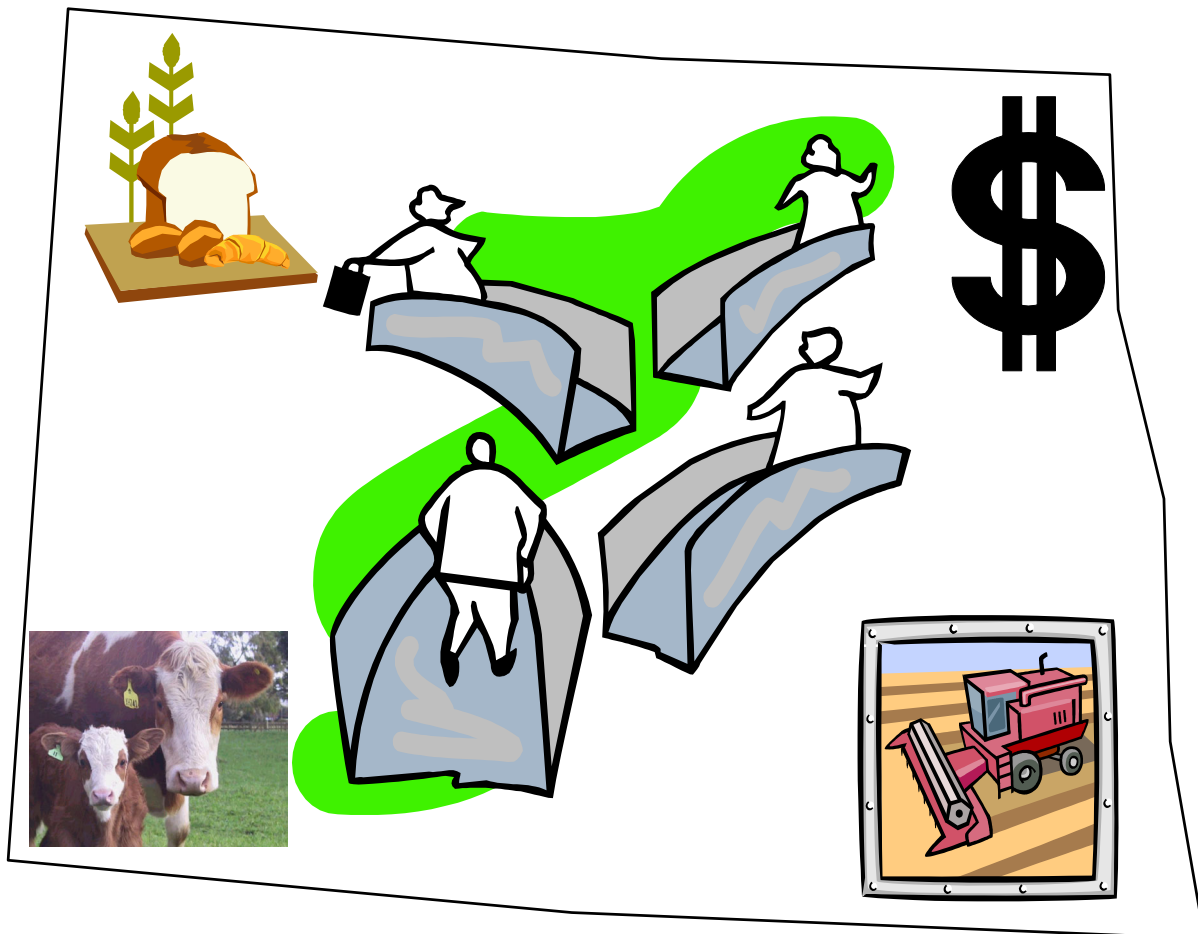


The Role of Agriculture in the North Dakota Economy

by

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Abstract

The purpose of this report is to assess the role of agriculture in the North Dakota economy. This analysis is both statewide and regional in perspective (data are provided for each of the state's eight planning regions). Key indicators used in the analysis include sales for final demand (i.e., sales to out-of-state markets), gross business volume (gross receipts), gross state product (value added), and direct employment for each economic sector.

The analysis reveals that, although its role in the North Dakota economy has been reduced in a relative sense, agriculture remains a cornerstone of the state economy and remains the largest goods and services exporting sector. While agriculture accounts for smaller shares of state sales for final demand, gross business volume, and gross state product than was the case 10 or 20 years ago, the decrease in agriculture's relative importance in most cases merely signifies that other sectors (e.g., manufacturing) have grown more rapidly. Thus, agriculture's decreasing share of sales for final demand or gross state product to a large extent reflects the success of long-term efforts to diversify the North Dakota economy.

The agriculture sector has contributed to North Dakota's economic growth and diversification by serving as a source of commodities for further value-added processing (e.g., durum, potatoes) and as a market for farm input manufacturers. Manufacturing has been the largest single source of growth in gross state product over the past two decades, and both farm input manufacturing (part of durable goods manufacturing) and food processing (part of nondurable goods manufacturing) have been substantial sources of that growth.

The importance of agriculture to North Dakota's economy can be highlighted:

- Agriculture accounts for one-fourth of basic economic activity and almost 36 percent of all exports of goods and services
- Agriculture directly employs almost 11 percent of the state's workers and generates more than \$6 billion in business activity (gross receipts)
- North Dakota ranks second in the nation in the percentage of gross state product derived from agriculture

Key words: economic base, value added, economic indicators

The Role of Agriculture in the North Dakota Economy

F. Larry Leistritz, David K. Lambert, and Randal C. Coon¹

North Dakota's economy historically has been closely tied to natural resource-intensive industries, particularly agriculture and energy extraction/conversion industries. This report addresses agriculture's role in the state's economy. This is accomplished by analyzing information from two major data bases – economic base (or sales for final demand) and gross state product.

Recent problems in the farm sector, including low commodity prices and adverse weather, have contributed to the long-term trend of declining farm numbers. But, how these declining farm numbers have impacted agriculture's role in the state economy has not been evaluated for several years. (For an earlier analysis, see Coon et al. 1992.)

North Dakota's population has shifted from being predominately rural to one with a majority of persons living in urban places (45.6% in 1980, 53.3% in 1990 and 55.0% in 2000, based on the U.S. Census Bureau definition that classifies towns with 2,500 or more residents as urban) (U.S. Bureau of the Census 1991, 2001). This population shift gives rise to questions about how the economy has restructured with this shift.

Objective

The purpose of this report is to assess the role of agriculture in the North Dakota economy. This analysis is both statewide and regional in perspective (Figure 1). Economic changes occurring within the state vary from region to region, and the state's regions have economies that are quite different from one another. Also, the relative importance of agriculture in North Dakota is compared to other nearby states. *Gross state product* (a state-level measure analogous to gross national product) is used to compare the agricultural sector's relative importance among states.

Economic Base Analysis and Input-Output Analysis

North Dakota's economic base can be described as those activities that produce products or services sold to markets outside North Dakota, thus bringing money into the state. These basic sector (or *primary sector*) activities include agriculture, federal government outlays, manufacturing, tourism, energy extraction/conversion, and exported services (Coon and Leistritz 2001). Input-output analysis is a technique that is often used to analyze linkages and interdependencies within state or regional economies. Receipts from basic sector activities (sometimes called basic income) are distributed to 11 sectors of the North Dakota Input-Output Model as sales to final demand (exports) (Table 1). (Appendix A, Table 1 contains a detailed sector description for the North Dakota Input-Output Model.) Data used in estimating the sales for final demand were obtained from a variety of sources. A complete description of the data

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sources and methods used to develop estimates of the final demand vectors (i.e., estimates of sales to final demand by the various sectors over time) can be found in Appendix D. (For a complete discussion of the North Dakota Input-Output Model, see Coon et al. 1985.)

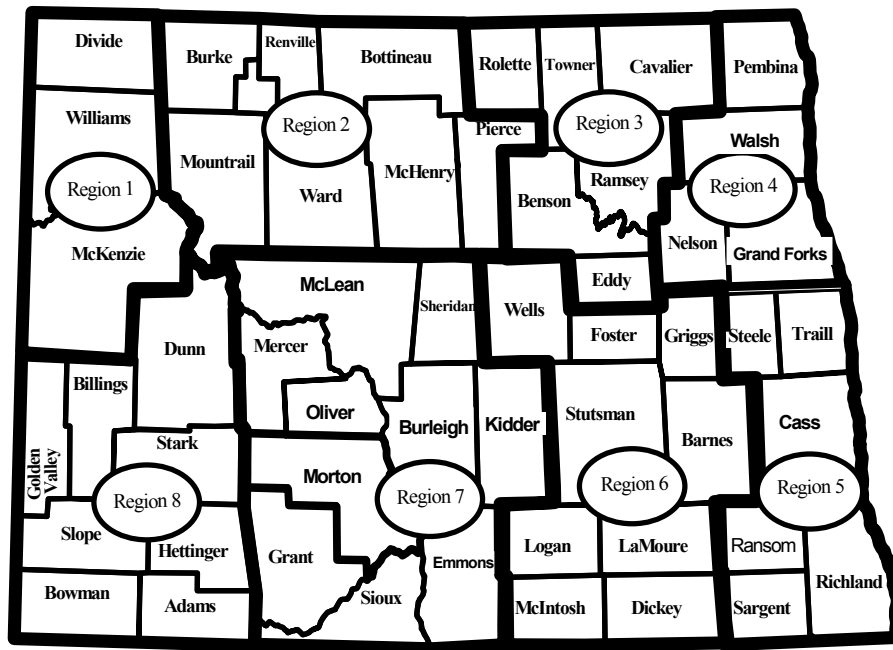


Figure 1. North Dakota State Planning Regions

Table 1. Basic Sector Activities and Corresponding Input-Output Sectors for the North Dakota Input-Output Model

Basic Sector Activity	Input-Output Model Sectors
Agriculture	Agriculture, Livestock Agriculture, Crops
Federal Government Operations	Contract Construction Households
Manufacturing	Agricultural Processing and Miscellaneous Manufacturing
Tourism	Retail Trade Business and Personal Services
Energy	Coal Mining Thermal-Electric Generation Petroleum and Natural Gas Exploration and Extraction Petroleum Refining Households ^a
Exported Services	Business and Personal Services

^a Estimated petroleum lease bonus payments for selected years were included in the Households sector.

Input-Output Model

Final demand vectors were first estimated in terms of the prices for goods and services that existed in each respective year, termed current year dollars. To remove the effects of economy-wide inflation, the current year dollar sales to final demand (exports) were converted to constant dollars. Constant dollar values show the real growth that has occurred in the state economy. Gross National Product Implicit Price Deflators (U.S. Department of Commerce 2001) were used to convert the current dollar sales to final demand to constant 2000 dollar values. (Appendix A, Table 2 gives the annual deflators used to convert current dollars to 2000 base dollars.) Current dollar sales for final demand for North Dakota and State Planning Regions 1-8 are presented in Appendix A, Tables 3-11, respectively.

Application of the sales for final demand to the input-output multipliers yields estimates of gross business volume. Gross business volume is the total dollars of business activity (i.e., the gross receipts of the various economic sectors) that occur when the state's exported products bring money into the state and set in motion the cycle of spending and respending, sometimes referred to as the multiplier process (Leistriz 1998, Leistriz and Murdock 1981). Current dollar gross business volumes for North Dakota and State Regions 1-8 are presented in Appendix A, Tables 12-20. The input-output interdependence coefficients (multipliers) used to generate the state and regional gross business volume estimates are shown in Appendix A, Table 21.

Model Validation

The gross business volume of the household sector is, by definition, personal income. The accuracy of the input-output model has been tested by comparing personal income estimates from the model with personal income reported by the Bureau of Economic Analysis, U.S. Department of Commerce. It is important to remember that the Department of Commerce estimates are in current year dollars, so household sector gross business volumes must be expressed in similar terms to yield valid comparisons. North Dakota personal income estimates from the input-output model had an average absolute deviation of 7.2 percent and a mean difference of -4.1 percent from Department of Commerce values for the period 1958-2000 (Table 2). The Thiel's U_1 coefficient of 0.05 indicates that the model should be quite reliable for prediction purposes. Table 2 presents a summary of several statistical tests used to validate the input-output model for the eight state planning regions and for North Dakota. (A detailed year-by-year comparison of results for each region and the state is presented in Appendix A, Tables 22-30.)

Constant Dollar Sales for Final Demand

Current dollar sales for final demand can be converted to constant dollar values by using the Gross National Product Implicit Price Deflators (as previously discussed). For purposes of this analysis (i.e., a time series), constant dollar values are used to remove the effects of economy-wide inflation. This provides an indication of real economic growth in the state, as opposed to general price increases.

Table 2. Comparison of Statistical Tests for the Input-Output Model Personal Income Estimation, North Dakota Regions 1-8 and State, 1958-2000

Area	Average Absolute Difference ^a	Mean Difference ^b	Standard Deviation ^c	Theil's Coefficient ^d
Region 1	9.63	3.24	12.2	0.06
Region 2	8.12	5.15	9.21	0.05
Region 3	24.87	24.51	12.21	0.13
Region 4	7.18	2.99	10.06	0.03
Region 5	26.89	-26.68	13.35	0.25
Region 6	9.53	8.90	7.37	0.06
Region 7	8.30	-8.17	5.82	0.07
Region 8	11.45	9.69	11.06	0.07
State	7.20	-4.12	7.71	0.05

^aAverage absolute difference is the sum of the absolute values of the percent difference of I-O estimates and U.S. Department of Commerce estimates in each year divided by the number of years.

^bMean difference is the sum of the percent difference of the I-O estimate and U.S. Department of Commerce estimates for each year divided by the number of years.

^cStandard deviation is for the difference of the I-O estimate and U.S. Department of Commerce estimates.

^dTheil's coefficient is calculated using the formula:

$$U_1 = \frac{\sqrt{\frac{1}{T} \sum (Y_s - Y_a)^2}}{\sqrt{\frac{1}{T} \sum (Y_s)^2} \sqrt{\frac{1}{T} \sum (Y_a)^2}}$$

Where: T = time period

Y_s = input-output value of Y (personal income)

Y_a = U.S. Department of Commerce value of Y (personal income)

Table 3 presents the North Dakota sales for final demand for the basic economic sectors for the 1958-2000 period, expressed in constant year 2000 dollars. Similar tables for State Regions 1-8 are presented in Appendix B, Tables 1-8. The importance of agriculture to the state's economy can be evaluated by determining the percentage of the total that is comprised of livestock and crop sales. Crop sales include federal government farm program payments. Prices and production in the agricultural sectors will vary from year to year, thus affecting the percentage of the total economic base attributed to agriculture. The intent of this report is not to analyze yearly variation but rather to evaluate agriculture's role in the state economy and salient trends over the long term. For this reason, the state and regions are summarized using the selected years 1960, 1970, 1980, 1990, and 2000.

Agricultural sales for final demand have grown from just over \$2.7 billion in 1960 to over \$3.5 billion in 2000, during which time statewide total sales for final demand went from \$4.3 billion to \$14.3 billion (Table 4). Among the years selected for examination (1960, 1970, 1980, 1990, and 2000), the agricultural sales for final demand (inflation-adjusted) were highest in 1980 (\$4.7 billion).

Table 4 also presents corresponding data for each of the eight state planning regions. Annual sales for final demand for the state regions are given in Appendix B, as previously mentioned. In 1960, 1970, and 1990 State Region 6 had the highest absolute level of agricultural sales for final demand, and Region 5 had the greatest amount of agricultural sales in 1980 and 2000. State Region 7 had the highest total sales for final demand for 1960, 1980, 1990, and 2000, with the energy sectors (coal extraction and conversion and petroleum refining) contributing an important part of its basic activity. Region 4 had the highest total sales for final demand in 1970, because of a major increase in federal spending associated with the Anti-Ballistic Missile (ABM) project near Langdon.

Table 5 presents a summary of the relationship that exists between agricultural and total sales for final demand for the state and each region. The portion of North Dakota's total economic base attributable to agriculture was 62.9 percent in 1960, dropped to 46.8 percent in 1970, declined further to 43.9 percent in 1980 and 37.1 percent in 1990, and was only 24.9 percent in 2000. Although these percentages reflect only selected years, a pattern is apparent. North Dakota's dependence on agriculture has been reduced from nearly two-thirds in 1960 to only one-fourth in 2000. However, agriculture remains an essential cornerstone of the state economy. In 2000, agriculture was still substantially the largest goods and services exporting sector of the North Dakota economy, accounting for almost 36 percent of all exports of goods and services (federal payments, other than commodity program payments, are not included in this calculation). Further, much of the growth of the manufacturing sector over the decade of the 1990s has been associated with expanded processing of North Dakota's agricultural commodities (a.k.a. value-added processing) and with farm input manufacturing. [A second report from this study will address agriculturally-linked manufacturing.]

The state regions show substantial variation in their level of dependence on agriculture. The most agriculturally-dependent regions in 1960 were Regions 6, 8, and 3, in each of which agricultural commodities accounted for more than 70 percent of sales for final demand. In 2000, the most agriculturally-dependent regions were 6, 5, and 4 with agriculture accounting for 43, 33, and 30 percent of sales for final demand, respectively.

The composition of North Dakota's economic base in 2000 is illustrated in Figure 2, where the components of the state's sales for final demand are categorized by the type of economic activity generating the flow of funds. Thus, agricultural crop and livestock sales (I-O sectors 1 and 2) are grouped together as *agriculture*, expenditures by out-of-state visitors (I-O sectors 8 and 10) are categorized as *tourism*, exports of energy products (sectors 14, 15, 16, and 17) are described as *energy extraction/conversion*, exports of manufactured products (including food products and farm inputs) (sector 7) are described as *manufacturing*, while activities involving service activities primarily serving out-of-state markets or clients (sector 10) are classified as *exported services*. *Federal payments* is a category that includes not only salaries and wages of federal employees (sector 12), and federally funded construction (sector 4), but also payments to landowners participating in land retirement or easement programs (e.g., the Conservation Reserve Program) and transfer payments. In 2000, federal payments constituted 30 percent of North Dakota's economic base, agricultural commodity exports constituted 24.9 percent, the tourism industry accounted for 19.8 percent, energy extraction/conversion – 12.5 percent, manufacturing – 10.1 percent, and exported services – 2.7 percent.

The changes in North Dakota's economic base that occurred from 1990 to 2000 are summarized in Figure 3. North Dakota's total sales for final demand (adjusted for inflation) increased from \$10.3 billion in 1990 to \$14.3 billion in 2000, an increase of 39 percent. All the major types of primary sector activity increased except agriculture, which registered a 6.6 percent drop in constant dollar sales for final demand over the decade. As a result, agriculture's share of state sales for final demand fell from 37 percent in 1990 to 25 percent in 2000. The tourism sector grew from 4 percent of sales for final demand in 1990 to 20 percent in 2000, while manufacturing grew from 8 percent in 1990 to 10 percent in 2000. The exported services sector, which accounted for a negligible share of state exports in 1990, had grown to 3 percent of sales for final demand in 2000.

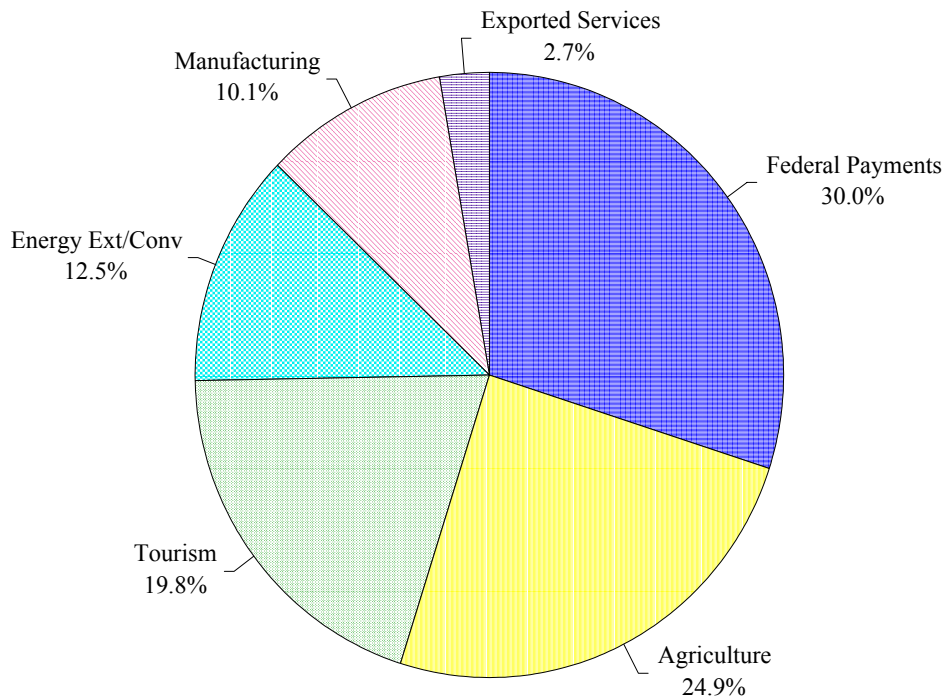


Figure 2. Composition of North Dakota's Economic Base, 2000

Table 3. Sales for Final Demand, by Economic Sector, North Dakota, Million Dollars (2000 = Base Dollars), 1958-2000

Year	Ag Lvstk	Ag Crops	Constr	Ag Proc & Misc Mfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Thermal Elec Gen	Pet Exp/Ext	Pet Refining	Total
1958	1,089.5	2,177.5	90.5	309.1	81.6	27.2	924.8	5.4	0.0	26.7	64.8	4,797.2
1959	1,063.1	1,932.0	133.1	278.9	88.1	29.4	912.4	4.9	0.0	53.3	63.1	4,558.2
1960	846.1	1,885.7	157.7	318.9	71.9	24.1	906.4	4.8	0.0	69.9	60.3	4,345.9
1961	1,020.5	1,630.2	114.5	322.0	82.1	27.7	1,131.7	6.2	0.0	100.2	60.1	4,495.2
1962	938.3	2,244.8	77.7	294.7	88.0	29.7	1,620.5	7.1	0.0	107.3	58.9	5,467.0
1963	966.5	2,527.2	79.6	339.7	101.0	33.5	1,556.5	6.0	0.0	108.4	58.2	5,776.6
1964	978.4	2,069.7	138.5	359.6	120.2	39.9	2,225.7	6.9	0.0	118.8	58.3	6,116.1
1965	1,113.9	2,495.5	139.5	352.8	148.5	49.5	1,626.5	6.8	0.0	126.0	60.3	6,119.3
1966	1,188.2	2,667.0	102.0	368.5	196.9	65.6	1,875.7	5.7	19.3	130.0	61.3	6,680.1
1967	1,192.8	2,413.6	103.6	389.4	232.3	77.3	1,617.0	8.9	35.7	118.9	62.0	6,251.4
1968	1,075.3	2,321.9	109.9	413.1	283.7	94.4	1,823.0	9.8	50.1	139.6	59.8	6,380.5
1969	1,027.9	2,489.5	136.5	628.4	294.0	98.1	1,945.3	9.3	45.4	101.6	57.8	6,834.0
1970	1,003.7	2,471.5	670.7	545.5	315.7	105.0	2,091.0	11.8	50.8	111.6	56.0	7,433.1
1971	1,068.7	2,363.0	212.9	568.2	329.0	109.8	2,122.4	12.3	61.4	115.4	55.8	7,018.9
1972	1,266.1	3,279.5	245.2	571.8	290.3	96.9	2,183.0	11.1	72.0	116.4	56.5	8,188.7
1973	1,516.1	5,720.6	196.2	774.1	301.1	100.4	2,315.1	13.1	61.5	122.3	60.8	11,181.3
1974	1,311.0	6,057.0	211.6	891.0	270.7	90.9	2,356.0	14.3	65.5	222.4	66.1	11,556.6
1975	1,210.7	4,159.9	221.7	819.8	300.8	100.3	2,799.2	19.0	55.1	225.4	66.8	9,978.6
1976	1,225.5	3,022.0	113.6	1,182.2	339.6	113.4	2,699.1	40.5	97.7	255.1	68.3	9,156.9
1977	1,149.1	2,802.2	122.9	970.3	341.4	113.6	2,559.9	43.3	110.1	242.5	69.4	8,524.7
1978	1,174.9	3,584.6	146.0	967.2	366.2	121.8	2,569.5	48.8	145.1	240.8	68.4	9,433.2
1979	1,422.0	3,467.7	159.8	1,073.1	302.2	100.8	2,831.2	66.0	187.7	373.9	96.1	10,080.5
1980	1,466.3	3,230.6	202.9	1,055.0	271.2	90.4	3,166.4	90.6	225.4	770.1	139.4	10,708.4
1981	1,019.4	4,014.9	135.2	1,057.7	275.3	91.8	3,254.7	93.5	241.6	1,670.0	226.2	12,080.3
1982	976.7	3,726.0	90.5	850.7	270.2	90.0	2,582.3	93.4	261.8	1,385.2	196.0	10,522.7
1983	1,029.8	4,051.6	123.9	834.5	305.2	101.8	3,009.3	119.2	305.2	1,216.5	175.3	11,272.3
1984	1,034.3	3,471.8	167.2	857.8	264.9	88.3	3,194.0	144.3	339.1	1,078.7	163.9	10,804.3
1985	1,014.4	3,756.8	148.9	848.8	276.1	92.0	3,203.5	198.9	379.9	894.0	147.9	10,961.1
1986	960.5	3,302.2	137.7	835.4	275.6	91.8	3,234.1	181.2	371.4	391.1	115.7	9,896.7
1987	1,096.9	3,115.9	112.4	842.7	285.7	95.3	3,193.8	165.8	687.9	442.1	121.3	10,159.9
1988	1,135.5	3,323.2	126.7	872.1	293.1	97.7	3,175.0	158.0	760.4	325.5	119.7	10,384.9
1989	825.6	2,494.4	100.5	882.1	304.8	101.7	3,437.3	186.4	688.5	380.9	134.9	9,537.1
1990	1,006.6	2,807.8	124.0	864.4	325.3	108.4	3,596.3	175.9	672.6	438.6	156.4	10,276.3
1991	834.8	2,854.3	135.3	871.5	346.8	115.6	3,548.6	168.3	675.1	368.4	135.6	10,054.4
1992	879.8	3,242.3	157.8	918.9	380.9	126.9	3,757.2	171.1	726.5	321.4	128.2	10,811.1
1993	808.7	3,195.4	142.1	919.2	456.4	152.1	3,815.4	179.8	750.6	269.2	122.3	10,811.1
1994	699.3	3,082.2	134.4	1,014.3	533.3	177.8	4,082.9	179.2	736.3	232.7	112.6	10,985.1
1995	617.2	3,147.1	163.2	1,106.8	663.0	220.9	3,962.4	181.0	708.7	326.7	112.9	11,209.9
1996	576.5	3,472.5	113.8	1,178.1	852.1	284.0	3,923.9	164.6	747.7	445.6	130.7	11,889.5
1997	627.6	3,174.7	163.0	1,273.5	1,111.5	370.5	4,346.5	159.2	729.1	507.3	123.7	12,586.6
1998	575.2	3,078.3	174.1	1,362.2	1,482.0	797.7	3,925.2	155.3	767.3	314.7	108.2	12,740.3
1999	647.0	3,132.6	202.9	1,391.3	2,007.6	1,025.1	3,878.3	159.2	751.4	392.4	127.2	13,715.1
2000	339.4	3,220.9	209.1	1,447.6	2,122.3	1,089.0	4,073.8	155.2	868.6	576.7	187.7	14,290.3

Table 4. Agricultural and Total Sales to Final Demand, by State Region (2000=Base Dollars), Selected Years 1960-2000

Area	1960		1970		1980		1990		2000	
	Ag	Total	Ag	Total	Ag	Total	Ag	Total	Ag	Total
-----Million Dollars-----										
Region 1	131.2	336.7	196.3	435.0	236.8	1,108.5	154.3	872.9	177.3	915.1
Region 2	346.4	662.8	450.5	1,160.6	566.4	1,641.2	456.6	1,582.2	416.6	2,086.3
Region 3	267.7	379.6	349.5	582.7	526.5	885.5	297.5	819.8	283.4	1,009.6
Region 4	393.6	669.1	523.0	1,633.9	716.5	1,490.5	559.2	1,468.4	623.7	2,073.2
Region 5	461.7	773.3	537.4	1,184.9	925.1	1,752.7	763.5	1,643.0	859.3	2,589.7
Region 6	506.0	672.9	604.8	934.1	782.2	1,185.4	771.1	1,242.3	689.9	1,621.2
Region 7	397.0	827.8	514.2	1,228.4	632.4	2,258.6	467.3	2,690.4	500.6	3,723.6
Region 8	223.1	306.3	299.5	542.9	311.2	1,311.3	255.4	856.1	309.5	1,326.0
State ^a	2,731.8	4,345.9	3,475.2	7,433.1	4,696.9	10,708.4	3,814.4	10,276.3	3,560.3	14,290.3

^a The sum of the regions does not equal the state because of interregional exports.

Table 5. Agricultural Sectors' Percentage of Total Sales for Final Demand, by Region, Selected Years 1960-2000

Area	1960	1970	1980	1990	2000
-----Percent-----					
Region 1	39.0	45.1	21.4	17.7	19.4
Region 2	52.3	38.8	34.5	28.9	20.0
Region 3	70.5	60.0	59.5	36.3	28.1
Region 4	58.8	32.0	48.1	38.1	30.1
Region 5	59.7	45.4	52.8	46.5	33.2
Region 6	75.2	64.7	66.0	62.1	42.6
Region 7	48.0	41.9	28.0	17.4	13.4
Region 8	74.5	55.2	23.7	29.8	23.3
State	62.9	46.8	43.9	37.1	24.9

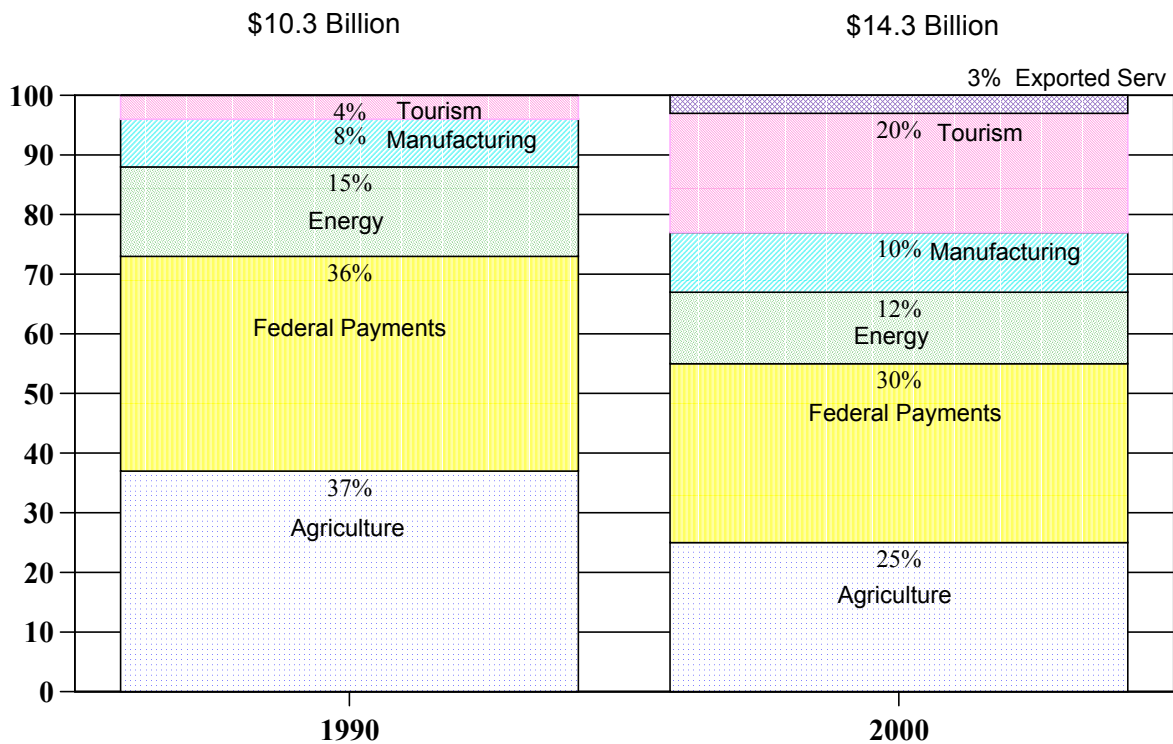


Figure 3. North Dakota's Economic Base, 1990 and 2000 (2000 dollars)

Total Business Activity (Gross Receipts)

Application of the sales for final demand to the input-output multipliers produces gross business volume (gross receipts) estimates. Using current dollar sales for final demand results in gross business volume estimates in similar terms (i.e., current dollars), and the same is true for constant dollar sales for final demand. Current year dollar gross business volume for North Dakota and Regions 1-8 are presented in Appendix A, Tables 12-20. Corresponding data for constant dollar (2000 = base) values are given in Appendix B, Tables 9-17.

Gross business volumes are the levels of business activity (gross receipts) that result from a given level of sales for final demand in the basic sectors. A summary of agricultural and total gross business volumes for North Dakota and its regions is presented in Table 6. These values represent the gross business volume that occurs in the agricultural (crops and livestock) sectors and the total for the respective region or state. The percentage that agricultural gross business volume comprises of the total gross business volume for each region and the state are presented in Table 7. Patterns described here are very similar to those that existed for the sales for final demand (as would be expected). Agriculture's proportion of the total gross business volume declined during the 1960 to 2000 period for all regions and the state; however, the percentage decreases are not as large in relative terms as those for the final demand vectors. Agriculture's share of total state-level gross business volume declined 10.5 percentage points (from 24.8 to 14.3 percent) from 1960 to 2000.

Employment by Sector

Employment estimates corresponding with the sectors of the North Dakota Input-Output Model were developed. These employment values, which consist of proprietors and wage and salary workers, can also be used to show agriculture's contribution to the state economy from a different perspective. Detailed employment tables for each state region and the state are presented in Appendix B, Tables 18-26. Dividing gross business volume by the corresponding employment gives gross business volume to employment ratios, more commonly known as productivity ratios. These ratios indicate the number of dollars that need to be generated in a given sector to create one job in the sector. Appendix A, Tables 31-39 contain the current year dollar productivity ratios for North Dakota and the eight regions. The statewide value for the agricultural sectors for 2000 (\$147,182) indicates that approximately \$147,000 of agricultural gross receipts were required to support one full-time job in 2000. Corresponding values for 1990 and 1980 were \$102,642 and \$74,881, respectively (current dollars).

A summary of direct agricultural employment for the regions and North Dakota for 1960, 1970, 1980, 1990, and 2000 is presented in Table 8. State-level direct agricultural employment in 2000 was less than half of that in 1960, reflecting a decline from 91,750 to 42,870 persons directly employed in crop and livestock production in the state. This reflects the trend of fewer and larger farms and ranches in the state. State Region 1 had the fewest direct agricultural employees throughout the 1960 to 2000 period, while Regions 6 and 7 have remained at or near the top in agricultural employment during the entire period.

Table 6. Agricultural and Total Gross Business Volume, by State Region (2000=Base Dollars), Selected Years 1960-2000

Area	1960		1970		1980		1990		2000	
	Ag	Total	Ag	Total	Ag	Total	Ag	Total	Ag	Total
-----Million Dollars-----										
Region 1	187.7	974.0	280.3	1,350.3	383.5	3,030.2	256.0	2,236.0	306.4	2,472.7
Region 2	498.8	2,263.9	691.3	3,885.5	927.6	5,260.1	765.0	5,112.5	822.5	6,474.7
Region 3	360.8	1,385.4	471.4	2,049.0	708.6	3,109.2	538.2	2,804.4	452.2	3,155.0
Region 4	536.4	2,365.2	780.5	5,111.2	1,086.7	5,293.3	871.7	5,043.2	1,079.2	6,803.9
Region 5	695.6	2,863.0	858.6	4,198.2	1,446.1	6,412.1	1,196.9	5,853.1	1,502.9	8,606.4
Region 6	711.5	2,549.4	863.0	3,405.9	1,134.2	4,410.2	1,093.8	4,507.3	1,040.5	5,317.1
Region 7	616.0	2,674.9	837.2	4,018.4	1,165.5	6,850.4	920.3	7,387.0	1,054.5	9,893.6
Region 8	329.5	1,165.9	456.0	1,914.2	556.6	3,649.7	443.0	2,584.9	538.2	3,719.6
State	3,933.4	15,863.5	5,235.0	25,565.4	7,395.7	36,814.2	6,079.5	34,450.8	6,309.7	44,180.1

Table 7. Agricultural Gross Business Volume as a Percentage of Total Gross Business Volume, by State Region, Selected Years 1960-2000

Area	1960	1970	1980	1990	2000
	-----Percent-----				
Region 1	19.3	20.8	12.7	11.4	12.4
Region 2	22.0	17.8	17.6	15.0	12.7
Region 3	26.0	23.0	22.8	19.2	14.3
Region 4	22.7	15.3	20.5	17.3	15.9
Region 5	24.3	20.5	22.6	20.4	17.5
Region 6	27.9	25.3	25.7	24.3	19.6
Region 7	23.0	20.8	17.0	12.5	10.7
Region 8	28.3	23.8	15.3	17.1	14.5
State	24.8	20.5	20.1	17.6	14.3

Table 8. Agricultural Proprietors and Wage and Salary Employment Associated with the Livestock and Crops Sectors of the Input-Output Model, by State Region, Selected Years 1960-2000

Area	1960	1970	1980	1990	2000
Region 1	4,924	3,077	3,142	2,816	2,893
Region 2	12,832	7,789	7,620	7,059	6,713
Region 3	9,684	5,524	5,640	5,212	4,426
Region 4	10,354	5,838	5,937	4,530	4,067
Region 5	15,209	7,419	7,161	6,355	5,644
Region 6	15,801	8,858	9,040	8,392	7,105
Region 7	15,131	8,746	8,815	8,496	7,490
Region 8	7,815	4,670	5,326	5,011	4,528
State	91,750	51,920	52,680	47,870	42,870

Expressing the number of workers (proprietors plus wage and salary employees) associated with the input-output model's agricultural sectors (livestock and crops) as a percentage of the total employment for all sectors provides another perspective concerning the role of agriculture in the economy. Agricultural employment in the state declined from 37.8 percent of all employment in 1960 to 10.9 percent in 2000. Again, this reflects only direct employment in agriculture (i.e., farmers, ranchers, and farm wage and salary employees). As would be expected, State Region 5 (the Fargo trade area) had the lowest percentage of agricultural employment for each of the five years. Regions with major trade centers, such as Region 4 (Grand Forks), Region 5 (Fargo), and Region 7 (Bismarck), had the lowest percentage of workers employed in direct agricultural jobs. The trends shown in Table 9 are to be expected with increasing farm size, but interestingly, three state regions (3, 6, and 8) still had over one-fifth of their workers directly employed in agriculture in 2000.

Table 9. Agricultural Employment as a Percent of Total Employment,¹ by State Region, Selected Years 1960-2000

Area	1960	1970	1980	1990	2000
-----Percent-----					
Region 1	35.9	28.0	18.0	20.0	19.4
Region 2	35.8	21.3	17.2	16.0	12.7
Region 3	54.8	37.2	31.3	28.2	22.2
Region 4	30.8	15.7	12.7	8.4	6.7
Region 5	27.2	14.7	9.6	7.3	4.9
Region 6	49.6	32.8	28.0	26.1	21.0
Region 7	39.4	23.8	15.3	13.3	9.9
Region 8	49.5	34.1	24.3	25.1	21.2
State	37.8	22.8	16.8	14.3	10.9

¹ Proprietors and wage and salary employment in the livestock and crops sectors.

Gross State Product

Another measure of the role of various sectors in the state economy is gross state product. The Bureau of Economic Analysis (BEA), U. S. Department of Commerce reports estimates of Gross Domestic Product (GDP) for the United States at periodic intervals, both in periodicals (see, for example, Lum and Moyer 2001) and on their website (<http://www.bea.doc.gov/>). GDP estimates the value-added by each industry and government to the Nation's economic activity. GDP accumulates the market value of all goods and services produced by labor and property in the United States.

State economic activity is reported in a similar measure termed Gross State Product (GSP). GSP is the value added to intermediate inputs by the labor and capital resources located in a state (Panek and Downey 2002). In addition to state level economic activity, economic activity by individual industries within each state is determined by the BEA. An industry's GSP, referred to as its "value added", is equivalent to its gross output (the value of shipments and other income, taxes, and inventory change) net of purchases of intermediate inputs used in production.

GSP is composed of three components:

1. Employees compensation

Employee compensation is the sum of employee wages and salaries and supplements to wages and salaries, which include employer contributions to benefits and other labor income.

2. Indirect business tax and nontax liability (IBT)

IBT consists of tax liabilities, such as general sales and property taxes, that are charged against business expenses and of certain other non-tax liabilities to the government, such as regulatory and inspection fees, special assessments, fines and forfeitures, rents and royalties, and donations. IBT is the sum of State, all Local, and Federal IBT.

3. Property-type income

Property-type income comprises proprietors' income and other capital charges. Proprietors' income includes income of unincorporated companies, rental income, proprietors' inventory adjustment, and non-corporate capital consumption allowance. For other private companies, capital charges include corporate profits before taxes, net interest, corporate inventory valuation adjustment, corporate capital consumption allowance, business transfer payments, and subsidies. For government agencies, capital charges comprise subsidies net of current surpluses and the consumption of fixed capital items.

Changes in North Dakota Gross State Product, 1977-2000

North Dakota current dollar GSP estimates by industry are reported in Table 10 for the years 1980, 1985, 1990, 1995, and 2000. Constant dollar values for the same years are presented in Table 11. The constant dollar estimates remove the influence of inflation from GSP. The constant dollar values reflect changes in economic activity resulting from productivity changes and changes both in the scale and mix of private and public enterprises producing goods and services (Lum and Moyer 2001). The adjustment from current to constant dollars thus removes most of the effects of sector-specific price increases and decreases (e.g., those that have affected the petroleum and agricultural sectors over the past two decades). Annual estimates of current dollar and constant dollar GSP for the period 1977 to 2000 are presented in Appendix C, Tables 1 and 2.

The average annual growth rate of North Dakota's total Gross State Product over the period 1977-2000 was 1.3 percent (Table 12). By comparison, the aggregate growth in total GSP for the United States averaged 3.1 percent over the same period. Annual changes in North Dakota GSP, as evident in Table 11 and Appendix C, Table 1, were highly variable. The greatest increase occurred from 1980 to 1981, when real GSP increased 14 percent. Conversely, GSP contracted 7 percent from 1985 to 1986. The decade of the 1980s saw economic activity fall an average of 1.2 percent annually. North Dakota did share in the national productivity boom of the 1990s, however, averaging a 3.1 percent annual increase in real GSP over the decade. This rate of growth was similar to aggregate U. S. growth of 3.9 percent over the same period.

Table 10. Gross State Product by Major Industry, North Dakota, 1980 - 2000 (current dollars)

Industry	Year				
	1980	1985	1990	1995	2000
	-----\$ million -----				
Agriculture, forestry, & fisheries	595	1,273	1,216	1,151	952
Mining	1,202	1,449	671	454	686
Construction	536	451	423	640	924
Manufacturing	403	544	821	1,117	1,580
Transportation & Utilities	741	1,080	1,170	1,619	1,783
Wholesale trade	690	871	973	1,317	1,561
Retail trade	668	939	1,037	1,410	1,797
Finance, Insurance & Real Estate (FIRE)	897	1,213	1,444	1,905	2,846
Services	847	1,313	1,779	2,544	3,518
Government	1,048	1,616	1,938	2,374	2,636
Total Gross State Product	7,626	10,750	11,473	14,529	18,283

Table 11. Gross State Product by Major Industry, North Dakota, 1980 - 2000 (constant dollars^a)

Industry	Year				
	1980	1985	1990	1995	2000
	-----\$ million -----				
Agriculture, forestry, & fisheries	605	1,537	1,297	1,333	1,365
Mining	597	441	1,106	703	529
Construction	477	650	900	569	756
Manufacturing	774	928	527	560	1,658
Transportation & Utilities	1,217	1,550	1,081	1,070	1,686
Wholesale trade	875	984	1,022	1,271	1,641
Retail trade	1,026	1,201	1,143	1,397	1,821
Finance, Insurance & Real Estate (FIRE)	2,232	2,004	1,852	1,983	2,510
Services	2,161	2,282	2,295	2,621	3,038
Government	2,360	2,470	2,421	2,455	2,348
Total Gross State Product^b	12,335	13,905	13,176	14,983	17,361

^aChained 1996 dollars (Lum and Moyer 2001)^bSum of sectors may not add to totals due to sector-specific constant dollar adjustments

Growth by major economic sector also is illustrated in Table 12. The largest real growth occurred in the durable goods manufacturing sector, where real (i.e., inflation-adjusted) GDP increased more than 10 percent annually. The only sectors to grow more rapidly than their national counterparts were durable goods manufacturing, nondurable goods manufacturing, and transportation and utilities. Other sectors with growth rates greater than the state average included wholesale trade, retail trade, and services. On the other hand, four sectors had negative growth rates – construction, mining, finance, insurance and real estate (FIRE), and government.

Table 12. Average Annual Growth Rate for Gross State Product (GSP), North Dakota and United States, 1977-2000 (based on constant dollars)

Area/Sector	Average Annual Growth Rate ^a	Standard Deviation	Minimum	Maximum
-----percent-----				
North Dakota:				
Total GSP	1.34	5.37	-7.33	14.12
Agriculture, forestry, fish	1.26	46.11	-106.81	92.12
Mining	-1.75	16.78	-28.21	42.55
Construction	-2.89	10.76	-25.86	12.36
Mfg. - durable goods	10.29	10.33	-9.99	29.27
Mfg. - nondurable goods	2.63	8.98	-14.12	18.42
Transportation & utilities	4.09	5.56	-5.74	14.41
Wholesale trade	3.27	5.07	-5.75	10.09
Retail trade	2.52	3.76	-7.41	7.79
F.I.R.E	-0.05	5.73	-10.34	13.30
Services	1.67	2.16	-1.70	7.36
Government	-0.04	3.64	-9.30	7.09
United States:				
Total GSP	3.06	2.04	-1.70	7.30
Agriculture, forestry, fish	3.49	11.41	-30.83	25.84
Mining	1.17	7.94	-16.29	14.99
Construction	1.94	6.21	-11.25	14.94
Mfg. - durable goods	4.21	5.67	-9.53	15.49
Mfg. - nondurable goods	1.75	3.39	-4.48	8.56
Transportation & utilities	3.67	2.63	1.91	9.72
Wholesale trade	5.14	4.10	-2.51	12.67
Retail trade	3.85	3.67	-3.58	9.11
F.I.R.E	2.97	1.92	-0.73	6.50
Services	3.51	1.72	-0.69	6.72
Government	1.24	0.88	-0.12	2.55

^a Based on regression of annual data from 1977 to 2000, solving for r in equation $Y = e^{rt}$.

Growth of the major economic sectors, as well as the average share of real GSP for each sector in 1977-1979 and 1998-2000, is presented in Table 13. The largest real growth occurred in the manufacturing sectors, as durable goods manufacturing GSP increased more than four-fold over the period while GSP in nondurable goods manufacturing more than doubled. Within durable goods manufacturing, the greatest growth occurred in industrial machinery manufacturing, which accounted for about 59 percent of GSP in the durable goods manufacturing sector in 1998-2000. Within nondurable goods manufacturing, food and kindred products accounted for about 60 percent of total value-added over the entire 24-year period.

The shares of total state GSP for 1977-1979 and 1998-2000 reflect the relative growth of the various sectors over the 24-year period. The three largest sectors in 1977-1979 were government, finance, insurance, and real estate (FIRE), and services, accounting for 19.2, 17.2, and 16.4 percent of total GSP, respectively. In 1998-2000, the same three sectors again accounted for the largest shares of GSP, but their relative positions had changed with services now the largest sector (17.5 percent), followed by government (13.7 percent), and FIRE (13.6 percent). The greatest growth occurred in manufacturing, which accounted for 9.4 percent of state GSP in 1998-2000 compared to only 3.9 percent in 1977-1979. The agriculture, forestry, and fisheries sector accounted for 9 percent of GSP in 1977-1979 and 8.2 percent in 1998-2000. Although the real GSP originating in this sector grew by 26 percent over the period, total state GSP grew more (38 percent), resulting in a slight decrease in share.

**Table 13. Shares of North Dakota Gross State Product, 1977-79 and 1998-2000
(based on constant dollars)**

Sector	<u>1977-1979</u>		<u>1998-2000</u>		<u>Change</u>	
	\$ mill.	Percent	\$ mill.	Percent	\$ mill.	Percent
Total Gross State Product	12,272 ^a	100.0 ^a	16,975 ^a	100.0 ^a	4,703 ^a	38.3 ^a
Agriculture, forestry, and fish	1,107	9.0	1,393	8.2	286	25.8
Farms	1,065	8.7	1,277	7.5	212	19.9
Ag. Services	41	0.3	109	0.6	68	165.9
Mining	510	4.2	584	3.4	74	14.5
Construction	1,156	9.4	782	4.6	-374	-32.4
Manufacturing	473	3.9	1,594	9.4	1,121	237.0
Durable goods	214	1.7	1,076	6.4	862	402.8
Nondurable goods	267	2.2	537	3.2	270	101.1
Transportation and utilities	947	7.7	1,622	9.6	675	71.3
Wholesale	860	7.0	1,647	9.7	787	91.5
Retail	1,075	8.6	1,742	10.3	667	62.0
Finance, insurance, and real estate	2,109	17.2	2,313	13.6	204	9.7
Services	2,014	16.4	2,966	17.5	952	47.3
Government	2,360	19.2	2,325	13.7	-35	-1.5

^a Sum of sectors may not add to totals due to sector-specific constant dollar adjustments.

