008 are presented in terms of current year dollars, i.e., the effects of inflation have not been removed. The Consumer Price Index indicates that inflation during the 10-year period from 1999-2009 was 29 percent.

Expenditures by Dickinson State University comprise the direct impacts, or "first round effects". Expenditures by Dickinson State University were \$14.9 million in FY1999, \$23.0 million in FY2004, \$28.9 million in FY2006, \$31.1 million in FY2008, and \$37.5 million in FY2009 (Appendix Table B2). Expenditures increased over the 10-year period by \$22.6 million or by 151 percent.

Total impacts associated with Dickinson State University were estimated by applying the North Dakota Input-Output Model coefficients to total direct expenditures. Total economic contribution was estimated at \$43.6 million in FY1999, \$67.2 million in FY2004, \$84.4 million in 2006, \$92.6 million in FY2008, and \$109.6 million in FY2009. The sector that had the largest impact was *households* (i.e., personal income of area residents) for each year presented. Personal income increased from \$17.3 million in FY1999 to \$43.1 million in FY2009 or by 148 percent. Other sectors receiving major contributions included *retail trade, construction, finance, insurance, and real estate*, and *business and personal services*. Increased retail trade activity was estimated at \$10.7 million in FY1999, \$16.5 million in FY2004, \$20.6 million in FY2006, \$22.5 million in FY2008, and \$25.7 million in FY2009. This represents a \$11.8 million (111.0 percent) increase for the 9-year period. Increased levels of retail trade activity would generate \$1.2 million in sales and use tax collections for FY2009, compared to \$493,000 in FY1999 and \$952,000 million in FY2008. Personal income tax collections were estimated to be \$259,000 in FY1999, \$402,000 in FY2004, \$503,000 in FY2006, \$565,000 in FY2008, and \$646,000 in FY2009 as the result of increased economic activity in the *household* sector.

Levels of business activity resulting from Dickinson State University expenditures would support over 620 secondary (indirect and induced) jobs in 2009. These jobs are in addition to the 275 positions (excluding student jobs) at Dickinson State University in 2009. In the Fall of 2009, 2,187 full-time equivalent students were enrolled at Dickinson State University.

In addition to the economic impact resulting from the institution's expenditures, spending by students also contributes to the local economy. Direct impacts of student spending in the Dickinson area was \$18.4 million in FY2009. The total economic contribution of student spending was \$45.7 million. Student spending was estimated to generate an additional \$957,000 million in sales and use tax revenue and \$166,000 in personal income tax collections. This level of student spending would create enough business activity to support 209 secondary (indirect and induced) jobs. A detailed analysis of the economic impact resulting from student expenditures is presented in Appendix Table A13.

Appendix Table B2. Direct and Total Economic Impacts for Dickinson State University, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

						Cha	nge
Item	FY1999	FY2004	FY2006	FY2008	FY2009	FY1999- 2009	FY2008- 2009
			\$ 000 -			%	, ,
Direct Impacts:							
General Fund	5,764	6,702	7,299	8,562	8,589	49.0	0.3
Nongeneral Fund	8,305	14,613	19,995	22,294	24,599	196.2	10.3
Capital Improvements	869	1,696	1,577	268	4,340	399.4	1519.6
TÔTAL	14,938	23,011	28,871	31,124	37,528	151.2	20.6
Direct Impacts by I-O Sector:							
Construction	869	1,696	1,577	268	4,340	399.4	1519.4
Communication and Public Util	821	969	880	951	931	13.4	-2.1
Retail Trade	1,663	2,587	3,115	3,057	3,156	89.8	3.2
Finance, Insurance, Real Estate	1,604	2,551	3,110	3,936	4,162	159.5	5.7
Business and Personal Services	2,382	3,278	5,373	5,706	6,309	164.9	10.6
Households	7,599	11,930	14,816	17,206	18,630	145.2	8.3
TOTAL	14,938	23,011	28,871	31,124	37,528	151.2	20.6
Total Impacts:							
Construction	1,958	3,378	3,681	2,604	7,061	260.6	171.2
Communications and Public Util	2,321	3,263	3,796	4,190	4,666	101.0	11.4
Retail Trade	10,650	16,501	20,561	22,471	25,744	141.7	14.6
Finance, Insurance, Real Estate	3,629	5,676	7,037	8,313	9,221	154.1	10.9
Business and Personal Services	3,172	4,495	6,917	7,439	8,294	161.5	11.5
Professional Social Services	1,120	1,733	2,171	2,440	2,793	149.4	14.5
Households	17,283	26,780	33,502	37,679	43,096	149.4	14.4
Other ¹	3,504	5,418	6,766	7,473	8,684	147.8	16.2
TOTAL	43,637	67,244	84,431	92,609	109,559	151.1	18.3

¹ Includes agriculture, mining, manufacturing, transportation, and government.

Lake Region State College

Each of the state's college campuses is an important component of that area's local economy. This brief analysis will provide highlights of an economic impact analysis of Lake Region State College in the Devils Lake area. Key economic indicators estimated in the analysis include direct impacts, total level of economic activity, personal income, retail trade, tax revenues, and employment. The Consumer Price Index indicates that inflation during the 10-year period from 1999-2009 was 29 percent.

Expenditures by Lake Region State College comprise the direct impacts, or "first round effects". Expenditures by Lake Region State College were \$6.7 million in FY1999, \$9.2 million in FY2004, \$10.2 million in FY2006, \$11.4 million in FY2008, and \$11.8 million in FY2009 (Appendix Table B3). Expenditures increased over the 10-year period by \$5 million or by 74 percent.

Total impacts associated with Lake Region State College were estimated by applying the North Dakota Input-Output Model coefficients to total direct expenditures. Total economic contribution was estimated at \$19.6 million in FY1999, \$27.3 million in FY2004, \$30.1 million in 2006, \$33.9 million in FY2008, and \$35.2 million in FY2009. The sector with the largest impact was *households* (i.e., personal income of area residents) for each year presented. Personal income increased from \$7.9 million in FY1999 to \$14.5 million in FY2009 or by 80 percent. Other sectors receiving major contributions included *retail trade*, *construction*, *finance*, *insurance*, *and real estate*, and *business and personal services*. Increased retail trade activity was estimated to be \$4.9 million in FY1999, \$6.6 million in FY2004, \$7.2 million in FY2006, \$8.3 million in FY2008, and \$8.5 million in FY2009. Increased levels of retail trade activity would generate \$395,000 in sales and use tax collections for FY2009, compared to compared to \$228,000 in FY1999 and 4386,000 in FY2008. Personal income tax collections were estimated to be \$118,000 in FY1999, \$165,000 in FY2004, \$182,000 in FY2006, \$207,000 in FY2008, and \$218,000 in FY2009 as the result of increased economic activity in the *household* sector.

Levels of business activity resulting from Lake Region State College expenditures would support about 190 secondary (indirect and induced) jobs in 2009. These jobs are in addition to the 264 positions (excluding student jobs) at Lake Region State College in 2009. In the Fall of 2009, 868 full-time equivalent students were enrolled at Lake Region State College.

In addition to the economic impact resulting from the institution's expenditures, spending by students also contributes to the local economy. Direct impacts of student spending in the Devils Lake area was \$6.7 million in FY2009. The total economic contribution was \$16.7 million. Student spending was estimated to generate an additional \$350,000 in sales and use tax revenue, and \$61,000 in personal income tax collections. This level of student spending would create enough business activity to support 74 secondary (indirect and induced) jobs. A detailed analysis of the economic impact resulting from student expenditures is presented in Appendix Table A13.

Appendix Table B3. Direct and Total Economic Impacts for Lake Region State College, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

						Ch	ange
Item	FY1999	FY2004	FY2006	FY2008	FY2009	FY1999- 2009	FY2008- 2009
			\$ 000 -				%
Direct Impacts:							
General Fund	2,145	2,471	2,828	3,220	3,243	51.2	0.7
Nongeneral Fund	3,880	6,077	6,781	8,075	8,398	116.5	4.0
Capital Improvements	<u>723</u>	696	549	64	<u>109</u>	-84.9	70.5
TOTAL	6,748	9,244	10,158	11,359	11,750	74.1	3.4
Direct Impacts by I-O Sector:							
Construction	723	696	549	64	109	-84.9	70.3
Communication and Public Util	225	333	294	307	308	36.9	0.3
Retail Trade	853	874	961	1,217	1,080	26.6	-11.3
Finance, Insurance, Real Estate	694	1,177	1,319	1,569	1,601	130.7	2.0
Business and Personal Services	620	1,189	1,597	1,878	1,881	203.4	0.2
Households	3,633	<u>4,975</u>	5,438	6,324	6,771	86.4	7.1
TOTAL	6,748	9,244	10,158	11,359	11,750	74.1	3.4
Total Impacts:							
Construction	1,216	1,384	1,304	919	1,004	-17.4	9.2
Communications and Public Util	880	1,266	1,332	1,488	1,536	74.5	3.2
Retail Trade	4,935	6,581	7,240	8,329	8,529	72.8	2.4
Finance, Insurance, Real Estate	1,606	2,456	2,729	3,169	3,277	104.0	3.4
Business and Personal Services	970	1,689	2,153	2,512	2,544	162.3	1.3
Professional Social Services	509	713	785	895	939	84.5	4.9
Households	7,881	11,030	12,126	13,822	14,529	84.4	5.1
Other ¹	1,595	2,203	2,421	2,751	2,855	79.0	3.8
TOTAL	19,592	27,322	30,090	33,885	35,213	79.7	3.9

¹ Includes agriculture, mining, manufacturing, transportation, and government.

Mayville State University

Each of the state's college campuses is an important component of that area's local economy. This brief analysis will provide highlights of an economic impact analysis of Mayville State University in the Mayville area. Key economic indicators estimated in the analysis include direct impacts, total level of economic activity, personal income, retail trade, tax revenues, and employment. All dollar values are presented in terms of current year dollars, i.e., the effects of inflation have not been removed. The Consumer Price Index indicates that inflation during the 10-year period from 1999-2009 was 29 percent.

Expenditures by Mayville State University comprise the direct impacts, or "first round effects". Expenditures by Mayville State University were \$9.4 million in FY1999, \$15.8 million in FY2004, \$13.7 million in FY2006, \$14.0 million in FY2008, and \$14.6 million in FY2009 (Appendix Table B4). Expenditures increased over the 10-year period by \$5.2 million or by 55 percent.

Total impacts associated with Mayville State University were estimated by applying the North Dakota Input-Output Model coefficients to total direct expenditures. Total economic contribution was estimated at \$28.4 million in FY1999, \$45.2 million in FY2004, \$41.0 million in 2006, \$41.5 million in FY2008, and \$43.5 million in FY2009. The sector with the largest impact was *households* (i.e., personal income of area residents) for each year presented. Personal income increased from \$11.3 million in FY1999 to \$17.3 million in FY2009 or by 53 percent. Other sectors receiving major contributions included *retail trade, construction, finance, insurance, and real estate*, and *business and personal services*. Increased retail trade activity was estimated to be \$6.8 million in FY1999, \$10.3 million in FY2004, \$10.2 million in FY2006, \$10.2 million in FY2008, and \$\$10.4 million in FY2009. Increased levels of retail trade activity would generate \$483,000 in sales and use tax collections in FY2009, compared to \$317,000 in FY1999 and \$470,000 in FY2008. Personal income tax collections were estimated to be \$170,000 in FY1999, \$251,000 in FY2004, \$248,000 in FY2006, \$246,000 in FY2008, and \$260 in FY2009 as the result of increased economic activity in the *household* sector.

Levels of business activity resulting from Mayville State University expenditures would support about 235 secondary (indirect and induced) jobs in 2009. These jobs are in addition to the 208 positions (excluding student jobs) at Mayville State University in 2009. In the Fall of 2009, 662 full-time equivalent students were enrolled at Mayville State University.

In addition to the economic impact resulting from the institution's expenditures, spending by students also contributes to the local economy. Direct impacts of student spending in the Mayville area was \$4.6 million in FY2009. The total economic contribution was \$11.5 million. Student spending was estimated to generate an additional \$241,000 in sales and use tax revenue and \$42,000 in personal income tax collections. This level of student spending would create enough business activity to support nearly 49 secondary (indirect and induced) jobs. A detailed analysis of the economic impact resulting from student expenditures is presented in Appendix Table A13.