Comparison of States based on Agricultural Dependency

Because estimates of gross state product are available for all states, this measure of economic activity can be used to compare the relative importance of agriculture to the economies of the various states. In 2000, the agriculture, forestry, and fisheries sector accounted for 5 percent or more of total gross state product in six states. These were:

South Dakota	11.2 percent
North Dakota	7.9 percent
Idaho	6.8 percent
Nebraska	6.6 percent
Iowa	6.0 percent
Montana	5.7 percent

Seven other states depended on agriculture for 3 percent to 4.9 percent of their GSP, while 10 others obtained 2 percent to 2.9 percent of their GSP from agriculture (Figure 4).

A similar comparison by Coon et al. (1992) revealed the same five states had the highest levels of agricultural dependency, based on 1989 GSP estimates.

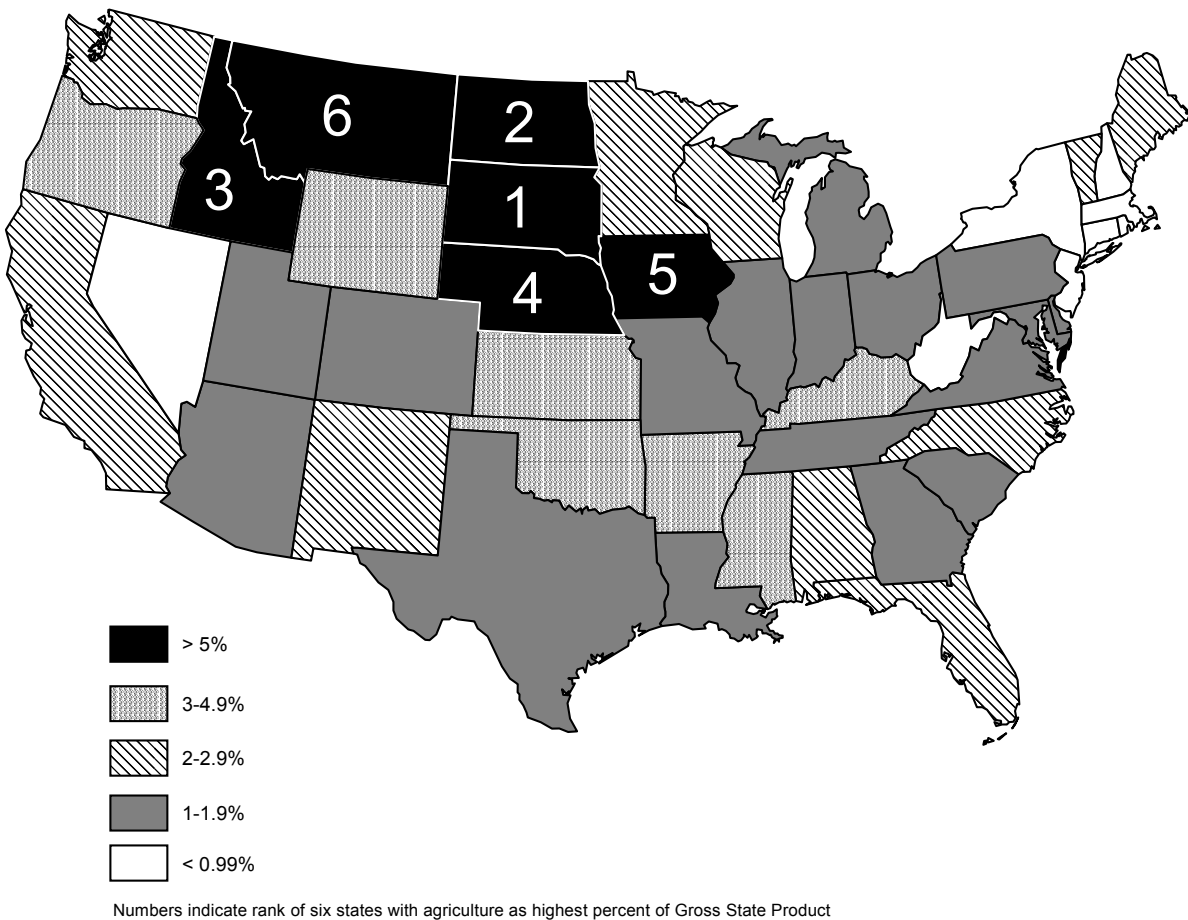


Figure 4. Agricultural Gross State Product as a Percent of Total

Comparison of Economic Indicators

The discussion in earlier sections of the report has focused on three measures of economic activity – gross business volume (gross receipts), gross state product, and sales for final demand. These three measures are related, yet they differ substantially in their interpretation. Table 14 compares these three indicators for the years 1990 and 2000.

Table 14. Sales for Final Demand, Gross State Product, and Gross Business Volume, North Dakota, Total and Agricultural Sector, 1990 and 2000

Measure	Year		Percent Change, 1990-2000
	1990	2000	
	----- \$ million -----		
Gross Business Volume, Total:			
Current dollars	27,843	44,180	58.7
Constant dollars (2000\$)	34,451	44,180	28.2
Gross State Product, Total:			
Current dollars	11,473	18,283	59.4
Constant dollars (1996\$)	13,176	17,361	31.8
Sales for Final Demand, Total:			
Current dollars	8,305	14,290	72.1
Constant dollars (2000\$)	10,276	14,290	39.1
Gross Business Volume, Agricultural:			
Current dollars	4,914	6,310	28.4
Constant dollars (2000\$)	6,080	6,310	3.8
Gross State Product, Agricultural:			
Current dollars	1,216	952	-21.7
Constant dollars (1996\$)	1,297	1,365	5.2
Sales for Final Demand, Agricultural:			
Current dollars	3,083	3,560	15.5
Constant dollars (2000\$)	3,814	3,560	-6.7

Gross business volume (gross receipts) measures the total sales (receipts) of each sector, including sales to both in-state and out-of-state markets. For the agricultural sector, gross business volume thus includes not only sales of farm commodities to markets outside North Dakota (i.e., sales for final demand) but also intra-sector transactions such as sales of feed, seed, and breeding livestock from one farm operator to another. Sales of farm commodities to an in-state food processor would also be included in the gross business volume (but not the sales for final demand) of the agricultural sector. The sales of processed products would be part of the gross receipts of the agricultural processing and manufacturing sector.

Gross state product for an industry like agriculture is essentially its gross output less purchases of inputs used in production. It can be considered as the value added by the industry or as a net return to the labor, management, and capital resources employed in the sector. For a sector like agriculture, where output is subject to substantial fluctuations due to weather and market conditions, but expenditures for purchased inputs are more constant, gross state product can be a somewhat more volatile measure than either gross business volume or sales for final demand.

Sales for final demand, as described previously, are sales of goods and services to markets outside the state, which generate a flow of income into the state. The sales for final demand of the agricultural sector, then, is the total revenue (gross receipts) from sales of farm commodities to markets outside the state, without allowance for the cost of inputs used in the production of these products.

Another difference in the three indicators is the inflation adjustment employed. As discussed previously, estimates of sales for final demand and gross business volume have been adjusted to constant year 2000 dollars using Gross National Product Implicit Price Deflators (Appendix A, Table 2). This adjustment involves inflating (i.e., removing the effects of inflation) values for all sectors in a given year by a factor that represents the general price level for that year relative to a base year. The intent and effect is to adjust values to reflect overall changes in purchasing power based on economy-wide changes in price levels.

The adjustment of gross state product values to constant dollars is substantially different, as values for each sector are adjusted based on sector-specific adjustment factors that are intended to remove the effects of sector-specific price increases and decreases. Thus, the constant dollar gross state product estimates for a given sector primarily reflect changes in economic activity resulting from productivity changes. The result is that adjustment of GSP to constant dollars can result in decreases in the GSP estimate for some sectors and increases for others, depending on price trends in each sector. Thus, when total North Dakota GSP for 2000 is adjusted to 1996 constant dollars, the result is a decrease in the 2000 value by 5 percent (from \$18,283 million to \$17,361 million, see Table 14). However, when agricultural sector GSP for 2000 is adjusted to 1996 constant dollars, the result is an **increase** of 43 percent.

Conclusions and Implications

The North Dakota economy has long been dependent on agriculture for growth and vitality. However, variability in agricultural sector returns, together with a long-term trend of agricultural mechanization, has resulted in efforts to diversify the state's economic base. Although its role in the North Dakota economy has been reduced in a relative sense, agriculture remains a cornerstone of the state economy and remains the largest goods and services exporting sector. While agriculture accounts for smaller shares of state sales for final demand, gross business volume, and gross state product than was the case 10 or 20 years ago, the decrease in agriculture's relative importance in most cases merely signifies that other sectors (e.g., tourism, manufacturing) have grown more rapidly. Thus, agriculture's decreasing share of sales for final demand or gross state product to a large extent reflects the success of long-term efforts to diversify the North Dakota economy.

The agricultural sector has contributed to North Dakota's economic growth and diversification by serving as a source of commodities for further value-added processing (e.g., durum, potatoes) and as a market for farm input manufacturers. Manufacturing has been the largest single source of growth in gross state product over the past two decades, and both farm input manufacturing (part of durable goods manufacturing) and food processing (part of nondurable goods manufacturing) have been substantial sources of that growth. [Developing estimates of the economic role of these two agriculturally-linked manufacturing sectors will be the goal of the second phase of this study.]

The importance of agriculture to North Dakota's economy can be highlighted:

- Agriculture accounts for one-fourth of basic economic activity and almost 36 percent of all exports of goods and services
- Agriculture directly employs almost 11 percent of the state's workers and generates more than \$6 billion in business activity (gross receipts)
- North Dakota ranks second in the nation in the percentage of gross state product derived from agriculture

References

- Bureau of Economic Analysis. 2001. *Survey of Current Business* 81(8). Washington, DC: U. S. Department of Commerce.
- Coon, Randal C., and F. Larry Leistritz. 2001. *Adding An Exported Services Component to the North Dakota Input-Output Model's Business and Personal Services Sector*. Agribusiness & Applied Economics Misc. Rpt. No. 189. Fargo: North Dakota State University, Department of Agribusiness & Applied Economics.
- Coon, Randal C., F. Larry Leistritz, and T. Alexander Majchrowicz. 1992. *The Role of Agriculture in the North Dakota Economy*. Agr. Econ. Stat. Series Rpt. No. 50. Fargo: North Dakota State University, Department of Agricultural Economics.
- Coon, Randal C., F. Larry Leistritz, Thor A. Hertsgaard, and Arlen G. Leholm. 1985. *The North Dakota Input-Output Model: A Tool for Analyzing Economic Linkages*. Agr. Econ. Rpt. No. 187. Fargo: North Dakota State University, Department of Agricultural Economics.
- Leistritz, F. Larry. 1998. "Economic and Fiscal Impact Assessment," pp. 219-227 in *Environmental Methods Review: Retooling Impact Assessment for the New Century*, A. Porter and J. Fitipaldi, eds. Fargo: International Association for Impact Assessment and Army Environmental Policy Institute.
- Leistritz, F. Larry, and Steve H. Murdock. 1981. *Socioeconomic Impact of Resource Development: Methods for Assessment*. Boulder, CO: Westview Press.
- Lum, Sherlene K. S., and Brian C. Moyer. 2001. "Gross Domestic Product by Industry for 1998-2000." *Survey of Current Business* (November), pp. 17-33.
- Office of Management and Budget. 1987. *Standard Industrial Classification Manual*. Washington, DC: U. S. Government Printing Office.
- Panek, Sharon D., and George F. Downey. 2002. "Gross State Product by Industry, 1998-2000." *Survey of Current Business* (June), pp. 57-77.
- U. S. Bureau of the Census. 1991. "Census of Population and Housing CPH-L-79." *1990 Census of Population and Housing*. Washington, DC: U. S. Government Printing Office.
- U. S. Bureau of the Census. 2001. *2000 Census of Population*. Washington, DC: U. S. Department of Commerce.

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TABLE A1. ECONOMIC SECTORS AND ASSOCIATED STANDARD INDUSTRIAL CLASSIFICATION CODES FOR THE NORTH DAKOTA INPUT-OUTPUT MODEL

Economic Sector	SIC Code
1. Agriculture, Livestock	Major Group 02 - Agricultural Production, Livestock
2. Agriculture, Crops	Major Group 01 - Agricultural Production, Crops
3. Nonmetallic Mining	Major Group 14 - Mining and Quarrying of Nonmetallic Minerals, Except Fuels
4. Contract Construction	Major Group 15, 16, 17 - Contract Construction
5. Transportation	Major Groups 40, 41, 42, 43, 44, 45, 46, and 47 - Transportation
6. Communications and Utilities	Major Group 48 - Communication, and Major Group 49 - Electric, Gas, and Sanitary Services, Except Industry No. 491
7. Agricultural Processing and Miscellaneous Manufacturing	Major Group 50 and 51 - Wholesale Trade, Major Group 20 - Food and Kindred Products Manufacturing
8. Retail Trade	Major Groups 52, 53, 54, 55, 56, 57, 58, and 59 - Retail Trade
9. Finance, Insurance, and Real Estate	Major Group 60, 61, 62, 63, 64, 65, 66, and 67 - Finance, and Insurance, and Real Estate
10. Business and Personal Services	Major Groups 70, 72, 73, 75, 76, 78, and 79 - Business and Personal Services
11. Professional and Social Services	Major Groups 80, 81, 82, 83, 84, 86, 88, and 89 - Professional and Social Services
12. Households	Not Applicable
13. Government	Major Groups 91, 92, 93, 94, 95, 96, and 97 - Government
14. Coal Mining	Major Group 12 - Bituminous Coal and Lignite Mining
15. Thermal-Electric Generation and Coal Conversion	Major Group 491 - Electric Companies and Systems
16. Petroleum and Natural Gas Exploration and Extraction	Major Group 13 - Crude Petroleum and Natural Gas
17. Petroleum Refining	Major Group 20 - Petroleum Refining and Related Industries

SOURCE: Office of Management and Budget (1987).

TABLE A2. GROSS DOMESTIC PRODUCT IMPLICIT PRICE DEFLATORS FOR 1996 AND 2000 BASE, 1958-2000

Year	GDP Implicit Price Deflators	
	1996 = 100 Base	2000 = 100 Base
1958	21.64	20.22
1959	21.88	20.44
1960	22.19	20.73
1961	22.44	20.96
1962	22.74	21.24
1963	23.00	21.49
1964	23.34	21.80
1965	23.78	22.22
1966	24.46	22.85
1967	25.21	23.55
1968	26.30	24.57
1969	27.59	25.78
1970	29.06	27.15
1971	30.52	28.51
1972	31.82	29.73
1973	33.60	31.39
1974	36.62	34.21
1975	40.03	37.40
1976	42.30	39.52
1977	45.02	42.06
1978	48.23	45.06
1979	52.25	48.81
1981	57.04	53.29
1981	62.37	58.27
1982	66.25	61.89
1983	68.88	64.35
1984	71.44	66.74
1985	73.69	68.84
1986	75.31	70.36
1987	77.58	72.48
1988	80.21	74.93
1989	83.27	77.79
1990	86.51	80.82
1991	89.66	83.76
1992	91.84	85.80
1993	94.05	87.86
1994	96.01	89.70
1995	98.10	91.65
1996	100.00	93.42
1997	101.95	95.24
1998	103.22	96.43
1999	104.77	97.88
2000	107.04	100.00

Source: U.S. Department of Commerce, Bureau of Economic Analysis. August 2001. Survey of Current Business. Volume 81, No. 8. Washington, D.C.

TABLE A3. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstkc	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Coal Conversion	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	220.3	440.3	18.3	62.5	16.5	5.5	187.0	1.1	--	5.4	13.1	970.0
1959	217.3	394.9	27.2	57.0	18.0	6.0	186.5	1.0	--	10.9	12.9	931.7
1960	175.4	390.9	32.7	66.1	14.9	5.0	187.9	1.0	--	14.5	12.5	900.9
1961	213.9	341.7	24.0	67.5	17.2	5.8	237.2	1.3	--	21.0	12.6	942.2
1962	199.3	476.8	16.5	62.6	18.7	6.3	344.2	1.5	--	22.8	12.5	1,161.2
1963	207.7	543.1	17.1	73.0	21.7	7.2	334.5	1.3	--	23.3	12.5	1,241.4
1964	213.3	451.2	30.2	78.4	26.2	8.7	485.2	1.5	--	25.9	12.7	1,333.3
1965	247.5	554.5	31.0	78.4	33.0	11.0	361.4	1.5	--	28.0	13.4	1,359.7
1966	271.5	609.4	23.3	84.2	45.0	15.0	428.6	1.3	4.4	29.7	14.0	1,526.4
1967	280.9	568.4	24.4	91.7	54.7	18.2	380.8	2.1	8.4	28.0	14.6	1,472.2
1968	264.2	570.5	27.0	101.5	69.7	23.2	447.9	2.4	12.3	34.3	14.7	1,567.7
1969	265.0	641.8	35.2	162.0	75.8	25.3	501.5	2.4	11.7	26.2	14.9	1,761.8
1970	272.5	671.0	182.1	148.1	85.7	28.5	567.7	3.2	13.8	30.3	15.2	2,018.1
1971	304.7	673.7	60.7	162.0	93.8	31.3	605.1	3.5	17.5	32.9	15.9	2,001.1
1972	376.4	975.0	72.9	170.0	86.3	28.8	649.0	3.3	21.4	34.6	16.8	2,434.5
1973	475.9	1,795.7	61.6	243.0	94.5	31.5	726.7	4.1	19.3	38.4	19.1	3,509.8
1974	448.5	2,072.1	72.4	304.8	92.6	31.1	806.0	4.9	22.4	76.1	22.6	3,953.5
1975	452.8	1,555.8	82.9	306.6	112.5	37.5	1,046.9	7.1	20.6	84.3	25.0	3,732.0
1976	484.3	1,194.3	44.9	467.2	134.2	44.8	1,066.7	16.0	38.6	100.8	27.0	3,618.8
1977	483.3	1,178.6	51.7	408.1	143.6	47.8	1,076.7	18.2	46.3	102.0	29.2	3,585.5
1978	529.4	1,615.2	65.8	435.8	165.0	54.9	1,157.8	22.0	65.4	108.5	30.8	4,250.6
1979	694.1	1,692.6	78.0	523.8	147.5	49.2	1,381.9	32.2	91.6	182.5	46.9	4,920.3
1980	781.4	1,721.6	108.1	562.2	144.5	48.2	1,687.4	48.3	120.1	410.4	74.3	5,706.5
1981	594.0	2,339.5	78.8	616.3	160.4	53.5	1,896.5	54.5	140.8	973.1	131.8	7,039.2
1982	604.5	2,306.0	56.0	526.5	167.2	55.7	1,598.2	57.8	162.0	857.3	121.3	6,512.5
1983	662.7	2,607.2	79.7	537.0	196.4	65.5	1,936.5	76.7	196.4	782.8	112.8	7,253.7
1984	690.3	2,317.1	111.6	572.5	176.8	58.9	2,131.7	96.3	226.3	719.9	109.4	7,210.8
1985	698.3	2,586.2	102.5	584.3	190.1	63.3	2,205.3	136.9	261.5	615.4	101.8	7,545.6
1986	675.8	2,323.4	96.9	587.8	193.9	64.6	2,275.5	127.5	261.3	275.2	81.4	6,963.3
1987	795.0	2,258.4	81.5	610.8	207.1	69.1	2,314.9	120.2	498.6	320.4	87.9	7,363.9
1988	849.3	2,490.1	94.9	653.5	219.6	73.2	2,379.0	118.4	569.8	243.9	89.7	7,781.4
1989	642.2	1,940.4	78.2	686.2	237.1	79.1	2,673.9	145.0	535.6	296.3	104.9	7,418.9
1990	813.5	2,269.3	100.2	698.6	262.9	87.6	2,906.5	142.2	543.6	354.5	126.4	8,305.3
1991	699.2	2,390.8	113.3	730.0	290.5	96.8	2,972.3	141.0	565.5	308.6	113.6	8,421.6
1992	754.9	2,781.9	135.4	788.4	326.8	108.9	3,223.7	146.8	623.3	275.8	110.0	9,275.9
1993	706.5	2,791.5	124.1	803.0	398.7	132.9	3,333.1	157.1	655.7	235.2	106.8	9,444.6
1994	627.3	2,764.7	120.6	909.8	478.4	159.5	3,662.4	160.7	660.5	208.7	101.0	9,853.6
1995	565.7	2,884.3	149.6	1,014.4	607.6	202.5	3,631.5	165.9	649.5	299.4	103.5	10,273.9
1996	538.6	3,244.0	106.3	1,100.6	796.0	265.3	3,665.7	153.8	698.5	416.3	122.1	11,107.2
1997	597.7	3,023.6	155.2	1,212.9	1,058.6	352.9	4,139.6	151.6	694.4	483.2	117.8	11,987.5
1998	554.7	2,968.4	167.9	1,313.6	1,429.1	769.2	3,785.1	149.8	739.9	303.5	104.3	12,285.5
1999	633.3	3,066.2	198.6	1,361.8	1,965.0	1,003.4	3,796.1	155.8	735.5	384.1	124.5	13,424.3
2000	339.4	3,220.9	209.1	1,447.6	2,122.3	1,089.0	4,073.8	155.2	868.6	576.7	187.7	14,290.3

(Note: 1998-2000 Bus & Pers Serv Sector includes exportable services component)

TABLE A4. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 1, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstck	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Coal Conversion	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	10.3	16.2	0.8	2.7	0.9	0.3	5.8	0.1	--	17.6	4.8	59.5
1959	9.8	14.4	1.1	2.3	1.0	0.3	6.4	0.1	--	20.7	4.7	60.8
1960	8.0	19.2	1.4	2.6	0.8	0.3	7.3	0.1	--	25.5	4.6	69.8
1961	10.0	10.5	1.1	2.5	1.0	0.3	7.6	0.2	--	26.5	4.6	64.3
1962	9.2	28.4	0.7	2.2	1.0	0.3	9.5	0.2	--	30.2	4.6	86.3
1963	10.1	36.2	0.8	2.4	1.2	0.4	9.8	0.1	--	32.7	4.5	98.2
1964	10.9	24.2	1.3	2.6	1.5	0.5	12.8	0.1	--	36.3	4.4	94.6
1965	13.2	26.6	1.4	2.6	1.8	0.6	11.0	--	--	37.6	4.6	99.4
1966	14.3	32.9	1.0	2.8	2.5	0.8	12.5	--	--	38.8	4.6	110.2
1967	14.8	28.2	1.1	3.1	3.0	1.0	12.0	--	--	33.4	4.6	101.2
1968	13.9	26.4	1.2	3.3	3.8	1.3	13.7	--	--	33.4	4.6	101.6
1969	13.8	40.0	1.5	5.4	4.2	1.4	21.0	--	--	28.2	4.7	120.2
1970	15.0	38.3	0.7	4.9	4.7	1.6	18.9	--	--	28.9	5.1	118.1
1971	17.9	34.0	0.7	5.4	5.2	1.7	23.0	--	--	31.3	5.7	124.9
1972	21.5	59.6	2.5	5.6	4.7	1.6	22.8	--	--	31.3	6.0	155.6
1973	26.8	115.2	0.3	8.0	5.2	1.7	25.6	--	--	33.2	6.8	222.8
1974	23.4	128.0	1.1	10.1	5.1	1.7	27.3	--	--	72.0	8.2	276.9
1975	24.0	85.0	0.9	10.2	6.2	2.1	31.0	--	--	72.1	9.0	240.5
1976	25.8	70.6	2.0	15.5	7.4	2.5	30.8	--	--	86.8	9.6	251.0
1977	26.4	50.6	2.7	13.5	7.9	2.6	36.0	--	--	97.9	10.3	247.9
1978	29.5	79.6	3.6	14.4	9.1	3.0	37.6	--	--	108.8	10.8	296.4
1979	41.1	70.6	2.4	17.3	8.1	2.7	111.1	--	--	148.1	15.0	416.4
1980	45.0	81.2	5.3	18.6	7.9	2.6	156.3	0.2	--	251.1	22.5	590.7
1981	31.0	104.5	3.7	20.4	8.8	2.9	221.0	0.1	--	515.3	39.4	947.1
1982	30.8	99.4	2.6	17.4	9.2	3.1	150.1	0.1	--	509.7	36.2	858.6
1983	34.7	109.5	3.6	17.8	10.8	3.6	119.0	0.1	--	573.0	33.7	905.8
1984	35.5	56.8	5.1	19.0	9.7	3.2	128.7	0.1	--	652.3	32.7	943.1
1985	34.2	51.6	4.7	19.3	10.5	3.5	112.2	0.3	--	638.3	30.4	905.0
1986	32.9	110.3	4.4	19.5	10.7	3.6	110.3	0.1	--	292.7	24.3	608.8
1987	38.7	100.4	3.8	20.2	11.4	3.8	109.8	0.1	--	360.6	26.3	675.1
1988	43.3	89.5	4.4	21.6	12.1	4.0	110.0	0.2	--	271.2	26.8	583.1
1989	32.5	64.9	3.6	22.7	13.0	4.3	122.0	0.1	--	319.5	31.7	614.3
1990	43.5	81.2	4.6	23.1	14.5	4.8	132.1	0.1	--	362.6	38.8	705.3
1991	38.3	97.2	5.2	24.2	16.0	5.3	131.8	0.1	--	290.8	34.7	643.6
1992	43.7	129.6	6.2	26.1	18.0	6.0	137.1	0.1	--	259.8	33.4	660.0
1993	37.7	184.9	5.7	26.6	21.9	7.3	139.5	0.1	--	224.2	32.5	680.4
1994	32.3	150.4	5.6	30.1	26.3	8.8	149.6	0.1	--	193.5	30.3	627.0
1995	26.7	154.5	6.9	33.6	33.4	11.1	150.1	0.1	--	195.5	30.9	642.8
1996	27.5	149.4	4.9	36.4	43.8	14.6	154.1	0.1	--	216.2	37.0	684.0
1997	32.8	139.8	7.1	40.2	58.2	19.4	163.9	0.1	--	190.2	35.2	686.9
1998	27.7	129.5	7.7	43.5	78.6	28.7	148.7	0.1	--	117.6	30.9	613.0
1999	37.2	154.2	9.1	45.1	108.1	46.0	156.4	0.1	--	152.6	37.5	746.3
2000	40.9	136.4	9.6	47.9	116.7	50.2	189.3	0.1	--	265.9	58.1	915.1

(Note: 1998-2000 Bus & Pers Serv Sector includes exportable services component)

TABLE A5. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 2, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Coal Conversion	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	24.2	46.9	2.2	7.8	2.5	0.9	31.3	--	--	7.3	--	123.1
1959	22.9	50.1	3.3	7.4	2.8	0.9	29.1	--	--	12.5	--	129.0
1960	18.8	53.0	3.9	8.8	2.3	0.8	33.0	--	--	16.8	--	137.4
1961	23.3	23.2	2.9	9.3	2.7	0.9	39.1	--	--	20.9	--	122.3
1962	21.5	85.4	2.0	8.9	2.9	1.0	78.9	--	--	21.7	--	222.3
1963	22.4	89.0	2.1	10.6	3.4	1.1	69.7	--	--	21.6	--	219.9
1964	23.3	74.7	3.6	11.3	4.0	1.4	124.1	--	--	24.0	--	266.4
1965	27.2	78.2	3.7	11.3	5.1	1.7	71.0	--	--	25.4	--	223.6
1966	28.4	95.8	2.8	12.1	6.9	2.3	91.8	--	--	23.6	--	263.7
1967	29.9	65.6	2.9	13.5	8.4	2.8	68.8	--	--	21.5	--	213.4
1968	26.2	72.5	3.2	14.7	10.7	3.6	89.0	--	--	21.5	--	241.4
1969	26.0	95.8	2.1	23.3	11.7	3.9	102.6	--	--	20.0	--	285.4
1970	28.1	94.2	2.9	21.3	13.2	4.4	129.5	--	--	21.5	--	315.1
1971	35.5	91.7	5.0	23.3	14.4	4.8	131.4	--	--	24.4	--	330.5
1972	39.7	133.6	4.2	24.5	13.3	4.4	120.4	--	--	25.8	--	365.9
1973	49.2	311.3	7.0	34.9	14.6	4.9	146.7	--	--	25.6	--	594.2
1974	45.2	300.8	5.7	43.8	14.3	4.8	178.0	--	--	47.9	--	640.5
1975	46.9	206.6	5.4	44.1	17.3	5.8	297.3	--	--	46.5	--	669.9
1976	52.9	153.6	1.8	67.2	20.7	6.9	198.3	--	--	54.9	--	556.3
1977	54.3	131.9	11.4	58.7	21.1	7.4	213.1	--	--	51.0	--	548.9
1978	59.0	208.7	17.1	62.7	25.4	8.5	226.4	--	--	49.3	--	657.1
1979	74.8	177.4	15.3	75.3	22.7	7.6	285.5	--	--	62.1	--	720.7
1980	80.4	221.4	12.4	80.8	22.3	7.5	349.7	--	--	100.1	--	874.6
1981	63.2	317.2	13.1	88.6	24.7	8.3	433.2	--	--	194.0	--	1,142.3
1982	62.6	306.8	9.3	75.7	25.7	8.6	340.4	--	--	188.8	--	1,017.9
1983	70.5	323.9	13.2	77.2	30.3	10.1	386.9	--	--	176.7	--	1,088.8
1984	72.4	258.8	18.5	82.3	27.2	9.1	425.6	--	--	176.8	--	1,070.7
1985	71.2	339.1	17.0	84.0	29.3	9.7	431.3	--	--	156.5	--	1,138.1
1986	67.9	308.6	16.1	84.5	29.9	9.9	444.9	--	--	74.3	--	1,036.1
1987	79.9	215.0	13.5	87.8	31.9	10.6	452.2	--	--	90.4	--	981.3
1988	87.6	276.4	15.7	94.0	33.8	11.3	470.4	--	--	91.0	--	1,080.2
1989	63.8	209.2	13.0	98.7	36.5	12.2	531.5	--	--	120.6	--	1,085.5
1990	87.3	281.7	16.6	100.5	40.5	13.5	581.5	--	--	157.1	--	1,278.7
1991	73.1	271.2	18.8	105.0	44.7	14.9	589.6	--	--	118.7	--	1,236.0
1992	76.2	337.9	22.5	113.4	50.3	16.8	634.0	--	--	100.1	--	1,351.2
1993	66.7	473.7	20.6	115.5	61.4	20.5	652.4	--	--	79.5	--	1,490.3
1994	59.3	422.4	20.0	130.8	73.7	24.6	713.7	--	--	69.8	--	1,514.3
1995	58.1	417.2	24.8	145.9	93.6	31.2	710.6	--	--	79.2	--	1,560.6
1996	54.0	421.9	17.7	158.3	122.6	40.9	718.4	--	--	95.2	--	1,629.0
1997	61.1	384.0	25.8	174.4	163.0	54.4	803.8	--	--	90.7	--	1,757.2
1998	59.3	359.9	27.9	188.9	220.1	126.9	734.2	--	--	56.9	--	1,774.1
1999	72.7	255.1	33.0	195.8	302.6	181.0	739.8	--	--	72.2	--	1,852.2
2000	73.3	343.3	34.7	208.2	326.8	185.2	800.6	--	--	114.2	--	2,086.3

(Note: 1998-2000 Bus & Pers Serv Sector includes exportable services component)

TABLE A6. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 3, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Coal Conversion	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	16.6	58.5	1.8	3.3	1.4	0.5	11.5	--	--	--	--	93.6
1959	16.0	58.2	2.7	2.8	1.6	0.5	13.3	--	--	--	--	95.1
1960	13.1	42.4	3.3	3.0	1.3	0.4	15.2	--	--	--	--	78.7
1961	16.0	46.9	2.4	2.9	1.5	0.5	15.4	--	--	--	--	85.6
1962	15.1	75.3	1.7	2.5	1.6	0.5	16.1	--	--	--	--	112.8
1963	15.3	75.1	1.7	2.7	1.9	0.6	17.7	--	--	--	--	115.0
1964	14.8	65.8	3.0	2.9	2.3	0.8	19.9	--	--	--	--	109.5
1965	17.1	66.7	3.1	2.9	2.8	0.9	20.7	--	--	--	--	114.2
1966	17.4	75.8	2.3	3.1	3.9	1.3	22.5	--	--	--	--	126.3
1967	17.9	77.9	2.4	3.4	4.7	1.6	23.6	--	--	--	--	131.5
1968	16.3	78.7	2.7	3.7	6.0	2.0	25.6	--	--	--	--	135.0
1969	15.9	81.0	0.9	6.0	6.5	2.2	33.8	--	--	--	--	146.3
1970	16.1	78.8	0.9	5.5	7.4	2.5	47.0	--	--	--	--	158.2
1971	17.6	85.1	4.3	6.0	8.1	2.7	48.1	--	--	--	--	171.9
1972	21.1	114.6	5.2	6.3	7.4	2.5	61.5	--	--	--	--	218.6
1973	25.9	221.2	6.2	9.0	8.2	2.7	58.6	--	--	--	--	331.8
1974	24.2	229.1	4.2	11.3	8.0	2.7	81.8	--	--	--	--	361.3
1975	24.8	216.7	5.1	11.3	9.7	3.2	97.3	--	--	--	--	368.1
1976	25.7	151.4	3.7	17.3	11.5	3.8	113.2	--	--	--	--	326.6
1977	24.8	138.9	2.4	15.1	12.3	4.1	114.1	--	--	--	--	311.7
1978	27.0	182.0	4.7	16.1	14.2	4.7	120.2	--	--	--	--	368.9
1979	34.8	228.2	3.4	19.4	12.7	4.2	120.2	--	--	--	--	422.9
1980	38.6	242.0	19.0	20.8	12.4	4.1	135.0	--	--	--	--	471.9
1981	30.1	298.0	6.6	22.8	13.8	4.6	139.5	--	--	--	--	515.4
1982	30.3	306.2	4.7	19.5	14.4	4.8	132.6	--	--	--	--	512.5
1983	33.3	299.5	6.7	19.9	16.9	5.6	182.1	--	--	--	--	564.0
1984	33.8	276.3	9.4	21.2	15.2	5.1	200.6	--	--	--	--	561.6
1985	33.7	332.9	8.6	21.6	16.3	5.4	214.8	--	--	--	--	633.3
1986	32.6	248.1	8.1	21.7	16.7	5.6	223.2	--	--	--	--	556.0
1987	38.4	268.3	6.8	22.6	17.8	5.9	227.9	--	--	--	--	587.7
1988	41.1	306.6	8.0	24.2	18.9	6.3	234.7	--	--	--	--	639.8
1989	31.8	241.9	6.5	25.4	20.4	6.8	263.8	--	--	--	--	596.6
1990	39.5	200.9	8.4	25.9	22.6	7.6	285.3	--	--	--	--	662.6
1991	34.1	298.2	9.5	27.0	25.0	8.3	292.7	--	--	--	--	694.8
1992	38.0	331.1	11.4	29.2	28.1	9.4	319.6	--	--	--	--	768.8
1993	35.9	246.8	10.4	29.7	34.3	11.4	331.6	--	--	--	--	700.1
1994	30.1	301.4	10.1	33.7	41.1	13.7	366.3	--	--	--	--	796.4
1995	27.8	297.6	12.6	37.5	52.2	17.4	361.5	--	--	--	--	806.6
1996	23.8	325.5	8.9	40.7	68.5	22.8	361.9	--	--	--	--	852.1
1997	26.3	292.1	13.0	44.9	91.1	30.4	412.2	--	--	--	--	910.0
1998	24.2	271.1	14.1	48.6	122.9	50.3	377.2	--	--	--	--	908.4
1999	26.6	249.5	16.7	50.4	169.0	70.7	374.8	--	--	--	--	957.7
2000	26.9	256.5	17.6	53.6	182.5	76.8	395.7	--	--	--	--	1,009.6

(Note: 1998-2000 Bus & Pers Serv Sector includes exportable services component)

TABLE A7. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 4, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Coal Conversion	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	11.7	70.4	3.1	6.0	2.3	0.8	36.7	--	--	--	--	131.0
1959	11.4	77.4	4.6	6.5	2.5	0.8	35.4	--	--	--	--	138.6
1960	9.6	72.0	5.5	8.7	2.1	0.7	40.1	--	--	--	--	138.7
1961	11.1	76.7	4.0	9.6	2.4	0.8	46.4	--	--	--	--	151.0
1962	10.5	60.2	2.8	10.0	2.6	0.9	86.4	--	--	--	--	173.4
1963	10.5	78.1	2.9	13.6	3.0	1.0	78.0	--	--	--	--	187.1
1964	10.2	68.7	5.1	14.6	3.6	1.2	133.1	--	--	--	--	236.5
1965	11.4	114.6	5.2	14.6	4.5	1.5	80.7	--	--	--	--	232.5
1966	11.7	96.9	3.9	15.7	6.2	2.1	102.3	--	--	--	--	238.8
1967	11.2	105.1	4.1	17.4	7.5	2.5	79.9	--	--	--	--	227.7
1968	9.9	97.9	4.5	18.9	10.0	3.2	101.1	--	--	--	--	245.5
1969	10.2	107.2	11.3	30.1	10.4	3.5	94.4	--	--	--	--	267.1
1970	8.7	133.3	150.8	27.5	11.7	4.0	107.6	--	--	--	--	443.6
1971	10.2	117.3	28.5	30.1	12.8	4.3	115.7	--	--	--	--	318.9
1972	12.6	171.2	41.2	31.6	11.8	4.0	130.8	--	--	--	--	403.2
1973	15.4	306.2	25.2	45.1	13.0	4.3	158.4	--	--	--	--	567.6
1974	16.4	380.7	41.4	56.6	12.7	4.3	160.9	--	--	--	--	673.0
1975	15.2	275.4	24.6	56.9	15.4	5.2	196.4	--	--	--	--	589.1
1976	18.1	215.4	14.2	86.7	18.4	6.2	274.0	--	--	--	--	633.0
1977	17.2	221.6	7.7	75.8	19.7	6.6	190.9	--	--	--	--	539.5
1978	19.0	271.5	4.0	80.9	22.6	7.6	206.6	--	--	--	--	612.2
1979	24.3	299.8	5.1	97.3	20.2	6.8	221.0	--	--	--	--	674.5
1980	37.5	344.3	12.1	104.4	19.8	6.7	269.5	--	--	--	--	794.3
1981	21.4	387.9	11.1	114.5	22.0	7.4	269.5	--	--	--	--	833.8
1982	21.4	376.1	7.9	97.8	22.9	7.7	256.2	--	--	--	--	790.0
1983	23.4	512.9	11.2	99.7	26.9	9.0	351.8	--	--	--	--	1,034.9
1984	22.6	432.1	15.7	106.3	24.2	8.1	387.6	--	--	--	--	996.6
1985	23.6	450.8	14.5	108.5	26.0	8.7	414.9	--	--	--	--	1,047.0
1986	23.7	465.5	13.7	109.1	26.5	8.9	431.3	--	--	--	--	1,078.7
1987	27.9	471.4	11.5	113.5	28.4	9.5	439.7	--	--	--	--	1,101.9
1988	26.5	646.7	13.4	121.4	30.1	10.0	449.6	--	--	--	--	1,297.7
1989	42.4	318.2	11.0	127.4	32.5	10.8	503.0	--	--	--	--	1,045.3
1990	23.8	428.2	14.1	129.7	36.0	12.0	543.0	--	--	--	--	1,186.8
1991	19.7	465.2	16.0	135.6	39.8	13.3	557.3	--	--	--	--	1,246.9
1992	22.3	525.5	19.1	146.4	44.8	14.9	609.1	--	--	--	--	1,382.1
1993	24.8	445.0	17.5	149.1	54.6	18.2	632.6	--	--	--	--	1,341.8
1994	19.0	452.3	17.0	168.9	65.5	21.8	699.5	--	--	--	--	1,444.0
1995	17.8	502.4	21.1	188.4	83.2	27.7	690.4	--	--	--	--	1,531.0
1996	18.3	520.6	15.0	204.4	109.0	36.3	691.1	--	--	--	--	1,594.7
1997	17.1	498.7	21.9	225.2	145.0	48.3	785.6	--	--	--	--	1,741.8
1998	15.0	557.6	23.7	243.9	195.8	73.9	718.1	--	--	--	--	1,828.0
1999	19.7	619.5	28.0	252.9	269.2	99.0	714.1	--	--	--	--	2,002.4
2000	25.5	598.2	29.5	268.8	290.8	107.1	753.3	--	--	--	--	2,073.2

(Note: 1998-2000 Bus & Pers Serv Sector includes exportable services component)

TABLE A8. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 5, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstck	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Coal Conversion	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	30.0	74.3	3.7	20.0	3.0	1.0	56.3	--	--	--	--	188.3
1959	31.0	74.6	5.5	17.9	3.3	1.1	50.8	--	--	--	--	184.2
1960	26.2	69.5	6.5	20.4	2.8	0.9	34.0	--	--	--	--	160.3
1961	30.8	90.2	4.8	20.6	3.2	1.1	68.5	--	--	--	--	219.2
1962	29.7	46.9	3.3	18.7	3.4	1.1	83.1	--	--	--	--	186.2
1963	29.4	87.6	3.4	21.1	4.0	1.3	85.4	--	--	--	--	232.2
1964	28.5	63.7	6.1	22.6	4.8	1.6	103.7	--	--	--	--	231.0
1965	32.6	90.4	6.2	22.6	6.0	2.0	93.5	--	--	--	--	253.3
1966	35.4	101.6	4.7	24.3	8.2	2.8	105.1	--	--	--	--	282.1
1967	36.0	98.9	4.9	27.0	10.1	3.3	103.1	--	--	--	--	283.3
1968	32.3	93.7	5.4	29.3	12.8	4.3	113.2	--	--	--	--	291.0
1969	33.1	104.0	8.1	46.8	13.9	4.6	105.6	--	--	--	--	316.1
1970	33.2	112.7	11.5	42.8	15.7	5.2	100.6	--	--	--	--	321.7
1971	36.0	120.7	12.0	46.8	17.2	5.7	108.5	--	--	--	--	346.9
1972	44.2	175.9	10.9	49.1	15.8	5.3	117.8	--	--	--	--	419.0
1973	57.0	358.4	18.2	70.2	17.3	5.8	114.2	--	--	--	--	641.1
1974	61.8	393.0	12.3	88.0	17.0	5.7	119.3	--	--	--	--	697.1
1975	55.0	241.3	28.0	88.6	20.6	6.9	142.1	--	--	--	--	582.5
1976	58.0	228.9	3.1	134.9	24.5	8.2	154.1	--	--	--	--	611.7
1977	52.4	297.9	7.0	117.9	26.3	8.8	164.6	--	--	--	--	674.9
1978	58.1	357.7	10.3	125.9	30.2	10.1	194.8	--	--	--	--	787.1
1979	67.0	377.9	10.3	151.3	27.0	9.0	194.0	--	--	--	--	836.5
1980	73.8	419.2	16.4	162.4	26.4	8.9	226.9	--	--	--	--	934.0
1981	57.5	470.4	10.2	178.0	29.4	9.8	215.3	--	--	--	--	970.6
1982	57.6	436.9	7.2	152.1	30.6	10.2	204.7	--	--	--	--	899.3
1983	58.7	554.1	10.3	155.1	35.9	12.0	281.0	--	--	--	--	1,107.1
1984	61.7	495.5	14.4	165.3	32.4	10.8	309.7	--	--	--	--	1,089.8
1985	61.4	581.2	13.2	168.8	34.8	11.6	331.5	--	--	--	--	1,202.5
1986	62.4	483.4	12.5	169.8	35.5	11.8	344.6	--	--	--	--	1,120.0
1987	73.4	519.6	10.5	176.4	37.9	12.7	350.8	--	--	--	--	1,181.3
1988	68.2	650.7	12.2	188.7	40.2	13.4	356.0	--	--	--	--	1,329.4
1989	51.9	493.1	10.1	198.2	43.4	14.5	398.4	--	--	--	--	1,209.6
1990	65.6	551.4	12.9	201.8	48.1	16.0	432.1	--	--	--	--	1,327.9
1991	56.4	567.1	14.6	210.8	53.2	17.7	443.6	--	--	--	--	1,363.4
1992	62.7	583.4	17.4	227.7	59.8	19.9	484.9	--	--	--	--	1,455.8
1993	56.1	490.4	16.0	231.9	73.0	24.3	503.7	--	--	--	--	1,395.4
1994	52.8	571.6	15.6	262.8	87.6	29.2	557.2	--	--	--	--	1,576.8
1995	48.7	592.8	19.3	292.9	111.2	37.1	549.9	--	--	--	--	1,651.9
1996	49.6	744.4	13.7	317.9	145.7	48.6	550.5	--	--	--	--	1,870.4
1997	52.0	736.4	20.0	350.3	193.7	64.6	626.7	--	--	--	--	2,043.7
1998	50.1	662.5	21.7	397.4	261.5	220.9	572.8	--	--	--	--	2,186.9
1999	54.4	845.0	25.6	393.3	359.6	266.7	569.6	--	--	--	--	2,514.2
2000	60.9	798.4	27.0	418.1	388.4	295.6	601.3	--	--	--	--	2,589.7

(Note: 1998-2000 Bus & Pers Serv Sector includes exportable services component)

TABLE A9. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 6, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Coal Conversion	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	45.8	83.1	2.4	8.5	2.4	0.8	14.9	--	--	--	--	157.9
1959	45.4	64.7	3.5	7.2	2.6	0.9	17.3	--	--	--	--	141.6
1960	36.8	68.1	4.2	7.8	2.2	0.7	19.7	--	--	--	--	139.5
1961	44.4	61.9	3.1	7.3	2.5	0.8	19.9	--	--	--	--	139.9
1962	42.6	83.3	2.1	6.2	2.7	0.9	21.1	--	--	--	--	158.9
1963	44.6	79.0	2.2	6.5	3.1	1.0	23.1	--	--	--	--	159.5
1964	46.1	71.7	3.9	6.9	3.8	1.3	26.3	--	--	--	--	160.0
1965	52.9	81.9	4.0	6.9	4.7	1.6	27.0	--	--	--	--	179.0
1966	57.5	93.3	3.0	7.5	6.4	2.2	29.4	--	--	--	--	199.3
1967	59.3	89.1	3.2	8.3	7.8	2.6	30.6	--	--	--	--	200.9
1968	55.3	104.3	3.5	9.0	10.0	3.3	33.6	--	--	--	--	219.0
1969	54.9	110.1	2.7	14.4	10.8	3.6	44.6	--	--	--	--	241.1
1970	56.3	107.9	8.7	13.2	12.2	4.1	51.2	--	--	--	--	253.6
1971	60.7	118.1	1.9	14.4	13.4	4.5	58.1	--	--	--	--	271.1
1972	75.7	158.5	2.7	15.1	12.3	4.1	58.9	--	--	--	--	327.3
1973	95.2	221.3	2.3	21.6	13.5	4.6	65.5	--	--	--	--	424.0
1974	86.9	322.6	1.5	27.1	13.2	4.4	68.1	--	--	--	--	523.8
1975	91.9	277.9	3.7	27.2	16.1	5.3	77.7	--	--	--	--	499.8
1976	102.0	184.9	6.7	41.5	19.2	6.4	85.1	--	--	--	--	445.8
1977	99.0	204.7	4.2	36.2	20.5	6.8	95.0	--	--	--	--	466.4
1978	110.4	286.7	5.4	38.7	23.6	7.8	106.7	--	--	--	--	579.3
1979	145.5	320.0	7.6	46.5	21.1	7.0	107.8	--	--	--	--	655.5
1980	138.0	278.8	6.8	49.9	20.7	6.8	130.7	--	--	--	--	631.7
1981	127.2	448.1	7.4	54.7	22.9	7.6	120.5	--	--	--	--	788.4
1982	130.0	444.4	5.3	46.7	23.9	7.9	114.6	--	--	--	--	772.8
1983	140.0	442.8	7.6	47.7	28.1	9.3	157.3	--	--	--	--	832.8
1984	143.6	445.9	10.6	50.8	25.3	8.4	173.3	--	--	--	--	857.9
1985	146.7	442.0	9.7	51.9	27.2	9.1	185.6	--	--	--	--	872.2
1986	142.0	375.7	9.2	52.2	27.7	9.2	192.9	--	--	--	--	808.9
1987	167.0	378.0	7.7	54.2	29.6	9.9	198.6	--	--	--	--	845.0
1988	173.5	372.0	9.0	58.0	31.4	10.5	206.8	--	--	--	--	861.2
1989	139.2	313.9	7.4	60.9	33.9	11.3	235.6	--	--	--	--	802.2
1990	169.3	453.9	9.5	62.0	37.6	12.5	259.2	--	--	--	--	1,004.0
1991	149.3	442.8	10.7	64.8	41.5	13.8	265.6	--	--	--	--	988.5
1992	157.1	503.4	12.8	70.0	46.7	15.6	288.7	--	--	--	--	1,094.3
1993	150.9	468.4	11.7	71.3	57.0	19.0	299.2	--	--	--	--	1,077.5
1994	134.0	479.5	11.3	80.8	68.4	22.8	329.1	--	--	--	--	1,125.9
1995	116.6	484.0	14.0	90.1	86.9	29.0	325.0	--	--	--	--	1,145.6
1996	107.2	594.4	10.0	97.7	113.8	37.9	325.3	--	--	--	--	1,286.3
1997	117.7	519.9	14.6	107.7	151.4	50.4	371.3	--	--	--	--	1,333.0
1998	105.1	540.3	15.8	116.7	204.4	83.3	341.1	--	--	--	--	1,406.7
1999	116.1	486.5	18.7	120.9	281.0	110.5	338.4	--	--	--	--	1,472.1
2000	111.5	578.4	19.6	128.5	303.5	124.0	355.7	--	--	--	--	1,621.2

(Note: 1998-2000 Bus & Pers Serv Sector includes exportable services component)

TABLE A10. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 7, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Coal Conversion	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	54.3	50.2	3.4	11.7	2.8	0.9	24.3	0.6	--	--	38.8	187.0
1959	53.3	31.0	5.1	10.3	3.0	1.0	27.0	0.5	--	--	38.2	169.4
1960	41.6	40.7	6.0	11.6	2.5	0.8	30.7	0.6	--	--	37.1	171.6
1961	52.5	14.1	4.5	11.6	2.9	1.0	32.1	0.8	--	--	37.4	156.9
1962	47.4	63.7	3.0	10.5	3.2	1.1	40.3	0.9	--	--	37.2	207.3
1963	50.7	54.9	3.2	11.7	3.7	1.2	41.3	0.8	--	--	37.1	204.6
1964	53.2	52.5	5.6	12.6	4.4	1.5	54.5	1.1	--	--	37.9	223.3
1965	62.2	60.7	5.7	12.6	5.5	1.8	46.4	1.3	--	--	40.0	236.2
1966	71.6	66.5	4.3	13.5	7.6	2.5	53.1	1.2	4.4	--	42.0	266.7
1967	73.5	54.6	4.5	15.0	9.2	3.1	50.7	1.8	8.4	--	43.9	264.7
1968	72.0	61.0	5.0	16.3	11.7	3.9	57.9	2.1	12.3	--	44.2	286.4
1969	72.5	67.0	6.4	25.9	12.8	4.3	77.3	2.2	11.7	--	44.8	324.9
1970	76.2	63.4	4.7	23.7	14.5	4.8	83.8	2.9	13.8	--	45.7	333.5
1971	83.1	64.3	4.2	25.9	15.8	5.3	97.3	3.2	17.5	--	47.3	363.9
1972	103.4	96.7	4.8	27.2	14.6	4.9	113.1	2.9	21.4	--	50.2	439.2
1973	131.7	148.4	2.1	38.9	16.0	5.3	130.5	3.7	19.3	--	56.8	552.7
1974	119.7	156.9	4.4	48.7	15.6	5.2	141.4	4.4	22.4	--	67.3	586.0
1975	121.7	161.3	13.7	49.0	19.0	6.3	169.2	5.1	20.6	--	74.2	640.1
1976	139.4	106.1	10.9	74.7	22.7	7.5	173.8	8.2	38.6	--	80.4	662.3
1977	133.7	73.5	14.0	65.2	24.3	8.0	219.5	9.8	46.3	--	87.0	681.3
1978	146.8	139.5	13.7	69.7	27.9	9.2	215.4	13.1	65.4	--	93.5	794.2
1979	196.2	134.2	31.4	83.8	24.9	8.3	278.0	19.5	91.6	--	143.8	1,011.7
1980	243.9	93.1	33.6	89.9	24.4	8.1	331.2	30.5	120.1	--	228.8	1,203.6
1981	172.6	211.7	22.6	98.5	27.1	9.0	396.6	36.7	140.8	--	406.6	1,522.2
1982	182.4	216.6	16.1	84.2	28.3	9.3	320.8	41.2	162.0	--	374.0	1,434.9
1983	199.8	223.5	23.0	85.8	33.2	11.1	371.6	60.3	196.4	--	347.9	1,552.6
1984	210.1	209.5	32.1	91.6	29.9	9.9	425.6	75.5	226.3	--	337.4	1,647.9
1985	212.2	257.2	29.5	93.4	32.1	10.7	418.8	112.9	261.5	--	313.9	1,742.2
1986	203.4	211.0	27.9	94.0	32.8	10.9	430.0	109.5	261.3	--	251.1	1,631.9
1987	239.3	185.9	23.5	97.7	35.0	11.7	435.8	103.6	498.6	--	271.1	1,902.2
1988	266.5	94.9	27.3	104.5	37.1	12.4	446.6	108.2	569.8	--	276.6	1,943.9
1989	180.0	111.7	22.5	109.7	40.1	13.4	499.2	127.2	535.6	--	323.2	1,962.6
1990	251.5	126.2	28.9	111.7	44.4	14.8	540.9	123.4	543.6	--	389.0	2,174.4
1991	214.2	155.6	32.6	116.7	49.1	16.4	555.7	119.1	565.5	--	349.6	2,174.5
1992	230.1	222.4	39.0	126.0	55.2	18.4	603.8	127.7	623.3	--	338.8	2,384.7
1993	218.3	286.0	35.7	128.4	67.4	22.5	623.0	136.8	655.7	--	328.9	2,502.7
1994	194.1	242.8	34.7	145.5	80.9	27.0	682.8	138.9	660.5	--	311.4	2,518.6
1995	173.3	263.0	43.1	162.2	102.7	34.2	679.8	145.2	649.5	--	319.4	2,572.4
1996	162.8	297.0	30.6	176.0	134.5	44.8	695.2	151.4	698.5	--	376.1	2,766.9
1997	187.8	280.5	44.7	193.9	178.9	59.6	786.1	151.5	694.4	--	363.2	2,940.6
1998	175.7	288.5	48.3	210.0	241.5	138.9	718.5	149.7	739.9	--	321.8	3,032.8
1999	197.9	295.2	57.2	217.7	332.1	169.9	725.9	155.4	735.5	--	383.7	3,270.5
2000	189.0	311.6	60.2	231.5	358.7	185.9	786.2	154.8	868.6	--	577.1	3,723.6

(Note: 1998-2000 Bus & Pers Serv Sector includes exportable services component)

TABLE A11. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 8, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Coal Conversion	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	27.4	40.7	1.0	2.6	1.2	0.4	6.2	0.3	--	0.8	--	80.6
1959	27.5	24.5	1.5	2.6	1.3	0.4	7.2	0.3	--	0.7	--	66.0
1960	21.3	26.0	1.8	3.2	1.1	0.4	8.2	0.3	--	1.2	--	63.5
1961	25.8	18.2	1.3	3.6	1.3	0.4	8.3	0.3	--	2.3	--	61.5
1962	23.3	33.6	0.9	3.7	1.4	0.5	8.7	0.4	--	3.6	--	76.1
1963	24.7	43.2	0.9	4.6	1.6	0.5	9.5	0.3	--	4.1	--	89.4
1964	26.3	29.9	1.6	4.9	1.9	0.6	10.7	0.3	--	4.0	--	80.2
1965	30.9	35.4	1.7	4.9	2.4	0.8	11.2	0.2	--	5.4	--	92.9
1966	35.2	46.6	1.3	5.3	3.3	1.1	12.1	0.2	--	8.2	--	113.3
1967	38.3	49.0	1.3	4.0	4.0	1.3	12.1	0.2	--	11.0	--	121.2
1968	38.3	36.0	1.5	6.4	5.1	1.7	13.9	0.3	--	16.9	--	120.1
1969	38.6	36.7	2.2	10.2	5.5	1.8	22.3	0.2	--	14.5	--	132.0
1970	38.9	42.4	2.0	9.3	6.2	2.1	29.3	0.3	--	16.9	--	147.4
1971	43.7	42.5	4.1	10.2	6.8	2.3	23.1	0.3	--	14.7	--	147.7
1972	58.2	64.9	1.4	10.7	6.3	2.1	23.9	0.4	--	15.0	--	182.9
1973	74.7	113.6	0.4	15.3	6.9	2.3	27.2	0.4	--	18.1	--	258.9
1974	70.9	161.0	1.8	19.2	6.8	2.3	29.2	0.5	--	37.6	--	329.3
1975	73.3	91.6	1.8	19.3	8.2	2.7	35.7	2.0	--	45.1	--	279.7
1976	62.4	83.4	2.5	29.4	9.8	3.3	37.4	7.8	--	55.6	--	291.6
1977	75.5	59.5	2.3	25.7	10.5	3.5	43.5	8.4	--	66.4	--	295.3
1978	79.6	89.5	7.0	27.4	12.0	4.0	50.1	8.9	--	80.2	--	358.7
1979	110.4	84.5	2.5	32.9	10.8	3.6	64.3	12.7	--	160.8	--	482.5
1980	124.2	41.6	2.5	35.4	10.6	3.5	88.1	17.6	--	375.3	--	698.8
1981	91.0	101.7	4.1	38.8	11.7	3.9	100.9	17.7	--	890.3	--	1,260.1
1982	89.4	119.6	2.9	33.1	12.2	4.1	78.8	16.5	--	820.8	--	1,177.4
1983	102.3	141.0	4.1	33.8	14.3	4.8	86.8	16.3	--	746.9	--	1,150.3
1984	110.6	142.2	5.8	36.0	12.9	4.3	95.9	20.7	--	651.6	--	1,080.0
1985	115.3	131.4	5.3	36.8	13.9	4.6	96.2	23.7	--	555.3	--	982.5
1986	110.9	120.8	5.0	37.0	14.1	4.7	98.3	17.9	--	249.4	--	658.1
1987	130.4	119.8	4.2	38.4	15.1	5.0	100.1	16.5	--	272.9	--	702.4
1988	143.5	53.3	4.9	41.1	16.0	5.3	104.9	10.0	--	192.7	--	571.7
1989	100.6	187.5	4.1	43.2	17.3	5.8	120.4	17.7	--	212.0	--	708.6
1990	133.0	73.4	5.2	43.9	19.2	6.4	132.4	18.7	--	259.7	--	691.9
1991	114.1	93.5	5.9	45.9	21.2	7.1	136.0	21.8	--	236.3	--	681.8
1992	124.8	146.6	7.0	49.6	23.9	7.9	146.5	19.0	--	217.7	--	743.0
1993	116.1	196.3	6.5	50.5	29.1	9.7	151.1	20.2	--	186.7	--	766.2
1994	105.7	144.3	6.3	57.2	34.9	11.6	164.2	21.7	--	162.9	--	708.8
1995	96.7	172.8	7.8	63.8	44.4	14.8	164.2	20.6	--	223.0	--	808.1
1996	95.4	190.8	5.5	69.2	58.1	19.4	169.2	2.3	--	350.0	--	959.9
1997	102.9	172.2	8.1	76.3	77.3	25.8	190.0	--	--	421.3	--	1,073.9
1998	97.6	159.0	8.7	82.6	104.3	46.3	174.5	--	--	269.3	--	942.3
1999	108.7	161.2	10.3	85.7	143.4	59.6	177.1	0.3	--	340.4	--	1,086.7
2000	111.4	198.1	10.9	91.0	154.9	64.2	191.7	0.3	--	503.5	--	1,326.0

(Note: 1998-2000 Bus & Pers Serv Sector includes exportable services component)

TABLE A12. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstck	(2) Ag Crops	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Electric Generation	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	327.2	614.1	7.0	93.6	11.6	85.1	315.3	725.8	151.0	63.9	67.5	1,022.4	91.7	1.1	--	16.8	13.1	3,607.2
1959	319.5	560.0	6.9	99.4	11.2	81.5	296.9	689.8	143.2	61.2	64.6	978.4	87.2	1.0	--	22.7	12.9	3,436.4
1960	270.4	545.0	6.8	102.7	10.7	78.4	288.2	662.0	137.9	58.2	62.1	942.5	83.8	1.0	--	26.3	12.5	3,288.5
1961	316.7	508.7	6.8	97.9	11.3	83.2	306.8	687.8	143.7	60.8	66.5	1,011.5	88.2	1.3	--	33.5	12.6	3,437.3
1962	315.7	650.1	8.0	109.3	13.5	103.8	316.1	863.5	181.1	75.8	84.2	1,285.8	110.6	1.5	--	35.4	12.5	4,166.9
1963	332.7	732.5	8.5	115.8	14.4	110.2	349.5	926.9	193.6	81.8	88.8	1,353.9	117.8	1.3	--	36.0	12.5	4,476.2
1964	344.5	642.2	9.3	137.2	15.2	120.7	354.1	984.1	206.7	87.3	99.2	1,521.2	127.3	1.5	--	39.0	12.7	4,702.2
1965	386.2	765.4	9.6	138.2	15.9	120.2	385.6	1,010.6	209.2	91.4	96.5	1,470.1	127.8	1.5	--	41.9	13.4	4,883.5
1966	426.1	840.9	10.4	143.6	17.7	135.5	421.9	1,141.0	235.2	105.2	109.0	1,662.4	143.7	2.0	4.4	44.3	14.1	5,457.4
1967	433.6	803.9	10.1	138.9	17.2	129.5	432.6	1,098.6	224.1	104.1	103.4	1,573.0	137.1	3.4	8.4	42.9	14.7	5,275.5
1968	421.9	808.5	10.6	148.9	18.1	138.0	444.5	1,169.1	236.7	113.7	110.5	1,684.5	145.1	4.4	12.3	50.0	14.9	5,531.7
1969	444.3	927.7	12.0	171.2	20.3	154.9	564.3	1,315.0	266.7	127.4	124.0	1,891.0	163.2	4.3	11.7	41.2	15.1	6,254.3
1970	463.6	957.7	17.1	334.6	22.9	174.1	555.7	1,460.7	295.7	141.0	138.7	2,117.3	181.3	5.4	13.8	46.0	15.4	6,941.0
1971	504.7	982.2	14.0	214.8	22.9	176.0	598.6	1,485.4	300.3	145.7	141.2	2,156.6	184.4	6.3	17.5	49.5	16.1	7,016.2
1972	618.8	1,345.8	17.3	261.2	28.0	213.4	704.2	1,814.2	371.0	171.1	170.8	2,601.4	226.1	6.7	21.4	52.1	17.1	8,640.6
1973	822.2	2,330.9	24.4	334.2	40.5	305.3	1,023.9	2,662.2	546.4	244.0	242.1	3,674.7	328.7	7.2	19.3	58.2	19.4	12,683.6
1974	828.6	2,664.6	27.4	381.2	45.6	341.7	1,164.4	2,974.8	612.8	269.9	270.3	4,104.7	367.7	8.5	22.4	102.5	22.9	14,210.0
1975	813.0	2,110.9	25.7	375.7	42.7	327.5	1,098.2	2,773.5	570.7	257.0	262.8	4,009.8	347.0	10.4	20.6	113.5	25.3	13,184.3
1976	857.0	1,834.5	23.7	325.3	41.7	316.5	1,340.8	2,641.1	541.5	251.4	253.0	3,861.0	331.7	22.1	38.6	133.6	27.7	12,841.2
1977	845.5	1,779.7	23.6	329.6	41.2	313.4	1,236.6	2,618.3	535.1	251.6	250.9	3,829.5	328.0	25.6	46.3	136.8	30.0	12,821.7
1978	949.1	2,296.5	28.1	394.3	48.6	369.0	1,388.3	3,126.8	638.3	299.3	294.1	4,481.3	388.7	32.4	65.4	145.5	31.8	14,977.5
1979	1,186.9	2,510.2	32.6	461.2	56.9	426.4	1,660.4	3,533.3	731.9	328.0	340.3	5,187.2	447.3	46.8	91.6	240.4	48.4	17,329.8
1980	1,328.7	2,612.5	37.7	561.7	67.0	488.7	1,800.8	3,937.0	822.6	359.7	388.5	5,930.5	505.3	67.4	120.1	513.8	76.3	19,618.3
1981	1,185.7	3,259.0	43.8	660.5	85.0	581.4	1,904.1	4,626.5	965.3	421.0	451.7	6,899.5	591.0	77.1	140.8	1,179.6	134.2	23,206.2
1982	1,157.1	3,160.3	40.3	589.1	78.6	535.1	1,736.6	4,313.0	895.5	397.2	413.8	6,305.3	546.3	83.7	162.0	1,044.0	123.9	21,581.8
1983	1,279.6	3,530.5	45.4	667.6	85.6	604.7	1,856.0	4,909.0	1,019.5	453.7	473.5	7,223.2	621.5	108.0	196.4	955.7	116.1	24,146.0
1984	1,309.9	3,253.6	45.7	693.3	84.2	605.6	1,897.5	4,847.3	1,015.3	442.9	478.8	7,313.8	621.2	132.3	226.3	884.3	113.3	23,965.3
1985	1,349.3	3,562.2	47.5	704.4	86.8	636.7	1,973.7	5,152.7	1,078.3	471.8	505.4	7,713.5	657.6	178.5	261.5	764.1	106.8	25,250.8
1986	1,301.3	3,268.0	44.2	641.3	77.6	601.4	1,923.5	4,910.9	1,028.2	453.0	486.0	7,425.9	627.4	168.9	261.3	373.5	86.2	23,678.6
1987	1,454.5	3,268.0	45.4	647.4	81.4	624.2	2,042.0	5,058.5	1,069.8	468.6	503.2	7,672.1	650.7	199.2	498.6	430.4	95.0	24,809.0
1988	1,552.8	3,574.2	48.3	686.5	85.3	659.3	2,193.1	5,384.1	1,139.5	498.9	532.0	8,104.6	691.1	208.6	569.8	348.5	97.5	26,374.1
1989	1,288.7	2,921.9	44.6	647.6	80.4	632.4	2,055.2	5,063.5	1,071.2	476.2	514.5	7,868.1	654.5	229.8	535.6	418.7	112.8	24,615.7
1990	1,547.4	3,366.1	51.0	746.0	91.6	714.5	2,242.9	5,733.7	1,210.1	537.6	580.3	8,875.2	740.1	228.3	543.6	500.4	134.3	27,843.1
1991	1,428.4	3,476.0	51.5	759.8	91.3	718.9	2,255.0	5,818.2	1,222.7	552.0	584.0	8,930.9	745.9	230.6	565.5	439.6	121.7	27,992.0
1992	1,559.6	3,973.0	57.2	844.4	100.1	793.0	2,468.9	6,468.1	1,356.7	614.9	644.6	9,854.5	826.0	245.5	623.3	401.2	118.8	30,949.8
1993	1,519.5	3,980.4	57.4	841.0	101.0	807.6	2,479.1	6,633.3	1,379.3	646.9	656.6	10,039.5	840.0	260.9	655.7	354.3	116.1	31,368.6
1994	1,472.2	4,000.9	59.2	866.8	104.6	846.7	2,633.4	6,974.8	1,438.9	695.2	690.3	10,569.1	878.2	265.3	660.5	320.5	110.4	32,587.0
1995	1,440.5	4,179.8	61.8	923.4	109.9	873.8	2,805.9	7,281.9	1,475.7	753.1	704.9	10,783.7	900.8	268.8	649.5	422.2	112.9	33,748.6
1996	1,475.0	4,627.2	64.8	939.0	119.7	933.7	3,013.3	7,914.8	1,572.1	853.6	744.3	11,372.0	958.5	264.5	698.5	566.2	131.8	36,249.0
1997	1,611.9	4,505.8	69.9	1,047.7	129.4	1,008.7	3,241.9	8,602.8	1,669.3	975.6	801.5	12,260.8	1,024.5	261.6	694.4	636.0	127.4	38,669.2
1998	1,598.4	4,502.9	70.1	1,042.9	131.7	1,028.6	3,397.3	8,964.8	1,671.6	1,396.4	794.1	12,101.9	1,028.7	267.0	739.9	427.9	114.4	39,278.6
1999	1,770.2	4,693.8	75.4	1,135.3	145.2	1,110.2	3,573.8	9,958.1	1,771.0	1,669.5	839.5	12,770.0	1,094.6	272.3	735.5	533.2	134.6	42,282.2
2000	1,487.4	4,822.3	78.6	1,210.1	154.1	1,168.0	3,613.4	10,454.6	1,852.1	1,784.2	878.6	13,374.3	1,143.7	292.8	868.6	798.1	199.2	44,180.1

TABLE A13. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 1, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstck	(2) Ag Crops	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Electric Generation	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	15.0	23.8	0.4	5.7	0.8	4.2	13.7	31.5	6.5	2.8	3.0	44.7	4.1	0.1	--	19.8	4.8	180.9
1959	14.3	21.4	0.4	6.2	0.8	4.2	12.5	30.7	6.3	2.7	2.9	44.3	4.0	0.1	--	23.2	4.7	178.7
1960	12.7	26.2	0.4	7.4	1.0	4.8	12.8	35.0	7.3	3.1	3.3	50.3	4.5	0.1	--	28.4	4.6	201.9
1961	14.5	17.5	0.4	6.7	0.9	4.4	12.4	29.8	6.2	2.6	2.9	44.6	3.9	0.2	--	29.5	4.6	181.1
1962	15.0	36.6	0.5	8.3	1.2	6.1	14.5	45.6	9.4	3.9	4.3	64.7	5.8	0.2	--	33.6	4.6	254.3
1963	16.8	45.6	0.6	9.4	1.3	7.1	16.6	53.6	11.1	4.7	4.9	74.7	6.8	0.1	--	36.3	4.5	294.1
1964	17.2	33.1	0.6	9.7	1.3	6.7	15.7	48.1	9.9	4.3	4.6	70.5	6.2	0.1	--	40.3	4.4	272.7
1965	20.1	36.6	0.6	10.2	1.4	7.0	17.3	51.0	10.5	4.6	4.8	73.0	6.5	--	--	41.7	4.6	289.9
1966	22.1	44.1	0.6	10.7	1.5	7.9	19.4	59.2	12.0	5.4	5.5	83.3	7.5	--	--	43.0	4.6	326.8
1967	22.3	39.3	0.6	9.8	1.4	7.3	19.4	55.3	11.1	5.3	5.1	77.4	6.9	--	--	37.1	4.6	302.9
1968	21.4	37.2	0.6	9.9	1.4	7.4	19.1	55.8	11.1	5.5	5.1	78.1	6.9	--	--	37.1	4.6	301.2
1969	23.1	53.5	0.7	11.5	1.5	9.2	25.2	73.2	14.7	7.1	6.8	102.9	9.1	--	--	31.4	4.7	374.6
1970	24.3	51.8	0.7	10.5	1.5	8.9	24.6	71.4	14.2	7.1	6.5	99.0	8.8	--	--	32.2	5.1	366.6
1971	27.9	48.7	0.7	11.1	1.6	9.5	26.7	74.4	14.8	7.4	6.9	105.7	9.2	--	--	34.9	5.7	385.2
1972	34.3	78.2	1.0	15.3	2.0	12.0	33.2	97.8	19.8	9.3	8.9	134.8	12.1	--	--	34.9	6.0	499.6
1973	45.6	142.6	1.4	18.4	2.8	17.7	49.5	150.5	30.6	13.7	13.2	199.8	18.4	--	--	37.1	6.8	748.1
1974	43.7	156.9	1.7	24.8	3.6	20.8	53.8	168.4	34.4	15.2	14.9	225.9	20.8	--	--	79.8	8.2	872.9
1975	41.4	110.4	1.4	21.6	3.2	17.8	47.6	138.3	28.0	12.9	12.6	191.6	17.2	--	--	80.0	9.0	733.0
1976	43.9	99.0	1.5	23.8	3.4	18.0	55.7	135.8	27.3	13.0	12.5	189.7	17.0	--	--	96.2	9.6	746.4
1977	43.3	76.3	1.4	24.7	3.4	17.5	49.7	125.7	25.2	12.2	12.0	181.8	15.9	--	--	108.5	10.3	707.9
1978	49.9	110.0	1.7	30.0	4.1	21.1	58.0	157.3	31.6	15.1	14.6	221.1	20.0	--	--	120.5	10.8	865.8
1979	69.2	108.7	2.3	39.9	5.6	31.3	71.6	220.2	45.9	19.9	22.9	352.5	29.1	--	--	164.1	15.0	1,198.2
1980	79.8	124.6	3.3	60.1	8.1	42.9	80.8	286.3	60.4	25.1	30.7	473.4	38.6	0.3	--	277.9	22.5	1,614.8
1981	73.7	149.1	4.8	95.9	13.6	64.2	85.0	394.5	83.6	33.9	43.3	668.7	54.1	0.3	--	569.6	39.4	2,373.7
1982	67.6	139.6	4.3	87.1	12.7	55.7	75.8	334.6	70.1	29.2	35.7	548.7	45.5	0.3	--	563.2	36.2	2,106.3
1983	72.3	152.0	4.6	93.7	13.8	57.0	79.8	336.8	69.9	29.7	35.0	536.2	45.4	0.3	--	632.4	33.7	2,192.6
1984	71.2	96.3	4.7	101.2	14.7	57.9	75.0	316.1	66.1	27.5	34.3	527.7	43.8	0.3	--	719.4	32.7	2,188.9
1985	68.0	89.9	4.5	97.2	14.2	54.9	73.1	297.2	61.8	26.2	32.0	491.8	41.1	0.5	--	703.8	30.4	2,086.6
1986	65.4	151.3	3.3	61.5	8.6	41.8	78.7	279.0	57.6	25.3	28.2	432.8	36.6	0.2	--	323.7	24.3	1,618.3
1987	72.9	143.7	3.6	68.4	9.8	45.0	82.3	288.4	59.5	26.2	29.4	451.1	38.2	0.2	--	398.5	26.3	1,743.5
1988	76.5	134.0	3.2	58.3	8.2	40.2	84.9	268.7	55.3	24.8	27.3	419.0	35.3	0.3	--	300.4	26.8	1,563.2
1989	63.5	104.2	3.2	61.6	8.8	41.0	77.6	260.7	53.6	24.2	27.3	419.4	34.7	0.2	--	353.9	31.7	1,565.6
1990	79.7	127.2	3.7	70.8	10.1	47.0	88.2	300.3	61.7	27.8	31.2	478.6	39.9	0.2	--	401.9	38.8	1,807.1
1991	73.8	143.0	3.4	64.1	8.9	44.4	89.1	299.0	61.1	28.2	30.4	467.0	39.0	0.2	--	322.6	34.7	1,708.9
1992	83.3	181.7	3.7	65.3	8.9	46.9	100.8	331.8	67.5	31.5	33.0	505.4	42.7	0.2	--	288.5	33.4	1,824.6
1993	80.4	240.1	3.8	65.1	8.9	49.8	107.1	373.4	75.3	36.1	35.8	547.3	46.9	0.2	--	249.3	32.5	1,952.0
1994	72.5	202.8	3.5	59.6	8.1	46.5	104.8	351.7	70.0	35.4	33.9	519.6	43.9	0.2	--	215.4	30.3	1,798.2
1995	67.6	207.6	3.6	61.8	8.2	47.5	108.8	364.6	71.3	38.2	34.4	527.2	44.6	0.2	--	217.6	30.9	1,834.1
1996	70.3	204.8	3.7	62.9	8.8	49.7	114.2	383.8	73.2	42.4	35.5	544.2	46.1	0.2	--	240.9	37.0	1,917.7
1997	78.5	199.5	3.7	63.7	8.6	50.8	123.3	405.9	75.1	47.9	36.6	560.8	47.3	0.2	--	212.2	35.2	1,949.3
1998	72.2	188.3	3.3	54.8	7.3	46.5	124.3	401.5	69.9	55.3	33.8	516.1	44.0	0.1	--	132.1	30.9	1,780.4
1999	90.3	221.7	4.0	65.8	9.0	55.8	138.9	487.7	82.1	77.4	39.4	600.0	51.8	0.2	--	171.1	37.5	2,132.7
2000	98.9	207.5	4.7	82.2	11.5	65.3	146.1	536.9	91.2	84.7	44.8	684.8	58.3	0.2	--	297.5	58.1	2,472.7

TABLE A14. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 2, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstck	(2) Ag Crops	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Electric Generation	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	36.9	66.8	0.9	12.1	1.5	10.8	36.6	89.2	18.6	8.0	8.6	130.6	11.4	--	--	8.0	--	440.0
1959	35.5	69.5	0.9	13.8	1.6	11.0	35.6	90.7	18.8	8.1	8.6	131.0	11.5	--	--	13.7	--	450.3
1960	31.3	72.1	0.9	15.2	1.7	11.6	36.4	94.3	19.7	8.4	9.1	138.2	12.0	--	--	18.4	--	469.3
1961	35.0	41.9	0.8	13.2	1.5	10.4	35.3	79.0	16.6	7.1	8.2	124.9	10.4	--	--	23.0	--	407.3
1962	40.3	109.9	1.4	20.7	2.6	19.6	45.3	157.8	33.3	13.7	15.9	244.4	20.4	--	--	23.8	--	749.1
1963	41.4	115.0	1.4	20.5	2.6	19.2	49.0	156.2	32.8	13.7	15.4	236.1	20.0	--	--	23.7	--	747.0
1964	45.3	101.7	1.7	26.3	3.0	24.2	50.8	188.1	40.1	16.5	20.1	310.4	24.9	--	--	26.4	--	879.5
1965	46.9	105.7	1.5	22.3	2.7	19.4	51.4	156.0	32.5	14.1	15.4	236.6	20.0	--	--	27.9	--	752.4
1966	51.4	126.5	1.7	24.7	3.1	23.2	57.3	189.0	39.2	17.3	18.7	287.8	24.1	--	--	25.9	--	889.9
1967	49.7	94.5	1.4	20.4	2.5	18.6	54.8	151.1	30.8	14.5	14.8	226.0	19.0	--	--	23.6	--	721.7
1968	47.6	102.0	1.5	23.0	2.8	21.2	56.8	173.3	35.2	17.0	17.1	262.8	21.8	--	--	23.6	--	805.7
1969	51.8	133.3	1.8	25.3	3.3	25.2	76.0	208.1	42.4	20.1	20.3	312.3	26.1	--	--	22.0	--	968.0
1970	55.8	131.9	2.0	28.7	3.6	28.2	74.7	229.9	47.0	22.2	23.1	355.1	29.1	--	--	23.6	--	1,054.9
1971	65.3	133.5	2.1	32.0	3.8	29.4	82.3	238.8	48.7	23.2	23.9	368.0	30.2	--	--	26.8	--	1,108.0
1972	73.0	181.3	2.4	33.9	4.2	32.2	93.0	266.7	54.5	25.3	25.8	395.8	33.5	--	--	28.3	--	1,249.9
1973	102.2	386.7	4.0	54.7	6.8	51.7	146.4	446.8	91.9	40.7	41.2	628.6	55.3	--	--	28.1	--	2,085.1
1974	100.6	380.4	4.2	58.2	7.4	55.5	159.4	467.4	96.7	42.3	44.2	676.1	58.5	--	--	52.6	--	2,203.5
1975	103.8	281.6	4.2	61.3	7.5	60.6	150.8	484.9	101.5	44.3	50.1	773.8	62.7	--	--	51.1	--	2,238.2
1976	105.0	238.6	3.4	47.3	6.5	48.5	181.9	391.3	80.3	37.4	38.8	596.1	49.7	--	--	60.3	--	1,885.1
1977	104.7	210.4	3.6	56.2	6.4	48.2	165.3	384.5	78.9	37.2	38.9	598.0	49.1	--	--	56.0	--	1,837.4
1978	118.6	299.3	4.4	70.1	7.6	57.4	188.2	470.6	96.1	45.1	46.0	706.2	59.2	--	--	54.1	--	2,222.9
1979	141.5	281.1	4.8	74.3	8.4	63.7	216.5	505.8	104.9	47.2	51.7	795.5	65.2	--	--	68.2	--	2,428.8
1980	157.5	336.8	5.6	85.6	10.3	76.9	239.4	601.9	25.9	55.0	62.2	957.9	78.2	--	--	109.9	--	2,803.1
1981	153.0	442.6	7.1	111.6	13.7	97.7	263.1	755.6	58.3	68.3	77.8	1,200.1	98.2	0.1	--	213.0	--	3,660.2
1982	142.7	420.1	6.3	97.1	12.4	85.6	234.6	668.6	38.8	61.4	67.1	1,031.9	85.8	0.1	--	207.3	--	3,259.8
1983	157.4	444.3	6.8	106.2	13.1	92.8	246.7	729.5	51.1	67.5	73.5	1,131.5	93.5	0.1	--	194.0	--	3,508.0
1984	158.1	378.2	6.8	110.4	12.8	92.1	247.7	707.7	47.8	64.8	73.6	1,136.0	92.1	0.1	--	194.1	--	3,422.3
1985	98.2	445.2	6.8	109.6	12.6	93.5	232.1	737.8	53.3	68.0	75.1	1,159.8	94.6	--	--	171.9	--	3,458.5
1986	156.8	432.2	6.7	101.8	11.7	92.9	256.9	744.7	155.1	68.7	76.4	1,178.4	95.9	--	--	81.6	--	3,459.8
1987	165.5	337.2	6.2	95.3	11.2	88.0	254.9	689.3	143.5	64.5	72.4	1,119.5	89.6	--	--	99.3	--	3,236.4
1988	182.2	411.9	6.9	105.2	12.3	96.6	280.9	765.7	159.2	71.4	79.2	1,222.7	99.0	--	--	99.9	--	3,593.1
1989	154.0	334.0	6.7	104.7	12.4	97.2	267.6	750.8	156.4	70.7	80.1	1,241.1	98.0	--	--	132.4	--	3,506.1
1990	192.8	425.4	8.0	124.9	14.8	113.3	298.6	878.6	182.9	82.2	92.5	1,431.1	114.3	--	--	172.5	--	4,131.9
1991	176.1	411.4	7.8	122.2	14.0	110.9	296.8	868.6	180.0	82.4	91.3	1,413.9	112.4	--	--	130.3	--	4,018.1
1992	190.0	492.2	8.6	134.3	15.1	121.8	326.0	969.3	200.4	92.3	100.7	1,556.9	124.6	--	--	109.9	--	4,442.1
1993	191.4	638.9	9.4	142.4	16.4	134.2	347.2	1,099.3	225.1	106.0	110.6	1,707.5	138.9	--	--	87.3	--	4,954.6
1994	186.7	591.9	9.5	143.2	16.5	137.5	364.4	1,122.8	228.5	111.0	113.9	1,761.9	141.6	--	--	76.7	--	5,006.1
1995	189.8	596.3	9.8	150.5	17.1	140.3	390.3	1,156.7	231.5	118.7	115.3	1,781.4	143.6	--	--	87.0	--	5,128.3
1996	191.1	609.2	9.8	148.0	17.9	145.1	412.2	1,212.3	237.4	130.7	118.0	1,823.0	147.5	--	--	104.5	--	5,306.7
1997	209.9	584.9	10.6	164.3	19.2	156.7	444.0	1,320.0	252.9	149.6	127.4	1,968.5	158.0	--	--	99.6	--	5,665.6
1998	211.3	568.1	10.5	161.2	19.3	157.7	465.4	1,356.4	248.8	221.3	124.2	1,912.1	156.2	--	--	62.5	--	5,675.0
1999	230.9	467.2	10.6	167.7	20.3	162.7	473.7	1,423.5	246.8	274.4	124.8	1,919.2	156.7	--	--	79.3	--	5,757.8
2000	248.0	574.5	12.0	188.6	23.1	181.5	514.0	1,589.6	277.1	290.3	139.0	2,136.3	175.3	--	--	125.4	--	6,474.7

TABLE A15. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 3, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstk	(2) Ag Crops	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Electric Generation	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	26.2	72.9	0.7	9.1	1.1	8.1	25.3	72.6	15.0	6.4	6.4	96.2	8.9	--	--	--	--	348.9
1959	25.5	72.1	0.7	10.1	1.1	8.3	24.1	73.6	15.2	6.5	6.5	98.3	9.1	--	--	--	--	351.1
1960	20.9	53.9	0.6	9.4	0.9	6.9	20.3	60.1	12.5	5.3	5.5	83.4	7.5	--	--	--	--	287.2
1961	24.8	60.0	0.6	9.0	1.0	7.5	22.5	65.8	13.6	5.8	6.0	90.6	8.2	--	--	--	--	315.4
1962	25.8	90.3	0.8	10.5	1.3	9.8	25.9	88.4	18.3	7.8	7.8	117.4	10.8	--	--	--	--	414.9
1963	26.2	90.4	0.8	10.7	1.3	10.0	26.4	90.1	18.6	7.9	7.9	120.2	11.0	--	--	--	--	421.5
1964	25.2	80.2	0.8	11.5	1.3	9.6	25.1	85.1	17.5	7.7	7.6	115.4	10.4	--	--	--	--	397.4
1965	28.1	82.2	0.8	12.0	1.3	10.0	26.7	88.8	18.2	8.0	8.0	120.3	10.9	--	--	--	--	415.3
1966	29.5	92.4	0.9	12.1	1.4	11.0	28.8	99.1	20.1	9.2	8.7	132.6	12.0	--	--	--	--	457.8
1967	30.4	95.2	0.9	12.6	1.5	11.5	30.0	103.3	20.9	9.8	9.1	137.6	12.5	--	--	--	--	475.3
1968	28.9	95.7	0.9	13.1	1.5	11.8	30.0	106.5	21.3	10.3	9.3	141.1	12.7	--	--	--	--	483.1
1969	29.6	99.8	1.0	12.3	1.6	12.9	34.4	115.6	23.2	11.3	10.3	156.7	13.9	--	--	--	--	522.6
1970	30.5	97.5	1.0	13.3	1.8	14.2	33.9	124.7	25.1	12.2	11.5	175.4	15.2	--	--	--	--	556.3
1971	33.2	105.4	1.2	17.7	1.9	15.3	36.8	134.4	27.0	13.1	12.3	187.7	16.3	--	--	--	--	602.3
1972	40.6	139.5	1.5	22.4	2.4	19.5	44.6	170.4	34.7	16.0	15.8	240.9	20.9	--	--	--	--	769.2
1973	55.1	259.6	2.3	32.2	3.7	28.9	69.2	261.5	53.4	23.8	22.9	347.4	31.6	--	--	--	--	1,191.6
1974	55.6	269.6	2.5	32.8	4.0	31.9	74.4	284.3	58.5	25.7	25.6	389.8	34.8	--	--	--	--	1,289.5
1975	56.6	256.8	2.5	34.3	4.0	32.7	73.5	289.0	59.3	26.4	26.5	404.1	35.5	--	--	--	--	1,301.2
1976	55.0	190.2	2.2	29.6	3.6	29.5	74.6	254.0	52.0	23.9	24.2	371.8	31.6	--	--	--	--	1,142.2
1977	52.6	174.8	2.0	27.2	3.4	28.3	68.3	243.2	49.6	23.2	23.3	358.2	30.2	--	--	--	--	1,084.3
1978	59.5	223.6	2.4	33.9	4.0	33.2	78.7	288.5	58.7	27.4	27.1	414.9	35.5	--	--	--	--	1,287.4
1979	72.9	279.2	2.8	36.9	4.7	37.8	96.2	331.0	67.8	30.6	30.7	468.5	40.8	--	--	--	--	1,499.9
1980	80.3	297.3	3.5	56.1	5.2	41.9	104.0	362.7	74.7	33.1	34.0	519.1	45.0	--	--	--	--	1,656.9
1981	74.8	356.4	3.5	47.5	5.7	45.8	111.7	403.7	82.9	37.0	37.1	566.2	49.6	--	--	--	--	1,821.9
1982	74.6	363.1	3.4	45.4	5.7	45.4	107.0	403.5	82.6	37.1	36.7	560.2	49.4	--	--	--	--	1,814.1
1983	81.4	358.7	3.7	51.8	6.2	50.8	110.6	441.6	90.7	40.8	41.6	636.8	54.7	--	--	--	--	1,969.4
1984	81.6	334.8	3.8	54.5	6.1	50.9	110.2	436.4	90.2	40.0	42.0	645.3	54.6	--	--	--	--	1,950.4
1985	87.0	397.3	4.2	59.5	6.9	57.2	120.6	494.4	102.2	45.0	47.1	722.3	61.6	--	--	--	--	2,205.3
1986	79.7	304.5	3.7	52.9	6.0	50.9	106.8	431.4	89.2	39.9	42.4	652.5	54.3	--	--	--	--	1,914.2
1987	88.8	329.6	3.9	54.1	6.3	53.7	115.2	456.9	94.4	42.2	44.6	686.0	57.4	--	--	--	--	2,033.1
1988	96.0	373.8	4.2	59.4	6.9	58.2	126.0	498.1	102.8	45.9	48.1	739.0	62.3	--	--	--	--	2,220.7
1989	82.0	301.0	3.8	54.8	6.4	55.2	113.6	462.8	95.6	43.3	46.2	713.0	58.5	--	--	--	--	2,036.2
1990	95.6	339.4	4.3	61.9	7.1	61.1	125.0	514.1	106.1	48.2	51.1	787.8	64.8	--	--	--	--	2,266.5
1991	92.0	365.4	4.5	65.5	7.4	63.8	128.3	540.5	111.1	50.9	53.3	820.6	67.8	--	--	--	--	2,371.1
1992	102.0	407.4	5.0	73.3	8.2	70.5	141.3	598.3	122.8	56.5	58.8	905.0	74.9	--	--	--	--	2,624.0
1993	94.3	313.2	4.5	66.7	7.4	64.9	127.9	544.2	110.6	53.4	54.5	842.0	68.1	--	--	--	--	2,351.7
1994	95.3	374.3	5.1	74.0	8.4	73.5	142.1	622.4	125.9	61.7	61.5	949.8	77.3	--	--	--	--	2,671.3
1995	93.7	372.0	5.1	76.6	8.5	73.9	147.3	633.2	125.8	65.4	61.4	947.9	77.3	--	--	--	--	2,688.1
1996	93.4	403.5	5.3	75.7	9.0	77.4	155.8	677.0	131.6	73.1	63.7	981.9	80.8	--	--	--	--	2,828.2
1997	100.4	373.0	5.6	83.5	9.5	82.7	162.6	725.6	137.9	82.8	68.1	1,050.8	85.3	--	--	--	--	2,967.8
1998	98.3	352.0	5.4	82.1	9.6	81.3	164.9	733.2	132.7	100.9	65.2	1,004.6	82.4	--	--	--	--	2,912.6
1999	104.6	332.3	5.6	85.9	10.1	84.5	168.4	785.6	134.4	121.9	66.3	1,018.8	84.0	--	--	--	--	3,002.4
2000	109.0	343.2	5.9	90.3	10.6	89.0	177.0	829.4	141.0	130.5	69.7	1,071.2	88.2	--	--	--	--	3,155.0

TABLE A16. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 4, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstck	(2) Ag Crops	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Electric Generation	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	23.5	86.5	0.9	13.5	1.5	11.7	30.2	101.1	21.0	9.0	9.5	145.2	12.6	--	--	--	--	466.2
1959	23.8	94.3	1.0	15.5	1.5	12.3	32.0	106.8	22.1	9.4	9.9	151.0	13.3	--	--	--	--	492.9
1960	21.9	89.3	1.0	16.5	1.5	12.3	34.1	105.8	22.1	9.3	10.0	153.2	13.3	--	--	--	--	490.3
1961	24.7	95.7	1.1	16.0	1.7	13.5	37.6	115.7	24.2	10.2	11.1	169.1	14.6	--	--	--	--	535.2
1962	25.4	78.8	1.1	17.0	1.8	16.3	36.9	131.7	28.0	11.5	13.9	214.4	17.2	--	--	--	--	594.0
1963	27.0	100.5	1.2	18.0	2.0	17.2	45.7	142.8	30.1	12.5	14.4	221.8	18.4	--	--	--	--	651.6
1964	29.9	92.3	1.6	24.6	2.5	22.5	48.2	178.3	38.1	15.6	19.3	300.4	23.6	--	--	--	--	796.9
1965	31.5	141.5	1.6	23.8	2.5	21.0	54.1	178.8	37.3	15.9	17.3	265.2	22.5	--	--	--	--	813.0
1966	32.3	123.6	1.6	23.2	2.6	22.0	54.3	183.3	38.2	16.7	18.4	283.2	23.3	--	--	--	--	822.7
1967	31.3	132.9	1.5	22.1	2.5	20.5	57.5	175.9	36.1	16.4	16.8	258.1	21.9	--	--	--	--	793.5
1968	31.1	126.2	1.6	24.0	2.6	22.4	59.2	189.5	38.7	18.0	18.5	285.6	23.6	--	--	--	--	841.0
1969	34.2	143.7	1.9	32.0	2.9	23.8	80.2	202.5	41.3	19.4	19.4	297.8	25.1	--	--	--	--	924.2
1970	39.7	172.2	6.4	181.6	4.7	35.6	82.6	290.0	59.1	26.3	27.8	425.7	36.0	--	--	--	--	1,387.7
1971	37.2	155.6	2.6	53.0	3.4	28.1	83.2	237.1	48.2	22.7	22.9	352.6	29.4	--	--	--	--	1,076.0
1972	45.9	216.9	3.5	72.1	4.3	35.2	96.7	298.5	61.4	27.6	28.6	438.8	37.2	--	--	--	--	1,366.7
1973	63.8	374.8	4.2	69.6	6.2	49.9	144.5	434.2	89.6	39.2	40.3	616.4	53.7	--	--	--	--	1,986.4
1974	73.6	464.2	5.3	93.6	7.4	58.3	177.5	510.6	105.5	45.6	46.7	711.9	62.9	--	--	--	--	2,363.1
1975	66.2	349.8	4.3	70.8	6.4	52.4	161.6	447.7	92.6	41.0	42.8	656.0	55.9	--	--	--	--	2,047.5
1976	75.9	306.8	4.2	64.4	6.8	57.7	208.7	477.0	99.3	44.1	48.0	740.6	60.8	--	--	--	--	2,194.3
1977	67.5	303.9	3.5	49.9	5.9	48.3	186.6	412.1	84.4	39.1	39.4	604.9	51.2	--	--	--	--	1,896.7
1978	75.8	362.9	3.9	52.0	6.7	54.7	205.3	471.3	96.3	44.8	44.5	683.0	58.3	--	--	--	--	2,159.5
1979	88.3	406.8	4.3	57.9	7.4	60.2	242.0	515.9	106.3	47.9	49.0	750.2	64.3	--	--	--	--	2,400.5
1980	112.5	466.6	5.3	74.6	8.7	71.2	271.2	604.2	125.4	55.1	58.2	891.8	76.0	--	--	--	--	2,820.8
1981	98.5	514.5	5.5	76.6	9.1	74.3	286.7	637.1	131.8	58.5	60.4	925.7	79.5	--	--	--	--	2,958.2
1982	93.5	490.4	5.1	70.1	8.6	70.5	255.1	607.4	125.2	56.2	57.4	879.2	75.5	--	--	--	--	2,794.2
1983	113.8	644.5	6.8	93.5	11.2	92.9	285.9	799.4	165.4	73.1	76.1	1,167.6	99.7	--	--	--	--	3,629.9
1984	110.2	561.2	6.6	95.2	10.7	90.4	285.4	761.8	158.7	69.2	74.8	1,150.6	96.3	--	--	--	--	3,471.1
1985	115.2	584.2	6.8	98.2	11.2	95.2	294.0	801.5	166.9	72.9	78.9	1,214.2	101.4	--	--	--	--	3,640.6
1986	117.7	601.1	7.0	100.1	11.6	98.2	298.1	826.5	172.2	75.1	81.5	1,254.3	104.6	--	--	--	--	3,748.0
1987	124.8	612.3	7.1	99.7	11.8	100.3	309.6	845.0	175.9	77.1	83.2	1,280.8	106.8	--	--	--	--	3,834.4
1988	139.1	808.7	8.5	117.0	14.0	116.7	351.3	1,001.9	208.1	90.6	95.9	1,472.1	125.4	--	--	--	--	4,549.3
1989	137.7	461.6	6.6	94.8	11.1	96.9	320.2	791.9	165.2	73.4	81.5	1,259.7	101.8	--	--	--	--	3,602.4
1990	127.4	577.1	7.6	109.4	12.6	109.3	333.2	905.7	188.4	83.9	91.6	1,414.3	115.4	--	--	--	--	4,075.9
1991	127.9	620.3	8.0	115.9	13.2	114.4	347.9	953.3	197.7	88.8	95.6	1,476.2	120.9	--	--	--	--	4,280.1
1992	141.8	695.8	8.9	129.8	14.7	126.6	380.4	1,057.7	219.1	98.6	105.7	1,631.0	133.8	--	--	--	--	4,743.9
1993	141.7	611.6	8.5	124.7	14.2	123.6	375.0	1,026.5	211.1	98.5	103.5	1,599.9	129.7	--	--	--	--	4,568.5
1994	144.6	632.3	9.1	132.1	15.2	133.2	410.7	1,105.6	226.2	107.7	111.7	1,727.0	139.3	--	--	--	--	4,894.7
1995	152.1	699.6	9.6	141.6	16.2	139.6	452.7	1,177.5	237.5	118.1	115.9	1,789.1	145.9	--	--	--	--	5,195.4
1996	159.6	731.0	9.8	139.1	16.9	144.5	485.0	1,237.2	244.8	129.6	118.9	1,833.7	150.4	--	--	--	--	5,400.5
1997	170.7	724.0	10.6	156.3	18.4	157.7	523.0	1,355.7	263.5	148.4	129.6	2,001.7	162.8	--	--	--	--	5,822.4
1998	177.3	799.9	11.1	160.9	19.5	162.4	563.9	1,440.3	270.1	177.1	130.4	2,006.1	166.5	--	--	--	--	6,085.5
1999	196.9	877.8	12.0	174.8	21.4	175.2	596.1	1,603.1	289.0	209.7	138.2	2,121.8	178.2	--	--	--	--	6,594.2
2000	210.2	869.0	12.3	180.8	22.2	181.4	626.5	1,660.5	297.3	220.8	143.0	2,196.1	183.8	--	--	--	--	6,803.9