Appendix Table B4. Direct and Total Economic Impacts for Mayville State University, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

						Cha	inge
Item	FY1999	FY2004	FY2006	FY2008	FY2009	FY1999- 2009	FY2008- 2009
			\$ 000			9/	⁄о
Direct Impacts:							
General Fund	3,735	4,420	4,343	4,835	5,108	36.8	5.6
Nongeneral Fund	5,481	7,582	9,220	8,337	8,980	63.8	7.7
Capital Improvements	210	3,778	176	871	521	148.2	-40.2
TOTAL	9,426	15,780	13,739	14,043	14,609	55.0	4.0
Direct Impacts by I-O Sector:							
Construction	210	3,778	176	871	521	148.1	-40.2
Communication and Public Util	458	428	739	864	873	90.6	1.0
Retail Trade	980	1,285	1,697	1,637	1,460	49.0	-10.8
Finance, Insurance, Real Estate	1,799	1,858	2,140	2,135	2,244	24.7	5.1
Business and Personal Services	1,207	2,031	1,616	1,576	2,106	74.5	33.6
Households	<u>4,772</u>	<u>6,400</u>	7,371	6,960	7,405	55.2	6.4
TOTAL	9,426	15,780	13,739	14,043	14,609	55.0	4.0
Total Impacts:							
Construction	914	4,865	1,203	1,900	1,604	75.5	-15.6
Communications and Public Util	1,443	1,912	2,152	2,280	2,380	64.9	4.4
Retail Trade	6,848	10,312	10,220	10,155	10,435	52.4	2.8
Finance, Insurance, Real Estate	3,114	3,857	4,055	4,045	4,263	36.9	5.4
Business and Personal Services	1,736	2,812	2,372	2,328	2,907	67.5	24.9
Professional Social Services	735	1,091	1,072	1,062	1,122	52.7	5.6
Households	11,322	16,782	16,551	16,377	17,301	52.8	5.6
Other ¹	2,304	3,519	3,352	3,359	3,504	52.1	4.3
TOTAL	28,416	45,150	40,977	41,506	43,516	53.1	4.8

¹ Includes agriculture, mining, manufacturing, transportation, and government.

Minot State University

Each of the state's college campuses is an important component of that area's local economy. This brief analysis will provide highlights of an economic impact analysis of Minot State University in the Minot area. Key economic indicators estimated in the analysis include direct impacts, total level of economic activity, personal income, retail trade, tax revenues, and employment. All dollar values are presented in terms of current year dollars, i.e., the effects of inflation have not been removed. The Consumer Price Index indicates that inflation during the 10-year period from 1999-2009 was 29 percent.

Expenditures by Minot State University comprise the direct impacts, or "first round effects". Expenditures by Minot State University were \$30.1 million in FY1999, \$39.4 million in FY2004, \$46.3 million in FY2006, \$44.7 million in FY2008, and \$48.5 million in FY2009 (Appendix Table B5). Expenditures increased over the 10-year period by \$18.4 million or by 61 percent.

Total impacts associated with Minot State University were estimated by applying the North Dakota Input-Output Model coefficients to total direct expenditures. Total economic contribution was estimated at \$89.0 million in FY1999, \$119.8 million in FY2004, \$136.5 million in 2006, \$135.1 million in FY2008, and \$145.5 million in FY2009. The sector with the largest impact was *households* (i.e., personal income of area residents) for each year presented. Personal income increased from \$36.3 million in FY1999 to \$59.9 million in FY2003 or by 65 percent. Other sectors receiving major contributions included *retail trade*, *construction*, *finance*, *insurance*, *and real estate*, and *business and personal services*. Increased retail trade activity was estimated to be \$21.2 million in FY1999, \$28.2 million in FY2004, \$33.0 million in FY2006, \$31.9 million in FY2008, and \$34.2 million in FY2009. Increased levels of retail trade activity would generate \$1.6 million in sales and use tax collections in FY2009. compared to \$981,000 in FY1999 and \$1.5 million in FY2008. Personal income tax collections were estimated to be \$545,000 in FY1999, \$744,000 in FY2004, \$827,000 in FY2006, \$845,000 in FY2008, and \$899,000 in FY2009 as the result of increased economic activity in the *household* sector.

Levels of business activity resulting from Minot State University expenditures would support almost780 secondary (indirect and induced) jobs in 2009. These jobs are in addition to the 582 positions (excluding student jobs) at Minot State University in 2009. In the Fall of 2009, 2,832 full-time equivalent students were enrolled at Minot State University.

In addition to the economic impact resulting from the institution's expenditures, spending by students also contributes to the local economy. Direct impacts of student spending in the Minot area was \$22.8 million in FY2009. The total economic contribution of student spending was \$56.5 million. Student spending was estimated to generate an additional \$1.2 million in sales and use tax revenue and \$206,000 in personal income tax collections. This level of student spending would create enough business activity to support over 300 secondary (indirect and induced) jobs. A detailed analysis of the economic impact resulting from student expenditures is presented in Appendix Table A13.

Appendix Table B5. Direct and Total Economic Impacts for Minot State University, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

						Cha	ange
Item	FY1999	FY2004	FY2006	FY20008	FY2009	FY1999- 2009	FY2008- 2009
			\$ 000				%
Direct Impacts:							
General Fund	16,966	20,712	13,822	14,710	15,159	-10.7	3.0
Nongeneral Fund	9,747	18,019	28,043	28,920	30,204	209.9	4.4
Capital Improvements	3,375	<u>671</u>	4,422	1,031	3,146	-6.8	205.1
TOTAL	30,088	39,402	46,287	44,661	48,509	61.2	8.6
Direct Impacts by I-O Sector:							
Construction	3,375	671	4,422	1,031	3,146	-6.8	205.1
Communication and Public Util	1,063	1,266	1,223	1,338	1,293	21.6	-3.4
Retail Trade	2,450	2,789	4,444	3,139	3,394	38.5	8.1
Finance, Insurance, Real Estate	3,718	6,701	5,891	6,632	6,858	84.5	3.4
Business and Personal Services	2,741	5,269	5,361	6,069	6,160	124.7	1.5
Households	<u>16,741</u>	22,706	24,946	<u>26,452</u>	27,658	65.2	4.6
TOTAL	30,088	39,402	46,287	44,661	48,509	61.2	8.6
Total Impacts:							
Construction	5,633	3,716	7,856	4,487	6,844	21.5	52.5
Communications and Public Util	4,063	5,444	5,850	6,038	6,297	55.0	4.3
Retail Trade	21,185	28,199	32,988	31,928	34,193	61.4	7.1
Finance, Insurance, Real Estate	7,902	12,403	12,269	13,099	13,757	74.1	5.0
Business and Personal Services	4,359	7,541	7,850	8,623	8,873	103.6	2.9
Professional Social Services	2,343	3,209	3,562	3,639	3,870	65.2	6.3
Households	36,308	49,615	55,102	56,338	59,902	65.0	6.3
Other ¹	7,174	9,699	11,013	10,933	11,714	63.3	7.1
TOTAL	88,967	119,826	136,490	135,085	145,450	63.5	7.7

¹ Includes agriculture, mining, manufacturing, transportation, and government.

Dakota College at Bottineau

Each of the state's college campuses is an important component of that area's local economy. This brief analysis will provide highlights of an economic impact analysis of Dakota College at Bottineau in the Bottineau area. Key economic indicators estimated in the analysis include direct impacts, total level of economic activity, personal income, retail trade, tax revenues, and employment. All dollar values are presented in terms of current year dollars, i.e., the effects of inflation have not been removed. The Consumer Price Index indicates that inflation during the 10-year period from 1999-2009 was 29 percent.