TABLE A17. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 5, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstck	(2) Ag Crops	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Electric Generation	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	50.0	107.6	1.3	18.4	2.2	16.9	66.6	141.6	29.7	12.4	13.8	210.3	18.1	--	--	--	--	688.9
1959	50.6	106.8	1.3	19.8	2.1	16.5	63.3	138.3	28.9	12.2	13.3	202.7	17.6	--	--	--	--	673.4
1960	43.7	100.5	1.2	18.7	1.9	14.0	63.4	119.5	24.9	10.5	11.1	169.0	15.1	--	--	--	--	593.5
1961	53.2	126.0	1.5	22.0	2.5	19.8	71.2	165.3	34.8	14.5	16.1	246.7	21.2	--	--	--	--	794.8
1962	49.1	77.4	1.3	18.2	2.1	17.4	60.8	138.6	29.4	12.2	14.6	224.2	18.3	--	--	--	--	663.6
1963	52.6	123.4	1.6	21.9	2.6	21.2	71.5	175.6	37.0	15.4	17.5	269.0	22.6	--	--	--	--	831.9
1964	51.3	98.5	1.6	24.5	2.5	21.4	70.6	172.3	36.4	15.3	18.0	276.8	22.5	--	--	--	--	811.7
1965	57.8	129.0	1.8	26.2	2.8	23.1	76.9	191.1	39.9	17.2	19.0	291.8	24.5	--	--	--	--	901.1
1966	63.3	143.8	1.9	27.0	3.1	25.7	83.9	214.4	44.5	19.8	21.2	325.4	27.3	--	--	--	--	1,001.3
1967	64.4	142.9	1.9	27.1	3.2	25.7	88.5	215.5	44.3	20.2	21.1	323.7	27.2	--	--	--	--	1,005.7
1968	61.0	137.6	1.9	28.1	3.2	26.5	90.1	221.7	45.2	21.5	21.8	334.4	27.8	--	--	--	--	1,020.8
1969	65.8	160.4	2.2	32.3	3.5	28.2	122.5	238.3	48.4	23.1	22.8	349.4	29.7	--	--	--	--	1,126.6
1970	65.8	167.3	2.3	36.0	3.6	28.5	116.9	243.2	49.0	24.0	22.9	350.3	30.0	--	--	--	--	1,139.8
1971	71.2	180.0	2.5	38.4	3.9	30.7	127.2	262.4	52.8	25.9	24.7	377.6	32.3	--	--	--	--	1,229.6
1972	86.3	245.2	2.9	43.1	4.7	37.0	145.1	319.0	64.9	30.4	30.0	454.1	39.4	--	--	--	--	1,502.1
1973	120.0	463.3	4.6	67.2	7.3	55.3	218.6	491.8	100.4	45.2	43.5	659.8	59.9	--	--	--	--	2,336.9
1974	132.0	514.6	4.9	65.7	8.0	60.1	258.0	535.1	109.7	48.8	47.3	716.3	65.3	--	--	--	--	2,565.8
1975	114.6	347.6	4.4	71.9	6.6	50.6	232.2	435.9	88.7	41.2	40.1	610.7	53.7	--	--	--	--	2,098.2
1976	126.5	365.4	4.0	49.2	7.0	53.5	312.7	460.5	93.5	44.4	42.3	644.2	56.8	--	--	--	--	2,260.0
1977	122.9	427.9	4.5	58.3	7.6	58.9	291.6	514.2	104.3	49.3	46.7	711.4	62.9	--	--	--	--	2,460.5
1978	138.4	501.6	5.2	70.4	8.9	68.8	320.0	601.2	121.9	57.5	54.7	832.7	73.5	--	--	--	--	2,854.8
1979	155.2	543.5	5.6	73.9	9.5	72.9	372.3	634.2	129.6	59.4	57.7	878.1	78.1	--	--	--	--	3,070.0
1980	171.1	599.5	6.4	87.7	10.6	81.6	403.7	705.6	145.0	65.2	64.9	988.3	87.4	--	--	--	--	3,417.0
1981	157.7	658.8	6.4	84.2	11.0	84.2	429.3	738.3	151.0	68.7	66.6	1,012.9	90.6	--	--	--	--	3,559.7
1982	149.6	605.2	5.9	75.9	10.2	78.3	378.4	687.9	140.1	64.8	62.0	942.8	84.1	--	--	--	--	3,285.2
1983	166.3	737.8	7.3	95.9	12.4	97.1	406.7	851.4	173.9	79.8	77.6	1,183.1	104.4	--	--	--	--	3,993.7
1984	169.1	682.3	7.2	98.8	12.1	96.2	417.8	830.2	170.7	77.0	77.4	1,182.5	103.0	--	--	--	--	3,924.3
1985	177.7	778.7	7.9	106.6	13.4	106.1	438.5	921.0	189.2	85.2	85.3	1,302.3	113.9	--	--	--	--	4,325.8
1986	172.5	673.3	7.4	99.5	12.4	99.5	425.7	853.2	175.3	79.6	80.4	1,230.1	106.1	--	--	--	--	4,015.0
1987	190.4	721.7	7.7	102.1	13.2	104.8	449.6	901.7	185.1	84.3	84.5	1,291.8	111.9	--	--	--	--	4,248.6
1988	197.3	871.0	8.7	115.3	14.8	117.0	489.6	1,020.0	209.1	94.8	93.9	1,432.9	125.7	--	--	--	--	4,790.1
1989	170.3	699.9	7.8	104.0	13.3	107.7	473.2	921.4	188.7	87.3	87.3	1,338.0	114.5	--	--	--	--	4,313.4
1990	194.9	772.4	8.6	116.1	14.6	118.3	498.5	1,013.6	207.4	96.0	95.9	1,468.4	125.8	--	--	--	--	4,730.5
1991	188.1	792.3	8.8	120.3	15.0	121.2	512.2	1,041.9	212.4	99.7	98.1	1,503.1	128.8	--	--	--	--	4,841.9
1992	203.7	824.9	9.4	130.1	16.0	129.6	549.9	1,111.2	226.1	107.0	105.0	1,608.8	137.3	--	--	--	--	5,159.0
1993	191.9	724.4	8.9	123.4	15.3	124.6	539.9	1,065.7	214.3	106.5	101.1	1,552.3	130.9	--	--	--	--	4,899.2
1994	205.2	833.8	10.0	136.7	17.2	140.4	607.9	1,208.8	241.9	122.1	113.6	1,743.6	147.5	--	--	--	--	5,528.7
1995	209.7	875.6	10.4	144.4	18.1	145.6	662.4	1,271.2	250.1	133.3	116.8	1,789.5	152.5	--	--	--	--	5,779.6
1996	230.6	1,058.9	11.6	154.1	20.6	163.1	732.6	1,457.7	281.8	157.6	129.3	1,976.0	171.1	--	--	--	--	6,545.0
1997	249.3	1,076.0	12.6	171.7	22.4	177.9	794.9	1,600.4	302.9	181.4	140.5	2,149.2	184.8	--	--	--	--	7,064.0
1998	258.8	1,028.3	12.9	176.4	24.2	190.4	868.4	1,685.4	308.4	341.1	142.5	2,169.6	190.4	--	--	--	--	7,396.8
1999	287.7	1,230.4	14.7	200.6	27.9	215.9	898.6	1,979.1	349.6	403.5	159.2	2,416.6	215.2	--	--	--	--	8,399.0
2000	302.6	1,200.3	15.0	205.8	28.7	222.6	941.3	2,035.0	356.3	434.9	163.4	2,480.3	220.2	--	--	--	--	8,606.4

TABLE A18. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 6, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	Total
	Ag Lvstck	Ag Crops	Nonmetallic Mining	Const	Trans	Comm & Pub Util	Ag Proc & Misc Mfg	Retail Trade	FIRE	Bus & Pers Service	Prof & Soc Service	Households	Govt	Coal Mining	Thermal-Electric Generation	Pet Exp/Ext	Pet Refining	
1958	64.7	114.8	1.2	14.4	1.9	13.7	55.2	120.6	25.0	10.6	10.7	160.8	15.0	--	--	--	--	608.6
1959	62.7	93.8	1.1	14.2	1.7	12.4	49.9	107.1	22.2	9.5	9.7	146.2	13.5	--	--	--	--	544.0
1960	52.9	94.6	1.1	14.8	1.7	12.2	46.7	105.7	21.9	9.2	9.6	144.8	13.3	--	--	--	--	528.5
1961	61.5	90.5	1.1	13.8	1.7	12.3	49.1	105.8	22.0	9.3	9.7	146.2	13.4	--	--	--	--	536.4
1962	60.8	112.5	1.2	14.3	1.9	14.0	49.7	122.1	25.3	10.7	11.0	165.5	15.2	--	--	--	--	604.2
1963	63.1	108.8	1.2	14.5	1.9	14.1	50.8	122.2	25.3	10.8	11.1	167.1	15.3	--	--	--	--	606.2
1964	64.8	101.8	1.2	16.1	1.9	14.1	51.4	121.7	25.1	11.0	11.2	168.4	15.3	--	--	--	--	604.0
1965	74.0	115.7	1.3	17.6	2.2	15.8	57.0	136.7	28.0	12.5	12.4	187.1	17.0	--	--	--	--	677.3
1966	80.8	130.5	1.4	18.2	2.4	17.5	62.7	153.4	31.2	14.3	13.8	207.6	19.0	--	--	--	--	752.8
1967	83.0	127.2	1.5	18.4	2.4	17.7	64.5	154.7	31.2	14.7	13.9	208.9	19.0	--	--	--	--	757.1
1968	80.0	142.8	1.6	20.1	2.6	19.2	66.2	170.1	34.0	16.5	15.0	226.2	20.6	--	--	--	--	814.9
1969	81.7	152.8	1.7	21.0	2.9	21.2	76.8	186.8	37.5	18.1	16.7	252.7	22.8	--	--	--	--	892.7
1970	83.8	150.5	1.9	27.8	3.0	22.2	75.6	194.7	38.9	19.1	17.6	265.9	23.7	--	--	--	--	924.7
1971	90.5	164.3	1.8	22.6	3.2	24.0	82.1	210.9	42.2	20.8	19.0	288.6	25.7	--	--	--	--	995.7
1972	111.9	214.8	2.3	27.8	3.9	28.9	98.4	254.1	51.4	24.1	22.8	344.8	31.1	--	--	--	--	1,216.3
1973	142.1	295.5	2.9	34.8	5.0	37.2	131.3	329.4	67.0	30.7	29.3	441.7	40.4	--	--	--	--	1,587.3
1974	141.0	406.4	3.6	42.0	6.1	45.5	152.5	410.4	83.8	37.4	35.7	538.3	49.9	--	--	--	--	1,952.6
1975	144.6	360.0	3.4	42.1	5.9	43.6	149.0	389.8	79.1	36.3	34.3	518.6	47.5	--	--	--	--	1,854.2
1976	153.3	272.1	3.1	40.3	5.3	39.1	165.2	341.3	68.7	33.0	30.8	466.1	41.9	--	--	--	--	1,660.2
1977	150.9	289.4	3.2	39.7	5.5	41.1	157.9	360.2	72.5	34.8	32.5	492.5	44.1	--	--	--	--	1,724.3
1978	172.6	385.5	4.0	49.7	6.8	50.8	182.6	450.1	90.6	43.1	40.1	606.3	54.8	--	--	--	--	2,137.0
1979	219.0	440.7	4.6	57.6	7.8	57.4	221.6	504.9	102.7	47.0	45.2	682.8	62.1	--	--	--	--	2,453.4
1980	208.9	395.5	4.4	55.2	7.5	55.9	217.5	484.3	98.9	45.0	44.4	672.6	60.1	--	--	--	--	2,350.2
1981	209.4	579.1	5.5	68.0	9.2	68.6	246.7	613.1	124.8	56.5	53.9	814.3	74.7	--	--	--	--	2,923.8
1982	210.6	570.8	5.3	64.7	9.1	67.3	233.5	603.3	122.5	56.0	52.8	797.6	73.3	--	--	--	--	2,866.8
1983	226.1	575.0	5.7	71.9	9.7	73.1	242.8	648.4	131.6	60.7	57.9	877.7	79.2	--	--	--	--	3,059.8
1984	232.2	582.2	5.9	77.0	9.9	75.6	251.3	664.5	135.8	61.3	60.1	911.7	81.8	--	--	--	--	3,149.3
1985	236.8	580.2	6.0	77.3	10.1	77.0	255.0	675.8	137.9	62.7	61.4	931.9	83.2	--	--	--	--	3,195.3
1986	226.6	506.4	5.5	71.8	9.3	71.9	242.5	624.6	127.4	58.5	57.5	874.6	77.3	--	--	--	--	2,953.9
1987	257.9	520.2	5.8	73.0	9.8	75.2	261.0	624.6	132.9	61.2	60.2	913.7	80.8	--	--	--	--	3,103.5
1988	266.8	519.0	5.9	75.4	10.0	76.7	270.8	663.0	135.0	62.6	61.4	932.4	82.2	--	--	--	--	3,161.2
1989	223.6	444.8	5.4	69.6	9.2	72.1	248.1	617.6	125.3	59.4	58.2	888.1	76.7	--	--	--	--	2,898.1
1990	273.0	611.0	6.8	87.4	11.5	89.6	291.1	777.1	158.0	73.6	72.0	1,095.7	96.0	--	--	--	--	3,642.8
1991	249.4	593.2	6.7	87.3	11.3	88.1	283.2	766.5	155.0	73.7	70.9	1,079.5	94.2	--	--	--	--	3,559.0
1992	266.6	666.6	7.4	97.6	12.5	97.3	307.8	849.9	171.6	82.0	78.2	1,190.7	104.1	--	--	--	--	3,932.3
1993	258.4	627.4	7.2	94.8	12.2	95.9	301.8	839.9	167.6	83.7	77.0	1,173.7	102.0	--	--	--	--	3,841.6
1994	243.9	640.3	7.4	97.9	12.6	100.2	312.3	881.1	174.2	90.0	80.4	1,227.7	106.1	--	--	--	--	3,974.1
1995	226.7	645.0	7.4	101.0	12.8	101.0	320.1	902.6	174.8	96.5	80.5	1,228.3	106.5	--	--	--	--	4,003.2
1996	227.9	767.7	8.1	106.8	14.4	112.2	347.1	1,027.2	195.2	113.7	88.4	1,346.1	118.3	--	--	--	--	4,473.1
1997	243.1	699.4	8.3	113.2	14.8	116.1	362.1	1,069.4	197.1	126.5	91.2	1,390.9	120.6	--	--	--	--	4,552.7
1998	235.9	724.2	8.6	116.7	15.6	120.7	376.2	1,143.4	201.6	161.5	92.3	1,403.8	123.5	--	--	--	--	4,724.0
1999	253.6	675.3	8.7	120.4	16.4	124.5	385.1	1,219.0	201.9	188.6	93.2	1,414.7	124.8	--	--	--	--	4,826.2
2000	260.3	780.2	9.5	131.9	18.0	136.9	412.6	1,343.2	223.4	210.7	102.2	1,550.6	137.6	--	--	--	--	5,317.1

TABLE A19. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 7, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	Total
	Ag Lvstk	Ag Crops	Nonmetallic Mining	Const	Trans	Comm & Pub Util	Ag Proc & Misc Mfg	Retail Trade	FIRE	Bus & Pers Service	Prof & Soc Service	Households	Govt	Coal Mining	Thermal-Electric Generation	Pet Exp/Ext	Pet Refining		
1958	73.9	84.7	1.1	15.2	2.1	13.6	60.9	111.8	23.3	9.8	10.6	159.6	14.5	0.6	--	3.7	38.8	624.2	
1959	71.2	62.5	1.1	15.6	1.8	12.2	55.0	97.6	20.4	8.7	9.5	144.2	12.8	0.5	--	3.6	38.2	554.9	
1960	58.3	69.4	1.1	16.8	1.8	12.4	52.2	100.4	21.0	8.8	9.8	148.2	13.1	0.6	--	3.5	37.1	554.5	
1961	69.5	44.7	1.0	14.1	1.7	11.3	54.3	87.6	18.4	7.8	9.0	135.7	11.7	0.8	--	3.6	37.4	508.6	
1962	67.5	96.4	1.3	16.8	2.2	15.7	57.8	129.6	27.1	11.5	12.5	189.4	16.7	0.9	--	3.6	37.2	686.2	
1963	71.1	88.9	1.2	16.7	2.2	15.5	60.4	127.0	26.5	11.3	12.3	187.2	16.4	0.8	--	3.5	37.1	678.1	
1964	75.2	88.2	1.4	20.5	2.4	17.2	63.7	139.3	29.1	12.5	13.9	210.9	18.2	1.1	--	3.6	37.9	735.1	
1965	86.3	100.6	1.5	21.3	2.6	18.0	69.9	148.1	30.6	13.4	14.3	216.7	19.1	1.3	--	3.8	40.0	787.5	
1966	99.0	111.6	1.6	21.9	2.9	20.4	78.5	168.5	34.8	15.6	16.2	245.5	21.6	1.9	4.4	4.0	42.1	890.5	
1967	100.8	100.4	1.6	21.5	2.9	19.8	80.6	162.9	33.5	15.6	15.7	236.8	20.9	3.1	8.4	4.2	44.0	872.7	
1968	100.6	108.1	1.7	23.4	3.1	21.5	83.8	177.9	36.4	17.5	17.0	257.3	22.6	4.1	12.3	4.2	44.4	935.9	
1969	104.9	121.6	2.0	27.8	3.5	25.0	102.6	205.6	42.2	20.1	19.9	302.7	26.2	4.1	11.7	4.3	45.0	1,069.2	
1970	109.3	118.0	2.0	26.6	3.5	25.8	100.9	211.2	43.3	20.9	20.6	312.8	26.9	5.1	13.8	4.4	45.9	1,091.0	
1971	119.3	123.7	2.1	28.2	3.8	28.3	109.7	231.0	47.5	22.9	22.8	346.0	29.6	6.0	17.5	4.5	47.5	1,190.4	
1972	147.6	168.4	2.6	34.5	4.7	34.8	129.7	283.6	59.2	26.9	28.0	425.2	36.6	6.3	21.4	4.8	50.5	1,464.8	
1973	189.3	244.1	3.3	40.3	6.0	44.4	175.3	366.8	76.5	34.1	35.6	540.3	47.1	6.8	19.3	5.4	57.1	1,891.7	
1974	178.2	255.4	3.5	44.4	6.3	46.3	187.6	381.2	79.8	35.2	37.2	564.3	49.1	7.9	22.4	6.4	67.6	1,972.8	
1975	183.6	262.2	4.0	57.4	6.8	50.7	191.5	415.9	86.6	39.8	40.9	622.2	53.4	8.4	20.6	7.1	74.5	2,124.6	
1976	206.8	226.4	3.9	54.4	7.0	51.3	239.4	412.3	86.4	39.4	41.2	625.1	53.6	14.3	38.6	7.7	80.9	2,188.7	
1977	199.2	184.0	4.0	58.7	7.0	53.0	217.1	416.2	87.8	40.0	43.2	658.7	54.8	17.1	46.3	8.4	87.6	2,183.1	
1978	221.7	264.9	4.6	65.6	8.1	60.9	244.8	489.8	103.3	47.0	49.1	745.6	63.6	23.4	65.4	9.0	94.4	2,561.2	
1979	289.2	290.7	6.0	95.7	10.2	75.5	302.2	589.4	127.1	54.3	61.2	928.1	78.6	34.0	91.6	13.8	145.1	3,192.7	
1980	349.8	271.3	6.7	106.3	11.7	85.4	338.8	647.9	141.9	58.8	69.2	1,052.4	88.3	49.5	120.1	22.0	230.5	3,650.6	
1981	280.4	381.1	7.2	109.5	13.7	98.9	337.1	762.5	166.6	69.2	80.4	1,222.5	102.8	59.0	140.8	39.0	408.7	4,279.4	
1982	285.2	379.8	6.6	96.5	12.9	91.6	317.3	712.3	155.9	65.3	73.7	1,114.0	95.5	66.8	162.0	35.9	376.3	4,047.6	
1983	312.7	398.4	7.5	112.1	14.1	102.5	337.5	793.1	174.1	73.3	82.8	1,250.5	106.5	91.4	196.4	33.5	350.9	4,437.3	
1984	330.0	393.8	8.2	127.9	14.9	110.8	356.7	844.0	187.6	76.4	90.0	1,360.5	114.7	111.3	226.3	32.5	341.0	4,726.6	
1985	338.5	449.9	8.6	131.4	15.8	118.1	373.5	904.1	201.1	81.9	95.4	1,436.2	122.1	154.3	261.5	30.4	318.5	5,041.3	
1986	324.8	396.4	8.1	125.3	14.9	113.7	362.2	865.1	193.0	78.9	92.4	1,392.2	117.3	150.8	261.3	24.4	255.6	4,776.4	
1987	373.1	393.2	8.7	129.7	16.3	124.5	403.6	930.1	218.4	85.1	101.0	1,507.8	129.7	182.5	498.6	26.5	277.9	5,406.7	
1988	403.3	311.8	8.6	132.6	16.4	124.5	422.9	910.2	217.9	83.9	101.1	1,505.9	129.1	198.3	569.8	27.1	284.2	5,447.6	
1989	304.9	300.4	8.3	128.5	16.1	124.4	385.9	909.3	215.5	84.6	101.6	1,519.3	128.1	211.9	535.6	31.6	330.8	5,336.8	
1990	396.5	347.3	9.5	146.8	18.2	138.2	435.4	1,016.0	238.2	94.3	112.6	1,687.1	142.6	209.4	543.6	37.9	396.6	5,970.2	
1991	356.5	369.1	9.6	152.1	18.1	140.0	429.7	1,037.3	242.8	97.4	114.2	1,711.2	144.6	208.6	565.6	34.1	357.4	5,988.3	
1992	388.4	458.0	10.9	172.6	20.1	156.4	473.3	1,171.6	273.0	110.0	127.5	1,909.6	162.1	226.3	623.3	33.1	347.3	6,663.5	
1993	383.1	526.6	11.4	177.2	21.2	165.5	485.4	1,257.2	290.0	120.3	134.5	2,014.2	171.8	240.5	655.7	32.3	337.9	7,024.8	
1994	359.3	483.3	11.3	178.1	21.2	168.5	498.0	1,279.9	293.1	125.5	137.5	2,063.4	174.0	243.4	660.5	30.6	320.5	7,048.1	
1995	341.3	508.6	11.7	189.0	21.8	171.8	519.1	1,324.4	297.2	134.6	139.2	2,089.1	176.7	248.0	649.5	31.4	328.5	7,181.9	
1996	339.4	553.8	12.0	184.6	23.2	181.4	549.0	1,420.8	313.5	150.8	145.9	2,186.6	186.1	261.9	698.5	36.8	385.8	7,630.1	
1997	382.7	561.4	13.3	211.2	25.2	197.8	597.9	1,571.3	337.0	174.2	158.8	2,386.5	201.6	261.4	694.4	35.6	372.8	8,183.1	
1998	376.9	578.6	13.6	216.8	26.3	204.9	625.6	1,653.4	343.6	256.1	159.5	2,386.9	205.4	266.8	739.9	31.7	331.9	8,417.9	
1999	416.0	603.4	14.6	235.5	28.6	218.5	658.3	1,821.9	360.4	293.6	167.6	2,505.4	216.8	271.7	735.5	37.6	393.8	8,979.2	
2000	420.4	634.1	15.6	254.9	31.5	236.8	694.9	1,963.3	392.1	319.3	181.3	2,708.6	235.2	292.2	868.6	56.2	588.6	9,893.6	

TABLE A20. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 8, MILLION DOLLARS (CURRENT DOLLARS), 1958-2000

Year	(1) Ag Lvstkc	(2) Ag Crops	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Electric Generation	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	37.3	57.2	0.6	7.2	1.0	7.0	27.2	61.1	12.6	5.3	5.4	81.4	7.6	0.3	--	0.9	--	312.1
1959	36.3	39.5	0.5	6.5	0.8	5.8	24.7	49.0	10.2	4.3	4.5	67.7	6.2	0.3	--	0.8	--	257.1
1960	29.1	39.2	0.5	6.6	0.8	5.5	22.4	46.9	9.7	4.2	4.3	65.0	5.9	0.3	--	1.3	--	241.7
1961	34.0	32.7	0.5	6.0	0.8	5.4	24.5	44.3	9.2	3.9	4.2	62.8	5.7	0.3	--	2.5	--	236.8
1962	32.3	48.6	0.5	6.8	1.0	6.6	25.7	55.7	11.5	5.0	5.1	76.1	7.0	0.4	--	4.0	--	286.3
1963	34.9	60.2	0.6	7.9	1.1	7.7	29.7	66.0	13.6	5.8	5.9	88.9	8.2	0.3	--	4.5	--	335.3
1964	36.0	46.6	0.6	7.8	1.0	6.9	29.1	58.1	12.0	5.2	5.3	80.4	7.3	0.3	--	4.4	--	301.0
1965	42.1	54.5	0.7	8.9	1.2	8.0	32.6	67.2	13.8	6.1	6.1	92.1	8.4	0.2	--	5.9	--	347.8
1966	48.4	68.7	0.8	10.2	1.5	9.6	37.7	81.8	16.7	7.5	7.3	110.4	10.2	0.2	--	9.0	--	420.0
1967	52.2	71.8	0.9	10.8	1.6	10.2	37.7	86.7	17.5	8.1	7.7	116.2	10.7	0.2	--	12.1	--	444.4
1968	52.0	59.2	0.8	11.1	1.6	9.9	40.0	81.7	16.3	8.0	7.4	111.2	10.1	0.3	--	18.6	--	428.2
1969	53.8	62.8	0.9	12.6	1.7	11.1	47.2	91.4	18.4	8.8	8.5	128.0	11.4	0.2	--	15.9	--	472.7
1970	55.0	68.8	1.0	13.8	1.9	12.5	47.1	102.4	20.6	10.1	9.6	145.2	12.8	0.3	--	18.6	--	519.7
1971	60.6	71.3	1.1	15.6	1.9	12.4	51.2	103.1	20.6	10.2	9.4	142.4	12.8	0.3	--	16.1	--	529.0
1972	79.9	101.7	1.3	15.7	2.4	15.6	64.0	130.7	26.5	12.3	11.9	178.9	16.3	0.4	--	16.5	--	674.1
1973	104.7	164.5	1.8	20.7	3.3	22.0	89.4	188.3	38.5	17.2	16.8	252.6	23.4	0.4	--	19.9	--	963.5
1974	105.1	217.5	2.2	28.3	4.2	27.2	102.0	232.1	47.6	20.9	20.5	307.7	28.7	0.5	--	41.3	--	1,185.8
1975	103.4	143.0	1.9	24.6	3.7	22.9	92.9	186.2	37.9	17.3	17.1	257.7	23.4	2.0	--	49.5	--	983.5
1976	92.2	136.7	1.9	26.2	3.8	23.3	103.5	186.1	37.6	17.7	17.1	257.7	23.2	7.8	--	61.1	0.1	996.0
1977	106.1	113.6	1.9	26.7	4.0	23.5	101.2	181.3	36.6	17.4	17.2	259.0	23.0	8.4	--	72.9	0.1	992.9
1978	114.7	149.5	2.4	36.7	4.8	28.4	111.9	221.3	44.7	21.0	20.7	312.4	27.9	8.9	--	88.1	0.2	1,193.6
1979	154.7	160.6	2.9	44.8	6.8	36.8	139.8	265.8	54.6	24.2	25.9	391.0	34.5	12.7	--	176.6	0.2	1,531.9
1980	173.7	122.9	3.9	69.6	10.7	48.4	148.5	301.0	62.5	26.7	31.3	474.8	40.8	17.7	--	412.1	0.3	1,944.9
1981	148.1	181.3	6.5	134.2	20.3	78.5	150.7	434.9	90.4	37.5	45.2	687.4	59.5	18.0	--	977.7	0.3	3,070.5
1982	143.8	195.4	6.1	123.9	19.0	73.4	141.1	415.4	85.8	36.2	42.2	640.8	56.2	16.7	--	901.3	0.3	2,897.6
1983	160.8	224.2	6.1	120.1	18.2	73.7	152.9	438.1	90.2	38.7	43.9	666.1	58.5	16.5	--	820.2	0.3	2,928.5
1984	170.5	230.0	5.9	112.8	16.8	71.2	161.3	436.0	90.2	38.2	43.8	664.3	58.2	20.9	--	715.6	0.4	2,836.1
1985	174.2	220.0	5.4	101.0	15.0	66.1	163.0	415.9	85.8	36.8	41.7	631.4	55.2	23.9	--	609.8	0.4	2,645.6
1986	163.2	204.9	3.9	64.3	9.3	49.1	155.9	347.5	71.4	31.7	34.2	518.0	45.1	18.0	--	273.9	0.3	1,990.7
1987	187.4	212.5	4.2	67.7	10.1	52.2	169.6	367.6	75.5	33.5	36.2	548.1	47.9	16.6	--	299.7	0.3	2,129.1
1988	197.5	146.3	3.5	55.2	8.1	44.1	170.1	312.2	64.1	29.2	31.5	478.2	41.1	10.1	--	211.6	0.2	1,803.0
1989	158.3	278.1	4.3	66.2	9.6	54.8	172.2	412.0	84.3	38.0	39.6	600.2	52.5	17.8	--	232.8	0.3	2,221.0
1990	190.5	167.5	4.1	67.3	9.8	52.3	174.8	363.8	74.4	34.2	36.9	561.0	47.7	18.8	--	285.2	0.3	2,088.6
1991	169.9	183.4	4.0	66.3	9.4	52.0	170.9	370.8	75.4	35.4	37.1	564.1	48.0	21.9	--	259.5	0.4	2,068.5
1992	188.2	248.2	4.5	71.5	10.0	58.0	192.3	431.3	87.5	41.0	42.1	640.2	55.1	19.1	--	239.1	0.3	2,328.4
1993	182.1	299.8	4.7	71.6	10.0	60.9	197.1	471.5	94.8	45.8	44.8	680.8	59.1	20.3	--	205.1	0.3	2,448.7
1994	167.9	243.7	4.3	65.7	9.2	56.9	195.1	440.1	87.3	44.6	42.2	642.3	54.8	21.8	--	178.9	0.4	2,255.2
1995	162.5	276.3	4.8	76.7	10.7	62.8	207.1	485.8	94.8	50.8	45.5	691.2	59.5	20.7	--	244.9	0.4	2,494.5
1996	166.3	299.8	5.5	90.7	13.3	71.5	219.6	541.1	103.8	58.8	49.6	755.2	65.5	2.4	--	384.3	--	2,827.4
1997	179.8	288.7	6.0	103.9	15.0	78.7	235.8	591.8	110.9	67.7	53.7	818.2	70.5	0.1	--	462.6	--	3,083.4
1998	173.3	276.1	5.3	86.7	12.5	71.9	241.2	585.6	104.0	85.8	49.9	758.0	66.0	0.1	--	295.7	--	2,812.1
1999	192.8	286.9	6.0	100.1	14.6	80.9	256.2	668.7	113.5	102.7	54.5	827.5	72.5	0.4	--	373.8	--	3,151.1
2000	204.7	333.5	7.2	124.8	18.4	95.7	275.8	761.6	130.8	113.9	62.8	953.3	83.7	0.5	--	552.9	--	3,719.6

Table A21. Input-Output Interdependence Coefficients, Based on Technical Coefficients for the 17-Sector Model, North Dakota

Sector	(1) Ag. Lvstk	(2) Ag. Crops	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE
(1) Ag. Livestock	1.2072	0.0774	0.0445	0.0343	0.0455	0.0379	0.1911	0.0889	0.0617
(2) Ag. Crops	0.3938	1.0921	0.0174	0.0134	0.0178	0.0151	0.6488	0.0317	0.0368
(3) Nonmetallic Mining	0.0083	0.0068	1.0395	0.0302	0.0092	0.0043	0.0063	0.0024	0.0049
(4) Construction	0.0722	0.0794	0.0521	1.0501	0.0496	0.0653	0.0618	0.0347	0.0740
(5) Transportation	0.0151	0.0113	0.0284	0.0105	1.0079	0.0135	0.0128	0.0104	0.0120
(6) Comm. & Public Util	0.0921	0.0836	0.1556	0.0604	0.0839	1.1006	0.0766	0.0529	0.1321
(7) Ag Proc & Misc Mfg	0.5730	0.1612	0.0272	0.0207	0.0277	0.0239	1.7401	0.0452	0.0704
(8) Retail Trade	0.7071	0.8130	0.5232	0.4100	0.5475	0.4317	0.6113	1.2734	0.6764
(9) Fin, Ins, Real Estate	0.1526	0.1677	0.1139	0.0837	0.1204	0.1128	0.1322	0.0577	1.1424
(10) Bus & Pers Services	0.0562	0.0684	0.0430	0.0287	0.0461	0.0374	0.0514	0.194	0.0766
(11) Prof & Soc Services	0.0710	0.0643	0.0559	0.0402	0.0519	0.0526	0.0530	0.0276	0.0816
(12) Households	1.0458	0.9642	0.8424	0.6089	0.7876	0.7951	0.7859	0.4034	1.2018
(13) Government	0.0987	0.0957	0.0853	0.0519	0.2583	0.0999	0.0796	0.0394	0.1071
(14) Coal Mining	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
(15) Thermal-Elec Generation	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
(16) Pet Exp/Ext	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
(17) Pet Refining									
Gross Receipts Multiplier	4.4931	3.6851	3.0284	2.4430	3.0534	2.7901	4.4509	2.0871	3.6778

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Table A21. Continued

Sector	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) Households	(13) Govt	(14) Coal Mining	(15) Thermal- Elec Generation	(16) Pet Exp/Ext	(17) Pet Refining
(1) Ag. Livestock	0.0384	0.0571	0.0674	0.0000	0.0375	0.0250	0.0159	0.0040
(2) Ag. Crops	0.0152	0.0229	0.0266	0.0000	0.0284	0.0321	0.0062	0.0016
(3) Nonmetallic Mining	0.0043	0.0050	0.0057	0.0000	0.0031	0.0019	0.0045	0.0007
(4) Construction	0.0546	0.0787	0.0902	0.0000	0.0514	0.0320	0.1148	0.0168
(5) Transportation	0.0118	0.0100	0.0093	0.0000	0.0082	0.0046	0.0180	0.0053
(6) Comm. & Public Util	0.1104	0.1192	0.1055	0.0000	0.0707	0.0374	0.0510	0.0106
(7) Ag Proc & Misc Mfg	0.0237	0.0362	0.0417	0.0000	0.0617	0.0781	0.0097	0.0025
(8) Retail Trade	0.4525	0.6668	0.7447	0.0000	0.3975	0.2254	0.1838	0.0458
(9) Fin, Ins, Real Estate	0.1084	0.1401	0.1681	0.0000	0.0767	0.0975	0.0388	0.0101
(10) Bus & Pers Services	0.1509	0.0455	0.0605	0.0000	0.0287	0.0200	0.0139	0.0035
(11) Prof & Soc Services	0.0497	1.1026	0.0982	0.0000	0.0491	0.0300	0.0210	0.0055
(12) Households	0.7160	1.0437	1.5524	0.0000	0.6630	0.3951	0.3205	0.0828
(13) Government	0.0774	0.0881	0.1080	1.0000	0.0508	0.0443	0.0280	0.0094
(14) Coal Mining	0.0000	0.0000	0.0000	0.0000	1.0000	0.1582	0.0003	0.0000
(15) Thermal-Elec Generation	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000
(16) Pet Exp/Ext	0.0000	0.0000	0.0000	0.0000	0.0016	0.0010	1.0981	0.0954
(17) Pet Refining	0.0000	0.0000	0.000	0.0000	0.0168	0.0102	0.0000	1.0000
Gross Receipts Multiplier	2.7133	3.4159	3.0783	1.0000	2.5452	2.1928	1.9245	1.2940

TABLE A22. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES, NORTH DAKOTA, 1958-2000

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		-----Percent-----
1958	1,094,030	1,022,412	-6.55
1959	1,008,057	978,420	-2.94
1960	1,128,267	942,488	-16.47
1961	1,035,582	1,011,462	-2.33
1962	1,460,980	1,285,790	-11.99
1963	1,365,020	1,353,864	-0.82
1964	1,367,166	1,521,191	11.27
1965	1,497,762	1,470,129	-1.84
1966	1,555,539	1,662,394	6.87
1967	1,595,042	1,573,010	-1.38
1968	1,643,964	1,684,451	2.46
1969	1,850,417	1,890,973	2.19
1970	1,913,283	2,117,319	10.66
1971	2,158,416	2,156,642	-0.08
1972	2,676,385	2,601,416	-2.80
1973	3,841,862	3,674,738	-4.35
1974	3,379,859	4,104,667	21.44
1975	3,919,075	4,009,827	2.32
1976	3,860,259	3,860,970	0.02
1977	4,067,233	3,829,503	-5.85
1978	5,006,746	4,481,331	-10.49
1979	5,463,873	5,187,221	-5.06
1980	5,589,756	5,930,502	6.10
1981	6,709,944	6,899,460	2.82
1982	7,069,655	6,305,332	-10.81
1983	7,360,558	7,223,150	-1.87
1984	7,930,244	7,313,802	-7.77
1985	8,182,182	7,713,453	-5.73
1986	8,386,307	7,425,914	-11.45
1987	8,526,996	7,672,128	-10.03
1988	8,162,964	8,104,626	-0.71
1989	9,047,120	7,868,061	-13.03
1990	9,649,930	8,875,195	-8.03
1991	9,842,901	8,930,915	-9.27
1992	10,762,348	9,854,454	-8.44
1993	10,859,605	10,039,493	-7.55
1994	11,612,277	10,569,131	-8.98
1995	11,640,079	10,783,732	-7.36
1996	12,982,928	11,372,008	-12.41
1997	12,885,281	12,260,750	-4.85
1998	13,855,000	12,101,933	-12.65
1999	14,747,353	12,769,997	-13.41
2000	15,915,510	13,374,327	-15.97
Absolute Average Difference		7.20	
Mean Difference		-4.12	
Standard Deviation		7.7089	
Thiel's U ₁		0.0545	

**TABLE A23. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES,
REGION 1, NORTH DAKOTA, 1958-2000**

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		-----Percent-----
1958	--	44,687	--
1959	59,718	44,253	-25.90
1960	--	50,265	--
1961	--	44,640	--
1962	78,870	64,718	-17.94
1963	--	74,743	--
1964	--	70,466	--
1965	76,628	73,012	-4.72
1966	78,795	83,290	5.70
1967	79,591	77,415	-2.73
1968	78,775	78,134	-0.81
1969	87,624	102,880	17.41
1970	84,689	98,959	16.85
1971	96,134	105,697	9.95
1972	136,057	134,840	-0.89
1973	204,685	199,833	-2.37
1974	194,571	225,908	16.11
1975	199,232	191,602	-3.83
1976	197,312	189,657	-3.88
1977	199,333	181,817	-8.79
1978	247,365	221,063	-10.63
1979	294,123	352,493	19.85
1980	358,973	473,362	31.87
1981	507,262	668,652	31.82
1982	499,389	548,678	9.87
1983	465,940	536,224	15.08
1984	480,334	527,764	9.87
1985	481,368	491,761	2.16
1986	483,973	432,774	-10.58
1987	453,526	451,056	-0.54
1988	434,384	419,014	-3.54
1989	458,751	419,405	-8.58
1990	470,040	478,590	1.82
1991	428,692	466,954	8.93
1992	477,536	505,437	5.84
1993	479,315	547,318	14.19
1994	487,874	519,602	6.50
1995	499,979	527,219	5.45
1996	542,863	544,172	0.24
1997	524,396	560,759	6.93
1998	590,325	516,123	-12.57
1999	590,345	599,987	1.62
2000	--	684,767	--
Absolute Average Difference		9.63	
Mean Difference		3.24	
Standard Deviation		12.1765	
Thiel's U ₁		0.0587	

**TABLE A24. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES,
REGION 2, NORTH DAKOTA, 1958-2000**

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		-----Percent-----
1958	--	130,582	--
1959	147,978	131,035	-11.45
1960	--	138,169	--
1961	--	124,941	--
1962	229,664	244,366	6.40
1963	--	236,135	--
1964	--	310,427	--
1965	246,881	236,615	-4.16
1966	255,947	287,789	12.44
1967	265,856	225,987	-15.00
1968	276,269	262,755	-4.89
1969	297,901	312,349	4.85
1970	302,298	355,123	17.47
1971	338,986	367,950	8.54
1972	415,657	395,840	-4.77
1973	644,783	628,638	-2.50
1974	579,274	676,079	16.71
1975	617,550	773,761	25.30
1976	591,570	596,058	0.76
1977	602,581	598,010	-0.76
1978	717,842	706,215	-1.62
1979	744,427	795,481	6.86
1980	789,345	957,929	21.36
1981	956,461	1,200,131	25.48
1982	1,013,104	1,031,912	1.86
1983	1,045,908	1,131,451	8.18
1984	1,100,743	1,136,049	3.21
1985	1,178,275	1,216,261	3.22
1986	1,182,048	1,178,400	-0.31
1987	1,177,625	1,119,510	-4.93
1988	1,143,686	1,222,693	6.91
1989	1,250,620	1,241,128	-0.76
1990	1,367,277	1,431,079	4.67
1991	1,316,355	1,413,943	7.41
1992	1,435,218	1,556,937	8.48
1993	1,510,960	1,707,524	13.01
1994	1,557,052	1,761,932	13.16
1995	1,613,138	1,781,405	10.43
1996	1,758,582	1,822,952	3.66
1997	1,708,679	1,968,514	15.21
1998	1,976,862	1,912,133	-3.27
1999	1,931,275	1,919,241	-0.62
2000	--	2,136,306	--
Absolute Average Difference		8.12	
Mean Difference		5.15	
Standard Deviation		9.2082	
Thiel's U ₁		0.0451	

**TABLE A25. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES,
REGION 3, NORTH DAKOTA, 1958-2000**

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		-----Percent-----
1958	--	96,231	--
1959	75,380	98,344	30.46
1960	--	83,355	--
1961	--	90,564	--
1962	125,881	117,393	-6.74
1963	--	120,242	--
1964	--	115,422	--
1965	113,252	120,271	6.20
1966	115,339	132,552	14.92
1967	116,210	137,643	18.44
1968	113,863	141,075	23.90
1969	132,362	156,659	18.36
1970	134,149	175,424	30.77
1971	171,319	187,663	9.54
1972	219,943	240,928	9.54
1973	344,686	347,427	0.80
1974	305,574	389,790	27.56
1975	327,168	404,116	23.52
1976	287,576	371,798	29.29
1977	279,605	358,218	28.12
1978	360,148	414,927	15.21
1979	390,946	468,468	19.83
1980	365,805	519,132	41.91
1981	435,740	566,170	29.93
1982	480,875	560,207	16.50
1983	462,328	636,841	37.75
1984	535,046	645,336	20.61
1985	577,500	722,333	25.08
1986	585,768	652,540	11.40
1987	589,212	685,953	16.42
1988	517,222	738,979	42.87
1989	602,513	713,037	18.34
1990	630,997	787,754	24.84
1991	578,504	820,605	41.85
1992	670,825	905,017	34.91
1993	611,658	841,958	37.65
1994	674,158	949,757	40.88
1995	653,959	947,870	44.94
1996	744,315	981,914	31.92
1997	744,203	1,050,766	41.19
1998	814,299	1,004,641	23.37
1999	816,528	1,018,800	24.77
2000	--	1,071,185	--
Absolute Average Difference		24.87	
Mean Difference		24.51	
Standard Deviation		12.2148	
Thiel's U ₁		0.1341	

TABLE A26. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES, REGION 4, NORTH DAKOTA, 1958-2000

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		--Percent--
1958	--	145,193	--
1959	148,481	150,997	1.69
1960	--	153,247	--
1961	--	169,115	--
1962	237,296	214,410	-9.64
1963	--	221,752	--
1964	--	300,422	--
1965	242,790	265,227	9.24
1966	255,725	283,196	10.74
1967	259,432	258,074	-0.52
1968	263,231	285,615	8.50
1969	292,997	297,814	1.64
1970	321,032	425,682	32.60
1971	337,749	352,634	4.41
1972	411,977	438,847	6.52
1973	585,807	616,354	5.21
1974	550,925	711,895	29.22
1975	585,767	655,960	11.98
1976	586,096	740,622	26.37
1977	605,155	604,941	-0.04
1978	730,222	682,950	-6.47
1979	775,834	750,151	-3.31
1980	823,382	891,764	8.31
1981	944,895	925,683	-2.03
1982	972,361	879,163	-9.58
1983	1,055,134	1,167,613	10.66
1984	1,155,840	1,150,639	-0.45
1985	1,198,424	1,214,249	1.32
1986	1,258,637	1,254,316	-0.34
1987	1,331,048	1,280,753	-3.78
1988	1,284,204	1,472,090	14.63
1989	1,420,447	1,259,673	-11.32
1990	1,422,007	1,414,343	-0.54
1991	1,539,689	1,476,188	-4.12
1992	1,678,627	1,631,001	-2.84
1993	1,630,789	1,599,944	-1.89
1994	1,804,467	1,727,004	-4.29
1995	1,808,230	1,789,114	-1.06
1996	1,936,024	1,833,699	-5.29
1997	1,904,962	2,001,691	5.08
1998	2,179,816	2,006,113	-7.97
1999	2,168,116	2,121,775	-2.14
2000	--	2,196,081	--
Absolute Average Difference		7.18	
Mean Difference		2.99	
Standard Deviation		10.0625	
Thiel's U ₁		0.0339	

TABLE A27. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES, REGION 5, NORTH DAKOTA, 1958-2000

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		----Percent----
1958	--	210,311	--
1959	246,635	202,747	-17.79
1960	--	168,958	--
1961	--	246,713	--
1962	329,802	224,150	-32.03
1963	--	268,983	--
1964	--	276,766	--
1965	302,045	291,794	-3.39
1966	313,531	325,413	3.79
1967	323,655	323,700	0.01
1968	348,515	334,415	-4.05
1969	387,405	349,439	-9.80
1970	402,016	350,252	-12.88
1971	463,039	377,569	-18.46
1972	545,326	454,094	-16.73
1973	810,696	659,848	-18.61
1974	819,193	716,349	-12.55
1975	807,268	610,706	-24.35
1976	843,919	644,246	-23.66
1977	925,306	711,390	-23.12
1978	1,119,722	832,694	-25.63
1979	1,208,497	878,121	-27.34
1980	1,218,909	988,250	-18.92
1981	1,411,576	1,012,904	-28.24
1982	1,456,688	942,839	-35.28
1983	1,621,647	1,183,114	-27.04
1984	1,714,202	1,182,545	-31.01
1985	1,788,105	1,302,266	-27.17
1986	1,862,662	1,230,136	-33.96
1987	1,927,104	1,291,750	-32.97
1988	1,954,708	1,432,922	-26.69
1989	2,114,134	1,338,005	-36.71
1990	2,289,167	1,468,366	-35.86
1991	2,553,014	1,503,117	-41.12
1992	2,732,364	1,608,760	-41.12
1993	2,778,046	1,552,296	-44.12
1994	3,075,257	1,743,631	-43.30
1995	3,189,533	1,789,537	-43.89
1996	3,515,253	1,975,972	-43.79
1997	3,606,920	2,149,180	-40.42
1998	4,036,253	2,169,576	-46.25
1999	4,224,995	2,416,590	-42.80
2000	--	2,480,320	--
Absolute Average Difference		26.89	
Mean Difference		-26.68	
Standard Deviation		13.3456	
Thiel's U_1		0.2469	

TABLE A28. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES, REGION 6, NORTH DAKOTA, 1958-2000

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		---Percent---
1958	--	160,836	--
1959	120,146	146,202	21.69
1960	--	144,804	--
1961	--	146,218	--
1962	178,769	165,510	-7.42
1963	--	167,090	--
1964	--	168,434	--
1965	192,849	187,107	-2.98
1966	197,939	207,613	4.89
1967	204,231	208,909	2.29
1968	207,914	226,161	8.78
1969	239,677	252,705	5.44
1970	237,269	265,927	12.08
1971	269,860	288,648	6.96
1972	331,369	344,838	4.06
1973	439,026	441,734	0.62
1974	478,364	538,335	12.54
1975	499,755	518,600	3.77
1976	437,126	466,084	6.62
1977	458,063	492,530	7.52
1978	580,610	606,340	4.43
1979	641,975	682,753	6.35
1980	555,885	672,614	21.00
1981	654,339	814,323	24.45
1982	741,779	797,575	7.52
1983	691,486	877,662	26.92
1984	854,178	911,743	6.74
1985	854,313	931,902	9.08
1986	864,211	874,599	1.20
1987	873,201	913,738	4.64
1988	818,388	932,411	13.93
1989	899,854	888,115	-1.30
1990	997,806	1,095,715	9.81
1991	978,835	1,079,466	10.28
1992	1,056,724	1,190,667	12.68
1993	1,006,649	1,173,677	16.59
1994	1,108,219	1,227,666	10.78
1995	1,064,888	1,228,297	15.35
1996	1,245,145	1,346,141	8.11
1997	1,158,277	1,390,849	20.08
1998	1,339,699	1,403,829	4.79
1999	1,297,289	1,414,706	9.05
2000	--	1,550,627	--
Absolute Average Difference		9.53	
Mean Difference		8.90	
Standard Deviation		7.3738	
Thiel's U ₁		0.0565	

**TABLE A29. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES,
REGION 7, NORTH DAKOTA, 1958-2000**

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		---Percent---
1958	--	159,563	--
1959	146,689	144,166	-1.72
1960	--	148,228	--
1961	--	135,701	--
1962	195,125	189,388	-2.94
1963	--	187,168	--
1964	--	210,892	--
1965	231,558	216,662	-6.43
1966	242,985	245,526	1.05
1967	250,605	236,824	-5.50
1968	259,639	257,277	-0.91
1969	298,470	302,708	1.42
1970	315,813	312,844	-0.94
1971	348,358	345,985	-0.68
1972	440,518	425,182	-3.48
1973	564,662	540,288	-4.32
1974	566,616	564,281	-0.41
1975	634,607	622,156	-1.96
1976	672,033	625,110	-6.98
1977	746,416	658,735	-11.75
1978	933,996	745,644	-20.17
1979	1,041,084	928,140	-10.85
1980	1,088,107	1,052,365	-3.28
1981	1,287,126	1,222,484	-5.02
1982	1,385,026	1,113,950	-19.57
1983	1,514,596	1,250,481	-17.44
1984	1,547,889	1,360,512	-12.11
1985	1,578,527	1,436,195	-9.02
1986	1,610,945	1,392,222	-13.58
1987	1,640,223	1,507,759	-8.08
1988	1,645,033	1,505,872	-8.46
1989	1,749,573	1,519,297	-13.16
1990	1,887,178	1,687,083	-10.60
1991	1,902,836	1,711,201	-10.07
1992	2,104,012	1,909,612	-9.24
1993	2,213,718	2,014,149	-9.02
1994	2,288,769	2,063,360	-9.85
1995	2,399,953	2,089,108	-12.95
1996	2,555,998	2,186,632	-14.45
1997	2,566,426	2,386,522	-7.01
1998	2,894,480	2,386,871	-17.54
1999	2,951,535	2,505,415	-15.11
2000	--	2,708,594	--
Absolute Average Difference		8.30	
Mean Difference		-8.17	
Standard Deviation		5.8168	
Thiel's U ₁		0.0662	

TABLE A30. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES, REGION 8, NORTH DAKOTA, 1958-2000

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		--Percent--
1958	--	81,400	--
1959	63,030	67,749	7.49
1960	--	65,000	--
1961	--	62,782	--
1962	86,218	76,068	-11.77
1963	--	88,911	--
1964	--	80,448	--
1965	91,759	92,126	0.40
1966	95,278	110,365	15.83
1967	95,462	116,224	21.75
1968	95,758	111,175	16.10
1969	113,981	128,017	12.31
1970	116,019	145,196	25.15
1971	132,971	142,352	7.05
1972	175,538	178,924	1.93
1973	247,517	252,643	2.07
1974	245,342	307,670	25.40
1975	247,728	257,685	4.02
1976	244,627	257,666	5.33
1977	250,774	259,047	3.30
1978	316,841	312,423	-1.39
1979	366,987	391,019	6.55
1980	389,350	474,843	21.96
1981	512,545	687,441	34.12
1982	520,433	640,783	23.12
1983	503,519	666,138	32.30
1984	542,012	664,319	22.57
1985	525,670	631,354	20.10
1986	538,063	518,032	-3.72
1987	535,057	548,088	2.44
1988	531,368	478,234	-10.00
1989	541,135	600,165	10.91
1990	585,458	561,027	-4.71
1991	544,976	564,094	3.51
1992	607,042	640,205	5.46
1993	628,466	680,817	8.33
1994	622,347	642,349	3.21
1995	637,552	691,174	8.41
1996	684,748	755,165	10.28
1997	671,418	818,183	21.86
1998	768,695	758,021	-1.39
1999	767,270	827,480	7.85
2000	--	953,284	--
Absolute Average Difference		11.45	
Mean Difference		9.69	
Standard Deviation		11.0552	
Thiel's U ₁		0.0684	

TABLE A31. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA (CURRENT DOLLARS), 1958-2000

Year	(1)&(2) Agric	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal-Elec Generation	(16) Pet Exp/Ext	(17) Pet Refining
1958	9,444	53,846	6,486	1,768	10,644	19,169	19,939	29,783	5,122	4,798	--	3,030	2,894	--	8,828	39,104
1959	9,290	54,330	6,259	1,687	10,035	17,659	18,451	26,617	4,597	4,304	--	2,787	2,610	--	12,611	39,692
1960	8,887	55,284	7,409	1,624	9,760	17,353	17,593	24,713	4,275	4,045	--	2,660	2,610	--	19,568	39,682
1961	9,414	52,307	7,188	1,779	10,824	18,846	18,451	25,166	4,288	4,159	--	2,729	3,403	--	23,296	41,311
1962	11,016	69,565	6,986	2,168	13,605	18,827	23,753	30,488	5,179	5,102	--	3,260	3,937	--	27,786	42,229
1963	12,872	77,981	7,999	2,344	14,551	19,251	24,422	31,894	5,361	5,161	--	3,238	3,561	--	29,850	43,706
1964	12,649	82,300	8,972	2,503	16,086	18,583	25,087	33,178	5,523	5,566	--	3,286	4,297	--	30,516	46,014
1965	15,406	71,111	9,135	2,656	16,060	19,562	25,420	32,893	5,807	5,437	--	3,169	5,190	--	27,822	50,375
1966	17,930	77,037	11,896	2,933	17,673	21,005	28,358	36,465	6,543	6,012	--	3,414	5,649	23,404	30,742	53,007
1967	18,988	78,906	12,355	2,853	16,765	21,745	27,589	33,397	6,189	5,451	--	3,086	9,855	43,298	31,613	55,263
1968	19,376	84,800	14,093	3,046	17,968	21,858	29,140	35,118	6,561	5,654	--	3,071	13,056	63,730	37,650	58,203
1969	22,584	88,235	16,356	3,428	20,153	27,370	32,433	39,220	7,325	6,322	--	3,376	13,230	59,693	29,449	61,133
1970	27,374	129,545	26,968	4,002	24,828	28,071	36,472	46,044	8,012	6,987	--	4,036	16,167	57,740	45,862	71,296
1971	28,922	106,060	16,353	3,992	24,964	29,513	36,402	45,721	7,842	6,739	--	4,096	17,647	70,281	50,458	77,777
1972	38,088	134,108	17,549	4,932	30,102	32,432	42,244	54,486	8,816	7,804	--	4,923	17,914	79,553	55,781	85,500
1973	61,728	190,625	23,762	7,042	41,942	42,699	59,244	77,240	11,984	10,545	--	7,071	18,750	68,683	64,096	92,822
1974	66,322	200,000	25,637	7,763	45,645	44,746	63,783	81,936	12,619	11,207	--	7,736	23,876	71,794	99,225	113,930
1975	59,977	171,333	21,977	7,356	44,515	36,673	56,823	72,700	11,346	10,288	--	6,932	24,413	61,676	83,949	125,870
1976	52,517	151,923	16,800	7,019	41,584	43,572	50,590	64,487	10,626	9,483	--	6,424	42,996	109,039	81,215	137,128
1977	46,259	146,583	16,377	6,615	39,361	40,263	49,143	58,964	10,220	9,038	--	6,207	42,737	129,329	66,699	147,058
1978	59,804	170,303	17,481	7,264	42,991	42,946	57,438	66,303	11,471	9,996	--	7,057	43,665	180,165	48,564	154,368
1979	70,488	192,012	20,660	7,904	45,971	48,201	62,930	72,542	12,019	11,058	--	8,013	57,794	248,913	60,578	233,696
1980	74,811	215,297	28,091	8,903	50,255	55,070	70,394	78,103	12,793	12,253	--	9,014	69,524	311,139	84,707	360,075
1981	85,034	243,533	36,367	10,977	58,170	57,768	83,851	89,267	14,125	13,439	--	10,594	67,983	282,730	134,764	618,212
1982	83,235	218,788	30,620	10,309	55,042	53,484	77,073	82,571	12,691	11,723	--	9,826	64,293	292,948	144,954	642,088
1983	93,635	240,042	31,356	11,662	64,527	58,772	87,188	92,571	14,018	12,973	--	11,007	77,439	327,880	195,633	586,323
1984	89,709	235,428	39,555	11,182	63,442	58,600	83,061	90,309	13,241	12,961	--	10,875	84,996	350,310	174,591	558,256
1985	97,508	251,524	48,099	11,459	66,979	62,363	86,546	93,958	13,884	13,198	--	11,312	131,424	383,431	159,657	515,783
1986	91,625	192,143	47,951	10,107	62,258	61,743	83,485	89,638	13,147	12,507	--	10,573	141,016	378,148	130,786	390,077
1987	95,655	178,551	48,555	10,457	64,217	64,987	85,343	92,443	13,259	12,624	--	10,924	176,277	697,343	179,572	413,065
1988	104,910	208,913	55,879	10,627	65,781	68,491	89,797	100,336	13,584	12,846	--	11,568	188,297	725,860	139,788	391,570
1989	87,050	160,877	54,061	9,897	62,295	63,579	83,091	94,970	12,407	12,216	--	10,792	216,220	662,052	181,174	393,028
1990	102,642	183,612	61,430	11,194	69,916	68,174	92,851	106,244	13,662	13,075	--	12,221	224,072	652,581	186,378	453,831
1991	103,534	170,430	61,078	11,173	70,407	67,646	91,583	103,811	14,018	12,674	--	12,243	221,072	659,091	163,419	397,833
1992	118,042	204,903	63,960	12,009	76,158	72,605	100,639	112,328	15,070	13,546	--	13,309	220,189	705,889	179,895	365,612
1993	118,609	192,617	60,360	11,846	75,824	71,506	100,277	110,150	15,090	13,498	--	13,447	227,860	715,049	165,483	332,665
1994	119,318	181,040	56,966	11,704	75,842	71,037	103,662	110,915	14,919	14,043	--	13,982	227,335	710,980	163,520	307,521
1995	123,877	183,086	57,518	12,401	78,934	73,756	105,037	114,787	16,536	13,899	--	13,512	222,886	688,030	205,250	301,872
1996	135,997	189,474	53,180	13,641	85,176	77,925	113,588	116,599	17,698	14,340	--	14,480	228,806	717,146	241,862	343,229
1997	137,879	196,348	60,161	14,927	93,139	79,429	122,556	120,345	19,541	15,050	--	15,506	245,634	688,889	257,699	320,101
1998	139,077	186,933	57,965	15,364	96,050	82,021	127,191	113,854	26,452	14,826	--	15,542	244,282	710,759	183,491	276,998
1999	149,043	188,972	57,013	16,340	100,018	86,082	141,082	115,322	30,520	15,549	--	16,299	227,295	681,019	324,331	318,203
2000	147,182	209,043	63,227	17,086	103,666	85,907	146,300	118,702	32,205	16,241	--	16,703	249,191	803,515	404,306	470,922

TABLE A32. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 1 (CURRENT DOLLARS), 1958-2000

Year	(1) & (2) Agric	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal-Elec Generation	(16) Pet Exp/Ext	(17) Pet Refining
1958	7,347	--	5,470	1,386	5,923	18,169	15,742	33,678	4,069	3,861	--	3,151	2,127	--	25,417	171,428
1959	7,117	--	5,405	1,369	5,841	16,212	14,939	30,731	3,673	3,502	--	2,971	2,083	--	31,521	174,074
1960	7,900	--	7,740	1,692	6,611	17,486	17,081	35,960	4,217	3,980	--	3,501	2,000	--	45,585	176,923
1961	6,717	--	7,486	1,549	6,205	17,997	14,833	31,472	3,480	3,431	--	3,132	3,703	--	39,597	176,923
1962	10,696	--	8,486	2,061	8,495	21,323	23,493	48,205	5,172	5,041	--	4,711	3,571	--	46,090	184,000
1963	13,541	--	12,005	2,708	11,912	17,659	28,077	58,730	6,072	5,612	--	5,384	3,448	--	49,658	180,000
1964	11,439	--	13,876	3,403	14,135	13,050	25,971	53,804	5,456	5,180	--	4,824	16,666	--	49,266	176,000
1965	13,341	--	23,448	3,703	14,613	18,268	28,862	47,085	6,117	5,627	--	4,861	--	--	43,848	184,000
1966	16,325	--	15,946	4,087	21,066	19,816	32,491	51,948	6,809	6,380	--	5,882	--	--	43,434	184,000
1967	16,300	--	16,695	4,204	19,160	21,109	30,535	47,033	6,377	5,543	--	5,036	--	--	41,498	176,923
1968	15,756	--	19,223	4,729	19,270	21,557	30,458	47,234	6,417	5,284	--	4,649	--	--	44,377	184,000
1969	21,271	--	23,421	5,474	25,770	26,498	40,043	60,493	9,044	7,666	--	6,010	--	--	41,755	188,000
1970	24,731	--	16,253	6,329	30,902	26,423	39,799	73,195	8,513	6,907	--	6,227	--	--	52,528	221,739
1971	25,139	--	16,920	6,611	32,312	28,990	42,272	67,889	8,476	7,128	--	6,506	--	--	66,349	247,826
1972	36,788	--	19,767	8,438	41,095	38,739	55,410	90,410	9,957	8,444	--	8,521	--	--	62,432	260,869
1973	62,153	--	25,952	13,333	66,541	55,493	82,465	145,023	14,315	12,188	--	12,724	--	--	60,227	272,000
1974	64,253	--	41,891	19,251	86,666	58,414	83,697	146,382	17,391	15,282	--	13,913	--	--	120,543	328,000
1975	51,422	--	34,782	13,733	54,103	44,736	68,330	142,131	14,067	12,080	--	10,969	--	--	91,954	333,333
1976	46,275	--	33,380	12,734	52,631	48,603	62,122	101,865	13,541	11,552	--	10,429	--	--	85,587	342,857
1977	35,166	--	32,628	11,038	44,871	44,936	54,392	92,307	12,410	10,849	--	9,754	--	--	87,148	343,333
1978	49,412	--	31,055	13,183	52,487	49,445	64,705	88,764	9,140	7,853	--	11,435	--	--	57,904	360,000
1979	56,884	--	39,122	15,317	65,928	53,690	85,151	137,113	17,059	17,293	--	16,467	--	--	71,486	500,000
1980	65,041	--	58,274	17,455	71,553	58,587	101,768	131,270	19,166	21,011	--	22,358	5,500	--	93,783	725,903
1981	71,466	--	74,342	15,776	114,002	47,896	122,751	183,410	21,995	27,745	--	31,483	6,892	--	135,396	1,231,313
1982	64,535	--	48,241	13,307	90,697	38,531	88,394	133,847	11,623	20,285	--	25,839	10,120	--	144,658	1,167,806
1983	70,550	--	61,954	19,859	102,773	50,936	109,179	137,888	14,255	21,123	--	24,571	10,074	--	269,921	1,053,188
1984	53,211	--	83,467	19,453	105,945	51,414	105,353	139,386	14,983	20,411	--	24,158	9,867	--	222,109	990,970
1985	50,636	--	95,925	18,737	101,105	51,312	97,124	127,599	14,059	18,751	--	22,236	18,865	--	333,879	894,265
1986	71,642	--	87,968	17,373	71,216	60,702	98,554	117,836	15,112	17,150	--	19,246	8,174	--	236,993	578,619
1987	74,569	--	121,197	26,365	79,961	83,766	115,508	123,491	17,623	18,015	--	20,562	9,043	--	333,459	597,773
1988	73,224	--	122,052	17,355	83,939	84,516	115,312	116,364	14,976	15,179	--	18,842	12,773	--	259,380	570,277
1989	58,939	--	158,329	25,490	85,158	83,017	117,365	117,017	16,742	15,864	--	18,577	9,333	--	349,671	587,074
1990	73,469	--	179,718	46,073	105,824	91,214	127,119	133,606	15,976	17,507	--	21,837	10,450	--	319,454	692,893
1991	77,818	--	146,783	45,954	98,584	87,517	119,804	119,053	17,330	16,298	--	21,765	8,905	--	257,697	598,310
1992	88,532	--	181,836	28,650	68,902	106,963	123,582	140,110	17,708	17,566	--	23,063	9,889	--	287,037	547,574
1993	108,204	--	182,353	31,011	109,934	100,469	144,170	153,049	21,604	20,146	--	25,121	11,111	--	280,112	492,424
1994	93,959	--	152,821	25,962	92,262	91,419	133,119	141,988	16,682	20,024	--	23,794	10,526	--	282,677	445,588
1995	93,925	--	170,248	27,333	101,931	97,230	142,034	146,407	20,084	19,759	--	22,837	10,000	--	259,976	435,211
1996	95,987	--	141,986	42,718	117,217	105,545	144,885	138,636	22,662	20,125	--	23,449	10,526	--	261,848	506,849
1997	92,852	--	146,774	26,708	161,270	100,900	152,594	163,617	23,831	26,106	--	24,597	9,091	--	218,538	469,333
1998	87,977	--	122,321	22,956	149,038	100,161	150,318	143,532	26,011	23,989	--	22,833	4,348	--	143,900	396,154
1999	106,594	--	161,275	38,793	164,602	126,158	178,514	167,551	35,734	24,113	--	26,923	8,000	--	264,043	468,750
2000	105,911	--	209,694	48,729	189,826	131,031	194,107	183,133	38,623	27,367	--	29,730	8,333	--	382,391	726,250

TABLE A33. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 2 (CURRENT DOLLARS), 1958-2000

Year	(1) & (2) Agric	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal-Elec Generation	(16) Pet Exp/Ext	(17) Pet Refining
1958	7,408	--	4,924	1,740	8,194	16,479	16,707	53,448	4,466	3,718	--	2,534	--	--	26,845	--
1959	7,898	--	5,103	1,834	8,215	15,689	16,545	50,948	4,240	3,486	--	2,473	--	--	48,754	--
1960	8,057	900,000	5,972	1,787	8,586	17,542	17,261	42,094	4,144	3,603	--	2,279	--	--	80,701	--
1961	6,298	400,000	4,921	1,498	7,866	18,877	14,741	29,328	3,246	3,119	--	1,734	--	--	88,803	--
1962	12,351	466,666	6,289	2,448	14,670	25,738	30,504	48,898	5,867	5,858	--	2,946	--	--	97,142	--
1963	13,694	700,000	5,345	2,569	13,953	22,032	25,427	46,067	4,976	5,403	--	2,569	--	--	92,941	--
1964	13,720	850,000	5,379	3,102	17,138	19,004	26,429	53,609	5,188	6,758	--	2,870	--	--	89,189	--
1965	14,635	--	14,613	2,797	14,809	20,244	23,515	40,931	6,461	5,250	--	2,215	--	--	72,093	--
1966	17,756	--	16,357	3,440	17,859	23,114	27,139	48,098	7,399	6,531	--	2,716	--	--	110,212	--
1967	15,324	--	15,596	2,834	15,749	21,702	23,210	37,560	5,920	5,070	--	1,923	--	--	109,767	--
1968	16,022	--	20,210	3,290	20,209	21,401	28,060	44,500	6,730	5,844	--	1,973	--	--	115,686	--
1969	20,309	--	18,534	4,135	24,489	28,368	34,539	53,875	8,180	7,125	--	2,341	--	--	83,650	--
1970	24,098	--	14,229	4,965	29,528	28,886	39,165	63,685	8,940	7,943	--	2,840	--	--	156,291	--
1971	25,778	--	15,579	5,523	34,225	32,671	39,648	63,577	8,814	6,971	--	2,951	--	--	116,017	--
1972	32,863	--	13,685	4,935	39,316	34,831	41,291	69,162	9,183	8,751	--	3,195	--	--	157,222	--
1973	63,808	--	30,405	8,662	73,541	48,605	68,338	110,589	14,535	13,424	--	5,206	--	--	212,878	--
1974	60,886	466,666	32,678	9,919	62,500	55,117	69,928	96,314	14,501	13,139	--	5,342	--	--	311,242	--
1975	53,232	466,666	30,527	9,920	73,543	48,488	69,469	102,732	13,668	13,282	--	5,698	--	--	276,216	--
1976	45,540	377,777	20,709	7,907	51,760	57,399	51,615	70,131	10,865	10,825	--	4,411	--	--	284,433	--
1977	38,046	200,000	27,097	7,619	55,085	51,511	49,967	63,629	11,802	9,520	--	4,302	--	--	202,166	--
1978	53,235	183,333	29,603	8,983	63,565	58,959	63,585	69,637	14,045	11,049	--	5,063	--	--	355,921	--
1979	55,687	--	35,243	10,474	70,743	60,010	64,962	92,946	13,967	11,510	--	5,503	--	--	139,452	--
1980	64,866	--	38,740	11,732	79,153	72,576	78,001	107,138	14,021	14,308	--	6,913	--	--	130,237	--
1981	78,765	--	54,590	16,793	99,326	73,787	100,770	141,483	16,965	17,239	--	8,717	523	--	210,297	--
1982	80,964	--	47,580	10,215	87,016	72,263	83,366	116,109	14,696	14,474	--	7,753	1,900	--	251,298	--
1983	87,313	--	42,575	11,552	93,296	75,807	90,547	122,467	15,752	15,752	--	8,331	1,656	--	336,865	--
1984	78,666	--	55,430	12,220	90,193	76,879	81,937	124,545	15,603	15,336	--	8,098	1,472	--	256,127	--
1985	80,853	--	65,802	11,981	92,026	73,658	83,729	126,724	16,117	15,400	--	8,171	1,516	--	240,690	--
1986	78,121	180,135	79,139	11,426	98,934	83,107	90,364	120,890	16,825	16,038	--	8,350	--	--	160,608	--
1987	69,058	154,850	81,868	12,746	94,472	83,693	84,049	111,585	15,372	15,279	--	7,702	--	--	229,256	--
1988	82,446	186,324	88,358	13,368	103,900	89,815	94,141	127,597	16,528	16,463	--	8,744	--	--	176,862	--
1989	46,972	155,372	97,655	16,036	92,671	84,781	90,549	137,440	17,041	16,826	--	8,594	1,440	--	246,613	--
1990	87,570	193,951	124,196	20,754	88,364	96,816	109,359	148,324	18,148	18,746	--	10,195	1,958	--	335,625	--
1991	84,100	184,429	113,163	19,789	87,353	98,087	104,868	153,324	18,163	16,755	--	9,781	1,440	--	239,163	--
1992	101,739	238,361	109,015	25,085	96,452	98,760	111,187	150,300	20,337	20,240	--	10,976	1,111	--	276,877	--
1993	125,177	723,077	119,163	28,325	110,271	110,503	117,623	178,935	21,518	20,762	--	12,502	--	--	253,044	--
1994	118,653	626,667	109,418	27,138	107,608	108,663	117,753	174,827	20,684	21,126	--	12,643	--	--	242,722	--
1995	121,087	653,333	103,153	26,227	130,633	112,771	119,027	181,142	23,888	28,013	--	12,064	--	--	295,918	--
1996	124,677	326,667	93,612	26,677	130,603	124,607	125,836	179,576	26,319	18,292	--	12,279	--	--	307,353	--
1997	114,393	341,935	111,617	30,525	120,353	133,253	131,265	195,895	23,507	19,198	--	13,526	--	--	276,667	--
1998	113,450	328,125	106,122	31,029	126,628	137,652	134,337	182,138	32,902	18,604	--	13,347	--	--	183,824	--
1999	102,783	278,947	90,258	29,463	128,820	165,398	143,802	190,874	34,942	20,436	--	11,783	--	--	337,447	--
2000	122,523	342,857	105,658	33,047	141,686	177,180	158,627	210,883	36,507	22,716	--	12,912	--	--	446,263	--

TABLE A34. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 3 (CURRENT DOLLARS), 1958-2000

Year	(1) & (2) Agric	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal-Elec Generation	(16) Pet Exp/Ext	(17) Pet Refining
1958	9,550	58,333	14,064	3,928	23,615	33,245	30,187	72,815	10,000	8,839	--	4,557	--	--	--	--
1959	9,903	58,333	14,165	3,900	23,714	31,016	29,785	68,778	9,530	8,408	--	4,507	--	--	--	--
1960	7,724	54,545	16,095	3,435	21,766	27,030	24,927	54,347	7,670	7,042	--	3,869	--	--	--	--
1961	9,043	60,000	16,759	4,273	26,881	31,206	28,435	57,142	8,146	7,434	--	4,340	--	--	--	--
1962	12,217	100,000	18,260	6,190	39,043	35,674	40,476	72,908	10,714	9,443	--	5,750	--	--	--	--
1963	12,832	133,333	20,380	5,349	33,444	35,153	41,216	78,151	10,259	9,059	--	5,544	--	--	--	--
1964	12,148	200,000	21,062	4,727	27,826	33,333	39,361	77,777	9,506	8,287	--	4,995	--	--	--	--
1965	13,363	25,000	23,904	5,284	32,258	26,726	35,098	73,387	9,950	8,879	--	5,029	--	--	--	--
1966	15,749	50,000	29,950	5,343	35,143	26,205	39,687	74,444	10,043	8,717	--	5,772	--	--	--	--
1967	17,760	50,000	29,857	5,281	32,951	29,821	40,462	74,377	9,441	7,885	--	5,441	--	--	--	--
1968	18,248	42,857	29,840	5,000	30,890	31,813	40,112	75,000	8,940	7,153	--	4,970	--	--	--	--
1969	20,015	40,000	28,406	5,574	35,635	37,269	43,524	81,403	10,414	8,421	--	5,593	--	--	--	--
1970	23,171	45,454	27,310	8,737	56,800	36,847	48,825	100,000	11,275	9,488	--	6,470	--	--	--	--
1971	25,338	60,000	10,959	7,011	45,945	38,614	49,393	99,630	10,513	8,919	--	6,551	--	--	--	--
1972	32,823	68,181	27,085	8,362	54,621	47,751	61,783	123,487	12,185	10,675	--	7,818	--	--	--	--
1973	57,902	88,461	44,230	5,263	32,581	67,315	94,952	175,657	15,866	13,534	--	11,225	--	--	--	--
1974	58,040	277,777	33,131	12,738	79,949	70,454	98,000	168,587	18,047	16,131	--	12,270	--	--	--	--
1975	60,350	277,777	35,179	13,559	89,344	52,688	92,391	190,064	15,017	15,125	--	9,793	--	--	--	--
1976	44,842	244,444	27,977	12,040	77,225	48,441	72,509	141,689	13,067	11,736	--	9,735	--	--	--	--
1977	37,493	111,111	31,085	11,683	75,871	44,264	75,668	120,681	16,349	14,544	--	10,154	--	--	--	--
1978	48,726	200,000	30,987	14,492	93,258	53,103	89,318	120,781	20,296	17,817	--	11,411	--	--	--	--
1979	62,718	73,684	41,045	16,549	101,340	60,125	114,453	119,366	20,359	18,005	--	12,948	--	--	--	--
1980	66,950	125,000	76,016	19,771	122,514	70,317	131,651	153,703	21,410	21,065	--	14,423	--	--	--	--
1981	77,053	144,458	58,410	18,257	143,527	70,395	148,653	166,759	24,232	23,045	--	15,979	--	--	--	--
1982	76,077	75,778	70,439	26,312	168,952	62,235	147,251	161,301	27,791	21,714	--	16,117	--	--	--	--
1983	77,232	155,958	53,924	24,016	155,699	60,217	153,980	165,801	32,204	20,368	--	17,760	--	--	--	--
1984	73,802	290,692	69,997	24,344	161,695	57,288	148,586	168,349	32,962	20,557	--	17,201	--	--	--	--
1985	86,664	325,077	91,207	27,367	182,252	64,093	164,954	187,143	36,561	22,644	--	19,062	--	--	--	--
1986	70,869	306,333	112,114	24,289	166,480	51,075	155,455	168,021	26,753	20,754	--	16,704	--	--	--	--
1987	77,836	296,692	110,654	18,028	136,409	59,091	160,385	164,439	29,677	24,486	--	17,979	--	--	--	--
1988	88,267	352,500	171,613	22,660	151,591	63,785	169,595	182,243	30,146	24,315	--	20,788	--	--	--	--
1989	72,732	137,393	163,015	21,825	149,870	53,829	166,492	153,421	29,495	22,838	--	19,450	--	--	--	--
1990	83,455	154,143	155,545	22,994	159,559	65,053	185,188	177,085	29,125	25,413	--	21,163	--	--	--	--
1991	88,670	100,711	207,297	30,126	206,576	63,151	197,701	249,712	31,826	25,615	--	22,101	--	--	--	--
1992	99,493	143,914	153,958	26,304	200,897	70,988	200,956	255,915	35,317	26,692	--	23,479	--	--	--	--
1993	80,470	115,385	129,515	19,786	151,991	66,615	177,091	213,927	32,521	22,842	--	20,986	--	--	--	--
1994	93,714	115,909	161,572	25,150	169,355	73,972	202,538	227,256	27,868	27,164	--	23,283	--	--	--	--
1995	93,967	175,862	113,819	17,526	122,757	76,839	102,096	228,312	29,959	22,699	--	21,683	--	--	--	--
1996	101,387	189,286	130,517	26,471	184,286	85,557	206,970	212,601	29,252	21,748	--	22,883	--	--	--	--
1997	103,317	200,000	148,050	36,965	239,710	84,336	230,057	189,163	25,981	28,553	--	23,129	--	--	--	--
1998	99,404	186,207	141,065	37,647	238,416	84,262	231,439	171,891	29,932	27,189	--	22,306	--	--	--	--
1999	97,566	180,645	146,337	42,979	101,198	107,330	263,447	197,357	60,108	25,412	--	22,047	--	--	--	--
2000	102,169	203,448	160,106	44,351	104,953	111,391	274,727	203,757	63,535	26,644	--	22,703	--	--	--	--

TABLE A35. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 4 (CURRENT DOLLARS), 1958-2000

Year	(1) & (2) Agric	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal-Elec Generation	(16) Pet Exp/Ext	(17) Pet Refining
1958	9,793	16,363	6,000	2,130	10,446	13,464	18,232	26,751	5,184	4,534	--	2,366	--	--	--	--
1959	11,071	18,518	6,257	2,103	10,827	13,955	18,750	26,498	5,072	4,429	--	2,416	--	--	--	--
1960	10,739	19,607	8,124	1,835	11,181	14,591	18,131	26,852	4,876	4,260	--	2,205	--	--	--	--
1961	12,151	21,153	8,569	1,907	13,106	15,932	19,663	30,250	5,102	4,427	--	2,183	--	--	--	--
1962	10,499	24,444	8,517	1,846	16,283	14,724	22,559	35,487	5,539	5,241	--	2,279	--	--	--	--
1963	13,601	22,222	9,803	2,094	16,044	17,350	23,159	36,932	5,420	4,907	--	2,164	--	--	--	--
1964	13,817	23,529	12,765	2,668	19,754	17,951	27,660	45,142	6,161	6,008	--	2,487	--	--	--	--
1965	20,441	33,333	4,521	2,338	20,937	19,573	25,984	42,290	6,245	5,548	--	2,278	--	--	--	--
1966	19,514	30,188	5,977	2,584	20,465	18,233	25,426	43,507	6,949	5,337	--	2,314	--	--	--	--
1967	22,321	34,883	8,252	2,656	19,711	19,147	24,883	41,210	6,198	5,161	--	2,008	--	--	--	--
1968	21,984	44,444	14,660	3,009	22,580	18,931	26,852	45,907	6,287	6,181	--	1,985	--	--	--	--
1969	26,043	61,290	23,564	2,956	24,410	27,241	27,243	47,038	7,634	6,227	--	2,028	--	--	--	--
1970	36,296	120,754	118,229	5,509	31,842	25,136	41,041	74,621	11,479	8,845	--	3,182	--	--	--	--
1971	33,350	61,904	32,898	4,086	24,670	24,306	32,232	57,517	8,197	7,384	--	2,609	--	--	--	--
1972	45,310	74,468	34,300	4,460	31,569	27,041	38,897	72,835	10,506	8,598	--	3,201	--	--	--	--
1973	76,344	97,674	37,100	7,337	46,160	39,632	51,543	104,065	15,736	11,406	--	4,520	--	--	--	--
1974	90,798	82,812	50,026	8,535	37,039	49,006	64,081	122,389	12,877	15,351	--	5,231	--	--	--	--
1975	76,484	66,153	31,805	7,347	41,819	44,225	55,955	103,811	11,761	14,097	--	4,746	--	--	--	--
1976	66,707	65,625	23,350	8,706	48,609	59,885	56,576	90,027	11,660	14,647	--	4,811	--	--	--	--
1977	58,258	56,451	17,326	7,603	34,255	47,772	46,101	70,924	8,963	10,791	--	4,045	--	--	--	--
1978	71,729	81,250	17,414	7,910	37,034	49,793	51,089	76,916	10,076	11,682	--	4,500	--	--	--	--
1979	83,744	75,438	19,300	8,862	36,134	58,680	52,728	82,467	11,265	12,086	--	4,897	--	--	--	--
1980	97,540	135,897	29,697	13,425	44,639	76,394	65,199	92,751	13,328	13,140	--	5,678	--	--	--	--
1981	104,038	156,943	36,786	14,258	47,507	80,277	70,312	95,893	13,290	12,816	--	5,967	--	--	--	--
1982	109,056	69,432	33,209	9,885	55,576	67,212	69,326	90,821	14,341	11,784	--	5,556	--	--	--	--
1983	143,034	143,766	38,206	13,710	72,845	74,107	87,422	118,628	15,080	15,466	--	7,106	--	--	--	--
1984	127,874	102,688	42,882	12,261	68,926	76,074	80,268	116,441	12,520	14,821	--	6,696	--	--	--	--
1985	134,529	110,435	52,926	13,173	72,916	80,190	82,780	119,932	12,988	15,390	--	6,926	--	--	--	--
1986	142,516	108,046	48,083	11,235	69,525	78,007	85,877	114,678	13,355	15,561	--	6,975	--	--	--	--
1987	157,806	97,466	48,681	11,342	71,956	68,639	83,711	124,991	12,468	14,572	--	7,126	--	--	--	--
1988	204,969	126,358	65,315	12,392	79,633	77,142	97,157	144,792	14,236	16,268	--	8,247	--	--	--	--
1989	130,943	85,154	58,724	10,555	69,467	69,069	73,292	131,945	11,412	14,330	--	6,570	--	--	--	--
1990	155,523	101,147	64,977	10,645	82,485	72,795	81,233	140,930	11,235	15,635	--	7,507	--	--	--	--
1991	166,922	103,818	66,580	13,386	80,074	76,753	82,459	139,327	12,340	16,233	--	7,732	--	--	--	--
1992	182,843	123,625	75,877	13,312	104,653	83,078	87,566	149,130	12,977	17,116	--	8,743	--	--	--	--
1993	166,181	97,701	68,933	11,794	104,128	79,181	83,974	143,899	15,630	15,613	--	8,258	--	--	--	--
1994	173,261	92,857	62,311	14,074	98,375	78,693	90,884	147,362	15,948	16,446	--	8,811	--	--	--	--
1995	189,942	84,211	61,114	15,297	88,748	85,999	98,117	162,671	18,699	16,151	--	8,751	--	--	--	--
1996	203,009	93,333	58,250	14,645	104,182	87,640	102,681	166,531	21,005	16,664	--	9,198	--	--	--	--
1997	212,568	99,065	62,721	16,577	116,556	94,936	112,060	173,241	22,316	16,656	--	10,165	--	--	--	--
1998	234,791	98,230	62,485	17,760	121,466	100,859	118,553	167,764	25,188	16,662	--	10,378	--	--	--	--
1999	261,166	100,840	52,954	17,657	156,989	98,872	131,726	186,331	26,105	19,539	--	11,855	--	--	--	--
2000	265,355	109,821	56,999	18,049	159,965	102,570	134,770	188,762	27,139	20,178	--	11,993	--	--	--	--

TABLE A36. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 5 (CURRENT DOLLARS), 1958-2000

Year	(1) & (2) Agric	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal-Elec Generation	(16) Pet Exp/Ext	(17) Pet Refining
1958	9,301	28,888	4,577	984	7,222	11,238	15,341	14,049	3,243	4,351	--	2,673	--	--	--	--
1959	9,780	29,545	4,474	928	6,941	10,450	14,588	12,884	2,990	3,930	--	2,514	--	--	--	--
1960	9,481	24,489	4,765	906	5,990	10,441	12,456	10,835	2,559	3,248	--	2,262	--	--	--	--
1961	12,653	25,423	5,616	1,331	8,906	11,791	17,299	15,000	3,453	4,584	--	3,280	--	--	--	--
1962	9,172	22,033	3,981	1,236	7,927	9,627	14,795	12,332	2,863	4,080	--	2,867	--	--	--	--
1963	13,910	34,042	5,651	1,324	10,052	10,506	19,250	15,126	3,700	4,627	--	3,441	--	--	--	--
1964	12,936	41,025	6,589	1,124	10,573	9,915	19,698	14,432	3,803	4,534	--	3,357	--	--	--	--
1965	16,938	43,902	7,468	1,393	11,767	10,574	21,857	16,604	3,857	5,175	--	3,513	--	--	--	--
1966	20,009	30,645	9,733	1,721	12,209	11,564	25,692	17,821	4,404	5,677	--	2,977	--	--	--	--
1967	21,887	31,147	7,972	1,766	11,892	12,872	24,898	16,940	4,626	5,194	--	3,195	--	--	--	--
1968	21,690	30,158	7,095	1,780	12,122	13,425	24,311	17,075	5,179	5,019	--	3,559	--	--	--	--
1969	26,059	28,947	9,119	2,060	13,454	16,396	26,314	18,438	5,129	5,285	--	3,737	--	--	--	--
1970	31,419	41,071	8,701	1,860	16,211	17,510	27,164	19,014	5,003	5,061	--	3,957	--	--	--	--
1971	34,204	41,666	9,597	2,011	17,160	18,610	28,771	20,762	5,577	5,195	--	4,248	--	--	--	--
1972	44,985	70,731	9,522	2,712	20,751	20,163	32,408	24,472	6,047	5,657	--	5,164	--	--	--	--
1973	79,915	117,948	14,730	4,605	30,021	26,378	46,642	37,901	8,499	7,318	--	7,849	--	--	--	--
1974	85,926	181,481	14,208	6,456	26,085	27,157	43,525	42,371	9,259	7,540	--	8,328	--	--	--	--
1975	68,382	122,222	12,968	6,502	25,504	19,570	33,538	37,004	7,515	6,063	--	6,182	--	--	--	--
1976	69,684	111,111	7,998	5,303	24,988	25,134	33,422	31,208	7,265	6,149	--	6,410	--	--	--	--
1977	70,933	166,666	9,264	4,513	26,931	24,846	37,450	32,922	7,278	6,452	--	6,593	--	--	--	--
1978	86,756	144,444	9,960	3,664	32,270	25,645	42,320	36,420	8,326	7,463	--	7,257	--	--	--	--
1979	97,994	294,736	10,714	3,695	32,690	29,095	45,508	37,424	7,874	7,325	--	7,608	--	--	--	--
1980	107,610	206,451	15,068	3,706	35,711	31,301	51,406	38,298	8,651	8,077	--	8,667	--	--	--	--
1981	114,934	74,080	17,701	4,058	35,947	34,618	55,465	39,118	8,628	8,117	--	9,024	--	--	--	--
1982	104,045	196,933	14,598	5,145	33,090	30,896	51,716	37,497	8,012	6,776	--	8,218	--	--	--	--
1983	125,820	102,577	15,326	5,750	46,107	34,896	61,462	45,167	9,400	8,254	--	10,123	--	--	--	--
1984	119,644	111,477	19,503	5,606	44,238	32,687	57,525	39,307	8,928	7,861	--	10,024	--	--	--	--
1985	135,756	124,188	25,199	6,142	48,968	35,100	62,557	42,700	9,724	8,525	--	10,843	--	--	--	--
1986	123,721	102,125	20,274	4,822	48,210	35,719	52,220	40,966	8,317	7,534	--	9,670	--	--	--	--
1987	139,162	116,909	21,538	4,711	43,980	27,088	54,324	40,863	7,715	7,685	--	10,134	--	--	--	--
1988	164,655	147,983	23,402	5,054	40,950	38,606	59,970	48,439	8,616	8,144	--	11,149	--	--	--	--
1989	135,500	111,071	23,955	4,200	42,327	37,416	52,815	40,766	7,550	7,377	--	9,982	--	--	--	--
1990	152,206	128,388	24,582	4,615	43,837	37,255	56,295	44,351	8,889	7,389	--	10,834	--	--	--	--
1991	155,930	127,913	25,090	4,622	47,661	38,032	56,018	43,145	8,526	7,138	--	11,151	--	--	--	--
1992	164,471	174,833	26,250	5,045	52,157	40,230	63,622	45,380	8,638	7,466	--	11,095	--	--	--	--
1993	148,077	193,478	23,672	5,092	50,242	38,096	59,377	40,131	7,157	7,444	--	10,600	--	--	--	--
1994	169,716	192,308	22,561	4,802	51,504	38,624	65,028	44,062	7,644	8,103	--	11,888	--	--	--	--
1995	179,201	170,492	23,587	5,006	60,667	40,294	62,222	43,701	8,053	8,583	--	11,519	--	--	--	--
1996	215,347	156,757	21,112	5,641	70,851	43,519	73,384	43,334	8,369	9,188	--	12,899	--	--	--	--
1997	226,818	168,000	25,015	6,422	64,998	45,355	78,301	56,564	11,124	9,180	--	13,783	--	--	--	--
1998	222,836	163,291	24,873	7,015	70,388	48,828	82,126	54,411	19,782	9,257	--	14,175	--	--	--	--
1999	265,820	177,108	25,016	7,837	60,324	47,312	96,241	51,624	23,808	9,545	--	15,697	--	--	--	--
2000	265,343	189,873	26,696	7,946	61,255	48,919	97,743	51,780	25,335	9,776	--	15,752	--	--	--	--

TABLE A37. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 6 (CURRENT DOLLARS), 1958-2000

Year	(1) & (2) Agric	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal-Elec Generation	(16) Pet Exp/Ext	(17) Pet Refining
1958	10,421	300,000	10,510	3,846	22,607	34,804	27,303	49,212	7,285	6,504	--	4,317	--	--	--	--
1959	9,565	275,000	9,403	3,406	20,097	30,745	23,621	41,035	6,113	5,530	--	3,758	--	--	--	--
1960	9,334	550,000	11,544	3,346	19,614	29,242	23,043	39,247	5,658	5,225	--	3,849	--	--	--	--
1961	10,103	550,000	11,237	3,373	20,163	31,413	23,166	38,596	5,360	4,961	--	3,965	--	--	--	--
1962	11,559	--	10,445	3,762	22,653	30,965	27,284	43,027	5,846	5,332	--	4,506	--	--	--	--
1963	12,198	--	12,467	3,950	23,697	31,869	25,602	42,026	6,573	5,987	--	4,396	--	--	--	--
1964	12,594	--	14,400	4,148	24,564	33,638	24,156	40,418	7,708	6,960	--	4,294	--	--	--	--
1965	14,947	92,857	16,494	4,731	26,599	40,084	26,187	42,879	6,284	5,533	--	4,585	--	--	--	--
1966	17,596	350,000	19,590	4,469	25,362	39,583	29,224	50,731	7,247	6,430	--	5,291	--	--	--	--
1967	18,955	375,000	20,376	4,460	24,549	37,026	30,138	48,372	7,135	6,091	--	4,870	--	--	--	--
1968	20,591	400,000	22,763	4,924	25,910	33,775	33,294	52,067	7,786	6,278	--	4,827	--	--	--	--
1969	22,624	566,666	20,730	5,150	28,687	39,567	36,749	58,502	8,318	6,805	--	5,210	--	--	--	--
1970	26,450	950,000	27,497	5,758	34,741	43,398	38,440	63,355	9,218	7,524	--	5,759	--	--	--	--
1971	29,050	150,000	23,061	6,072	37,209	42,894	41,573	64,231	9,519	7,867	--	6,254	--	--	--	--
1972	37,124	109,523	20,247	7,647	45,085	44,464	47,142	71,687	10,895	9,127	--	7,532	--	--	--	--
1973	50,218	138,095	27,315	11,389	67,027	51,109	62,742	96,264	12,158	11,436	--	10,054	--	--	--	--
1974	60,916	200,000	33,707	12,842	75,206	56,649	85,714	116,875	14,379	12,327	--	12,215	--	--	--	--
1975	60,809	188,888	27,534	13,439	80,294	49,093	76,461	46,639	14,467	12,060	--	10,959	--	--	--	--
1976	48,644	172,222	25,554	10,707	61,285	52,130	62,635	88,759	14,569	10,727	--	9,274	--	--	--	--
1977	46,160	160,000	26,066	11,224	65,031	47,218	65,018	89,066	13,556	11,226	--	9,447	--	--	--	--
1978	59,933	111,111	28,695	12,274	71,348	52,335	82,060	99,342	16,394	12,507	--	11,111	--	--	--	--
1979	73,283	121,052	32,450	13,043	71,481	59,714	89,951	111,267	16,791	12,917	--	12,427	--	--	--	--
1980	66,858	169,230	30,230	12,733	72,503	61,895	91,932	105,888	19,991	12,664	--	13,229	--	--	--	--
1981	87,913	151,278	56,567	17,381	93,174	71,527	114,547	126,580	23,079	14,547	--	16,515	--	--	--	--
1982	86,988	143,216	50,093	17,465	97,461	72,643	114,935	127,319	21,365	13,898	--	18,144	--	--	--	--
1983	90,071	121,447	44,090	19,348	116,084	79,168	122,155	143,082	25,946	15,687	--	19,623	--	--	--	--
1984	92,466	114,404	65,878	20,290	119,215	84,572	127,403	158,826	27,745	15,938	--	20,293	--	--	--	--
1985	93,677	117,765	79,243	20,429	121,913	87,782	126,973	158,002	27,986	16,029	--	20,286	--	--	--	--
1986	86,599	129,000	74,361	15,839	105,079	78,825	122,571	138,141	20,945	15,984	--	18,611	--	--	--	--
1987	89,912	96,267	79,681	16,650	122,892	84,097	127,746	141,782	20,965	16,150	--	19,435	--	--	--	--
1988	91,719	109,370	96,070	14,843	100,924	89,753	126,262	161,669	18,722	16,201	--	19,635	--	--	--	--
1989	78,819	95,893	98,517	13,083	88,867	83,850	121,008	146,594	16,493	13,513	--	18,263	--	--	--	--
1990	105,336	99,868	109,299	17,104	132,510	113,035	157,881	186,151	24,466	16,008	--	22,933	--	--	--	--
1991	101,436	95,057	112,103	17,303	125,705	88,968	150,254	170,751	23,269	14,938	--	23,058	--	--	--	--
1992	115,284	123,000	122,450	19,921	131,007	100,904	158,951	188,816	24,734	15,583	--	25,059	--	--	--	--
1993	110,601	90,000	105,804	20,436	93,470	95,175	158,681	168,612	24,317	14,995	--	24,638	--	--	--	--
1994	111,599	91,358	110,497	17,476	138,207	93,868	171,387	181,648	25,481	15,176	--	25,640	--	--	--	--
1995	111,229	91,358	113,229	17,952	156,347	96,883	169,343	194,655	29,234	15,229	--	24,545	--	--	--	--
1996	128,465	122,727	99,720	21,397	163,557	103,242	189,765	195,591	27,738	18,857	--	27,862	--	--	--	--
1997	128,179	120,290	123,446	26,812	173,284	94,815	201,204	163,433	35,119	18,395	--	27,988	--	--	--	--
1998	132,045	119,444	123,362	28,624	181,777	97,059	214,200	158,118	42,411	18,512	--	28,628	--	--	--	--
1999	129,247	111,538	119,208	25,426	217,657	93,698	218,576	170,093	46,986	18,423	--	29,950	--	--	--	--
2000	146,446	131,944	136,120	27,565	236,034	99,087	237,819	185,087	51,820	20,158	--	32,392	--	--	--	--

TABLE A38. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 7 (CURRENT DOLLARS), 1958-2000