Expenditures by Dakota College at Bottineau comprise the direct impacts, or "first round effects". Expenditures by Dakota College at Bottineau were \$4.6 million in FY1999, \$5.4 million in FY2004, \$6.0 million in FY2006, \$6.7 million in FY2008, and \$7.4 million in FY2009 (Appendix Table B6). Expenditures increased over the 10-year period by \$2.8 million or by 62 percent.

Total impacts associated with Dakota College at Bottineau were estimated by applying the North Dakota Input-Output Model coefficients to total direct expenditures. Total economic contribution was estimated at \$13.5 million in FY1999, \$15.9 million in FY2004, \$17.6 million in 2006, \$19.8 million in FY2008, and \$21.9 million in FY2009. The sector with the largest impact was *households* (i.e., personal income of area residents) for each year presented. Personal income increased from \$5.4 million in FY1999 to \$8.8 million in FY2009 pr by 63 percent. Other sectors receiving major contributions included *retail trade, construction, finance, insurance, and real estate*, and *business and personal services*. Increased retail trade activity was estimated to be \$3.3 million in FY1999, \$3.9 million in FY2004, \$4.2 million in FY2006, \$4.9 million in FY2008, and \$5.3 million in FY2009. Increased levels of retail trade activity would generate \$248,000 in sales and use tax collections in FY2009, compared to \$153,000 in FY1999 and \$225,000 in FY2008. Personal income tax collections were estimated to be \$81,000 in FY1999, \$97,000 in FY2004, \$105,000 in FY2006, \$120,000 in FY2008, and \$132,000 in FY2009 as the result of increased economic activity in the *household* sector.

Levels of business activity resulting from Dakota College at Bottineau expenditures would support over 120 secondary (indirect and induced) jobs in 2009. These jobs are in addition to the 143 positions (excluding student jobs) at Dakota College at Bottineau in 2009. In the Fall of 2009, 490 full-time equivalent students were enrolled at Dakota College at Bottineau.

In addition to the economic impact resulting from the institution's expenditures, spending by students also contributes to the local economy. Direct impacts of student spending in the Bottineau area was \$3.6 million in FY2009. The total economic contribution was \$8.8 million. Student spending was estimated to generate an additional \$185,000 in sales and use tax collections and \$32,000 in personal income tax collections. This level of student spending would create enough business activity to support 37 secondary (indirect and induced) jobs. A detailed analysis of the economic impact resulting from student expenditures is presented in Appendix Table A13.

Appendix Table B6. Direct and Total Economic Impacts for Dakota College at Bottineau, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

						Cha	nge
Item	FY1999	FY2004	FY2006	FY2008	FY2009	FY1999- 2009	FY2008- 2009
			\$ 000			9/	6
Direct Impacts:							
General Fund	2,456	2,813	2,248	2,439	2,535	3.2	3.9
Nongeneral Fund	1,878	2,420	3,228	4,025	4,614	145.7	14.6
Capital Improvements	242	<u> 117</u>	<u>477</u>	200	249	2.7	24.3
TOTAL	4,576	5,350	5,953	6,664	7,399	61.7	11.0
Direct Impacts by I-O Sector:							
Construction	242	117	477	200	249	2.9	24.5
Communication and Public Util	212	241	216	250	256	20.8	2.4
Retail Trade	489	601	532	719	783	60.1	8.9
Finance, Insurance, Real Estate	515	756	798	924	966	87.6	4.5
Business and Personal Services	646	727	845	966	1,183	83.1	22.5
Households	<u>2,472</u>	<u>2,908</u>	3,085	3,605	3,962	60.3	9.9
TOTAL	4,576	5,350	5,953	6,664	7,399	61.7	11.0
Total Impacts:							
Construction	581	517	917	698	799	37.5	14.5
Communications and Public Util	674	791	819	934	1,014	50.4	8.6
Retail Trade	3,295	3,923	4,186	4,852	5,349	62.3	10.2
Finance, Insurance, Real Estate	1,146	1,503	1,617	1,853	1,993	73.9	7.6
Business and Personal Services	892	1,021	1,167	1,332	1,588	78.0	19.2
Professional Social Services	351	417	455	518	572	63.0	10.4
Households	5,432	6,449	7,030	8,009	8,830	62.6	10.3
Other ¹	1,088	1,296	1,411	1,607	1,771	62.8	10.2
TOTAL	13,459	15,917	17,602	19,803	21,916	62.8	10.7

¹ Includes agriculture, mining, manufacturing, transportation, and government.

North Dakota State College of Science

Each of the state's college campuses is an important component of that area's local economy. This brief analysis will provide highlights of an economic impact analysis of North Dakota State College of Science in the Wahpeton area. Key economic indicators estimated in the analysis include direct impacts, total level of economic activity, personal income, retail trade, tax revenues, and employment. All dollar values are presented in terms of current year dollars, i.e., the effects of inflation have not been removed. The Consumer Price Index indicates that inflation during the 10-year period from 1999-2009 was 29 percent.

Expenditures by North Dakota State College of Science comprise the direct impacts, or "first round effects". Expenditures by North Dakota State College of Science were \$30.6 million in FY1999, \$34.7 million by FY2004, \$35.6 million in FY2006, \$39.7 million in FY2008, and \$40.5 million in FY2009 (Appendix Table B7). Expenditures increased over the 10-year period by \$9.9 million or by 33 percent.

Total impacts associated with North Dakota State College of Science were estimated by applying the North Dakota Input-Output Model coefficients to total direct expenditures. Total economic contribution was estimated at \$87.5 million in FY1999, \$100.8 million in FY2004, \$103.6 million in 2006, \$115.5 million in FY2008, and \$117.7 million in FY2009. The sector that had the largest impact was *households* (i.e., personal income of area residents) for each year presented. Personal income increased from \$33.5 million in FY1999 to \$45.8 million in FY2009. Other sectors receiving major contributions included *retail trade, construction, finance, insurance, and real estate,* and *business and personal services*. Increased retail trade activity was estimated to be \$22.6 million in FY1999, \$26.0 million in FY2004, \$27.1 million in FY2006, \$29.5 million in FY2008, and \$31 million in FY2009. Increased levels of retail trade activity would generate \$1.44 million in sales and use tax collections, compared to \$1 million in FY1999 and \$1.36 million in FY2008. Personal income tax collections were estimated to be \$503,000 in FY1999, \$588,000 in FY2004, \$607,000 in FY2006, \$665,000 in FY2008, and \$688,000 in FY2009 as the result of increased economic activity in the *household* sector.

Levels of business activity resulting from North Dakota State College of Science expenditures would support over 640 secondary (indirect and induced) jobs in 2009. These jobs are in addition to the 546 positions (excluding student jobs) at North Dakota State College of Science in 2009. In the Fall of 2009, 2,076 full-time equivalent students were enrolled at North Dakota State College of Science.

In addition to the economic impact resulting from the institution's expenditures, spending by students also contributes to the local economy. Direct impacts of student spending in the Wahpeton area was \$16.3 million in FY2009. The total economic contribution was \$40.4 million. Student spending was estimated to generate an additional \$846,000 sales and use tax revenue and \$147,000 in personal income tax collections. This level of student spending would create enough business activity to support 184 secondary (indirect and induced) jobs. A detailed analysis of the economic impact resulting from student expenditures is presented in Appendix Table A13.

Appendix Table B7. Direct and Total Economic Impacts for North Dakota State College of Science, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

						Cha	inge
Item	FY1999	FY2004	FY2006	FY2008	FY2009	FY1999- 2009	FY2008- 2009
			\$ 000			9/	6
Direct Impacts:							
General Fund	15,199	16,116	12,404	14,276	14,736	-3.0	3.2
Nongeneral Fund	12,302	17,777	22,478	25,110	25,382	106.3	1.1
Capital Improvements	3,066	<u>757</u>	739	294	378	-87.7	28.6
TÔTAL	30,567	34,650	35,621	39,680	40,496	32.5	2.1
Direct Impacts by I-O Sector:							
Construction	3,066	757	739	294	378	-87.7	28.6
Communication and Public Util	1,662	1,838	1,693	1,594	1,494	-10.1	-6.3
Retail Trade	4,945	5,543	6,027	6,170	7,075	43.1	14.7
Finance, Insurance, Real Estate	3,416	4,377	4,623	5,193	5,258	53.9	1.3
Business and Personal Services	3,499	5,503	5,176	8,220	6,660	90.3	-19.0
Households	13,979	16,632	17,363	18,209	19,631	40.4	7.8
TOTAL	30,567	34,650	35,621	39,680	40,496	32.5	2.1
Total Impacts:							
Construction	5,204	3,232	3,287	3,102	3,263	-37.3	5.2
Communications and Public Util	4,588	5,302	5,241	5,613	5,542	20.8	-1.3
Retail Trade	22,576	25,999	27,108	29,458	30,999	37.3	5.2
Finance, Insurance, Real Estate	7,361	8,983	9,362	10,445	10,637	44.5	1.8
Business and Personal Services	5,026	7,318	7,041	10,321	8,789	74.9	-14.8
Professional Social Services	2,173	2,544	2,625	2,886	2,977	37.0	3.2
Households	33,495	39,178	40,444	44,330	45,835	36.8	3.4
Other ¹	7,109	8,213	8,490	9,339	9,650	35.7	3.3
TOTAL	87,532	100,769	103,598	115,494	117,692	34.5	1.9

¹ Includes agriculture, mining, manufacturing, transportation, and government.

North Dakota State University

Each of the state's college campuses is an important component of that area's local economy. This brief analysis will provide highlights of an economic impact analysis of North Dakota State University in the Fargo area. Key economic indicators estimated in the analysis include direct impacts, total level of economic activity, personal income, retail trade, tax revenues, and employment. All dollar values are presented in terms of current year dollars, i.e., the effects of inflation have not been removed. The Consumer Price Index indicates that inflation during the 10-year period from 1999-2009 was 29 percent.

Expenditures by North Dakota State University comprise the direct impacts, or "first round effects". Expenditures by North Dakota State University were \$167.6 million in FY1999, \$246.8 million in FY2004, \$284.7 million in FY2006, \$346.0 million in FY2008, and \$\$355.4 million in FY2009 (Appendix Table B8). Expenditures increased over the 10-year period by \$187.7 million or by 112 percent.

Total impacts associated with North Dakota State University were estimated by applying the North Dakota Input-Output Model coefficients to total direct expenditures. Total economic contribution was estimated to be \$490.8 million in FY1999, \$730.6 million in FY2004, \$835.6 million in 2006, \$1 billion in FY2008, and \$1.04 billion in FY2009. The sector with the largest impact was *households* (i.e., personal income of area residents) for each year presented. Personal income increased from \$194.2 million in FY1999 to \$406.5 million in FY2009 or by 109 percent. Other sectors receiving major contributions included *retail trade, construction, finance, insurance, and real estate*, and *business and personal services*. Increased retail trade activity was estimated to be \$125.3 million in FY1999, \$171.7 million in FY2004, \$206.4 million in FY2006, \$250.8 million in FY2008, and \$255.6 in FY2009. Increased levels of retail trade activity would generate \$11.8 million in sales and use tax collections for FY2009, compared to \$5,800,000 in FY1999 and \$11.6 million in FY2008. Personal income tax collections were estimated to be \$2.9 million in FY1999, \$4.4 million in FY2004, \$5 million in FY2006, \$5.7 million in FY2008, and \$6.1 million in FY2009 as the result of increased economic activity in the *household* sector.

Levels of business activity resulting from North Dakota State University expenditures would support almost 5,840 secondary (indirect and induced) jobs in 2009. These jobs are in addition to the 3,769 positions (excluding student jobs) employed at North Dakota State University in 2009. In the Fall of 2009, 12,577 full-time equivalent students were enrolled at North Dakota State University.

In addition to the economic impact resulting from the institution's expenditures, spending by students also contributes to the local economy. Direct impacts of student spending in the Fargo area was \$114.8 million in FY2009. The total economic contribution of student spending was \$285 million. Student spending was estimated to generate an additional \$6 million in sales and use tax revenue and \$1 in personal income tax collections. This level of student spending would create enough business activity to support 1,530 secondary (indirect and induced) jobs. A detailed analysis of the economic impact resulting from student expenditures is presented in Appendix Table A13.

Appendix Table B8. Direct and Total Economic Impacts for North Dakota State University, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

						Cha	nge
Item	FY1999	FY2004	FY2006	FY2008	FY2009	FY1999- 2009	FY2008- 2009
			\$ 000			%)
Direct Impacts:							
General Fund	67,041	70,715	76,513	88,150	98,272	46.6	11.5
Nongeneral Fund	95,014	155,899	193,757	232,749	239,061	151.6	2.7
Capital Improvements	5,581	20,139	14,411	24,765	18,051	223.4	-27.1
TOTAL	167,636	246,753	284,681	345,664	355,384	112.0	2.8
Direct Impacts by I-O Sector:							
Construction	5,581	20,139	14,411	24,765	18,051	223.4	-27.1
Communication and Public Util	8,168	10,185	9,966	11,993	12,696	55.4	5.9
Retail Trade	24,448	20,002	34,301	48,811	43,043	76.1	-11.8
Finance, Insurance, Real Estate	21,879	32,862	36,489	43,731	44,038	101.3	0.7
Business and Personal Services	22,510	35,840	45,494	59,668	64,159	185.0	7.5
Households	85,050	127,725	144,020	156,696	173,397	103.9	10.7
TOTAL	167,636	246,753	284,681	345,664	355,384	112.0	2.8
Total Impacts:							
Construction	17,762	38,417	35,149	49,111	43,680	145.9	-11.1
Communications and Public Util	24,968	35,257	38,690	46,173	48,534	94.4	5.1
Retail Trade	125,268	171,687	206,409	250,758	255,641	104.1	1.9
Finance, Insurance, Real Estate	44,531	66,886	75,136	89,009	91,838	106.2	3.2
Business and Personal Services	31,395	49,228	60,743	77,609	83,082	164.6	7.1
Professional Social Services	12,585	18,903	21,432	24,895	26,391	109.7	6.0
Households	194,198	291,865	330,539	382,838	406,494	109.3	6.2
Other ¹	40,073	58,373	67,452	80,499	83,475	108.3	3.7
TOTAL	490,780	730,616	835,550	1,000,892	1,039,135	111.7	3.8

¹ Includes agriculture, mining, manufacturing, transportation, and government.