(1) & (2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	
Year	Agric	Nonmetallic Mining	Const	Trans	Comm & Pub Util	Ag Proc & Misc Mfg	Retail Trade	FIRE	Bus & Pers Service	Prof & Soc Service	Households	Govt	Coal Mining	Thermal-Elec Generation	Pet Exp/Ext	Pet Refining
1958	9,816	--	7,528	1,880	11,211	26,489	22,204	32,361	5,791	4,064	--	2,783	3,428	--	5,174	126,384
1959	8,712	--	7,020	1,591	9,902	23,424	18,878	26,736	4,817	3,414	--	2,376	2,840	--	5,317	128,187
1960	8,439	--	8,791	1,675	10,089	22,451	19,167	26,923	4,777	3,456	--	2,537	3,508	--	8,620	131,560
1961	7,766	--	7,629	1,715	9,519	23,753	16,762	23,350	4,079	3,059	--	2,326	4,790	--	10,942	140,601
1962	10,960	--	8,030	2,370	13,193	24,481	25,253	33,539	5,843	4,130	--	3,340	5,555	--	18,274	147,619
1963	11,119	--	9,160	2,883	12,622	26,226	23,632	31,698	5,200	3,761	--	3,143	4,819	--	29,661	153,305
1964	11,821	--	11,338	3,966	13,607	29,586	25,004	33,448	5,254	3,969	--	3,366	6,586	--	69,230	163,362
1965	14,230	--	9,285	4,304	11,928	24,012	26,342	34,459	5,843	4,428	--	3,394	7,926	--	73,076	180,180
1966	17,120	--	14,678	3,232	13,765	29,171	29,770	40,749	6,532	4,995	--	3,945	10,326	23,404	55,555	189,639
1967	17,921	--	14,323	2,971	12,749	27,908	29,037	36,255	6,148	4,632	--	3,528	15,656	43,298	38,888	199,095
1968	19,275	--	15,425	2,972	13,378	26,360	31,431	37,798	6,588	4,866	--	3,502	19,431	63,730	28,767	209,433
1969	22,136	--	15,940	3,298	13,950	34,862	35,534	41,050	6,974	5,416	--	3,863	19,902	59,693	16,996	220,588
1970	25,989	--	13,109	3,608	15,393	36,730	36,133	43,213	6,868	5,654	--	4,248	22,869	61,061	26,993	260,795
1971	28,056	--	16,716	3,850	16,795	40,554	36,666	48,868	7,302	6,173	--	4,654	24,096	74,468	27,439	282,738
1972	36,367	--	15,840	5,497	19,583	40,556	43,093	59,318	7,788	6,913	--	5,710	23,863	84,584	42,477	313,664
1973	50,371	--	16,516	6,410	27,189	54,356	52,429	62,704	9,154	9,388	--	7,235	24,908	73,384	58,695	343,975
1974	48,867	388,888	13,940	3,517	39,948	47,590	52,147	57,492	10,022	8,108	--	7,337	31,600	75,932	52,459	427,848
1975	54,472	444,444	15,917	3,575	29,306	44,659	52,933	81,544	10,133	7,891	--	7,237	27,814	66,237	51,079	477,564
1976	50,401	216,666	13,412	4,069	31,433	56,118	49,531	63,482	9,977	7,443	--	6,970	36,479	116,616	54,609	521,935
1977	40,307	222,222	12,282	4,554	31,268	48,395	47,614	56,174	9,624	7,754	--	6,745	37,500	138,208	54,901	572,549
1978	53,596	383,333	12,507	7,117	27,333	51,106	52,768	72,086	10,592	8,229	--	7,469	40,484	193,491	47,619	609,032
1979	66,059	317,526	17,673	7,046	31,158	57,488	59,525	71,565	10,568	9,954	--	9,102	53,868	267,055	87,057	935,884
1980	70,463	515,615	22,930	8,436	31,199	71,439	62,876	77,260	10,356	10,631	--	9,079	83,756	335,474	166,644	1,449,918
1981	75,651	--	24,605	9,925	33,081	71,038	76,144	85,180	12,527	11,096	--	10,632	76,294	303,448	224,080	2,507,074
1982	71,026	--	22,310	10,371	30,968	71,348	73,876	81,899	11,429	10,051	--	9,913	70,717	292,419	127,333	2,323,111
1983	76,692	--	25,700	10,972	34,615	73,365	80,662	91,015	11,547	10,696	--	11,048	90,376	328,428	69,321	2,113,952
1984	78,669	--	33,303	9,492	36,619	76,446	77,359	100,392	10,577	10,556	--	11,632	98,496	350,310	159,485	2,005,741
1985	86,373	--	40,465	9,888	38,635	81,729	80,174	104,080	11,040	10,832	--	11,998	156,459	383,431	157,451	1,840,832
1986	81,721	--	56,000	10,816	37,324	82,782	83,812	104,867	10,894	10,612	--	11,546	173,577	378,148	152,444	1,427,961
1987	87,461	--	48,413	11,933	42,974	100,529	90,012	119,616	13,565	11,261	--	12,572	213,176	697,343	141,106	1,494,226
1988	82,456	--	61,328	13,199	47,437	101,700	86,154	112,257	12,706	10,985	--	12,345	236,121	725,860	149,071	1,407,079
1989	70,496	--	48,048	10,763	44,506	88,214	82,841	117,636	10,899	10,656	--	11,865	262,943	662,052	183,564	1,419,742
1990	87,545	--	58,479	12,288	45,340	90,214	89,976	136,670	11,621	11,251	--	13,147	268,459	652,581	161,072	1,652,575
1991	86,321	--	55,545	10,518	45,002	95,860	92,714	123,675	12,794	11,587	--	13,272	261,376	659,091	144,530	1,441,008
1992	98,969	--	55,302	10,861	48,715	96,409	103,587	143,156	14,200	11,713	--	14,269	266,556	705,889	152,760	1,315,542
1993	107,504	876,923	52,380	10,115	49,256	101,209	103,978	148,035	14,735	11,723	--	14,773	275,803	715,049	162,312	1,193,993
1994	100,657	753,333	54,167	11,170	44,589	114,220	100,337	136,580	14,317	12,609	--	14,869	273,791	710,980	164,516	1,101,375
1995	102,645	780,000	51,937	12,915	45,258	107,363	105,061	152,567	15,813	12,073	--	14,169	268,108	688,030	160,204	1,084,158
1996	109,100	800,000	52,162	13,167	44,494	109,493	108,807	157,935	19,174	12,043	--	15,227	295,265	716,410	165,115	1,240,514
1997	121,772	578,261	54,475	13,839	52,342	108,041	123,783	122,279	17,950	13,021	--	16,151	257,283	688,889	148,333	1,154,180
1998	124,625	566,667	54,092	14,595	54,845	111,436	129,729	117,792	24,959	13,003	--	16,428	256,046	710,759	139,648	990,746
1999	134,521	561,538	60,727	14,950	74,018	135,064	142,003	126,946	27,130	13,502	--	17,216	237,708	681,019	235,000	1,148,105
2000	140,788	650,000	68,374	16,229	79,012	140,725	151,128	135,910	29,125	14,577	--	18,319	260,893	803,515	292,708	1,716,035

TABLE A39. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 8 (CURRENT DOLLARS), 1958-2000

Year	(1)&(2) Agric	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal-Elec Generation	(16) Pet Exp/Ext	(17) Pet Refining
1958	11,174	42,857	11,538	3,448	20,172	41,149	25,144	65,284	8,166	7,327	--	4,400	6,666	--	8,108	--
1959	9,438	35,714	9,475	2,730	16,384	36,592	19,615	50,000	6,204	5,725	--	3,473	6,666	--	7,619	--
1960	8,739	55,555	10,526	2,787	15,850	31,111	19,158	44,090	6,131	5,505	--	3,489	6,521	--	14,606	--
1961	8,896	100,000	9,302	2,941	16,513	32,321	18,771	40,174	5,676	5,329	--	3,512	6,122	--	23,584	--
1962	10,750	--	8,774	3,831	20,496	30,778	24,866	47,325	7,342	6,463	--	4,408	8,163	--	38,834	--
1963	13,339	--	12,401	4,526	25,838	33,073	28,934	58,874	8,567	7,662	--	5,206	6,976	--	44,117	--
1964	12,251	--	13,220	4,424	25,182	30,990	25,326	54,298	7,807	7,104	--	4,737	8,108	--	38,260	--
1965	14,850	--	16,697	4,878	25,396	38,084	28,462	51,301	8,603	7,653	--	5,240	6,666	--	50,000	--
1966	18,899	--	24,878	5,836	29,268	36,852	32,877	57,191	9,752	8,721	--	6,559	5,555	--	62,500	--
1967	21,520	--	24,434	6,130	30,447	40,234	34,917	55,732	9,090	7,801	--	6,516	6,250	--	86,428	--
1968	19,650	--	23,566	6,130	29,376	45,506	32,407	50,000	7,952	6,537	--	5,794	10,344	--	130,069	--
1969	21,339	--	24,230	6,538	33,134	61,538	34,129	59,740	9,119	7,783	--	6,666	7,407	--	120,454	--
1970	26,509	--	25,321	6,985	37,878	51,701	35,261	82,071	10,049	8,435	--	8,163	12,000	--	251,351	--
1971	28,525	--	29,489	7,600	40,655	50,443	42,047	67,763	9,340	7,755	--	8,268	8,571	--	272,881	--
1972	39,137	--	25,039	10,000	51,485	59,813	52,765	85,760	11,367	9,730	--	10,415	11,428	--	250,000	--
1973	58,598	--	30,441	13,360	71,428	67,778	72,200	127,062	16,459	13,135	--	14,961	11,428	--	292,647	--
1974	68,087	--	48,793	16,733	85,804	73,223	86,572	142,514	16,746	14,748	--	17,881	11,627	--	516,250	--
1975	52,570	--	42,195	12,457	72,012	60,403	68,355	124,671	12,097	13,184	--	13,870	27,777	--	311,320	--
1976	45,652	--	34,293	16,450	65,449	66,473	62,999	97,662	13,398	12,355	--	12,997	97,500	--	363,690	5,263
1977	38,919	--	28,283	13,245	58,603	73,174	58,389	87,980	14,415	10,683	--	12,527	90,322	--	192,857	4,761
1978	48,141	--	33,424	16,608	76,344	70,156	69,722	97,173	14,383	13,167	--	13,943	94,680	--	176,200	9,523
1979	59,448	--	36,952	22,212	91,428	69,198	72,913	89,821	16,056	15,430	--	17,026	124,980	--	172,119	9,682
1980	55,679	99,974	56,984	24,469	113,629	80,699	73,841	124,812	15,353	17,523	--	18,851	80,881	--	193,951	13,455
1981	62,320	--	88,279	40,924	159,136	80,456	108,563	159,673	15,754	21,979	--	27,637	83,958	--	290,885	12,913
1982	67,813	--	65,820	30,699	127,399	77,049	93,048	134,522	12,362	20,452	--	25,331	55,267	--	409,703	--
1983	77,681	--	73,573	35,281	142,619	87,559	105,412	140,155	15,254	18,434	--	25,322	51,000	--	552,693	--
1984	81,608	--	87,504	40,036	126,378	99,965	112,222	139,582	13,823	20,421	--	24,739	57,721	--	384,294	--
1985	81,772	--	96,444	36,165	123,918	104,138	110,958	138,139	13,824	20,576	--	24,518	75,768	--	347,868	--
1986	78,070	--	88,691	26,853	85,191	104,968	96,591	114,587	15,985	15,607	--	18,629	64,427	--	333,611	--
1987	77,374	--	93,012	26,595	96,341	116,950	102,126	141,674	17,271	15,969	--	20,127	74,027	--	515,830	--
1988	67,205	--	91,273	23,829	84,415	113,431	91,239	118,840	15,194	13,085	--	16,926	45,718	--	359,898	--
1989	86,175	--	112,311	27,880	102,240	113,748	118,385	157,276	18,946	16,155	--	21,313	84,590	--	427,202	--
1990	71,437	--	106,210	22,607	146,145	108,677	113,191	150,937	16,735	15,942	--	19,464	96,794	--	421,279	--
1991	71,231	--	119,953	22,401	129,783	107,066	103,912	173,615	18,220	15,177	--	19,853	111,020	--	394,401	--
1992	95,573	188,375	129,313	27,856	123,426	123,004	116,945	170,307	22,375	17,522	--	22,324	86,659	--	390,663	--
1993	106,686	235,000	126,726	26,247	121,557	118,236	131,520	191,903	24,864	19,195	--	24,381	89,823	--	289,689	--
1994	93,400	195,455	106,807	23,058	108,952	110,825	121,217	171,289	18,999	18,024	--	22,619	94,783	--	276,080	--
1995	99,276	208,696	130,221	30,312	121,942	121,466	143,983	185,519	28,128	17,815	--	23,527	88,085	--	335,021	--
1996	106,586	250,000	119,815	41,563	129,295	127,972	144,563	203,929	30,466	18,017	--	26,075	10,667	--	450,528	--
1997	99,957	260,870	129,875	30,612	238,485	121,109	156,519	199,102	32,207	20,718	--	27,464	--	--	514,000	--
1998	97,000	220,833	105,091	25,826	219,207	122,065	154,268	176,570	38,614	19,141	--	25,671	--	--	347,882	--
1999	104,715	230,769	117,351	36,318	182,207	129,459	174,641	209,024	36,200	22,558	--	27,609	--	--	621,963	--
2000	118,860	300,000	152,195	45,320	212,667	137,625	196,441	236,957	39,645	25,950	--	31,266	--	--	765,789	--

APPENDIX B

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Year	Ag Livestock	Ag Crops	Constr	Ag Proc Misc Mnfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Coal Conversion	Pet Extr Explor	Pet Refining	Total
1958	50.9	80.1	4.0	13.4	4.5	1.5	28.7	0.5	0.0	87.0	23.7	294.3
1959	47.9	70.5	5.4	11.3	4.9	1.5	31.3	0.5	0.0	101.3	23.0	297.5
1960	38.6	92.6	6.8	12.5	3.9	1.4	35.2	0.5	0.0	123.0	22.2	336.7
1961	47.7	50.1	5.2	11.9	4.8	1.4	36.3	1.0	0.0	126.4	21.9	306.8
1962	43.3	133.7	3.3	10.4	4.7	1.4	44.7	0.9	0.0	142.2	21.7	406.3
1963	47.0	168.5	3.7	11.2	5.6	1.9	45.6	0.5	0.0	152.2	20.9	457.0
1964	50.0	111.0	6.0	11.9	6.9	2.3	58.7	0.5	0.0	166.5	20.2	433.9
1965	59.4	119.7	6.3	11.7	8.1	2.7	49.5	0.0	0.0	169.2	20.7	447.3
1966	62.6	144.0	4.4	12.3	10.9	3.5	54.7	0.0	0.0	169.8	20.1	482.3
1967	62.8	119.7	4.7	13.2	12.7	4.2	51.0	0.0	0.0	141.8	19.5	429.7
1968	56.6	107.4	4.9	13.4	15.5	5.3	55.8	0.0	0.0	135.9	18.7	413.5
1969	53.5	155.2	5.8	20.9	16.3	5.4	81.5	0.0	0.0	109.4	18.2	466.3
1970	55.2	141.1	2.6	18.0	17.3	5.9	69.6	0.0	0.0	106.4	18.8	435.0
1971	62.8	119.3	2.5	18.9	18.2	6.0	80.7	0.0	0.0	109.8	20.0	438.1
1972	72.3	200.5	8.4	18.8	15.8	5.4	76.7	0.0	0.0	105.3	20.2	523.4
1973	85.4	367.0	1.0	25.5	16.6	5.4	81.6	0.0	0.0	105.8	21.7	709.8
1974	68.4	374.2	3.2	29.5	14.9	5.0	79.8	0.0	0.0	210.5	24.0	809.4
1975	64.2	227.3	2.4	27.3	16.6	5.6	82.9	0.0	0.0	192.8	24.1	643.0
1976	65.3	178.6	5.1	39.2	18.7	6.3	77.9	0.0	0.0	219.6	24.3	635.1
1977	62.8	120.3	6.4	32.1	18.8	6.2	85.6	0.0	0.0	232.8	24.5	589.4
1978	65.5	176.7	8.0	32.0	20.2	6.7	83.4	0.0	0.0	241.5	24.0	657.8
1979	84.2	144.6	4.9	35.4	16.6	5.5	227.6	0.0	0.0	303.4	30.7	853.1
1980	84.4	152.4	9.9	34.9	14.8	4.9	293.3	0.4	0.0	471.2	42.2	1,108.5
1981	53.2	179.3	6.4	35.0	15.1	5.0	379.3	0.2	0.0	884.3	67.6	1,625.4
1982	49.8	160.6	4.2	28.1	14.9	5.0	242.5	0.2	0.0	823.6	58.5	1,387.3
1983	53.9	170.2	5.6	27.7	16.8	5.6	184.9	0.2	0.0	890.4	52.4	1,407.6
1984	53.2	85.1	7.6	28.5	14.5	4.8	192.8	0.2	0.0	977.4	49.0	1,413.1
1985	49.7	75.0	6.8	28.0	15.3	5.1	163.0	0.4	0.0	927.2	44.2	1,314.6
1986	46.8	156.8	6.3	27.7	15.2	5.1	156.8	0.1	0.0	416.0	34.5	865.3
1987	53.4	138.5	5.2	27.9	15.7	5.2	151.5	0.1	0.0	497.5	36.3	931.4
1988	57.8	119.4	5.9	28.8	16.1	5.3	146.8	0.3	0.0	361.9	35.8	778.2
1989	41.8	83.4	4.6	29.2	16.7	5.5	156.8	0.1	0.0	410.7	40.8	789.7
1990	53.8	100.5	5.7	28.6	17.9	5.9	163.5	0.1	0.0	448.7	48.0	872.7
1991	45.7	116.0	6.2	28.9	19.1	6.3	157.4	0.1	0.0	347.2	41.4	768.4
1992	50.9	151.0	7.2	30.4	21.0	7.0	159.8	0.1	0.0	302.8	38.9	769.2
1993	43.2	211.7	6.5	30.4	25.1	8.4	159.7	0.1	0.0	256.6	37.2	778.8
1994	36.0	167.7	6.2	33.6	29.3	9.8	166.8	0.1	0.0	215.7	33.8	699.0
1995	29.1	168.6	7.5	36.7	36.4	12.1	163.8	0.1	0.0	213.3	33.7	701.4
1996	29.4	159.9	5.2	39.0	46.9	15.6	165.0	0.1	0.0	231.4	39.6	732.2
1997	34.4	146.8	7.5	42.2	61.1	20.4	172.1	0.1	0.0	199.7	37.0	721.2
1998	28.7	134.3	8.0	45.1	81.5	29.8	154.2	0.1	0.0	122.0	32.0	635.7
1999	38.0	157.5	9.3	46.1	110.4	47.0	159.8	0.1	0.0	155.9	38.3	762.5
2000	40.9	136.4	9.6	47.9	116.7	50.2	189.3	0.1	0.0	265.9	58.1	915.1

TABLE B2. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 2, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000

Year	Ag Livestock	Ag Crops	Constr	Ag Proc Misc Mnfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Coal Conversion	Pet Extr Explor	Pet Refining	Total
1958	119.7	231.9	10.9	38.6	12.4	4.5	154.8	0.0	0.0	36.1	0.0	608.8
1959	112.0	245.1	16.1	36.2	13.7	4.4	142.4	0.0	0.0	61.2	0.0	631.1
1960	90.7	255.7	18.8	42.5	11.1	3.9	159.2	0.0	0.0	81.0	0.0	662.8
1961	111.2	110.7	13.8	44.4	12.9	4.3	186.5	0.0	0.0	99.7	0.0	583.5
1962	101.2	402.1	9.4	41.9	13.7	4.7	371.5	0.0	0.0	102.2	0.0	1,046.6
1963	104.2	414.1	9.8	49.3	15.8	5.1	324.3	0.0	0.0	100.5	0.0	1,023.3
1964	106.9	342.7	16.5	51.8	18.3	6.4	569.3	0.0	0.0	110.1	0.0	1,222.0
1965	122.4	351.9	16.7	50.9	23.0	7.7	319.5	0.0	0.0	114.3	0.0	1,006.3
1966	124.3	419.3	12.3	53.0	30.2	10.1	401.8	0.0	0.0	103.3	0.0	1,154.0
1967	127.0	278.6	12.3	57.3	35.7	11.9	292.1	0.0	0.0	91.3	0.0	906.2
1968	106.6	295.1	13.0	59.8	43.5	14.7	362.2	0.0	0.0	87.5	0.0	982.5
1969	100.9	371.6	8.1	90.4	45.4	15.1	398.0	0.0	0.0	77.6	0.0	1,107.1
1970	103.5	347.0	10.7	78.5	48.6	16.2	477.0	0.0	0.0	79.2	0.0	1,160.6
1971	124.5	321.6	17.5	81.7	50.5	16.8	460.9	0.0	0.0	85.6	0.0	1,159.2
1972	133.5	449.4	14.1	82.4	44.7	14.8	405.0	0.0	0.0	86.8	0.0	1,230.7
1973	156.7	991.7	22.3	111.2	46.5	15.6	467.3	0.0	0.0	81.6	0.0	1,893.0
1974	132.1	879.3	16.7	128.0	41.8	14.0	520.3	0.0	0.0	140.0	0.0	1,872.3
1975	125.4	552.4	14.4	117.9	46.3	15.5	794.9	0.0	0.0	124.3	0.0	1,791.2
1976	133.9	388.7	4.6	170.0	52.4	17.5	501.8	0.0	0.0	138.9	0.0	1,407.6
1977	129.1	313.6	27.1	139.6	50.2	17.6	506.7	0.0	0.0	121.3	0.0	1,305.0
1978	130.9	463.2	37.9	139.1	56.4	18.9	502.4	0.0	0.0	109.4	0.0	1,458.3
1979	153.2	363.5	31.3	154.3	46.5	15.6	584.9	0.0	0.0	127.2	0.0	1,476.5
1980	150.9	415.5	23.3	151.6	41.8	14.1	656.2	0.0	0.0	187.8	0.0	1,641.2
1981	108.5	544.4	22.5	152.1	42.4	14.2	743.4	0.0	0.0	332.9	0.0	1,960.4
1982	101.1	495.7	15.0	122.3	41.5	13.9	550.0	0.0	0.0	305.1	0.0	1,644.7
1983	109.6	503.3	20.5	120.0	47.1	15.7	601.2	0.0	0.0	274.6	0.0	1,692.0
1984	108.5	387.8	27.7	123.3	40.8	13.6	637.7	0.0	0.0	264.9	0.0	1,604.3
1985	103.4	492.6	24.7	122.0	42.6	14.1	626.5	0.0	0.0	227.3	0.0	1,653.3
1986	96.5	438.6	22.9	120.1	42.5	14.1	632.3	0.0	0.0	105.6	0.0	1,472.6
1987	110.2	296.6	18.6	121.1	44.0	14.6	623.9	0.0	0.0	124.7	0.0	1,353.9
1988	116.9	368.9	21.0	125.5	45.1	15.1	627.8	0.0	0.0	121.4	0.0	1,441.6
1989	82.0	268.9	16.7	126.9	46.9	15.7	683.3	0.0	0.0	155.0	0.0	1,395.4
1990	108.0	348.6	20.5	124.4	50.1	16.7	719.5	0.0	0.0	194.4	0.0	1,582.2
1991	87.3	323.8	22.4	125.4	53.4	17.8	703.9	0.0	0.0	141.7	0.0	1,475.6
1992	88.8	393.8	26.2	132.2	58.6	19.6	738.9	0.0	0.0	116.7	0.0	1,574.8
1993	76.4	542.2	23.6	132.2	70.3	23.5	746.8	0.0	0.0	91.0	0.0	1,705.9
1994	66.1	470.9	22.3	145.8	82.2	27.4	795.7	0.0	0.0	77.8	0.0	1,688.2
1995	63.4	455.2	27.1	159.2	102.1	34.0	775.3	0.0	0.0	86.4	0.0	1,702.8
1996	57.8	451.6	18.9	169.5	131.2	43.8	769.0	0.0	0.0	101.9	0.0	1,743.7
1997	64.2	403.2	27.1	183.1	171.1	57.1	844.0	0.0	0.0	95.2	0.0	1,845.0
1998	61.5	373.2	28.9	195.9	228.2	131.6	761.4	0.0	0.0	59.0	0.0	1,839.8
1999	74.3	260.6	33.7	200.0	309.2	184.9	755.8	0.0	0.0	73.8	0.0	1,892.3
2000	73.3	343.3	34.7	208.2	326.8	185.2	800.6	0.0	0.0	114.2	0.0	2,086.3

B3. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 3, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000

Year	Ag Livestock	Ag Crops	Constr	Ag Proc Misc Mnfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Coal Conversion	Pet Extr Explor	Pet Refining	Total
1958	82.1	289.3	8.9	16.3	6.9	2.5	56.9	0.0	0.0	0.0	0.0	462.9
1959	78.3	284.7	13.2	13.7	7.8	2.4	65.1	0.0	0.0	0.0	0.0	465.3
1960	63.2	204.5	15.9	14.5	6.3	1.9	73.3	0.0	0.0	0.0	0.0	379.6
1961	76.3	223.8	11.5	13.8	7.2	2.4	73.5	0.0	0.0	0.0	0.0	408.4
1962	71.1	354.5	8.0	11.8	7.5	2.4	75.8	0.0	0.0	0.0	0.0	531.1
1963	71.2	349.5	7.9	12.6	8.8	2.8	82.4	0.0	0.0	0.0	0.0	535.1
1964	67.9	301.8	13.8	13.3	10.6	3.7	91.3	0.0	0.0	0.0	0.0	502.3
1965	77.0	300.2	14.0	13.1	12.6	4.1	93.2	0.0	0.0	0.0	0.0	514.0
1966	76.1	331.7	10.1	13.6	17.1	5.7	98.5	0.0	0.0	0.0	0.0	552.7
1967	76.0	330.8	10.2	14.4	20.0	6.8	100.2	0.0	0.0	0.0	0.0	558.4
1968	66.3	320.3	11.0	15.1	24.4	8.1	104.2	0.0	0.0	0.0	0.0	549.5
1969	61.7	314.2	3.5	23.3	25.2	8.5	131.1	0.0	0.0	0.0	0.0	567.5
1970	59.3	290.2	3.3	20.3	27.3	9.2	173.1	0.0	0.0	0.0	0.0	582.7
1971	61.7	298.5	15.1	21.0	28.4	9.5	168.7	0.0	0.0	0.0	0.0	602.9
1972	71.0	385.5	17.5	21.2	24.9	8.4	206.9	0.0	0.0	0.0	0.0	735.3
1973	82.5	704.7	19.8	28.7	26.1	8.6	186.7	0.0	0.0	0.0	0.0	1,057.0
1974	70.7	669.7	12.3	33.0	23.4	7.9	239.1	0.0	0.0	0.0	0.0	1,056.1
1975	66.3	579.4	13.6	30.2	25.9	8.6	260.2	0.0	0.0	0.0	0.0	984.2
1976	65.0	383.1	9.4	43.8	29.1	9.6	286.4	0.0	0.0	0.0	0.0	826.4
1977	59.0	330.2	5.7	35.9	29.2	9.7	271.3	0.0	0.0	0.0	0.0	741.1
1978	59.9	403.9	10.4	35.7	31.5	10.4	266.8	0.0	0.0	0.0	0.0	818.7
1979	71.3	467.5	7.0	39.7	26.0	8.6	246.3	0.0	0.0	0.0	0.0	866.4
1980	72.4	454.1	35.7	39.0	23.3	7.7	253.3	0.0	0.0	0.0	0.0	885.5
1981	51.7	511.4	11.3	39.1	23.7	7.9	239.4	0.0	0.0	0.0	0.0	884.5
1982	49.0	494.7	7.6	31.5	23.3	7.8	214.3	0.0	0.0	0.0	0.0	828.1
1983	51.7	465.4	10.4	30.9	26.3	8.7	283.0	0.0	0.0	0.0	0.0	876.5
1984	50.6	414.0	14.1	31.8	22.8	7.6	300.6	0.0	0.0	0.0	0.0	841.5
1985	49.0	483.6	12.5	31.4	23.7	7.8	312.0	0.0	0.0	0.0	0.0	920.0
1986	46.3	352.6	11.5	30.8	23.7	8.0	317.2	0.0	0.0	0.0	0.0	790.2
1987	53.0	370.2	9.4	31.2	24.6	8.1	314.4	0.0	0.0	0.0	0.0	810.8
1988	54.9	409.2	10.7	32.3	25.2	8.4	313.2	0.0	0.0	0.0	0.0	853.9
1989	40.9	311.0	8.4	32.7	26.2	8.7	339.1	0.0	0.0	0.0	0.0	766.9
1990	48.9	248.6	10.4	32.0	28.0	9.4	353.0	0.0	0.0	0.0	0.0	819.8
1991	40.7	356.0	11.3	32.2	29.8	9.9	349.5	0.0	0.0	0.0	0.0	829.5
1992	44.3	385.9	13.3	34.0	32.8	11.0	372.5	0.0	0.0	0.0	0.0	896.0
1993	41.1	282.5	11.9	34.0	39.3	13.0	379.6	0.0	0.0	0.0	0.0	801.4
1994	33.6	336.0	11.3	37.6	45.8	15.3	408.4	0.0	0.0	0.0	0.0	887.8
1995	30.3	324.7	13.7	40.9	57.0	19.0	394.4	0.0	0.0	0.0	0.0	880.1
1996	25.5	348.4	9.5	43.6	73.3	24.4	387.4	0.0	0.0	0.0	0.0	912.1
1997	27.6	306.7	13.7	47.1	95.7	31.9	432.8	0.0	0.0	0.0	0.0	955.5
1998	25.1	281.1	14.6	50.4	127.5	52.2	391.2	0.0	0.0	0.0	0.0	942.0
1999	27.2	254.9	17.1	51.5	172.7	72.2	382.9	0.0	0.0	0.0	0.0	978.4
2000	26.9	256.5	17.6	53.6	182.5	76.8	395.7	0.0	0.0	0.0	0.0	1,009.6

B4. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 4, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000

Year	Ag Livestock	Ag Crops	Constr	Ag Proc Misc Mnfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Coal Conversion	Pet Extr Explor	Pet Refining	Total
1958	57.9	348.2	15.3	29.7	11.4	4.0	181.5	0.0	0.0	0.0	0.0	647.9
1959	55.8	378.7	22.5	31.8	12.2	3.9	173.2	0.0	0.0	0.0	0.0	678.1
1960	46.3	347.3	26.5	42.0	10.1	3.4	193.4	0.0	0.0	0.0	0.0	669.1
1961	53.0	365.9	19.1	45.8	11.5	3.8	221.4	0.0	0.0	0.0	0.0	720.4
1962	49.4	283.4	13.2	47.1	12.2	4.2	406.8	0.0	0.0	0.0	0.0	816.4
1963	48.9	363.4	13.5	63.3	14.0	4.7	363.0	0.0	0.0	0.0	0.0	870.6
1964	46.8	315.1	23.4	67.0	16.5	5.5	610.6	0.0	0.0	0.0	0.0	1084.9
1965	51.3	515.8	23.4	65.7	20.3	6.8	363.2	0.0	0.0	0.0	0.0	1046.4
1966	51.2	424.1	17.1	68.7	27.1	9.2	447.7	0.0	0.0	0.0	0.0	1045.1
1967	47.6	446.3	17.4	73.9	31.8	10.6	339.3	0.0	0.0	0.0	0.0	966.9
1968	40.3	398.5	18.3	76.9	40.7	13.0	411.5	0.0	0.0	0.0	0.0	999.2
1969	39.6	415.8	43.8	116.8	40.3	13.6	366.2	0.0	0.0	0.0	0.0	1036.1
1970	32.0	491.0	555.4	101.3	43.1	14.7	396.3	0.0	0.0	0.0	0.0	1633.9
1971	35.8	411.4	100.0	105.6	44.9	15.1	405.8	0.0	0.0	0.0	0.0	1118.6
1972	42.4	575.8	138.6	106.3	39.7	13.5	440.0	0.0	0.0	0.0	0.0	1356.2
1973	49.1	975.5	80.3	143.7	41.4	13.7	504.6	0.0	0.0	0.0	0.0	1808.2
1974	47.9	1112.8	121.0	165.4	37.1	12.6	470.3	0.0	0.0	0.0	0.0	1967.3
1975	40.6	736.4	65.8	152.1	41.2	13.9	525.1	0.0	0.0	0.0	0.0	1575.1
1976	45.8	545.0	35.9	219.4	46.6	15.7	693.3	0.0	0.0	0.0	0.0	1601.7
1977	40.9	526.9	18.3	180.2	46.8	15.7	453.9	0.0	0.0	0.0	0.0	1282.7
1978	42.2	602.5	8.9	179.5	50.2	16.9	458.5	0.0	0.0	0.0	0.0	1358.6
1979	49.8	614.2	10.4	199.3	41.4	13.9	452.8	0.0	0.0	0.0	0.0	1381.9
1980	70.4	646.1	22.7	195.9	37.2	12.6	505.7	0.0	0.0	0.0	0.0	1490.5
1981	36.7	665.7	19.0	196.5	37.8	12.7	462.5	0.0	0.0	0.0	0.0	1430.9
1982	34.6	607.7	12.8	158.0	37.0	12.4	414.0	0.0	0.0	0.0	0.0	1276.5
1983	36.4	797.0	17.4	154.9	41.8	14.0	546.7	0.0	0.0	0.0	0.0	1608.2
1984	33.9	647.4	23.5	159.3	36.3	12.1	580.8	0.0	0.0	0.0	0.0	1493.3
1985	34.3	654.9	21.1	157.6	37.8	12.6	602.7	0.0	0.0	0.0	0.0	1520.9
1986	33.7	661.6	19.5	155.1	37.7	12.6	613.0	0.0	0.0	0.0	0.0	1533.1
1987	38.5	650.4	15.9	156.6	39.2	13.1	606.7	0.0	0.0	0.0	0.0	1520.3
1988	35.4	863.1	17.9	162.0	40.2	13.3	600.0	0.0	0.0	0.0	0.0	1731.9
1989	54.5	409.1	14.1	163.8	41.8	13.9	646.6	0.0	0.0	0.0	0.0	1343.7
1990	29.4	529.8	17.4	160.5	44.5	14.8	671.9	0.0	0.0	0.0	0.0	1468.4
1991	23.5	555.4	19.1	161.9	47.5	15.9	665.4	0.0	0.0	0.0	0.0	1488.7
1992	26.0	612.5	22.3	170.6	52.2	17.4	709.9	0.0	0.0	0.0	0.0	1610.8
1993	28.4	509.4	20.0	170.7	62.5	20.8	724.1	0.0	0.0	0.0	0.0	1535.9
1994	21.2	504.2	19.0	188.3	73.0	24.3	779.8	0.0	0.0	0.0	0.0	1609.8
1995	19.4	548.2	23.0	205.6	90.8	30.2	753.3	0.0	0.0	0.0	0.0	1670.5
1996	19.6	557.3	16.1	218.8	116.7	38.9	739.8	0.0	0.0	0.0	0.0	1707.0
1997	18.0	523.6	23.0	236.5	152.2	50.7	824.9	0.0	0.0	0.0	0.0	1828.9
1998	15.6	578.2	24.6	252.9	203.0	76.6	744.7	0.0	0.0	0.0	0.0	1895.7
1999	20.1	632.9	28.6	258.4	275.0	101.1	729.6	0.0	0.0	0.0	0.0	2045.8
2000	25.5	598.2	29.5	268.8	290.8	107.1	753.3	0.0	0.0	0.0	0.0	2073.2

B5. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 5, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000

Year	Ag Livestock	Ag Crops	Constr	Ag Proc Misc Mfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Coal Conversion	Pet Extr Explor	Pet Refining	Total
1958	148.4	367.5	18.3	98.9	14.8	4.9	278.4	0.0	0.0	0.0	0.0	931.3
1959	151.7	365.0	26.9	87.6	16.1	5.4	248.5	0.0	0.0	0.0	0.0	901.2
1960	126.4	335.3	31.4	98.4	13.5	4.3	164.0	0.0	0.0	0.0	0.0	773.3
1961	146.9	430.3	22.9	98.3	15.3	5.2	326.8	0.0	0.0	0.0	0.0	1,045.8
1962	139.8	220.8	15.5	88.0	16.0	5.2	391.2	0.0	0.0	0.0	0.0	876.6
1963	136.8	407.6	15.8	98.2	18.6	6.0	397.4	0.0	0.0	0.0	0.0	1,080.5
1964	130.7	292.2	28.0	103.7	22.0	7.3	475.7	0.0	0.0	0.0	0.0	1,059.6
1965	146.7	406.8	27.9	101.7	27.0	9.0	420.8	0.0	0.0	0.0	0.0	1,140.0
1966	154.9	444.6	20.6	106.3	35.9	12.3	460.0	0.0	0.0	0.0	0.0	1,234.6
1967	152.9	420.0	20.8	114.7	42.9	14.0	437.8	0.0	0.0	0.0	0.0	1,203.0
1968	131.5	381.4	22.0	119.3	52.1	17.5	460.7	0.0	0.0	0.0	0.0	1,184.4
1969	128.4	403.4	31.4	181.5	53.9	17.8	409.6	0.0	0.0	0.0	0.0	1,226.1
1970	122.3	415.1	42.4	157.6	57.8	19.2	370.5	0.0	0.0	0.0	0.0	1,184.9
1971	126.3	423.4	42.1	164.2	60.3	20.0	380.6	0.0	0.0	0.0	0.0	1,216.8
1972	148.7	591.7	36.7	165.2	53.1	17.8	396.2	0.0	0.0	0.0	0.0	1,409.4
1973	181.6	1,141.8	58.0	223.6	55.1	18.5	363.8	0.0	0.0	0.0	0.0	2,042.4
1974	180.6	1,148.8	36.0	257.2	49.7	16.7	348.7	0.0	0.0	0.0	0.0	2,037.7
1975	147.1	645.2	74.9	236.9	55.1	18.4	379.9	0.0	0.0	0.0	0.0	1,557.5
1976	146.8	579.2	7.8	341.3	62.0	20.7	389.9	0.0	0.0	0.0	0.0	1,547.8
1977	124.6	708.3	16.6	280.3	62.5	20.9	391.3	0.0	0.0	0.0	0.0	1,604.6
1978	128.9	793.8	22.9	279.4	67.0	22.4	432.3	0.0	0.0	0.0	0.0	1,746.8
1979	137.3	774.2	21.1	310.0	55.3	18.4	397.5	0.0	0.0	0.0	0.0	1,713.8
1980	138.5	786.6	30.8	304.7	49.5	16.7	425.8	0.0	0.0	0.0	0.0	1,752.7
1981	98.7	807.3	17.5	305.5	50.5	16.8	369.5	0.0	0.0	0.0	0.0	1,665.7
1982	93.1	705.9	11.6	245.8	49.4	16.5	330.7	0.0	0.0	0.0	0.0	1,453.1
1983	91.2	861.1	16.0	241.0	55.8	18.6	436.7	0.0	0.0	0.0	0.0	1,720.4
1984	92.4	742.4	21.6	247.7	48.5	16.2	464.0	0.0	0.0	0.0	0.0	1,632.9
1985	89.2	844.3	19.2	245.2	50.6	16.9	481.6	0.0	0.0	0.0	0.0	1,746.8
1986	88.7	687.0	17.8	241.3	50.5	16.8	489.8	0.0	0.0	0.0	0.0	1,591.8
1987	101.3	716.9	14.5	243.4	52.3	17.5	484.0	0.0	0.0	0.0	0.0	1,629.8
1988	91.0	868.4	16.3	251.8	53.7	17.9	475.1	0.0	0.0	0.0	0.0	1,774.2
1989	66.7	633.9	13.0	254.8	55.8	18.6	512.1	0.0	0.0	0.0	0.0	1,555.0
1990	81.2	682.3	16.0	249.7	59.5	19.8	534.6	0.0	0.0	0.0	0.0	1,643.0
1991	67.3	677.1	17.4	251.7	63.5	21.1	529.6	0.0	0.0	0.0	0.0	1,627.7
1992	73.1	680.0	20.3	265.4	69.7	23.2	565.2	0.0	0.0	0.0	0.0	1,696.7
1993	64.2	561.4	18.3	265.5	83.6	27.8	576.6	0.0	0.0	0.0	0.0	1,597.3
1994	58.9	637.2	17.4	293.0	97.7	32.6	621.2	0.0	0.0	0.0	0.0	1,757.9
1995	53.1	646.8	21.1	319.6	121.3	40.5	600.0	0.0	0.0	0.0	0.0	1,802.4
1996	53.1	796.8	14.7	340.3	156.0	52.0	589.3	0.0	0.0	0.0	0.0	2,002.1
1997	54.6	773.2	21.0	367.8	203.4	67.8	658.0	0.0	0.0	0.0	0.0	2,145.8
1998	52.0	687.0	22.5	412.1	271.2	229.1	594.0	0.0	0.0	0.0	0.0	2,267.9
1999	55.6	863.3	26.2	401.8	367.4	272.5	581.9	0.0	0.0	0.0	0.0	2,568.7
2000	60.9	798.4	27.0	418.1	388.4	295.6	601.3	0.0	0.0	0.0	0.0	2,589.7

B6. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 6, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000

Year	Ag Livestock	Ag Crops	Constr	Ag Proc Misc Mnfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Coal Conversion	Pet Extr Explor	Pet Refining	Total
1958	226.5	411.0	11.9	42.0	11.9	4.0	73.7	0.0	0.0	0.0	0.0	780.9
1959	222.1	316.5	17.1	35.2	12.7	4.4	84.6	0.0	0.0	0.0	0.0	692.8
1960	177.5	328.5	20.3	37.6	10.6	3.4	95.0	0.0	0.0	0.0	0.0	672.9
1961	211.8	295.3	14.8	34.8	11.9	3.8	94.9	0.0	0.0	0.0	0.0	667.5
1962	200.6	392.2	9.9	29.2	12.7	4.2	99.3	0.0	0.0	0.0	0.0	748.1
1963	207.5	367.6	10.2	30.2	14.4	4.7	107.5	0.0	0.0	0.0	0.0	742.2
1964	211.5	328.9	17.9	31.7	17.4	6.0	120.6	0.0	0.0	0.0	0.0	733.9
1965	238.1	368.6	18.0	31.1	21.2	7.2	121.5	0.0	0.0	0.0	0.0	805.6
1966	251.6	408.3	13.1	32.8	28.0	9.6	128.7	0.0	0.0	0.0	0.0	872.2
1967	251.8	378.3	13.6	35.2	33.1	11.0	129.9	0.0	0.0	0.0	0.0	853.1
1968	225.1	424.5	14.2	36.6	40.7	13.4	136.8	0.0	0.0	0.0	0.0	891.3
1969	213.0	427.1	10.5	55.9	41.9	14.0	173.0	0.0	0.0	0.0	0.0	935.2
1970	207.4	397.4	32.0	48.6	44.9	15.1	188.6	0.0	0.0	0.0	0.0	934.1
1971	212.9	414.2	6.7	50.5	47.0	15.8	203.8	0.0	0.0	0.0	0.0	950.9
1972	254.6	533.1	9.1	50.8	41.4	13.8	198.1	0.0	0.0	0.0	0.0	1100.9
1973	303.3	705.0	7.3	68.8	43.0	14.7	208.7	0.0	0.0	0.0	0.0	1350.7
1974	254.0	943.0	4.4	79.2	38.6	12.9	199.1	0.0	0.0	0.0	0.0	1531.1
1975	245.7	743.0	9.9	72.7	43.0	14.2	207.8	0.0	0.0	0.0	0.0	1336.4
1976	258.1	467.9	17.0	105.0	48.6	16.2	215.3	0.0	0.0	0.0	0.0	1128.0
1977	235.4	486.7	10.0	86.1	48.7	16.2	225.9	0.0	0.0	0.0	0.0	1108.9
1978	245.0	636.3	12.0	85.9	52.4	17.3	236.8	0.0	0.0	0.0	0.0	1285.6
1979	298.1	655.6	15.6	95.3	43.2	14.3	220.9	0.0	0.0	0.0	0.0	1343.0
1980	259.0	523.2	12.8	93.6	38.8	12.8	245.3	0.0	0.0	0.0	0.0	1185.4
1981	218.3	769.0	12.7	93.9	39.3	13.0	206.8	0.0	0.0	0.0	0.0	1353.0
1982	210.1	718.0	8.6	75.5	38.6	12.8	185.2	0.0	0.0	0.0	0.0	1248.7
1983	217.6	688.1	11.8	74.1	43.7	14.5	244.4	0.0	0.0	0.0	0.0	1294.2
1984	215.2	668.1	15.9	76.1	37.9	12.6	259.7	0.0	0.0	0.0	0.0	1285.4
1985	213.1	642.1	14.1	75.4	39.5	13.2	269.6	0.0	0.0	0.0	0.0	1267.0
1986	201.8	534.0	13.1	74.2	39.4	13.1	274.2	0.0	0.0	0.0	0.0	1149.7
1987	230.4	521.5	10.6	74.8	40.8	13.7	274.0	0.0	0.0	0.0	0.0	1165.8
1988	231.5	496.5	12.0	77.4	41.9	14.0	276.0	0.0	0.0	0.0	0.0	1149.3
1989	178.9	403.5	9.5	78.3	43.6	14.5	302.9	0.0	0.0	0.0	0.0	1031.2
1990	209.5	561.6	11.8	76.7	46.5	15.5	320.7	0.0	0.0	0.0	0.0	1242.3
1991	178.2	528.7	12.8	77.4	49.5	16.5	317.1	0.0	0.0	0.0	0.0	1180.2
1992	183.1	586.7	14.9	81.6	54.4	18.2	336.5	0.0	0.0	0.0	0.0	1275.4
1993	172.7	536.2	13.4	81.6	65.2	21.7	342.5	0.0	0.0	0.0	0.0	1233.4
1994	149.4	534.6	12.6	90.1	76.3	25.4	366.9	0.0	0.0	0.0	0.0	1255.2
1995	127.2	528.1	15.3	98.3	94.8	31.6	354.6	0.0	0.0	0.0	0.0	1250.0
1996	114.8	636.3	10.7	104.6	121.8	40.6	348.2	0.0	0.0	0.0	0.0	1376.9
1997	123.6	545.9	15.3	113.1	159.0	52.9	389.9	0.0	0.0	0.0	0.0	1399.6
1998	109.0	560.3	16.4	121.0	212.0	86.4	353.7	0.0	0.0	0.0	0.0	1458.8
1999	118.6	497.0	19.1	123.5	287.1	112.9	345.7	0.0	0.0	0.0	0.0	1504.0
2000	111.5	578.4	19.6	128.5	303.5	124.0	355.7	0.0	0.0	0.0	0.0	1621.2

B7. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 7, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000

Year	Ag Livestock	Ag Crops	Construction	Ag Proc Misc Mfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Coal Conversion	Pet Extr Explor	Pet Refining	Total
1958	268.5	248.3	16.8	57.9	13.8	4.5	120.2	3.0	0.0	0.0	191.9	924.8
1959	260.8	151.7	25.0	50.4	14.7	4.9	132.1	2.4	0.0	0.0	186.9	828.8
1960	200.7	196.3	28.9	56.0	12.1	3.9	148.1	2.9	0.0	0.0	179.0	827.8
1961	250.5	67.3	21.5	55.3	13.8	4.8	153.1	3.8	0.0	0.0	178.4	748.6
1962	223.2	299.9	14.1	49.4	15.1	5.2	189.7	4.2	0.0	0.0	175.1	976.0
1963	235.9	255.5	14.9	54.4	17.2	5.6	192.2	3.7	0.0	0.0	172.6	952.1
1964	244.0	240.8	25.7	57.8	20.2	6.9	250.0	5.0	0.0	0.0	173.9	1,024.3
1965	279.9	273.2	25.7	56.7	24.8	8.1	208.8	5.9	0.0	0.0	180.0	1,063.0
1966	313.3	291.0	18.8	59.1	33.3	10.9	232.4	5.3	19.3	0.0	183.8	1,167.2
1967	312.1	231.8	19.1	63.7	39.1	13.2	215.3	7.6	35.7	0.0	186.4	1,124.0
1968	293.0	248.3	20.4	66.3	47.6	15.9	235.7	8.5	50.1	0.0	179.9	1,165.6
1969	281.2	259.9	24.8	100.5	49.7	16.7	299.8	8.5	45.4	0.0	173.8	1,260.3
1970	280.7	233.5	17.3	87.3	53.4	17.7	308.7	10.7	50.8	0.0	168.3	1,228.4
1971	291.5	225.5	14.7	90.8	55.4	18.6	341.3	11.2	61.4	0.0	165.9	1,276.4
1972	347.8	325.3	16.1	91.5	49.1	16.5	380.4	9.8	72.0	0.0	168.9	1,477.3
1973	419.6	472.8	6.7	123.9	51.0	16.9	415.7	11.8	61.5	0.0	180.9	1,760.8
1974	349.9	458.6	12.9	142.4	45.6	15.2	413.3	12.9	65.5	0.0	196.7	1,712.9
1975	325.4	431.3	36.6	131.0	50.8	16.8	452.4	13.6	55.1	0.0	198.4	1,711.5
1976	352.7	268.5	27.6	189.0	57.4	19.0	439.8	20.7	97.7	0.0	203.4	1,675.9
1977	317.9	174.8	33.3	155.0	57.8	19.0	521.9	23.3	110.1	0.0	206.8	1,619.8
1978	325.8	309.6	30.4	154.7	61.9	20.4	478.0	29.1	145.1	0.0	207.5	1,762.5
1979	402.0	274.9	64.3	171.7	51.0	17.0	569.6	40.0	187.7	0.0	294.6	2,072.7
1980	457.7	174.7	63.1	168.7	45.8	15.2	621.5	57.2	225.4	0.0	429.3	2,258.6
1981	296.2	363.3	38.8	169.0	46.5	15.4	680.6	63.0	241.6	0.0	697.8	2,612.3
1982	294.7	350.0	26.0	136.0	45.7	15.0	518.3	66.6	261.8	0.0	604.3	2,318.5
1983	310.5	347.3	35.7	133.3	51.6	17.2	577.5	93.7	305.2	0.0	540.6	2,412.7
1984	314.8	313.9	48.1	137.2	44.8	14.8	637.7	113.1	339.1	0.0	505.5	2,469.1
1985	308.3	373.6	42.9	135.7	46.6	15.5	608.4	164.0	379.9	0.0	456.0	2,530.8
1986	289.1	299.9	39.7	133.6	46.6	15.5	611.1	155.6	371.4	0.0	356.9	2,319.4
1987	330.2	256.5	32.4	134.8	48.3	16.1	601.3	142.9	687.9	0.0	374.0	2,624.4
1988	355.7	126.7	36.4	139.5	49.5	16.5	596.0	144.4	760.4	0.0	369.1	2,594.3
1989	231.4	143.6	28.9	141.0	51.5	17.2	641.7	163.5	688.5	0.0	415.5	2,522.9
1990	311.2	156.1	35.8	138.2	54.9	18.3	669.3	152.7	672.6	0.0	481.3	2,690.4
1991	255.7	185.8	38.9	139.3	58.6	19.6	663.4	142.2	675.1	0.0	417.4	2,596.1
1992	268.2	259.2	45.5	146.9	64.3	21.4	703.7	148.8	726.5	0.0	394.9	2,779.4
1993	249.9	327.4	40.9	147.0	77.2	25.8	713.1	156.6	750.6	0.0	376.5	2,864.8
1994	216.4	270.7	38.7	162.2	90.2	30.1	761.2	154.8	736.3	0.0	347.2	2,807.8
1995	189.1	287.0	47.0	177.0	112.1	37.3	741.7	158.4	708.7	0.0	348.5	2,806.8
1996	174.3	317.9	32.8	188.4	144.0	48.0	744.2	162.1	747.7	0.0	402.6	2,961.8
1997	197.2	294.5	46.9	203.6	187.8	62.6	825.4	159.1	729.1	0.0	381.4	3,087.6
1998	182.2	299.2	50.1	217.8	250.4	144.0	745.1	155.2	767.3	0.0	333.7	3,145.1
1999	202.2	301.6	58.4	222.4	339.3	173.6	741.6	158.8	751.4	0.0	392.0	3,341.3
2000	189.0	311.6	60.2	231.5	358.7	185.9	786.2	154.8	868.6	0.0	577.1	3,723.6