University of North Dakota

Each of the state's college campuses is an important component of that area's local economy. This brief analysis will provide highlights of an economic impact analysis of University of North Dakota in the Grand Forks area. Key economic indicators estimated in the analysis include direct impacts, total level of economic activity, personal income, retail trade, tax revenues, and employment. All dollar values are presented in terms of current year dollars, i.e., the effects of inflation have not been removed. The Consumer Price Index indicates that inflation during the 10-year period from 1999-2009 was 29 percent.

Expenditures by University of North Dakota comprise the direct impacts, or "first round effects". Expenditures by University of North Dakota were \$225.4 million in FY1999, \$315.1 million in FY2004, \$341.5 million in FY2006, \$370.5 million in FY2008, \$384.1 million in FY2009 (Appendix Table B9). Expenditures increased over the 10-year period by \$158.7 million or by 70 percent.

Total impacts associated with University of North Dakota were estimated by applying the North Dakota Input-Output Model coefficients to total direct expenditures. Total economic contribution was estimated at \$657.4 million in FY1999, \$931.1 million in FY2004, \$1 billion in 2006, \$1.09 billion in FY2008, and \$1.13 billion in FY2009. The sector that had the largest impact was *households* (i.e., personal income of area residents) for each year presented. Personal income increased from \$255.7 million in FY1999 to \$445.5 million in FY2009 or by 74 percent. Other sectors receiving major contributions included *retail trade, construction, finance, insurance, and real estate*, and *business and personal services*. Increased retail trade activity was estimated to be \$166.0 million in FY1999, \$225.1 million in FY2004, \$243.8 million in FY2006, \$270.7 million in FY2008, and \$278 million in FY2009. Increased levels of retail trade activity would generate \$12.9 million in sales and use tax collections, compared to \$7,686,000 in FY1999 and \$12.5 million in FY 2008. Personal income tax collections were estimated to be \$3.8 million in FY1999, \$5.5 million in FY2004, \$6 million in FY2006, \$6.4 million in FY2008, and \$6.7 million in FY2009 as the result of increased economic activity in the *household* sector.

Levels of business activity resulting from University of North Dakota expenditures would support 6,420 secondary (indirect and induced) jobs in 2009. These jobs are in addition to the 4,394 positions (excluding student jobs) at University of North Dakota in 2009. In the Fall of 2009, 11,306 full-time equivalent students were enrolled at University of North Dakota.

In addition to the economic impact resulting from the institution's expenditures, spending by students also contributes to the local economy. Direct impacts of student spending in the Grand Forks area was \$104.3 million in FY2009. The total economic contribution of student spending was \$259 million. Student spending was estimated to generate an additional \$5.4 million in sales and use tax revenue and \$943,000 in personal income tax collections. This level of student spending would create enough business activity to support about 1,210 secondary (indirect and induced) jobs. A detailed analysis of the economic impact resulting from student expenditures is presented in Appendix Table A13.

Appendix Table B9. Direct and Total Economic Impacts for University of North Dakota, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

						Cha	nge
Item	FY1999	FY2004	FY2006	FY2008	FY2009	FY1999- 2009	FY2008- 2009
			\$ 000			%)
Direct Impacts:							
General Fund	62,990	62,320	66,308	77,379	81,708	29.7	5.6
Nongeneral Fund	152,076	227,572	259,366	281,470	298,233	96.1	6.0
Capital Improvements	10,342	25,178	15,804	11,638	4,194	-59.4	-64.0
TOTAL	225,408	315,070	341,478	370,487	384,135	70.4	3.7
Direct Impacts by I-O Sector:							
Construction	10,342	25,178	15,804	11,638	4,194	-59.4	-64.0
Communication and Public Util	9,024	9,914	9,566	11,946	12,395	37.4	3.8
Retail Trade	32,174	33,193	35,697	48,859	45,793	42.3	-6.3
Finance, Insurance, Real Estate	29,732	47,425	47,815	51,643	50,013	68.2	-3.2
Business and Personal Services	36,108	42,150	61,087	68,032	80,527	123.0	18.4
Households	108,028	157,210	<u>171,509</u>	178,369	<u>191,213</u>	77.0	7.2
TOTAL	225,408	315,070	341,478	370,487	384,135	70.4	3.7
Total Impacts:							
Construction	26,482	48,230	40,803	38,322	32,148	21.4	-16.1
Communications and Public Util	31,569	41,692	44,526	49,586	51,988	64.7	4.8
Retail Trade	166,004	225,096	243,773	270,693	278,047	67.5	2.7
Finance, Insurance, Real Estate	59,779	90,315	94,538	101,496	102,398	71.3	0.9
Business and Personal Services	47,993	59,150	79,713	87,938	101,464	111.4	15.4
Professional Social Services	16,607	23,853	25,904	27,556	28,945	74.3	5.0
Households	255,739	367,831	399,082	423,970	445,484	74.2	5.21
Other ¹	53,259	74,979	80,995	87,740	90,939	70.7	3.6
TOTAL	657,432	931,146	1,009,334	1,087,301	1,131,413	72.1	4.1

¹ Includes agriculture, mining, manufacturing, transportation, and government.

Valley City State University

Each of the state's college campuses is an important component of that area's local economy. This brief analysis will provide highlights of an economic impact analysis of Valley City State University in the Valley City area. Key economic indicators estimated in the analysis include direct impacts, total level of economic activity, personal income, retail trade, tax revenues, and employment. All dollar values are presented in terms of current year dollars, i.e., the effects of inflation have not been removed. The Consumer Price Index indicates that inflation during the 10-year period from 1999-2009 was 29 percent.