B8. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 8, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000

Year	Ag Livestock	Ag Crops	Constr	Ag Proc Misc Mnfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Coal Conversion	Pet Extr Explor	Pet Refining	Total
1958	135.5	201.3	4.9	12.9	5.9	2.0	30.7	1.5	0.0	4.0	0.0	398.6
1959	134.5	119.9	7.3	12.7	6.4	2.0	35.2	1.5	0.0	3.4	0.0	322.9
1960	102.8	125.4	8.7	15.4	5.3	1.9	39.6	1.4	0.0	5.8	0.0	306.3
1961	123.1	86.8	6.2	17.2	6.2	1.9	39.6	1.4	0.0	11.0	0.0	293.4
1962	109.7	158.2	4.2	17.4	6.6	2.4	41.0	1.9	0.0	16.9	0.0	358.3
1963	114.9	201.0	4.2	21.4	7.4	2.3	44.2	1.4	0.0	19.1	0.0	416.0
1964	120.6	137.2	7.3	22.5	8.7	2.8	49.1	1.4	0.0	18.3	0.0	367.9
1965	139.1	159.3	7.7	22.1	10.8	3.6	50.4	0.9	0.0	24.3	0.0	418.1
1966	154.0	203.9	5.7	23.2	14.4	4.8	53.0	0.9	0.0	35.9	0.0	495.8
1967	162.6	208.1	5.5	17.0	17.0	5.5	51.4	0.8	0.0	46.7	0.0	514.7
1968	155.9	146.5	6.1	26.0	20.8	6.9	56.6	1.2	0.0	68.8	0.0	488.8
1969	149.7	142.4	8.5	39.6	21.3	7.0	86.5	0.8	0.0	56.2	0.0	512.0
1970	143.3	156.2	7.4	34.3	22.8	7.7	107.9	1.1	0.0	62.2	0.0	542.9
1971	153.3	149.1	14.4	35.8	23.9	8.1	81.0	1.1	0.0	51.6	0.0	518.1
1972	195.8	218.3	4.7	36.0	21.2	7.1	80.4	1.3	0.0	50.5	0.0	615.2
1973	238.0	361.9	1.3	48.7	22.0	7.3	86.7	1.3	0.0	57.7	0.0	824.8
1974	207.2	470.6	5.3	56.1	19.9	6.7	85.4	1.5	0.0	109.9	0.0	962.6
1975	196.0	244.9	4.8	51.6	21.9	7.2	95.5	5.3	0.0	120.6	0.0	747.9
1976	157.9	211.0	6.3	74.4	24.8	8.4	94.6	19.7	0.0	140.7	0.0	737.9
1977	179.5	141.5	5.5	61.1	25.0	8.3	103.4	20.0	0.0	157.9	0.0	702.1
1978	176.7	198.6	15.5	60.8	26.6	8.9	111.2	19.8	0.0	178.0	0.0	796.1
1979	226.2	173.1	5.1	67.4	22.1	7.4	131.7	26.0	0.0	329.4	0.0	988.5
1980	233.1	78.1	4.7	66.4	19.9	6.6	165.3	33.0	0.0	704.3	0.0	1,311.3
1981	156.2	174.5	7.0	66.6	20.1	6.7	173.2	30.4	0.0	1,527.9	0.0	2,162.5
1982	144.5	193.2	4.7	53.5	19.7	6.6	127.3	26.7	0.0	1,326.2	0.0	1,902.4
1983	159.0	219.1	6.4	52.5	22.2	7.5	134.9	25.3	0.0	1,160.7	0.0	1,787.6
1984	165.7	213.1	8.7	53.9	19.3	6.4	143.7	31.0	0.0	976.3	0.0	1,618.2
1985	167.5	190.9	7.7	53.5	20.2	6.7	139.7	34.4	0.0	806.7	0.0	1,427.2
1986	157.6	171.7	7.1	52.6	20.0	6.7	139.7	25.4	0.0	354.5	0.0	935.3
1987	179.9	165.3	5.8	53.0	20.8	6.9	138.1	22.8	0.0	376.5	0.0	969.1
1988	191.5	71.1	6.5	54.9	21.4	7.1	140.0	13.3	0.0	257.2	0.0	763.0
1989	129.3	241.0	5.3	55.5	22.2	7.5	154.8	22.8	0.0	272.5	0.0	910.9
1990	164.6	90.8	6.4	54.3	23.8	7.9	163.8	23.1	0.0	321.3	0.0	856.1
1991	136.2	111.6	7.0	54.8	25.3	8.5	162.4	26.0	0.0	282.1	0.0	814.0
1992	145.5	170.9	8.2	57.8	27.9	9.2	170.7	22.1	0.0	253.7	0.0	866.0
1993	132.9	224.7	7.4	57.8	33.3	11.1	173.0	23.1	0.0	213.7	0.0	877.1
1994	117.8	160.9	7.0	63.8	38.9	12.9	183.1	24.2	0.0	181.6	0.0	790.2
1995	105.5	188.5	8.5	69.6	48.4	16.1	179.2	22.5	0.0	243.3	0.0	881.7
1996	102.1	204.2	5.9	74.1	62.2	20.8	181.1	2.5	0.0	374.7	0.0	1,027.5
1997	108.0	180.8	8.5	80.1	81.2	27.1	199.5	0.0	0.0	442.4	0.0	1,127.6
1998	101.2	164.9	9.0	85.7	108.2	48.0	181.0	0.0	0.0	279.3	0.0	977.2
1999	111.1	164.7	10.5	87.6	146.5	60.9	180.9	0.3	0.0	347.8	0.0	1,110.2
2000	111.4	198.1	10.9	91.0	154.9	64.2	191.7	0.3	0.0	503.5	0.0	1,326.0

B9. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000												
Year	Ag Livestock	Ag Crops	Nonmet Mining	Constr	Trans	Comm & Pub Util	Ag Proc Misc Mnfg	Retail Trade	FIRE	Bus & Pers Serv	Prof & Soc Serv	Households
1958	1,618.2	3,037.1	34.6	462.9	57.4	420.9	1,559.3	3,589.5	746.8	316.0	333.8	5,056.4
1959	1,563.1	2,739.7	33.8	486.3	54.8	398.7	1,452.5	3,374.8	700.6	299.4	316.0	4,786.7
1960	1,304.4	2,629.0	32.8	495.4	51.6	378.2	1,390.3	3,193.4	665.2	280.8	299.6	4,546.6
1961	1,511.0	2,427.0	32.4	467.1	53.9	396.9	1,463.7	3,281.5	685.6	290.1	317.3	4,825.9
1962	1,486.3	3,060.7	37.7	514.6	63.6	488.7	1,488.2	4,065.4	852.6	356.9	396.4	6,053.7
1963	1,548.2	3,408.6	39.6	538.9	67.0	512.8	1,626.3	4,313.2	900.9	380.6	413.2	6,300.1
1964	1,580.3	2,945.9	42.7	629.4	69.7	553.7	1,624.3	4,514.2	948.2	400.5	455.0	6,978.0
1965	1,738.1	3,444.6	43.2	622.0	71.6	541.0	1,735.4	4,548.2	941.5	411.3	434.3	6,616.1
1966	1,864.8	3,680.1	45.5	628.4	77.5	593.0	1,846.4	4,993.4	1,029.3	460.4	477.0	7,275.3
1967	1,841.2	3,413.6	42.9	589.8	73.0	549.9	1,836.9	4,665.0	951.6	442.0	439.1	6,679.4
1968	1,717.1	3,290.6	43.1	606.0	73.7	561.7	1,809.1	4,758.2	963.4	462.8	449.7	6,855.9
1969	1,723.4	3,598.5	46.5	664.1	78.7	600.9	2,188.9	5,100.9	1,034.5	494.2	481.0	7,335.1
1970	1,707.6	3,527.4	63.0	1,232.4	84.3	641.3	2,046.8	5,380.1	1,089.1	519.3	510.9	7,798.5
1971	1,770.3	3,445.1	49.1	753.4	80.3	617.3	2,099.6	5,210.1	1,053.3	511.0	495.3	7,564.4
1972	2,081.4	4,526.7	58.2	878.6	94.2	717.8	2,368.7	6,102.3	1,247.9	575.5	574.5	8,750.1
1973	2,619.3	7,425.6	77.7	1,064.7	129.0	972.6	3,261.9	8,481.0	1,740.7	777.3	771.3	11,706.6
1974	2,422.1	7,789.0	80.1	1,114.3	133.3	998.8	3,403.7	8,695.7	1,791.3	789.0	790.1	11,998.5
1975	2,173.8	5,644.1	68.7	1,004.5	114.2	875.7	2,936.4	7,415.8	1,525.9	687.2	702.7	10,721.4
1976	2,168.5	4,642.0	60.0	823.1	105.5	800.9	3,392.7	6,682.9	1,370.2	636.1	640.2	9,769.7
1977	2,010.2	4,231.3	56.1	783.6	98.0	745.1	2,940.1	6,225.2	1,272.2	598.2	596.5	9,104.9
1978	2,106.3	5,096.5	62.4	875.1	107.9	818.9	3,081.0	6,939.2	1,416.6	664.2	652.7	9,945.2
1979	2,431.7	5,142.8	66.8	944.9	116.6	873.6	3,401.8	7,238.9	1,499.5	672.0	697.2	10,627.3
1980	2,493.3	4,902.4	70.7	1,054.0	125.7	917.1	3,379.2	7,387.9	1,543.6	675.0	729.0	11,128.7
1981	2,034.8	5,592.9	75.2	1,133.5	145.9	997.8	3,267.7	7,939.8	1,656.6	722.5	775.2	11,840.6
1982	1,869.6	5,106.3	65.1	951.9	127.0	864.6	2,805.9	6,968.8	1,446.9	641.8	668.6	10,187.9
1983	1,988.5	5,486.4	70.6	1,037.5	133.0	939.7	2,884.2	7,628.6	1,584.3	705.1	735.8	11,224.9
1984	1,962.7	4,875.0	68.5	1,038.8	126.2	907.4	2,843.1	7,263.0	1,521.3	663.6	717.4	10,958.6
1985	1,960.1	5,174.6	69.0	1,023.2	126.1	924.9	2,867.1	7,485.0	1,566.4	685.4	734.2	11,205.0
1986	1,849.5	4,644.7	62.8	911.5	110.3	854.7	2,733.8	6,979.7	1,461.3	643.8	690.7	10,554.2
1987	2,006.8	4,508.8	62.6	893.2	112.3	861.2	2,817.3	6,979.2	1,476.0	646.5	694.3	10,585.1
1988	2,072.3	4,770.1	64.5	916.2	113.8	879.9	2,926.9	7,185.5	1,520.8	665.8	710.0	10,816.2
1989	1,656.6	3,756.1	57.3	832.5	103.4	813.0	2,642.0	6,509.2	1,377.0	612.2	661.4	10,114.5
1990	1,914.6	4,164.9	63.1	923.0	113.3	884.1	2,775.2	7,094.4	1,497.3	665.2	718.0	10,981.4
1991	1,705.3	4,150.0	61.5	907.1	109.0	858.3	2,692.2	6,946.3	1,459.8	659.0	697.2	10,662.5
1992	1,817.7	4,630.5	66.7	984.1	116.7	924.2	2,877.5	7,538.6	1,581.2	716.7	751.3	11,485.4
1993	1,739.4	4,556.3	65.7	962.7	115.6	924.5	2,837.8	7,593.1	1,578.9	740.5	751.6	11,492.1
1994	1,641.2	4,460.3	66.0	966.3	116.6	943.9	2,935.8	7,775.7	1,604.1	775.0	769.6	11,782.7
1995	1,571.7	4,560.6	67.4	1,007.5	119.9	953.4	3,061.5	7,945.3	1,610.1	821.7	769.1	11,766.2
1996	1,578.9	4,953.1	69.4	1,005.1	128.1	999.5	3,225.5	8,472.3	1,682.8	913.7	796.7	12,173.0
1997	1,692.5	4,731.0	73.4	1,100.1	135.9	1,059.1	3,403.9	9,032.8	1,752.7	1,024.4	841.6	12,873.6
1998	1,657.6	4,669.6	72.7	1,081.5	136.6	1,066.7	3,523.1	9,296.7	1,733.5	1,448.1	823.5	12,549.9
1999	1,808.5	4,795.5	77.0	1,159.9	148.3	1,134.2	3,651.2	10,173.8	1,809.4	1,705.7	857.7	13,046.6
2000	1,487.4	4,822.3	78.6	1,210.1	154.1	1,168.0	3,613.4	10,454.6	1,852.1	1,784.2	878.6	13,374.3

B10. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 1, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000												
Year	Ag Livestock	Ag Crops	Nonmet Mining	Constr	Trans	Comm & Pub Util	Ag Proc Misc Mnfg	Retail Trade	FIRE	Bus & Pers Serv	Prof & Soc Serv	Households
1958	74.2	117.7	2.0	28.2	4.0	20.8	67.8	155.8	32.1	13.8	14.8	221.1
1959	70.0	104.7	2.0	30.3	3.9	20.5	61.2	150.2	30.8	13.2	14.2	216.7
1960	61.3	126.4	1.9	35.7	4.8	23.2	61.7	168.8	35.2	15.0	15.9	242.6
1961	69.2	83.5	1.9	32.0	4.3	21.0	59.2	142.2	29.6	12.4	13.8	212.8
1962	70.6	172.3	2.4	39.1	5.7	28.7	68.3	214.7	44.3	18.4	20.2	304.6
1963	78.2	212.2	2.8	43.7	6.0	33.0	77.2	249.4	51.7	21.9	22.8	347.6
1964	78.9	151.8	2.8	44.5	6.0	30.7	72.0	220.6	45.4	19.7	21.1	323.4
1965	90.5	164.7	2.7	45.9	6.3	31.5	77.9	229.5	47.3	20.7	21.6	328.5
1966	96.7	193.0	2.6	46.8	6.6	34.6	84.9	259.1	52.5	23.6	24.1	364.6
1967	94.7	166.9	2.5	41.6	5.9	31.0	82.4	234.8	47.1	22.5	21.7	328.7
1968	87.1	151.4	2.4	40.3	5.7	30.1	77.7	227.1	45.2	22.4	20.8	317.9
1969	89.6	207.5	2.7	44.6	5.8	35.7	97.8	283.9	57.0	27.5	26.4	399.1
1970	89.5	190.8	2.6	38.7	5.5	32.8	90.6	263.0	52.3	26.2	23.9	364.6
1971	97.9	170.8	2.5	38.9	5.6	33.3	93.7	261.0	51.9	26.0	24.2	370.7
1972	115.4	263.0	3.4	51.5	6.7	40.4	111.7	329.0	66.6	31.3	29.9	453.4
1973	145.3	454.3	4.5	58.6	8.9	56.4	157.7	479.5	97.5	43.6	42.1	636.5
1974	127.7	458.6	5.0	72.5	10.5	60.8	157.3	492.3	100.6	44.4	43.6	660.3
1975	110.7	295.2	3.7	57.8	8.6	47.6	127.3	369.8	74.9	34.5	33.7	512.3
1976	111.1	250.5	3.8	60.2	8.6	45.5	140.9	343.6	69.1	32.9	31.6	480.0
1977	102.9	181.4	3.3	58.7	8.1	41.6	118.2	298.9	59.9	29.0	28.5	432.2
1978	110.7	244.1	3.8	66.6	9.1	46.8	128.7	349.1	70.1	33.5	32.4	490.7
1979	141.8	222.7	4.7	81.7	11.5	64.1	146.7	451.1	94.0	40.8	46.9	722.2
1980	149.7	233.8	6.2	112.8	15.2	80.5	151.6	537.2	113.3	47.1	57.6	888.3
1981	126.5	255.9	8.2	164.6	23.3	110.2	145.9	677.0	143.5	58.2	74.3	1,147.6
1982	109.2	225.6	6.9	140.7	20.5	90.0	122.5	540.6	113.3	47.2	57.7	886.6
1983	112.4	236.2	7.1	145.6	21.4	88.6	124.0	523.4	108.6	46.2	54.4	833.3
1984	106.7	144.3	7.0	151.6	22.0	86.8	112.4	473.6	99.0	41.2	51.4	790.7
1985	98.8	130.6	6.5	141.2	20.6	79.8	106.2	431.7	89.8	38.1	46.5	714.4
1986	93.0	215.0	4.7	87.4	12.2	59.4	111.9	396.5	81.9	36.0	40.1	615.1
1987	100.6	198.3	5.0	94.4	13.5	62.1	113.5	397.9	82.1	36.1	40.6	622.4
1988	102.1	178.8	4.3	77.8	10.9	53.7	113.3	358.6	73.8	33.1	36.4	559.2
1989	81.6	134.0	4.1	79.2	11.3	52.7	99.8	335.1	68.9	31.1	35.1	539.1
1990	98.6	157.4	4.6	87.6	12.5	58.2	109.1	371.6	76.3	34.4	38.6	592.2
1991	88.1	170.7	4.1	76.5	10.6	53.0	106.4	357.0	72.9	33.7	36.3	557.5
1992	97.1	211.8	4.3	76.1	10.4	54.7	117.5	386.7	78.7	36.7	38.5	589.0
1993	92.0	274.8	4.4	74.5	10.2	57.0	122.6	427.4	86.2	41.3	41.0	626.5
1994	80.8	226.1	3.9	66.4	9.0	51.8	116.8	392.1	78.0	39.5	37.8	579.3
1995	73.8	226.5	3.9	67.4	8.9	51.8	118.7	397.8	77.8	41.7	37.5	575.2
1996	75.3	219.2	4.0	67.3	9.4	53.2	122.2	410.8	78.4	45.4	38.0	582.5
1997	82.4	209.5	3.9	66.9	9.0	53.3	129.5	426.2	78.9	50.3	38.4	588.8
1998	74.9	195.3	3.4	56.8	7.6	48.2	128.9	416.4	72.5	57.3	35.1	535.2
1999	92.3	226.5	4.1	67.2	9.2	57.0	141.9	498.3	83.9	79.1	40.3	613.0
2000	98.9	207.5	4.7	82.2	11.5	65.3	146.1	536.9	91.2	84.7	44.8	684.8

B11. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 2, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000												
Year	Ag Livestock	Ag Crops	Nonmet Mining	Constr	Trans	Comm & Pub Util	Ag Proc Misc Mnfg	Retail Trade	FIRE	Bus & Pers Serv	Prof & Soc Serv	Households
1958	182.5	330.4	4.5	59.8	7.4	53.4	181.0	441.1	92.0	39.6	42.5	645.9
1959	173.7	340.0	4.4	67.5	7.8	53.8	174.2	443.7	92.0	39.6	42.1	640.9
1960	151.0	347.8	4.3	73.3	8.2	56.0	175.6	454.9	95.0	40.5	43.9	666.7
1961	167.0	199.9	3.8	63.0	7.2	49.6	168.4	376.9	79.2	33.9	39.1	595.9
1962	189.7	517.4	6.6	97.5	12.2	92.3	213.3	742.9	156.8	64.5	74.9	1,150.7
1963	192.6	535.1	6.5	95.4	12.1	89.3	228.0	726.9	152.6	63.8	71.7	1,098.7
1964	207.8	466.5	7.8	120.6	13.8	111.0	233.0	862.8	183.9	75.7	92.2	1,423.9
1965	211.1	475.7	6.8	100.4	12.2	87.3	231.3	702.1	146.3	63.5	69.3	1,064.8
1966	224.9	553.6	7.4	108.1	13.6	101.5	250.8	827.1	171.6	75.7	81.8	1,259.5
1967	211.0	401.3	5.9	86.6	10.6	79.0	232.7	641.6	130.8	61.6	62.8	959.7
1968	193.7	415.1	6.1	93.6	11.4	86.3	231.2	705.3	143.3	69.2	69.6	1,069.6
1969	200.9	517.1	7.0	98.1	12.8	97.8	294.8	807.2	164.5	78.0	78.7	1,211.4
1970	205.5	485.8	7.4	105.7	13.3	103.9	275.1	846.8	173.1	81.8	85.1	1,307.9
1971	229.0	468.3	7.4	112.2	13.3	103.1	288.7	837.6	170.8	81.4	83.8	1,290.8
1972	245.5	609.8	8.1	114.0	14.1	108.3	312.8	897.1	183.3	85.1	86.8	1,331.3
1973	325.6	1,231.9	12.7	174.3	21.7	164.7	466.4	1,423.4	292.8	129.7	131.3	2,002.5
1974	294.1	1,112.0	12.3	170.1	21.6	162.2	465.9	1,366.3	282.7	123.6	129.2	1,976.3
1975	277.5	752.9	11.2	163.9	20.1	162.0	403.2	1,296.5	271.4	118.4	134.0	2,069.0
1976	265.7	603.7	8.6	119.7	16.4	122.7	460.3	990.1	203.2	94.6	98.2	1,508.4
1977	248.9	500.2	8.6	133.6	15.2	114.6	393.0	914.2	187.6	88.4	92.5	1,421.8
1978	263.2	664.2	9.8	155.6	16.9	127.4	417.7	1,044.4	213.3	100.1	102.1	1,567.2
1979	289.9	575.9	9.8	152.2	17.2	130.5	443.6	1,036.3	214.9	96.7	105.9	1,629.8
1980	295.6	632.0	10.5	160.6	19.3	144.3	449.2	1,129.5	48.6	103.2	116.7	1,797.5
1981	262.6	759.6	12.2	191.5	23.5	167.7	451.5	1,296.7	100.1	117.2	133.5	2,059.6
1982	230.6	678.8	10.2	156.9	20.0	138.3	379.1	1,080.3	62.7	99.2	108.4	1,667.3
1983	244.6	690.4	10.6	165.0	20.4	144.2	383.4	1,133.6	79.4	104.9	114.2	1,758.4
1984	236.9	566.7	10.2	165.4	19.2	138.0	371.1	1,060.4	71.6	97.1	110.3	1,702.1
1985	142.7	646.7	9.9	159.2	18.3	135.8	337.2	1,071.8	77.4	98.8	109.1	1,684.8
1986	222.9	614.3	9.5	144.7	16.6	132.0	365.1	1,058.4	220.4	97.6	108.6	1,674.8
1987	228.3	465.2	8.6	131.5	15.5	121.4	351.7	951.0	198.0	89.0	99.9	1,544.6
1988	243.2	549.7	9.2	140.4	16.4	128.9	374.9	1,021.9	212.5	95.3	105.7	1,631.8
1989	198.0	429.4	8.6	134.6	15.9	125.0	344.0	965.2	201.1	90.9	103.0	1,595.4
1990	238.6	526.4	9.9	154.5	18.3	140.2	369.5	1,087.1	226.3	101.7	114.5	1,770.7
1991	210.2	491.2	9.3	145.9	16.7	132.4	354.3	1,037.0	214.9	98.4	109.0	1,688.0
1992	221.4	573.7	10.0	156.5	17.6	142.0	380.0	1,129.7	233.6	107.6	117.4	1,814.6
1993	219.1	731.3	10.8	163.0	18.8	153.6	397.4	1,258.4	257.7	121.3	126.6	1,954.6
1994	208.1	659.9	10.6	159.6	18.4	153.3	406.2	1,251.7	254.7	123.7	127.0	1,964.2
1995	207.1	650.6	10.7	164.2	18.7	153.1	425.9	1,262.1	252.6	129.5	125.8	1,943.7
1996	204.6	652.1	10.5	158.4	19.2	155.3	441.2	1,297.7	254.1	139.9	126.3	1,951.4
1997	220.4	614.1	11.1	172.5	20.2	164.5	466.2	1,386.0	265.5	157.1	133.8	2,066.9
1998	219.1	589.1	10.9	167.2	20.0	163.5	482.6	1,406.6	258.0	229.5	128.8	1,982.9
1999	235.9	477.3	10.8	171.3	20.7	166.2	484.0	1,454.3	252.1	280.3	127.5	1,960.8
2000	248.0	574.5	12.0	188.6	23.1	181.5	514.0	1,589.6	277.1	290.3	139.0	2,136.3

B12. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 3, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000												
Year	Ag Livestock	Ag Crops	Nonmet Mining	Constr	Trans	Comm & Pub Util	Ag Proc Misc Mnfg	Retail Trade	FIRE	Bus & Pers Serv	Prof & Soc Serv	Households
1958	129.6	360.5	3.5	45.0	5.4	40.1	125.1	359.1	74.2	31.7	31.7	475.8
1959	124.8	352.7	3.4	49.4	5.4	40.6	117.9	360.1	74.4	31.8	31.8	480.9
1960	100.8	260.0	2.9	45.3	4.3	33.3	97.9	289.9	60.3	25.6	26.5	402.3
1961	118.3	286.3	2.9	42.9	4.8	35.8	107.3	313.9	64.9	27.7	28.6	432.3
1962	121.5	425.1	3.8	49.4	6.1	46.1	121.9	416.2	86.2	36.7	36.7	552.7
1963	121.9	420.7	3.7	49.8	6.0	46.5	122.8	419.3	86.6	36.8	36.8	559.3
1964	115.6	367.9	3.7	52.8	6.0	44.0	115.1	390.4	80.3	35.3	34.9	529.4
1965	126.5	369.9	3.6	54.0	5.9	45.0	120.2	399.6	81.9	36.0	36.0	541.4
1966	129.1	404.4	3.9	53.0	6.1	48.1	126.0	433.7	88.0	40.3	38.1	580.3
1967	129.1	404.2	3.8	53.5	6.4	48.8	127.4	438.6	88.7	41.6	38.6	584.3
1968	117.6	389.5	3.7	53.3	6.1	48.0	122.1	433.5	86.7	41.9	37.9	574.3
1969	114.8	387.1	3.9	47.7	6.2	50.0	133.4	448.4	90.0	43.8	40.0	607.8
1970	112.3	359.1	3.7	49.0	6.6	52.3	124.9	459.3	92.4	44.9	42.4	646.0
1971	116.5	369.7	4.2	62.1	6.7	53.7	129.1	471.4	94.7	45.9	43.1	658.4
1972	136.6	469.2	5.0	75.3	8.1	65.6	150.0	573.2	116.7	53.8	53.1	810.3
1973	175.5	827.0	7.3	102.6	11.8	92.1	220.5	833.1	170.1	75.8	73.0	1,106.7
1974	162.5	788.1	7.3	95.9	11.7	93.2	217.5	831.0	171.0	75.1	74.8	1,139.4
1975	151.3	686.6	6.7	91.7	10.7	87.4	196.5	772.7	158.6	70.6	70.9	1,080.5
1976	139.2	481.3	5.6	74.9	9.1	74.6	188.8	642.7	131.6	60.5	61.2	940.8
1977	125.1	415.6	4.8	64.7	8.1	67.3	162.4	578.2	117.9	55.2	55.4	851.6
1978	132.0	496.2	5.3	75.2	8.9	73.7	174.7	640.3	130.3	60.8	60.1	920.8
1979	149.4	572.0	5.7	75.6	9.6	77.4	197.1	678.1	138.9	62.7	62.9	959.8
1980	150.7	557.9	6.6	105.3	9.8	78.6	195.2	680.6	140.2	62.1	63.8	974.1
1981	128.4	611.6	6.0	81.5	9.8	78.6	191.7	692.8	142.3	63.5	63.7	971.7
1982	120.5	586.7	5.5	73.4	9.2	73.4	172.9	652.0	133.5	59.9	59.3	905.2
1983	126.5	557.4	5.8	80.5	9.6	78.9	171.9	686.2	140.9	63.4	64.6	989.6
1984	122.3	501.6	5.7	81.7	9.1	76.3	165.1	653.9	135.2	59.9	62.9	966.9
1985	126.4	577.1	6.1	86.4	10.0	83.1	175.2	718.2	148.5	65.4	68.4	1,049.2
1986	113.3	432.8	5.3	75.2	8.5	72.3	151.8	613.1	126.8	56.7	60.3	927.4
1987	122.5	454.7	5.4	74.6	8.7	74.1	158.9	630.4	130.2	58.2	61.5	946.5
1988	128.1	498.9	5.6	79.3	9.2	77.7	168.2	664.8	137.2	61.3	64.2	986.3
1989	105.4	386.9	4.9	70.4	8.2	71.0	146.0	594.9	122.9	55.7	59.4	916.6
1990	118.3	419.9	5.3	76.6	8.8	75.6	154.7	636.1	131.3	59.6	63.2	974.8
1991	109.8	436.2	5.4	78.2	8.8	76.2	153.2	645.3	132.6	60.8	63.6	979.7
1992	118.9	474.8	5.8	85.4	9.6	82.2	164.7	697.3	143.1	65.9	68.5	1,054.8
1993	107.9	358.5	5.2	76.4	8.5	74.3	146.4	622.9	126.6	61.1	62.4	963.8
1994	106.2	417.3	5.7	82.5	9.4	81.9	158.4	693.9	140.4	68.8	68.6	1,058.9
1995	102.2	405.9	5.6	83.6	9.3	80.6	160.7	690.9	137.3	71.4	67.0	1,034.3
1996	100.0	431.9	5.7	81.0	9.6	82.9	166.8	724.7	140.9	78.2	68.2	1,051.1
1997	105.4	391.6	5.9	87.7	10.0	86.8	170.7	761.9	144.8	86.9	71.5	1,103.3
1998	101.9	365.0	5.6	85.1	10.0	84.3	171.0	760.3	137.6	104.6	67.6	1,041.8
1999	106.9	339.5	5.7	87.8	10.3	86.3	172.0	802.6	137.3	124.5	67.7	1,040.9
2000	109.0	343.2	5.9	90.3	10.6	89.0	177.0	829.4	141.0	130.5	69.7	1,071.2

B13. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 4, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000

Year	Ag Livestock	Ag Crops	Nonmet Mining	Constr	Trans	Comm & Pub Util	Ag Proc Misc Mnfg	Retail Trade	FIRE	Bus & Pers Serv	Prof & Soc Serv	Households
1958	116.2	427.8	4.5	66.8	7.4	57.9	149.4	500.0	103.9	44.5	47.0	718.1
1959	116.4	461.4	4.9	75.8	7.3	60.2	156.6	522.5	108.1	46.0	48.4	738.7
1960	105.6	430.8	4.8	79.6	7.2	59.3	164.5	510.4	106.6	44.9	48.2	739.0
1961	117.8	456.6	5.2	76.3	8.1	64.4	179.4	552.0	115.5	48.7	53.0	806.8
1962	119.6	371.0	5.2	80.0	8.5	76.7	173.7	620.1	131.8	54.1	65.4	1,009.4
1963	125.6	467.7	5.6	83.8	9.3	80.0	212.7	664.5	140.1	58.2	67.0	1,032.1
1964	137.2	423.4	7.3	112.8	11.5	103.2	221.1	817.9	174.8	71.6	88.5	1,378.0
1965	141.8	636.8	7.2	107.1	11.3	94.5	243.5	804.7	167.9	71.6	77.9	1,193.5
1966	141.4	540.9	7.0	101.5	11.4	96.3	237.6	802.2	167.2	73.1	80.5	1,239.4
1967	132.9	564.3	6.4	93.8	10.6	87.0	244.2	746.9	153.3	69.6	71.3	1,096.0
1968	126.6	513.6	6.5	97.7	10.6	91.2	240.9	771.3	157.5	73.3	75.3	1,162.4
1969	132.7	557.4	7.4	124.1	11.2	92.3	311.1	785.5	160.2	75.3	75.3	1,155.2
1970	146.2	634.3	23.6	668.9	17.3	131.1	304.2	1,068.1	217.7	96.9	102.4	1,568.0
1971	130.5	545.8	9.1	185.9	11.9	98.6	291.8	831.6	169.1	79.6	80.3	1,236.8
1972	154.4	729.6	11.8	242.5	14.5	118.4	325.3	1,004.0	206.5	92.8	96.2	1,476.0
1973	203.2	1,194.0	13.4	221.7	19.8	159.0	460.3	1,383.2	285.4	124.9	128.4	1,963.7
1974	215.1	1,356.9	15.5	273.6	21.6	170.4	518.9	1,492.5	308.4	133.3	136.5	2,081.0
1975	177.0	935.3	11.5	189.3	17.1	140.1	432.1	1,197.1	247.6	109.6	114.4	1,754.0
1976	192.1	776.3	10.6	163.0	17.2	146.0	528.1	1,207.0	251.3	111.6	121.5	1,874.0
1977	160.5	722.5	8.3	118.6	14.0	114.8	443.7	979.8	200.7	93.0	93.7	1,438.2
1978	168.2	805.4	8.7	115.4	14.9	121.4	455.6	1,045.9	213.7	99.4	98.8	1,515.8
1979	180.9	833.4	8.8	118.6	15.2	123.3	495.8	1,057.0	217.8	98.1	100.4	1,537.0
1980	211.1	875.6	9.9	140.0	16.3	133.6	508.9	1,133.8	235.3	103.4	109.2	1,673.5
1981	169.0	883.0	9.4	131.5	15.6	127.5	492.0	1,093.4	226.2	100.4	103.7	1,588.6
1982	151.1	792.4	8.2	113.3	13.9	113.9	412.2	981.4	202.3	90.8	92.7	1,420.6
1983	176.8	1,001.6	10.6	145.3	17.4	144.4	444.3	1,242.3	257.0	113.6	118.3	1,814.5
1984	165.1	840.9	9.9	142.6	16.0	135.5	427.6	1,141.4	237.8	103.7	112.1	1,724.0
1985	167.3	848.6	9.9	142.7	16.3	138.3	427.1	1,164.3	242.4	105.9	114.6	1,763.8
1986	167.3	854.3	9.9	142.3	16.5	139.6	423.7	1,174.7	244.7	106.7	115.8	1,782.7
1987	172.2	844.8	9.8	137.6	16.3	138.4	427.2	1,165.8	242.7	106.4	114.8	1,767.1
1988	185.6	1,079.3	11.3	156.1	18.7	155.7	468.8	1,337.1	277.7	120.9	128.0	1,964.6
1989	177.0	593.4	8.5	121.9	14.3	124.6	411.6	1,018.0	212.4	94.4	104.8	1,619.4
1990	157.6	714.1	9.4	135.4	15.6	135.2	412.3	1,120.6	233.1	103.8	113.3	1,749.9
1991	152.7	740.6	9.6	138.4	15.8	136.6	415.4	1,138.1	236.0	106.0	114.1	1,762.4
1992	165.3	811.0	10.4	151.3	17.1	147.6	443.4	1,232.8	255.4	114.9	123.2	1,900.9
1993	162.2	700.1	9.7	142.7	16.3	141.5	429.3	1,175.0	241.6	112.8	118.5	1,831.4
1994	161.2	704.9	10.1	147.3	16.9	148.5	457.9	1,232.6	252.2	120.1	124.5	1,925.3
1995	166.0	763.3	10.5	154.5	17.7	152.3	493.9	1,284.8	259.1	128.9	126.5	1,952.1
1996	170.8	782.5	10.5	148.9	18.1	154.7	519.2	1,324.3	262.0	138.7	127.3	1,962.9
1997	179.2	760.2	11.1	164.1	19.3	165.6	549.1	1,423.5	276.7	155.8	136.1	2,101.7
1998	183.9	829.5	11.5	166.9	20.2	168.4	584.8	1,493.6	280.1	183.7	135.2	2,080.4
1999	201.2	896.8	12.3	178.6	21.9	179.0	609.0	1,637.8	295.3	214.2	141.2	2,167.8
2000	210.2	869.0	12.3	180.8	22.2	181.4	626.5	1,660.5	297.3	220.8	143.0	2,196.1

B14. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUT MODEL, NORTH DAKOTA REGION 5, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000

Year	Ag Livestock	Ag Crops	Nonmet Mining	Constr	Trans	Comm & Pub Util	Ag Proc Misc Mnfg	Retail Trade	FIRE	Bus & Pers Serv	Prof & Soc Serv	Households
1958	247.3	532.1	6.4	91.0	10.9	83.6	329.4	700.3	146.9	61.3	68.2	1,040.1
1959	247.6	522.5	6.4	96.9	10.3	80.7	309.7	676.6	141.4	59.7	65.1	991.7
1960	210.8	484.8	5.8	90.2	9.2	67.5	305.8	576.5	120.1	50.7	53.5	815.2
1961	253.8	601.1	7.2	105.0	11.9	94.5	339.7	788.6	166.0	69.2	76.8	1,177.0
1962	231.2	364.4	6.1	85.7	9.9	81.9	286.3	652.5	138.4	57.4	68.7	1,055.6
1963	244.8	574.2	7.4	101.9	12.1	98.7	332.7	817.1	172.2	71.7	81.4	1,251.7
1964	235.3	451.8	7.3	112.4	11.5	98.2	323.9	790.4	167.0	70.2	82.6	1,269.7
1965	260.1	580.6	8.1	117.9	12.6	104.0	346.1	860.0	179.6	77.4	85.5	1,313.2
1966	277.0	629.3	8.3	118.2	13.6	112.5	367.2	938.3	194.7	86.7	92.8	1,424.1
1967	273.5	606.8	8.1	115.1	13.6	109.1	375.8	915.1	188.1	85.8	89.6	1,374.5
1968	248.3	560.0	7.7	114.4	13.0	107.9	366.7	902.3	184.0	87.5	88.7	1,361.0
1969	255.2	622.2	8.5	125.3	13.6	109.4	475.2	924.4	187.7	89.6	88.4	1,355.3
1970	242.4	616.2	8.5	132.6	13.3	105.0	430.6	895.8	180.5	88.4	84.3	1,290.2
1971	249.7	631.4	8.8	134.7	13.7	107.7	446.2	920.4	185.2	90.8	86.6	1,324.4
1972	290.3	824.8	9.8	145.0	15.8	124.5	488.1	1,073.0	218.3	102.3	100.9	1,527.4
1973	382.3	1,475.9	14.7	214.1	23.3	176.2	696.4	1,566.7	319.8	144.0	138.6	2,101.9
1974	385.9	1,504.2	14.3	192.0	23.4	175.7	754.2	1,564.2	320.7	142.6	138.3	2,093.8
1975	306.4	929.4	11.8	192.2	17.6	135.3	620.9	1,165.5	237.2	110.2	107.2	1,632.9
1976	320.1	924.6	10.1	124.5	17.7	135.4	791.2	1,165.2	236.6	112.3	107.0	1,630.1
1977	292.2	1,017.4	10.7	138.6	18.1	140.0	693.3	1,222.5	248.0	117.2	111.0	1,691.4
1978	307.1	1,113.2	11.5	156.2	19.8	152.7	710.2	1,334.2	270.5	127.6	121.4	1,848.0
1979	318.0	1,113.5	11.5	151.4	19.5	149.4	762.8	1,299.3	265.5	121.7	118.2	1,799.0
1980	321.1	1,125.0	12.0	164.6	19.9	153.1	757.6	1,324.1	272.1	122.3	121.8	1,854.6
1981	270.6	1,130.6	11.0	144.5	18.9	144.5	736.7	1,267.0	259.1	117.9	114.3	1,738.3
1982	241.7	977.9	9.5	122.6	16.5	126.5	611.4	1,111.5	226.4	104.7	100.2	1,523.3
1983	258.4	1,146.5	11.3	149.0	19.3	150.9	632.0	1,323.1	270.2	124.0	120.6	1,838.5
1984	253.4	1,022.3	10.8	148.0	18.1	144.1	626.0	1,243.9	255.8	115.4	116.0	1,771.8
1985	258.1	1,131.2	11.5	154.9	19.5	154.1	637.0	1,337.9	274.8	123.8	123.9	1,891.8
1986	245.2	956.9	10.5	141.4	17.6	141.4	605.0	1,212.6	249.1	113.1	114.3	1,748.3
1987	262.7	995.7	10.6	140.9	18.2	144.6	620.3	1,244.1	255.4	116.3	116.6	1,782.3
1988	263.3	1,162.4	11.6	153.9	19.8	156.1	653.4	1,361.3	279.1	126.5	125.3	1,912.3
1989	218.9	899.7	10.0	133.7	17.1	138.5	608.3	1,184.5	242.6	112.2	112.2	1,720.0
1990	241.2	955.7	10.6	143.7	18.1	146.4	616.8	1,254.1	256.6	118.8	118.7	1,816.9
1991	224.6	945.9	10.5	143.6	17.9	144.7	611.5	1,243.9	253.6	119.0	117.1	1,794.5
1992	237.4	961.4	11.0	151.6	18.6	151.0	640.9	1,295.1	263.5	124.7	122.4	1,875.1
1993	219.7	829.2	10.2	141.3	17.5	142.6	618.0	1,219.9	245.3	121.9	115.7	1,776.9
1994	228.8	929.5	11.1	152.4	19.2	156.5	677.7	1,347.6	269.7	136.1	126.6	1,943.8
1995	228.8	955.4	11.3	157.6	19.7	158.9	722.8	1,387.0	272.9	145.4	127.4	1,952.5
1996	246.8	1,133.5	12.4	165.0	22.1	174.6	784.2	1,560.4	301.6	168.7	138.4	2,115.2
1997	261.8	1,129.8	13.2	180.3	23.5	186.8	834.6	1,680.4	318.0	190.5	147.5	2,256.6
1998	268.4	1,066.4	13.4	182.9	25.1	197.4	900.6	1,747.8	319.8	353.7	147.8	2,249.9
1999	293.9	1,257.0	15.0	204.9	28.5	220.6	918.1	2,022.0	357.2	412.2	162.6	2,468.9
2000	302.6	1,200.3	15.0	205.8	28.7	222.6	941.3	2,035.0	356.3	434.9	163.4	2,480.3

B15. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 6, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000												
Year	Ag Livestock	Ag Crops	Nonmet Mining	Constr	Trans	Comm & Pub Util	Ag Proc Misc Mnfg	Retail Trade	FIRE	Bus & Pers Serv	Prof & Soc Serv	Households
1958	320.0	567.8	5.9	71.2	9.4	67.8	273.0	596.4	123.6	52.4	52.9	795.3
1959	306.8	458.9	5.4	69.5	8.3	60.7	244.1	524.0	108.6	46.5	47.5	715.3
1960	255.2	456.3	5.3	71.4	8.2	58.9	225.3	509.9	105.6	44.4	46.3	698.5
1961	293.4	431.8	5.2	65.8	8.1	58.7	234.3	504.8	105.0	44.4	46.3	697.5
1962	286.3	529.7	5.7	67.3	8.9	65.9	234.0	574.9	119.1	50.4	51.8	779.2
1963	293.6	506.3	5.6	67.5	8.8	65.6	236.4	568.6	117.7	50.3	51.7	777.6
1964	297.2	467.0	5.5	73.9	8.7	64.7	235.8	558.3	115.1	50.5	51.4	772.5
1965	333.0	520.7	5.9	79.2	9.9	71.1	256.5	615.2	126.0	56.3	55.8	842.0
1966	353.6	571.1	6.1	79.7	10.5	76.6	274.4	671.3	136.5	62.6	60.4	908.5
1967	352.4	540.1	6.4	78.1	10.2	75.2	273.9	656.9	132.5	62.4	59.0	887.0
1968	325.6	581.2	6.5	81.8	10.6	78.1	269.4	692.3	138.4	67.2	61.1	920.6
1969	316.9	592.7	6.6	81.5	11.2	82.2	297.9	724.6	145.5	70.2	64.8	980.2
1970	308.7	554.3	7.0	102.4	11.1	81.8	278.5	717.1	143.3	70.4	64.8	979.4
1971	317.4	576.3	6.3	79.3	11.2	84.2	288.0	739.7	148.0	73.0	66.6	1,012.3
1972	376.4	722.5	7.7	93.5	13.1	97.2	331.0	854.7	172.9	81.1	76.7	1,159.8
1973	452.7	941.4	9.2	110.9	15.9	118.5	418.3	1,049.4	213.4	97.8	93.3	1,407.1
1974	412.2	1,188.0	10.5	122.8	17.8	133.0	445.8	1,199.6	245.0	109.3	104.4	1,573.5
1975	386.6	962.6	9.1	112.6	15.8	116.6	398.4	1,042.2	211.5	97.1	91.7	1,386.6
1976	387.9	688.5	7.8	102.0	13.4	98.9	418.0	863.6	173.8	83.5	77.9	1,179.4
1977	358.8	688.1	7.6	94.4	13.1	97.7	375.4	856.4	172.4	82.7	77.3	1,170.9
1978	383.0	855.5	8.9	110.3	15.1	112.7	405.2	998.9	201.1	95.7	89.0	1,345.5
1979	448.7	902.9	9.4	118.0	16.0	117.6	454.0	1,034.4	210.4	96.3	92.6	1,398.9
1980	392.0	742.2	8.3	103.6	14.1	104.9	408.1	908.8	185.6	84.4	83.3	1,262.2
1981	359.4	993.8	9.4	116.7	15.8	117.7	423.4	1,052.2	214.2	97.0	92.5	1,397.5
1982	340.3	922.3	8.6	104.5	14.7	108.7	377.3	974.8	197.9	90.5	85.3	1,288.7
1983	351.4	893.6	8.9	111.7	15.1	113.6	377.3	1,007.6	204.5	94.3	90.0	1,363.9
1984	347.9	872.3	8.8	115.4	14.8	113.3	376.5	995.7	203.5	91.8	90.1	1,366.0
1985	344.0	842.8	8.7	112.3	14.7	111.9	370.4	981.7	200.3	91.1	89.2	1,353.7
1986	322.1	719.7	7.8	102.0	13.2	102.2	344.7	887.7	181.1	83.1	81.7	1,243.0
1987	355.8	717.7	8.0	100.7	13.5	103.8	360.1	861.8	183.4	84.4	83.1	1,260.6
1988	356.1	692.6	7.9	100.6	13.3	102.4	361.4	884.8	180.2	83.5	81.9	1,244.4
1989	287.4	571.8	6.9	89.5	11.8	92.7	318.9	793.9	161.1	76.4	74.8	1,141.7
1990	337.8	756.0	8.4	108.1	14.2	110.9	360.2	961.5	195.5	91.1	89.1	1,355.7
1991	297.8	708.2	8.0	104.2	13.5	105.2	338.1	915.1	185.1	88.0	84.6	1,288.8
1992	310.7	776.9	8.6	113.8	14.6	113.4	358.7	990.6	200.0	95.6	91.1	1,387.8
1993	295.8	718.2	8.2	108.5	14.0	109.8	345.5	961.4	191.9	95.8	88.1	1,343.5
1994	271.9	713.8	8.3	109.1	14.0	111.7	348.2	982.3	194.2	100.3	89.6	1,368.7
1995	247.4	703.8	8.1	110.2	14.0	110.2	349.3	984.8	190.7	105.3	87.8	1,340.2
1996	244.0	821.8	8.7	114.3	15.4	120.1	371.5	1,099.6	208.9	121.7	94.6	1,440.9
1997	255.3	734.4	8.7	118.9	15.5	121.9	380.2	1,122.8	207.0	132.8	95.8	1,460.4
1998	244.6	751.0	8.9	121.0	16.2	125.2	390.1	1,185.7	209.1	167.5	95.7	1,455.8
1999	259.1	689.9	8.9	123.0	16.8	127.2	393.4	1,245.4	206.3	192.7	95.2	1,445.3
2000	260.3	780.2	9.5	131.9	18.0	136.9	412.6	1,343.2	223.4	210.7	102.2	1,550.6