Expenditures by Valley City State University comprise the direct impacts, or "first round effects". Expenditures by Valley City State University were \$13.4 million in FY1999, \$17.0 million in FY2004, 16.4 million in FY2006, \$18.7 million in FY2008, and \$19.2 million in FY2009 (Appendix Table B10). Expenditures increased over the 10-year period by \$5.9 million or by 44 percent.

Total impacts associated with Valley City State University were estimated by applying the North Dakota Input-Output Model coefficients to total direct expenditures. Total economic contribution was estimated at \$39.3 million in FY1999, \$50.1 million in FY2004, \$48.8 million in 2006, \$55.7 million in FY2008, \$57 million in FY2009. The sector that had the largest impact was *households* (i.e., personal income of area residents) for each year presented. Personal income increased from \$15.5 million in FY1999 to \$22.7 million in FY2009 or by 47 percent. Other sectors receiving major contributions included *retail trade, construction, finance, insurance, and real estate*, and *business and personal services*. Increased retail trade activity was estimated to be \$9.5 million in FY1999, \$11.5 million in FY2004, \$11.8 million in FY2006, \$13.0 million in FY2008, and \$13.5 million in FY2009. Increased levels of retail trade activity would generate \$624,000 in sales and use tax collections in FY2009, compared to \$439,000 in FY1999 and \$603,000 in FY2008. Personal income tax collections were estimated to be \$232,000 in FY1999, \$289,000 in FY2004, \$291,000 in FY2006, \$331,000 in FY2008, and \$341,000 in FY2009 as the result of increased economic activity in the *household* sector.

Levels of business activity resulting from Valley City State University expenditures would support over 320 secondary (indirect and induced) jobs in 2009. These jobs are in addition to the 206 positions (excluding student jobs) at Valley City State University in 2009. In the Fall of 2009, 833 full-time equivalent students were enrolled at Valley City State University.

In addition to the economic impact resulting from the institution's expenditures, spending by students also contributes to the local economy. Direct impacts of student spending in the Valley City area was \$6.6 million in FY2009. The total economic contribution of student spending was \$16.4 million. These levels of business activity would generate an additional \$344,000 in sales and use tax revenue and \$60,000 in personal income tax collections. This level of student spending would create enough business activity to support 70 secondary (indirect and induced) jobs. A detailed analysis of the economic impact resulting from student expenditures is presented in Appendix Table A13.

Appendix Table B10. Direct and Total Economic Impacts for Valley City State University, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

					_	Char	nge
Item	FY1999	FY2004	FY2006	FY2008	FY2009	FY1999- 2009	FY2008- 2009
			\$ 000			%	
Direct Impacts:							
General Fund	5,152	5,943	5,850	6,754	7,073	37.32	4.7
Nongeneral Fund	7,364	8,657	10,229	10,614	11,181	51.8	5.3
Capital Improvements	841	2,423	295	1,291	984	17.0	-23.8
TÔTAL	13,357	17,023	16,374	18,659	19,237	44.0	3.1
Direct Impacts by I-O Sector:							
Construction	841	2,423	295	1,291	984	17.0	-23.8
Communication and Public Util	794	672	699	618	609	-23.3	-1.5
Retail Trade	1,413	1,330	1,702	1,525	1,659	17.4	8.8
Finance, Insurance, Real Estate	1,744	2,636	2,532	2,971	2,586	48.3	-13.0
Business and Personal Services	1,938	2,253	2,849	2,880	3,488	80.0	21.1
Households	6,627	7,709	8,297	9,374	9,911	49.6	5.7
TOTAL	13,357	17,023	16,374	18,659	19,237	44.0	3.1
Total Impacts:							
Construction	1,817	3,648	1,506	2,672	2,406	32.4	-10.0
Communications and Public Util	2,143	2,367	2,402	2,538	2,590	20.9	2.0
Retail Trade	9,479	11,521	11,771	13,032	13,487	42.3	3.5
Finance, Insurance, Real Estate	3,558	4,907	4,798	5,548	5,245	47.4	-5.5
Business and Personal Services	2,650	3,155	3,756	3,909	4,545	71.5	16.3
Professional Social Services	1,004	1,254	1,259	1,433	1,475	46.9	2.9
Households	15,485	19,295	19,385	22,077	22,744	46.9	3.0
Other ¹	3,153	3,960	3,927	4,447	4,556	44.5	2.5
TOTAL	39,289	50,107	48,804	55,656	57,048	45.2	2.5

¹ Includes agriculture, mining, manufacturing, transportation, and government.

Williston State College

Each of the state's college campuses is an important component of that area's local economy. This brief analysis will provide highlights of an economic impact analysis of Williston State College in the Williston area. Key economic indicators estimated in the analysis include direct impacts, total level of economic activity, personal income, retail trade, tax revenues, and employment. All dollar values are presented in terms of current year dollars, i.e., the effects of inflation have not been removed. The Consumer Price Index indicates that inflation during the 10-year period from 1999-2009 was 29 percent.

Expenditures by Williston State College comprise the direct impacts, or "first round effects". Expenditures by Williston State College were \$6.1 million in FY1999, \$10.1 million in FY2004, \$9.2 million in FY2006, \$10.9 million in FY2008, and \$12.1 million in FY2009 (Appendix Table B11). Expenditures increased over the 10-year period by \$5.9 million or by 96 percent.

Total impacts associated with Williston State College were estimated by applying the North Dakota Input-Output Model coefficients to total direct expenditures. Total economic contribution was estimated at \$17.8 million in FY1999, \$29.1 million in FY2004, \$27.2 million in 2006, \$31.3 million in FY2008, and \$34.5 million in FY2009. The sector that had the largest impact was *households* (i.e., personal income of area residents) for each year presented. Personal income increased from \$7.2 million in FY1999 to \$13.2 million in FY2009 or by 85 percent. Other sectors receiving major contributions included *retail trade, construction, finance, insurance, and real estate*, and *business and personal services*. Increased retail trade activity was estimated at \$4.7 million in FY1999, \$7.3 million in FY2004, \$6.9 million in FY2006, \$8.8 million in FY2008, and \$9 million in FY2009. Increased levels of retail trade activity would generate \$415,000 in sales and use tax collections in FY2009, compared to \$218,000 in FY1999 and\$408,000 in FY2008. Personal income tax collections were estimated to be \$107,000 in FY1999, \$170,000 in FY2004, \$165,000 in FY2006, \$183,000 in FY2008, and \$198,000 in FY2009 as the result of increased economic activity in the *household* sector.

Levels of business activity resulting from Williston State College expenditures would support over 190 secondary (indirect and induced) jobs in 2009. These jobs are in addition to the 143 positions (excluding student jobs) at Williston State College in 2009. In the Fall of 2009, 573 full-time equivalent students were enrolled at Williston State College.

In addition to the economic impact resulting from the institution's expenditures, spending by students also contributes to the local economy. Direct impacts of student spending in the Williston area was \$4 million in FY2009. The total economic contribution of student spending was \$10 million. Student spending was estimated to generate an additional \$210,000 in sales and use tax revenue and \$36,000 in personal income tax collections. This level of student spending would create enough business activity to support 42 secondary (indirect and induced) jobs. A detailed analysis of the economic impact resulting from student expenditures is presented in Appendix Table A13.

Appendix Table B11. Direct and Total Economic Impacts for Williston State College, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

						Cha	inge
Item	FY1999	FY2004	FY2006	FY2008	FY2009	FY1999- 2009	FY2008- 2009
			\$ 000			9	6
Direct Impacts:							
General Fund	2,394	2,606	2,808	3,295	3,287	37.3	-0.2
Nongeneral Fund	3,388	6,365	6,203	7,429	7,849	131.7	5.6
Capital Improvements	363	1,117	_192	204	933	157.1	357.5
TOTAL	6,145	10,088	9,203	10,928	12,069	96.4	10.4
Direct Impacts by I-O Sector:							
Construction	363	1,117	192	204	933	157.0	357.4
Communication and Public Util	157	256	277	300	316	101.3	5.3
Retail Trade	1,001	1,318	1,271	2,478	2,001	99.9	-19.2
Finance, Insurance, Real Estate	640	1,046	1,253	1,389	1,256	96.3	-9.6
Business and Personal Services	645	1,449	1,225	1,242	1,976	206.4	59.1
Households	<u>3,339</u>	4,902	<u>4,985</u>	5,315	5,587	67.3	5.1
TOTAL	6,145	10,088	9,203	10,928	12,069	96.4	10.4
Total Impacts:							
Construction	810	1,834	873	970	1,775	119.1	83.0
Communications and Public Util	756	1,234	1,210	1,355	1,483	96.2	9.4
Retail Trade	4,703	7,261	6,931	8,828	8,971	90.8	1.6
Finance, Insurance, Real Estate	1,468	2,374	2,523	2,809	2,817	91.9	0.3
Business and Personal Services	964	1,966	1,725	1,798	2,587	168.4	43.9
Professional Social Services	463	733	710	789	859	85.5	8.9
Households	7,164	11,320	10,972	12,172	13,224	84.6	8.6
Other ¹	1,468	2,340	2,227	2,625	2,800	90.7	6.7
TOTAL	17,796	29,062	27,171	31,346	34,516	94.0	10.1

¹ Includes agriculture, mining, manufacturing, transportation, and government.

North Dakota University System Office

Each of the state's college campuses is an important component of that area's local economy. This brief analysis will provide highlights of an economic impact analysis of North Dakota University System Office in the Bismarck area. Key economic indicators estimated in the analysis include direct impacts, total level of economic activity, personal income, retail trade, tax revenues, and employment. All dollar values are presented in terms of current year dollars, i.e., the effects of inflation have not been removed. The Consumer Price Index indicates that inflation during the 10-year period from 1999-2009 was 29 percent.

Expenditures by North Dakota University System Office comprise the direct impacts, or "first round effects". Expenditures by North Dakota University System Office were \$6.1 million in FY1999, \$17.3 million in FY2004, \$6.1 million in FY2006, \$9.4 million in FY2008, and \$9 million in FY2009 (Appendix Table B12). Expenditures increased over the 10-year period by \$2.9 million or by 48 percent.

Total impacts associated with North Dakota University System Office were estimated by applying the North Dakota Input-Output Model coefficients to total direct expenditures. Total economic contribution was estimated at \$18.3 million in FY1999, \$53.6 million in FY2004, \$18.7 million in 2006, \$28.8 million in FY2008, and \$27.7 million in FY2009. The sector that had the largest impact was *households* (i.e., personal income of area residents) for each year presented. Personal income has grown from \$7.6 million in FY1999 to \$13 million in FY2009. Other sectors receiving major contributions included *retail trade, construction, finance, insurance, and real estate*, and *business and personal services*. Increased retail trade activity was estimated to be \$4.2 million in FY1999, \$10.7 million in FY2004, \$4.4 million in FY2006, \$6.8 million in FY2008, and \$6.6 million in FY2009. Increased levels of retail trade activity would generate \$304,000 in sales and use tax collections for FY2009, compared to \$193,000 in FY1999 and \$315,000 in FY2008. Personal income tax collections were estimated to be \$114,000 in FY1999, \$279,000 in FY2004, \$130,000 in FY2006, \$205,000 in FY2008, and \$196,000 as the result of increased economic activity in the *household* sector.

Levels of business activity resulting from North Dakota University System Office expenditures would support over 135 secondary (indirect and induced) jobs in 2009. These jobs are in addition to the 22 positions at the North Dakota University System Office in 2009.

Appendix Table B12. Direct and Total Economic Impacts for the North Dakota University System Office, Fiscal Years 1999, 2004, 2006, 2008, and 2009 (Current Year Dollars)

						Change	
Item	FY1999	FY2004	FY2006	FY2008	FY2009	FY1999- 2009	FY2008- 2009
		\$ 000			%		
Direct Impacts:							
General Fund	4,202	15,096	5,934	8,664	8,280	97.0	-4.4
Nongeneral Fund	1,918	2,169	178	715	765	-60.1	7.0
Capital Improvements							
TOTAL	6,120	17,265	6,112	9,379	9,044	47.8	-3.6
Direct Impacts by I-O Sector:							
Construction							
Communication and Public Util	16	20	23	20	20	25.0	0.0
Retail Trade	273	482	96	128	160	-41.4	25.0
Finance, Insurance, Real Estate	189	5,617	356	512	472	149.7	-7.8
Business and Personal Services	1,773	6,777	652	696	756	-57.4	8.6
Households	<u>3,869</u>	4,369	<u>4,985</u>	<u>8,023</u>	<u>7,363</u>	97.4	-4.8
TOTAL	6,120	17,265	6,112	9,379	9,044	47.8	-3.6
Total Impacts:							
Construction	470	1,198	516	805	772	64.3	-4.1
Communications and Public Util	661	1,999	675	1,020	982	48.6	-3.7
Retail Trade	4,166	10,742	4,380	6,808	6,560	57.5	-3.6
Finance, Insurance, Real Estate	1,076	7,916	1,323	2,019	1,916	78.1	-5.1
Business and Personal Services	2,118	7,827	1,017	1,259	1,296	-38.8	2.9
Professional Social Services	492	1,239	555	869	831	68.9	-4.4
Households	7,626	18,596	8,690	13,636	13,043	71.0	-4.3
Other ¹	1,421	4,040	1,532	2,376	2,282	60.6	-4.0
TOTAL	18,030	53,557	18,688	28,792	27,682	53.5	-3.9

¹ Includes agriculture, mining, manufacturing, transportation, and government.