B16. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 7, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000												
Year	Ag Livestock	Ag Crops	Nonmet Mining	Constr	Trans	Comm & Pub Util	Ag Proc Misc Mnfg	Retail Trade	FIRE	Bus & Pers Serv	Prof & Soc Serv	Households
1958	365.5	418.9	5.4	75.2	10.4	67.3	301.2	552.9	115.2	48.5	52.4	789.3
1959	348.3	305.8	5.4	76.3	8.8	59.7	269.1	477.5	99.8	42.6	46.5	705.5
1960	281.2	334.8	5.3	81.0	8.7	59.8	251.8	484.3	101.3	42.5	47.3	714.9
1961	331.6	213.3	4.8	67.3	8.1	53.9	259.1	417.9	87.8	37.2	42.9	647.4
1962	317.8	453.9	6.1	79.1	10.4	73.9	272.1	610.2	127.6	54.1	58.9	891.7
1963	330.9	413.7	5.6	77.7	10.2	72.1	281.1	591.0	123.3	52.6	57.2	871.1
1964	345.0	404.6	6.4	94.0	11.0	78.9	292.2	639.0	133.5	57.3	63.8	967.4
1965	388.4	452.7	6.8	95.9	11.7	81.0	314.6	666.5	137.7	60.3	64.4	975.2
1966	433.3	488.4	7.0	95.8	12.7	89.3	343.5	737.4	152.3	68.3	70.9	1,074.4
1967	428.0	426.3	6.8	91.3	12.3	84.1	342.3	691.7	142.3	66.2	66.7	1,005.5
1968	409.4	440.0	6.9	95.2	12.6	87.5	341.1	724.1	148.1	71.2	69.2	1,047.2
1969	406.9	471.7	7.8	107.8	13.6	97.0	398.0	797.5	163.7	78.0	77.2	1,174.2
1970	402.6	434.6	7.4	98.0	12.9	95.0	371.6	777.9	159.5	77.0	75.9	1,152.1
1971	418.5	433.9	7.4	98.9	13.3	99.3	384.8	810.2	166.6	80.3	80.0	1,213.6
1972	496.5	566.4	8.7	116.0	15.8	117.1	436.3	953.9	199.1	90.5	94.2	1,430.2
1973	603.1	777.6	10.5	128.4	19.1	141.4	558.5	1,168.5	243.7	108.6	113.4	1,721.2
1974	520.9	746.6	10.2	129.8	18.4	135.3	548.4	1,114.3	233.3	102.9	108.7	1,649.5
1975	490.9	701.1	10.7	153.5	18.2	135.6	512.0	1,112.0	231.6	103.7	109.4	1,663.6
1976	523.3	572.9	9.9	137.7	17.7	129.8	605.8	1,043.3	218.6	99.7	104.3	1,581.7
1977	473.6	437.5	9.5	139.6	16.6	126.0	516.2	989.5	208.7	95.1	102.7	1,566.1
1978	492.0	587.9	10.2	145.6	18.0	135.2	543.3	1,087.0	229.3	104.3	109.0	1,654.7
1979	592.5	595.6	12.3	196.1	20.9	154.7	619.1	1,207.5	260.4	111.2	125.4	1,901.5
1980	656.4	509.1	12.6	199.5	22.0	160.3	635.8	1,215.8	266.3	110.3	129.9	1,974.9
1981	481.2	654.0	12.4	187.9	23.5	169.7	578.5	1,308.6	285.9	118.8	138.0	2,098.0
1982	460.8	613.7	10.7	155.9	20.8	148.0	512.7	1,150.9	251.9	105.5	119.1	1,800.0
1983	485.9	619.1	11.7	174.2	21.9	159.3	524.5	1,232.5	270.6	113.9	128.7	1,943.3
1984	494.5	590.1	12.3	191.6	22.3	166.0	534.5	1,264.6	281.1	114.5	134.9	2,038.5
1985	491.7	653.5	12.5	190.9	23.0	171.6	542.6	1,313.3	292.1	119.0	138.6	2,086.3
1986	461.6	563.4	11.5	178.1	21.2	161.6	514.8	1,229.5	274.3	112.1	131.3	1,978.7
1987	514.8	542.5	12.0	178.9	22.5	171.8	556.8	1,283.3	301.3	117.4	139.3	2,080.3
1988	538.2	416.1	11.5	177.0	21.9	166.2	564.4	1,214.7	290.8	112.0	134.9	2,009.7
1989	392.0	386.2	10.7	165.2	20.7	159.9	496.1	1,168.9	277.0	108.8	130.6	1,953.1
1990	490.6	429.7	11.8	181.6	22.5	171.0	538.7	1,257.1	294.7	116.7	139.3	2,087.5
1991	425.6	440.7	11.5	181.6	21.6	167.1	513.0	1,238.4	289.9	116.3	136.3	2,043.0
1992	452.7	533.8	12.7	201.2	23.4	182.3	551.6	1,365.5	318.2	128.2	148.6	2,225.6
1993	438.5	602.8	13.0	202.8	24.3	189.4	555.6	1,439.1	332.0	137.7	154.0	2,305.6
1994	400.6	538.8	12.6	198.6	23.6	187.8	555.2	1,426.9	326.8	139.9	153.3	2,300.3
1995	372.4	554.9	12.8	206.2	23.8	187.5	566.4	1,445.1	324.3	146.9	151.9	2,279.4
1996	363.3	592.8	12.8	197.6	24.8	194.2	587.7	1,520.9	335.6	161.4	156.2	2,340.6
1997	401.8	589.5	14.0	221.8	26.5	207.7	627.8	1,649.8	353.8	182.9	166.7	2,505.8
1998	390.9	600.0	14.1	224.8	27.3	212.5	648.8	1,714.6	356.3	265.6	165.4	2,475.3
1999	425.0	616.5	14.9	240.6	29.2	223.2	672.6	1,861.4	368.2	300.0	171.2	2,559.7
2000	420.4	634.1	15.6	254.9	31.5	236.8	694.9	1,963.3	392.1	319.3	181.3	2,708.6

B17. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 8, MILLION DOLLARS (2000=BASE DOLLARS), 1958-2000												
Year	Ag Livestock	Ag Crops	Nonmet Mining	Constr	Trans	Comm & Pub Util	Ag Proc Misc Mnfgr	Retail Trade	FIRE	Bus & Pers Serv	Prof & Soc Servi	Households
1958	184.5	282.9	3.0	35.6	4.9	34.6	134.5	302.2	62.3	26.2	26.7	402.6
1959	177.6	193.2	2.4	31.8	3.9	28.4	120.8	239.7	49.9	21.0	22.0	331.2
1960	140.4	189.1	2.4	31.8	3.9	26.5	108.1	226.2	46.8	20.3	20.7	313.6
1961	162.2	156.0	2.4	28.6	3.8	25.8	116.9	211.4	43.9	18.6	20.0	299.6
1962	152.1	228.8	2.4	32.0	4.7	31.1	121.0	262.2	54.1	23.5	24.0	358.3
1963	162.4	280.1	2.8	36.8	5.1	35.8	138.2	307.1	63.3	27.0	27.5	413.7
1964	165.1	213.8	2.8	35.8	4.6	31.7	133.5	266.5	55.0	23.9	24.3	368.8
1965	189.5	245.3	3.2	40.1	5.4	36.0	146.7	302.4	62.1	27.5	27.5	414.5
1966	211.8	300.7	3.5	44.6	6.6	42.0	165.0	358.0	73.1	32.8	31.9	483.2
1967	221.7	304.9	3.8	45.9	6.8	43.3	160.1	368.2	74.3	34.4	32.7	493.4
1968	211.6	240.9	3.3	45.2	6.5	40.3	162.8	332.5	66.3	32.6	30.1	452.6
1969	208.7	243.6	3.5	48.9	6.6	43.1	183.1	354.5	71.4	34.1	33.0	496.5
1970	202.6	253.4	3.7	50.8	7.0	46.0	173.5	377.2	75.9	37.2	35.4	534.8
1971	212.6	250.1	3.9	54.7	6.7	43.5	179.6	361.6	72.3	35.8	33.0	499.5
1972	268.8	342.1	4.4	52.8	8.1	52.5	215.3	439.6	89.1	41.4	40.0	601.7
1973	333.5	524.1	5.7	65.9	10.5	70.1	284.8	599.9	122.7	54.8	53.5	804.7
1974	307.2	635.8	6.4	82.7	12.3	79.5	298.2	678.5	139.1	61.1	59.9	899.4
1975	276.5	382.4	5.1	65.8	9.9	61.2	248.4	497.9	101.3	46.3	45.7	689.0
1976	233.3	345.9	4.8	66.3	9.6	59.0	261.9	470.9	95.1	44.8	43.3	652.1
1977	252.3	270.1	4.5	63.5	9.5	55.9	240.6	431.1	87.0	41.4	40.9	615.8
1978	254.5	331.8	5.3	81.4	10.7	63.0	248.3	491.1	99.2	46.6	45.9	693.3
1979	316.9	329.0	5.9	91.8	13.9	75.4	286.4	544.6	111.9	49.6	53.1	801.1
1980	326.0	230.6	7.3	130.6	20.1	90.8	278.7	564.8	117.3	50.1	58.7	891.0
1981	254.2	311.1	11.2	230.3	34.8	134.7	258.6	746.4	155.1	64.4	77.6	1,179.7
1982	232.3	315.7	9.9	200.2	30.7	118.6	228.0	671.2	138.6	58.5	68.2	1,035.4
1983	249.9	348.4	9.5	186.6	28.3	114.5	237.6	680.8	140.2	60.1	68.2	1,035.1
1984	255.5	344.6	8.8	169.0	25.2	106.7	241.7	653.3	135.2	57.2	65.6	995.4
1985	253.1	319.6	7.8	146.7	21.8	96.0	236.8	604.2	124.6	53.5	60.6	917.2
1986	232.0	291.2	5.5	91.4	13.2	69.8	221.6	493.9	101.5	45.1	48.6	736.2
1987	258.6	293.2	5.8	93.4	13.9	72.0	234.0	507.2	104.2	46.2	49.9	756.2
1988	263.6	195.2	4.7	73.7	10.8	58.9	227.0	416.7	85.5	39.0	42.0	638.2
1989	203.5	357.5	5.5	85.1	12.3	70.4	221.4	529.6	108.4	48.8	50.9	771.6
1990	235.7	207.3	5.1	83.3	12.1	64.7	216.3	450.1	92.1	42.3	45.7	694.1
1991	202.8	219.0	4.8	79.2	11.2	62.1	204.0	442.7	90.0	42.3	44.3	673.5
1992	219.3	289.3	5.2	83.3	11.7	67.6	224.1	502.7	102.0	47.8	49.1	746.2
1993	208.4	343.2	5.4	82.0	11.4	69.7	225.6	539.7	108.5	52.4	51.3	779.3
1994	187.2	271.7	4.8	73.2	10.3	63.4	217.5	490.6	97.3	49.7	47.0	716.1
1995	177.3	301.5	5.2	83.7	11.7	68.5	226.0	530.1	103.4	55.4	49.6	754.2
1996	178.0	320.9	5.9	97.1	14.2	76.5	235.1	579.2	111.1	62.9	53.1	808.4
1997	188.8	303.1	6.3	109.1	15.8	82.6	247.6	621.4	116.4	71.1	56.4	859.1
1998	179.7	286.3	5.5	89.9	13.0	74.6	250.1	607.3	107.9	89.0	51.7	786.1
1999	197.0	293.1	6.1	102.3	14.9	82.7	261.7	683.2	116.0	104.9	55.7	845.4
2000	204.7	333.5	7.2	124.8	18.4	95.7	275.8	761.6	130.8	113.9	62.8	953.3

TABLE B18. EMPLOYMENT BY ECONOMIC SECTOR, NORTH DAKOTA, 1958-2000^a

Year	(1) & (2) Ag	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	TOTAL
1958	99,670	130	14,430	6,558	7,995	16,448	36,400	5,070	12,474	14,067	--	30,260	380	60	1,903	335	246,180
1959	94,670	127	15,879	6,637	8,121	16,812	37,385	5,380	13,312	15,009	--	31,280	383	60	1,800	325	247,180
1960	91,750	123	13,860	6,585	8,032	16,608	37,627	5,580	13,613	15,350	--	31,500	383	60	1,344	315	242,730
1961	87,670	130	13,619	6,351	7,686	16,279	37,277	5,710	14,177	15,986	--	32,310	382	60	1,438	305	239,380
1962	87,670	115	15,644	6,225	7,629	16,789	36,352	5,940	14,634	16,501	--	33,920	381	60	1,274	296	243,430
1963	82,750	109	14,476	6,143	7,573	18,154	37,952	6,070	15,257	17,204	--	36,370	365	75	1,206	286	243,990
1964	78,000	113	15,291	6,071	7,503	19,055	39,226	6,230	15,804	17,821	--	38,740	349	83	1,278	276	245,840
1965	74,750	135	15,128	5,986	7,484	19,711	39,755	6,360	15,737	17,746	--	40,320	289	127	1,506	266	245,300
1966	70,660	135	12,071	6,033	7,667	20,085	40,235	6,450	16,076	18,129	--	42,080	354	188	1,441	266	241,870
1967	65,170	128	11,242	6,027	7,724	19,894	39,819	6,710	16,818	18,966	--	44,420	345	194	1,357	266	239,080
1968	63,500	125	10,565	5,941	7,680	20,335	40,119	6,740	17,329	19,542	--	47,240	337	193	1,328	256	241,230
1969	60,750	136	10,467	5,921	7,686	20,617	40,544	6,800	17,392	19,611	--	48,330	325	196	1,399	247	240,420
1970	51,920	132	12,407	5,721	7,012	19,796	40,049	6,422	17,598	19,851	--	44,920	334	239	1,003	216	227,620
1971	51,410	132	13,135	5,736	7,050	20,282	40,805	6,568	18,579	20,950	--	45,019	357	249	981	207	231,460
1972	51,580	129	14,884	5,677	7,089	21,713	42,945	6,809	19,406	21,884	--	45,927	374	269	934	200	239,820
1973	51,080	128	14,064	5,751	7,279	23,979	44,936	7,074	20,359	22,957	--	46,481	384	281	908	209	245,870
1974	52,670	137	14,869	5,874	7,486	26,022	46,639	7,479	21,387	24,118	--	47,527	356	312	1,033	201	256,110
1975	48,750	150	17,095	5,804	7,357	29,945	48,809	7,850	22,651	25,543	--	50,053	426	334	1,352	201	266,320
1976	51,250	156	19,363	5,941	7,611	30,772	52,205	8,397	23,658	26,679	--	51,633	514	354	1,645	202	280,380
1977	56,750	161	20,125	6,228	7,962	30,713	53,279	9,075	24,616	27,758	--	52,841	599	358	2,051	204	292,720
1978	54,270	165	22,555	6,690	8,583	32,326	54,437	9,627	26,090	29,421	--	55,079	742	363	2,996	206	303,550
1979	52,450	170	22,325	7,199	9,276	34,448	56,146	10,089	27,292	30,775	--	55,817	809	368	3,969	207	311,340
1980	52,680	175	19,996	7,525	9,724	32,701	55,928	10,532	28,114	31,704	--	56,057	970	386	6,066	212	312,770
1981	52,270	180	18,161	7,741	9,995	32,962	55,175	10,814	29,806	33,610	--	55,784	1,134	498	8,753	217	317,100
1982	51,370	184	19,240	7,620	9,722	32,469	55,960	10,845	31,299	35,295	--	55,596	1,302	553	7,202	193	319,350
1983	51,370	189	21,292	7,342	9,371	31,579	56,303	11,013	32,367	36,500	--	56,467	1,395	599	4,885	198	320,870
1984	50,870	194	17,528	7,530	9,546	32,380	58,358	11,242	33,453	37,725	--	57,123	1,557	646	5,065	203	323,420
1985	50,370	189	14,644	7,574	9,506	31,649	59,537	11,476	33,983	38,322	--	58,127	1,358	682	4,786	207	322,410
1986	49,870	230	13,374	7,680	9,660	31,153	58,824	11,471	34,457	38,856	--	59,338	1,198	691	2,856	221	319,879
1987	49,370	254	13,334	7,782	9,720	31,421	59,273	11,572	35,345	39,858	--	59,568	1,130	715	2,397	230	321,969
1988	48,870	231	12,286	8,023	10,022	32,020	59,958	11,357	36,726	41,416	--	59,738	1,108	785	2,493	249	325,282
1989	48,370	277	11,980	8,126	10,151	32,325	60,939	11,279	38,385	42,113	--	60,647	1,063	809	2,311	287	329,062
1990	47,870	278	12,144	8,181	10,219	32,900	61,752	11,390	39,346	44,386	--	60,560	1,019	833	2,685	296	333,859
1991	47,370	302	12,440	8,173	10,210	33,335	63,530	11,778	39,374	46,078	--	60,930	1,043	858	2,690	306	338,417
1992	46,870	279	13,202	8,335	10,413	34,005	64,270	12,078	40,806	47,588	--	62,064	1,115	883	2,230	325	344,463
1993	46,370	298	13,933	8,526	10,651	34,670	66,150	12,522	42,870	48,645	--	62,470	1,145	917	2,141	349	351,657
1994	45,870	327	15,216	8,937	11,164	37,071	67,284	12,973	46,598	49,155	--	62,811	1,167	929	1,960	359	361,821
1995	45,370	337	16,054	8,862	11,070	38,045	69,327	12,856	45,544	50,717	--	66,666	1,206	944	2,057	374	369,429
1996	44,870	342	17,657	8,775	10,962	38,669	69,680	13,483	48,231	51,905	--	66,196	1,156	974	2,341	384	375,625
1997	44,370	356	17,415	8,669	10,830	40,815	70,195	13,871	49,926	53,256	--	66,073	1,065	1,008	2,468	398	380,715
1998	43,870	375	17,992	8,572	10,709	41,420	70,483	14,682	52,789	53,561	--	66,188	1,093	1,041	2,332	413	385,520
1999	43,370	399	19,913	8,886	11,100	41,516	70,584	15,357	54,702	53,990	--	67,159	1,198	1,080	1,644	423	391,321
2000	42,870	376	19,139	9,019	11,267	42,062	71,460	15,603	55,402	54,098	--	68,474	1,175	1,081	1,974	423	394,423

^aIncludes nonagricultural self-employed, unpaid family and domestics (proprietors), and adjusted wage and salary employment (i.e., employees, not jobs).

TABLE B19. EMPLOYMENT BY ECONOMIC SECTOR, NORTH DAKOTA REGION 1, 1958-2000*

Year	(1) & (2) Ag	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	TOTALS
1958	5,281	--	1,042	577	709	754	2,001	193	688	777	--	1,301	47	--	779	28	14,177
1959	5,016	--	1,147	584	719	771	2,055	205	735	828	--	1,346	48	--	736	27	14,217
1960	4,924	--	956	591	726	732	2,049	203	735	829	--	1,285	50	--	623	26	13,729
1961	4,764	--	895	581	709	689	2,009	197	747	845	--	1,245	54	--	745	26	13,506
1962	4,824	--	978	582	718	680	1,941	195	754	853	--	1,231	56	--	729	25	13,566
1963	4,608	--	783	480	596	940	1,909	189	774	873	--	1,263	29	--	731	25	13,200
1964	4,397	--	699	382	474	1,203	1,852	184	788	888	--	1,285	6	--	818	25	13,001
1965	4,250	--	435	378	479	947	1,767	223	752	853	--	1,337	6	--	951	25	12,403
1966	4,055	--	671	367	375	979	1,822	231	793	862	--	1,275	7	--	990	25	12,452
1967	3,779	--	587	333	381	919	1,811	236	831	920	--	1,370	4	--	894	26	12,091
1968	3,719	--	515	296	384	886	1,832	235	857	965	--	1,484	2	--	836	25	12,036
1969	3,601	--	491	274	357	951	1,828	243	785	887	--	1,514	2	--	752	25	11,710
1970	3,077	--	646	237	288	931	1,794	194	834	941	--	1,413	3	--	613	23	10,994
1971	3,047	--	656	242	294	921	1,760	218	873	968	--	1,414	2	--	526	23	10,944
1972	3,058	--	774	237	292	857	1,765	219	934	1,054	--	1,420	2	--	559	23	11,194
1973	3,028	--	709	210	266	892	1,825	211	957	1,083	--	1,446	2	--	616	25	11,270
1974	3,122	--	592	187	240	921	2,012	235	874	975	--	1,495	1	--	662	25	11,341
1975	2,952	--	621	233	329	1,064	2,024	197	917	1,043	--	1,568	2	--	870	27	11,847
1976	3,088	--	713	267	342	1,146	2,186	268	960	1,082	--	1,630	2	--	1,124	28	12,836
1977	3,401	--	757	308	390	1,106	2,311	273	983	1,106	--	1,630	2	--	1,245	30	13,542
1978	3,236	--	966	311	402	1,173	2,431	356	1,652	1,859	--	1,749	2	--	2,081	30	16,248
1979	3,128	--	1,019	363	475	1,334	2,586	335	1,168	1,326	--	1,769	2	--	2,295	30	15,830
1980	3,142	--	1,032	464	600	1,379	2,813	460	1,310	1,462	--	1,727	50	--	2,963	31	17,433
1981	3,117	--	1,290	863	563	1,774	3,214	456	1,543	1,560	--	1,719	37	--	4,207	32	20,375
1982	3,210	--	1,805	957	614	1,967	3,785	524	2,515	1,758	--	1,761	25	--	3,893	31	22,845
1983	3,179	--	1,513	694	555	1,566	3,085	507	2,086	1,656	--	1,849	27	--	2,343	32	19,092
1984	3,148	--	1,212	757	546	1,458	3,000	474	1,837	1,682	--	1,814	30	--	3,239	33	18,230
1985	3,117	--	1,013	760	543	1,425	3,060	484	1,866	1,708	--	1,847	26	--	2,108	34	17,991
1986	3,025	--	699	496	587	1,297	2,831	489	1,677	1,646	--	1,903	23	--	1,366	42	16,081
1987	2,904	--	564	373	563	983	2,497	482	1,484	1,634	--	1,857	23	--	1,195	44	14,603
1988	2,875	--	478	473	479	1,004	2,330	475	1,653	1,801	--	1,874	22	--	1,158	47	14,669
1989	2,845	--	389	345	482	935	2,221	458	1,448	1,719	--	1,867	21	--	1,012	54	13,796
1990	2,816	--	394	219	444	967	2,362	462	1,741	1,780	--	1,826	20	--	1,258	56	14,345
1991	2,786	--	437	194	450	1,018	2,496	513	1,628	1,866	--	1,793	21	--	1,252	58	14,512
1992	2,994	--	359	311	681	942	2,685	482	1,780	1,877	--	1,851	18	--	1,005	61	15,046
1993	2,962	--	357	287	453	1,066	2,590	492	1,671	1,777	--	1,867	18	--	890	66	14,496
1994	2,930	--	390	312	504	1,146	2,642	493	2,122	1,693	--	1,845	19	--	762	68	14,926
1995	2,899	--	363	300	466	1,119	2,567	487	1,902	1,741	--	1,953	20	--	837	71	14,725
1996	2,866	--	443	206	424	1,082	2,649	528	1,871	1,764	--	1,966	19	--	920	73	14,811
1997	2,994	--	434	322	315	1,222	2,660	459	2,010	1,402	--	1,923	22	--	971	75	14,809
1998	2,961	--	448	318	312	1,241	2,671	487	2,126	1,409	--	1,927	23	--	918	78	14,919
1999	2,927	--	408	232	339	1,101	2,732	490	2,166	1,634	--	1,924	25	--	648	80	14,706
2000	2,893	--	392	236	344	1,115	2,766	498	2,193	1,637	--	1,961	24	--	778	80	14,917

*Includes nonagricultural self-employed, unpaid family and domestics (proprietors), and adjusted wage and salary employment (i.e., employees, not jobs).

TABLE B20. EMPLOYMENT BY ECONOMIC SECTOR, NORTH DAKOTA REGION 2, 1958-2000*

Year	(1) & (2) Ag	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	TOTALS
1958	13,997	--	2,457	862	1,318	2,221	5,339	348	1,791	2,313	--	4,498	111	--	298	--	35,553
1959	13,294	--	2,704	872	1,339	2,269	5,482	369	1,910	2,467	--	4,650	113	--	281	--	35,750
1960	12,832	1	2,545	951	1,351	2,075	5,463	468	2,027	2,525	--	5,265	114	--	228	--	35,845
1961	12,210	2	2,682	1,001	1,322	1,870	5,359	566	2,187	2,629	--	5,997	113	--	259	--	36,197
1962	12,160	3	3,291	1,062	1,336	1,760	5,173	681	2,335	2,714	--	6,924	114	--	245	--	37,798
1963	11,421	2	3,835	1,012	1,376	2,224	6,143	712	2,753	2,850	--	7,784	127	--	255	--	40,494
1964	10,714	2	4,889	967	1,412	2,673	7,117	748	3,180	2,974	--	8,675	139	--	296	--	43,786
1965	10,427	--	1,526	965	1,310	2,539	6,634	794	2,182	2,933	--	9,029	82	--	387	--	38,808
1966	10,019	--	1,510	901	1,299	2,479	6,964	815	2,338	2,863	--	8,871	127	--	235	--	38,421
1967	9,410	--	1,308	882	1,181	2,525	6,510	820	2,449	2,919	--	9,876	111	--	215	--	38,206
1968	9,337	--	1,138	851	1,049	2,654	6,176	791	2,526	2,926	--	11,049	95	--	204	--	38,796
1969	9,114	--	1,365	798	1,029	2,679	6,025	787	2,457	2,849	--	11,147	90	--	263	--	38,603
1970	7,789	--	2,017	725	955	2,586	5,870	738	2,483	2,908	--	10,245	83	--	151	--	36,550
1971	7,712	--	2,054	688	859	2,519	6,023	766	2,632	3,428	--	10,232	71	--	231	--	37,215
1972	7,738	--	2,477	851	819	2,670	6,459	788	2,755	2,948	--	10,484	72	--	180	--	38,241
1973	7,662	--	1,799	785	703	3,012	6,538	831	2,800	3,069	--	10,622	72	--	132	--	38,025
1974	7,900	9	1,781	746	888	2,892	6,684	1,004	2,917	3,364	--	10,950	63	--	169	--	39,367
1975	7,240	9	2,008	756	824	3,110	6,980	988	3,241	3,772	--	11,003	50	--	185	--	40,166
1976	7,545	9	2,284	822	937	3,169	7,581	1,145	3,442	3,584	--	11,267	42	--	212	--	42,039
1977	8,282	18	2,074	840	875	3,209	7,695	1,240	3,152	4,086	--	11,411	49	--	277	--	43,208
1978	7,850	24	2,368	846	903	3,192	7,401	1,380	3,211	4,163	--	11,692	69	--	152	--	43,251
1979	7,588	--	2,108	798	901	3,608	7,786	1,129	3,380	4,489	--	11,849	74	--	489	--	44,199
1980	7,620	--	2,210	874	971	3,298	7,717	1,175	3,925	4,344	--	11,317	110	--	844	--	44,405
1981	7,562	--	2,045	815	984	3,565	7,498	1,119	4,025	4,514	--	11,261	111	--	1,013	--	44,512
1982	6,951	--	2,040	1,215	984	3,247	8,020	1,195	4,179	4,635	--	11,064	30	--	825	--	44,385
1983	6,884	--	2,495	1,131	995	3,254	8,057	1,234	4,461	4,666	--	11,223	32	--	576	--	45,008
1984	6,817	--	1,992	1,047	1,021	3,222	8,637	1,187	4,155	4,799	--	11,375	36	--	758	--	45,046
1985	6,750	--	1,666	1,051	1,016	3,151	8,812	1,210	4,219	4,876	--	11,575	31	--	714	--	45,071
1986	7,539	37	1,286	1,021	939	3,091	8,241	1,283	4,081	4,761	--	11,481	28	--	508	--	44,299
1987	7,279	40	1,164	878	932	3,046	8,201	1,286	4,194	4,739	--	11,633	27	--	433	--	43,852
1988	7,206	37	1,191	921	930	3,128	8,134	1,248	4,318	4,811	--	11,317	27	--	565	--	43,833
1989	7,132	43	1,072	771	1,049	3,156	8,292	1,138	4,149	4,759	--	11,404	25	--	537	--	43,527
1990	7,059	41	1,006	712	1,282	3,084	8,034	1,233	4,527	4,934	--	11,209	24	--	514	--	43,659
1991	6,986	42	1,080	706	1,269	3,026	8,283	1,174	4,539	5,450	--	11,494	25	--	545	--	44,619
1992	6,706	36	1,232	601	1,263	3,301	8,718	1,333	4,536	4,972	--	11,353	27	--	397	--	44,475
1993	6,633	13	1,195	579	1,217	3,142	9,346	1,258	4,926	5,327	--	11,110	28	--	345	--	45,119
1994	6,562	15	1,420	634	1,121	3,520	9,599	1,301	5,222	5,738	--	11,114	28	--	321	--	46,595
1995	6,492	15	1,459	652	1,074	3,461	9,817	1,278	4,969	6,116	--	11,903	25	--	294	--	47,555
1996	6,419	30	1,581	671	1,111	3,308	9,634	1,322	4,966	6,451	--	12,012	24	--	340	--	47,959
1997	6,948	31	1,472	629	1,302	3,332	10,056	1,291	6,364	6,636	--	11,681	27	--	360	--	50,129
1998	6,870	32	1,519	622	1,286	3,381	10,097	1,366	6,726	6,676	--	11,703	28	--	340	--	50,646
1999	6,792	38	1,858	689	1,263	2,864	9,899	1,293	7,853	6,107	--	13,299	31	--	235	--	52,221
2000	6,713	35	1,785	699	1,281	2,901	10,021	1,314	7,952	6,119	--	13,557	30	--	281	--	52,688

*Includes nonagricultural self-employed, unpaid family and domestics (proprietors), and adjusted wage and salary employment (i.e., employees, not jobs).

TABLE B21. EMPLOYMENT BY ECONOMIC SECTOR, NORTH DAKOTA REGION 3, 1958-2000*

Year	(1) & (2) Ag	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	TOTALS
1958	10,376	12	647	280	343	761	2,405	206	640	724	--	1,953	--	--	--	--	18,347
1959	9,855	12	713	282	350	777	2,471	221	682	773	--	2,019	--	--	--	--	18,155
1960	9,684	11	584	262	317	751	2,411	230	691	781	--	1,938	--	--	--	--	17,660
1961	9,377	10	537	234	279	721	2,314	238	712	807	--	1,889	--	--	--	--	17,118
1962	9,503	8	575	210	251	726	2,184	251	728	826	--	1,878	--	--	--	--	17,140
1963	9,086	6	525	243	299	751	2,186	238	770	872	--	1,984	--	--	--	--	16,960
1964	8,676	4	546	275	345	753	2,162	225	810	917	--	2,082	--	--	--	--	16,795
1965	8,254	32	502	246	310	999	2,530	248	804	901	--	2,167	--	--	--	--	16,993
1966	7,740	18	404	262	313	1,099	2,497	270	916	998	--	2,079	--	--	--	--	16,596
1967	7,072	18	422	284	349	1,006	2,553	281	1,038	1,154	--	2,297	--	--	--	--	16,474
1968	6,828	21	439	300	382	943	2,655	284	1,152	1,300	--	2,555	--	--	--	--	16,859
1969	6,465	25	433	287	362	923	2,656	285	1,085	1,223	--	2,485	--	--	--	--	16,229
1970	5,524	22	487	206	250	920	2,554	251	1,082	1,212	--	2,349	--	--	--	--	14,857
1971	5,470	20	1,615	271	333	953	2,721	271	1,246	1,379	--	2,488	--	--	--	--	16,767
1972	5,487	22	827	287	357	934	2,758	281	1,313	1,480	--	2,673	--	--	--	--	16,419
1973	5,435	26	728	703	887	1,028	2,754	304	1,500	1,692	--	2,815	--	--	--	--	17,872
1974	5,603	9	990	314	399	1,056	2,901	347	1,424	1,587	--	2,836	--	--	--	--	17,466
1975	5,193	9	975	295	366	1,395	3,128	312	1,758	1,752	--	3,625	--	--	--	--	18,808
1976	5,468	9	1,058	299	382	1,540	3,503	367	1,829	2,062	--	3,246	--	--	--	--	19,763
1977	6,065	18	875	291	373	1,543	3,214	411	1,419	1,602	--	2,974	--	--	--	--	18,785
1978	5,810	12	1,094	276	356	1,482	3,230	486	1,350	1,521	--	3,111	--	--	--	--	18,728
1979	5,614	38	899	284	373	1,600	2,892	568	1,503	1,705	--	3,151	--	--	--	--	18,627
1980	5,640	28	738	263	342	1,479	2,755	486	1,546	1,614	--	3,120	--	--	--	--	18,011
1981	5,596	24	813	311	319	1,586	2,716	497	1,526	1,609	--	3,105	--	--	--	--	18,102
1982	5,753	45	644	215	269	1,720	2,740	512	1,336	1,691	--	3,062	--	--	--	--	17,987
1983	5,698	24	960	256	326	1,837	2,868	547	1,267	2,041	--	3,077	--	--	--	--	18,901
1984	5,643	13	778	250	315	1,923	2,937	536	1,212	2,045	--	3,175	--	--	--	--	18,827
1985	5,588	13	652	251	314	1,881	2,997	546	1,231	2,080	--	3,232	--	--	--	--	18,785
1986	5,422	12	472	246	306	2,091	2,775	531	1,490	2,043	--	3,251	--	--	--	--	18,639
1987	5,376	13	489	352	394	1,949	2,849	574	1,422	1,822	--	3,192	--	--	--	--	18,432
1988	5,322	12	346	306	384	1,976	2,937	564	1,524	1,979	--	2,998	--	--	--	--	18,348
1989	5,267	28	336	291	368	2,111	2,780	623	1,469	2,024	--	3,006	--	--	--	--	18,303
1990	5,212	28	398	308	383	1,922	2,776	599	1,654	2,011	--	3,064	--	--	--	--	18,355
1991	5,159	45	316	246	309	2,032	2,734	445	1,599	2,079	--	3,067	--	--	--	--	18,031
1992	5,120	35	476	312	351	1,991	2,977	480	1,600	2,201	--	3,190	--	--	--	--	18,733
1993	5,064	39	515	374	427	1,920	3,073	517	1,642	2,386	--	3,245	--	--	--	--	19,202
1994	5,011	44	458	334	434	1,921	3,073	554	2,214	2,264	--	3,320	--	--	--	--	19,627
1995	4,956	29	673	485	602	1,917	3,202	551	2,183	2,705	--	3,565	--	--	--	--	20,868
1996	4,901	28	580	340	420	1,821	3,271	619	2,499	2,929	--	3,531	--	--	--	--	20,939
1997	4,582	28	564	257	345	1,928	3,154	729	3,187	2,385	--	3,688	--	--	--	--	20,847
1998	4,530	29	582	255	341	1,957	3,168	772	3,371	2,398	--	3,694	--	--	--	--	21,097
1999	4,478	31	587	235	835	1,569	2,982	681	2,028	2,609	--	3,810	--	--	--	--	19,845
2000	4,426	29	564	239	848	1,589	3,019	692	2,054	2,616	--	3,885	--	--	--	--	19,961

*Includes nonagricultural self-employed, unpaid family and domestics (proprietors), and adjusted wage and salary employment (i.e., employees, not jobs).

TABLE B22. EMPLOYMENT BY ECONOMIC SECTOR, NORTH DAKOTA REGION 4, 1958-2000*

Year	(1) & (2) Ag	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	TOTALS
1958	11,232	55	2,250	704	1,120	2,243	5,545	785	1,736	2,095	--	5,324	--	--	--	--	33,089
1959	10,667	54	2,477	713	1,136	2,293	5,696	834	1,853	2,235	--	5,504	--	--	--	--	33,462
1960	10,354	51	2,031	817	1,100	2,337	5,835	823	1,907	2,347	--	6,031	--	--	--	--	33,633
1961	9,908	52	1,867	891	1,030	2,360	5,884	800	1,999	2,507	--	6,687	--	--	--	--	33,985
1962	9,924	45	1,996	975	1,001	2,506	5,838	789	2,076	2,652	--	7,546	--	--	--	--	35,348
1963	9,374	54	1,836	955	1,072	2,634	6,166	815	2,306	2,934	--	8,499	--	--	--	--	36,645
1964	8,844	68	1,927	937	1,139	2,685	6,446	844	2,532	3,212	--	9,488	--	--	--	--	38,122
1965	8,463	48	5,264	1,069	1,003	2,764	6,881	882	2,546	3,118	--	9,875	--	--	--	--	41,913
1966	7,989	53	3,881	1,006	1,075	2,978	7,209	878	2,403	3,447	--	10,069	--	--	--	--	40,988
1967	7,356	43	2,678	941	1,040	3,003	7,069	876	2,646	3,255	--	10,901	--	--	--	--	39,808
1968	7,155	36	1,637	864	992	3,127	7,057	843	2,863	2,993	--	11,884	--	--	--	--	39,451
1969	6,831	31	1,358	981	975	2,944	7,433	878	2,541	3,115	--	12,375	--	--	--	--	39,462
1970	5,838	53	1,536	853	1,118	3,286	7,066	792	2,291	3,143	--	11,312	--	14	--	--	37,302
1971	5,781	42	1,611	832	1,139	3,423	7,356	838	2,769	3,101	--	11,267	--	15	--	--	38,174
1972	5,800	47	2,102	964	1,115	3,576	7,674	843	2,627	3,326	--	11,618	--	16	--	--	39,708
1973	5,745	43	1,876	845	1,081	3,646	8,424	861	2,491	3,533	--	11,880	--	17	--	--	40,442
1974	5,923	64	1,871	867	1,574	3,622	7,968	862	3,541	3,042	--	12,023	--	18	--	--	41,375
1975	5,439	65	2,226	871	1,253	3,654	8,001	892	3,486	3,036	--	11,776	--	22	--	--	40,721
1976	5,737	64	2,758	781	1,187	3,485	8,431	1,103	3,782	3,277	--	12,636	--	23	--	--	43,264
1977	6,375	62	2,880	776	1,410	3,906	8,939	1,190	4,362	3,651	--	12,656	--	23	--	--	46,230
1978	6,116	48	2,986	847	1,477	4,123	9,225	1,252	4,446	3,809	--	12,955	--	25	--	--	47,309
1979	5,912	57	3,000	835	1,666	4,124	9,784	1,289	4,252	4,054	--	13,128	--	25	--	--	48,126
1980	5,937	39	2,512	648	1,595	3,550	9,267	1,352	4,134	4,429	--	13,383	--	27	--	--	46,873
1981	5,892	35	2,081	639	1,563	3,571	9,061	1,374	4,398	4,714	--	13,318	--	35	--	--	46,681
1982	5,354	74	2,110	872	1,268	3,796	8,761	1,378	3,920	4,869	--	13,582	--	--	--	--	45,984
1983	5,302	47	2,447	817	1,275	3,858	9,144	1,394	4,848	4,921	--	14,025	--	--	--	--	48,078
1984	5,250	64	2,221	848	1,311	3,751	9,491	1,363	5,525	5,046	--	14,382	--	--	--	--	49,252
1985	5,199	62	1,856	852	1,305	3,666	9,682	1,392	5,613	5,126	--	14,635	--	--	--	--	49,388
1986	5,044	65	2,082	1,028	1,412	3,822	9,624	1,502	5,626	5,236	--	14,996	--	--	--	--	50,437
1987	4,671	73	2,048	1,043	1,394	4,510	10,094	1,407	6,185	5,710	--	14,994	--	--	--	--	52,129
1988	4,624	67	1,791	1,131	1,466	4,554	10,312	1,437	6,367	5,896	--	15,204	--	--	--	--	52,849
1989	4,577	78	1,615	1,054	1,395	4,636	10,805	1,252	6,434	5,687	--	15,492	--	--	--	--	53,025
1990	4,530	75	1,684	1,181	1,325	4,536	11,149	1,337	7,464	5,857	--	15,370	--	--	--	--	54,508
1991	4,482	77	1,741	987	1,429	4,533	11,561	1,419	7,198	5,891	--	15,632	--	--	--	--	54,950
1992	4,581	72	1,710	1,101	1,210	4,579	12,079	1,469	7,602	6,175	--	15,308	--	--	--	--	55,886
1993	4,533	87	1,809	1,204	1,187	4,736	12,224	1,467	6,302	6,629	--	15,706	--	--	--	--	55,884
1994	4,484	98	2,120	1,080	1,354	5,219	12,165	1,535	6,753	6,792	--	15,809	--	--	--	--	57,409
1995	4,436	114	2,317	1,059	1,573	5,264	12,001	1,460	6,316	7,176	--	16,673	--	--	--	--	58,389
1996	4,387	105	2,388	1,154	1,387	5,534	12,049	1,470	6,170	7,135	--	16,352	--	--	--	--	58,131
1997	4,209	107	2,492	1,110	1,353	5,509	12,098	1,521	6,650	7,781	--	16,016	--	--	--	--	58,846
1998	4,162	113	2,575	1,098	1,337	5,591	12,149	1,610	7,031	7,826	--	16,043	--	--	--	--	59,535
1999	4,115	119	3,301	1,212	1,116	6,029	12,170	1,551	8,033	7,073	--	15,032	--	--	--	--	59,751
2000	4,067	112	3,172	1,230	1,134	6,108	12,321	1,575	8,136	7,087	--	15,326	--	--	--	--	60,268

*Includes nonagricultural self-employed, unpaid family and domestics (proprietors), and adjusted wage and salary employment (i.e., employees, not jobs).

TABLE B23. EMPLOYMENT BY ECONOMIC SECTOR, NORTH DAKOTA REGION 5, 1958-2000*

Year	(1) & (2) Ag	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	TOTALS
1958	16,944	45	4,020	2,235	2,340	5,926	9,230	2,114	3,823	3,171	--	6,771	--	--	--	--	56,619
1959	16,093	44	4,425	2,262	2,377	6,057	9,480	2,243	4,079	3,384	--	6,999	--	--	--	--	57,443
1960	15,209	49	3,924	2,096	2,337	6,072	9,593	2,298	4,102	3,417	--	6,674	--	--	--	--	55,771
1961	14,162	59	3,917	1,877	2,223	6,038	9,555	2,320	4,199	3,512	--	6,462	--	--	--	--	54,324
1962	13,791	59	4,571	1,699	2,195	6,315	9,368	2,384	4,261	3,578	--	6,382	--	--	--	--	54,603
1963	12,652	47	3,875	1,963	2,109	6,805	9,122	2,446	4,162	3,782	--	6,567	--	--	--	--	53,530
1964	11,580	39	3,718	2,224	2,024	7,120	8,747	2,522	4,023	3,970	--	6,701	--	--	--	--	52,668
1965	11,028	41	3,508	2,010	1,963	7,272	8,743	2,403	4,459	3,671	--	6,974	--	--	--	--	52,072
1966	10,350	62	2,774	1,801	2,105	7,255	8,345	2,497	4,495	3,734	--	9,170	--	--	--	--	52,588
1967	9,471	61	3,399	1,812	2,161	6,875	8,655	2,615	4,366	4,062	--	8,511	--	--	--	--	51,988
1968	9,156	63	3,960	1,797	2,186	6,711	9,119	2,647	4,151	4,343	--	7,810	--	--	--	--	51,943
1969	8,680	76	3,542	1,699	2,096	7,471	9,056	2,625	4,503	4,314	--	7,946	--	--	--	--	52,008
1970	7,419	56	4,137	1,935	1,758	6,676	8,953	2,577	4,797	4,524	--	7,581	--	--	--	--	50,413
1971	7,344	60	4,001	1,939	1,789	6,835	9,120	2,543	4,644	4,754	--	7,603	--	--	--	--	50,632
1972	7,369	41	4,526	1,733	1,783	7,196	9,843	2,652	5,027	5,303	--	7,629	--	--	--	--	53,102
1973	7,299	39	4,562	1,585	1,842	8,287	10,544	2,649	5,318	5,944	--	7,631	--	--	--	--	55,700
1974	7,525	27	4,624	1,239	2,304	9,500	12,294	2,589	5,270	6,273	--	7,841	--	--	--	--	59,486
1975	6,759	36	5,544	1,015	1,984	11,865	12,997	2,397	5,482	6,613	--	8,686	--	--	--	--	63,378
1976	7,059	36	6,151	1,320	2,141	12,441	13,778	2,996	6,111	6,879	--	8,861	--	--	--	--	67,773
1977	7,765	27	6,293	1,684	2,187	11,736	13,730	3,168	6,773	7,238	--	9,540	--	--	--	--	70,141
1978	7,377	36	7,068	2,429	2,132	12,478	14,206	3,347	6,906	7,329	--	10,128	--	--	--	--	73,512
1979	7,130	19	6,897	2,571	2,230	12,796	13,936	3,463	7,543	7,877	--	10,265	--	--	--	--	74,727
1980	7,161	31	5,820	2,860	2,285	12,897	13,726	3,786	7,536	8,035	--	10,084	--	--	--	--	74,221
1981	7,104	87	4,756	2,709	2,343	12,400	13,311	3,860	7,968	8,207	--	10,035	--	--	--	--	72,780
1982	7,254	30	5,199	1,977	2,365	12,248	13,301	3,735	8,093	9,148	--	10,231	--	--	--	--	73,581
1983	7,186	71	6,256	2,151	2,106	11,654	13,853	3,849	8,487	9,403	--	10,312	--	--	--	--	75,328
1984	7,116	65	5,065	2,166	2,175	12,782	14,432	4,342	8,623	9,850	--	10,273	--	--	--	--	76,889
1985	7,045	64	4,231	2,178	2,166	12,494	14,722	4,432	8,760	10,005	--	10,454	--	--	--	--	76,551
1986	6,836	72	4,906	2,576	2,063	11,917	16,339	4,280	9,570	10,674	--	10,974	--	--	--	--	80,207
1987	6,554	66	4,742	2,792	2,382	12,365	16,599	4,529	10,931	10,998	--	11,044	--	--	--	--	83,002
1988	6,488	59	4,927	2,931	2,858	12,681	17,008	4,317	11,001	11,531	--	11,277	--	--	--	--	85,078
1989	6,422	70	4,341	3,173	2,545	12,648	17,446	4,629	11,563	11,840	--	11,468	--	--	--	--	86,145
1990	6,355	67	4,721	3,174	2,698	13,380	18,005	4,676	10,804	12,977	--	11,609	--	--	--	--	88,466
1991	6,287	69	4,794	3,245	2,543	13,467	18,599	4,922	11,692	13,749	--	11,546	--	--	--	--	90,913
1992	6,254	54	4,956	3,172	2,484	13,670	17,466	4,982	12,392	14,063	--	12,376	--	--	--	--	91,869
1993	6,188	46	5,213	3,005	2,480	14,172	17,948	5,340	14,881	13,582	--	12,349	--	--	--	--	95,204
1994	6,122	52	6,059	3,582	2,726	15,739	18,589	5,490	15,973	14,019	--	12,407	--	--	--	--	100,758
1995	6,055	61	6,122	3,616	2,400	16,439	20,430	5,723	16,552	13,608	--	13,239	--	--	--	--	104,245
1996	5,988	74	7,299	3,652	2,302	16,834	19,864	6,053	18,831	14,072	--	13,265	--	--	--	--	108,234
1997	5,843	75	6,864	3,488	2,737	17,526	20,439	5,355	16,307	15,305	--	13,408	--	--	--	--	107,347
1998	5,776	79	7,092	3,450	2,705	17,785	20,522	5,668	17,243	15,393	--	13,432	--	--	--	--	109,145
1999	5,711	83	8,019	3,560	3,579	18,993	20,564	6,772	16,948	16,679	--	13,710	--	--	--	--	114,618
2000	5,644	79	7,709	3,612	3,634	19,242	20,820	6,881	17,166	16,714	--	13,979	--	--	--	--	115,480

*Includes nonagricultural self-employed, unpaid family and domestics (proprietors), and adjusted wage and salary employment (i.e., employees, not jobs).

TABLE B24. EMPLOYMENT BY ECONOMIC SECTOR, NORTH DAKOTA REGION 6, 1958-2000*

Year	(1) & (2) Ag	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	TOTALS
1958	17,224	4	1,370	494	606	1,586	4,417	508	1,455	1,645	--	3,474	--	--	--	--	32,783
1959	16,361	4	1,510	499	617	1,623	4,534	541	1,554	1,754	--	3,592	--	--	--	--	32,589
1960	15,801	2	1,282	508	622	1,597	4,587	558	1,626	1,837	--	3,455	--	--	--	--	31,875
1961	15,044	2	1,228	504	610	1,563	4,567	570	1,735	1,955	--	3,379	--	--	--	--	31,157
1962	14,992	--	1,369	505	618	1,605	4,475	588	1,830	2,063	--	3,373	--	--	--	--	31,418
1963	14,092	--	1,163	481	595	1,594	4,773	602	1,643	1,854	--	3,480	--	--	--	--	30,277
1964	13,228	--	1,118	458	574	1,528	5,038	621	1,427	1,609	--	3,563	--	--	--	--	29,164
1965	12,691	14	1,067	465	594	1,422	5,220	653	1,989	2,241	--	3,707	--	--	--	--	30,063
1966	12,008	4	929	537	690	1,584	5,249	615	1,973	2,146	--	3,591	--	--	--	--	29,326
1967	11,089	4	903	538	721	1,742	5,133	645	2,060	2,282	--	3,901	--	--	--	--	29,018
1968	10,820	4	883	528	741	1,960	5,109	653	2,119	2,389	--	4,267	--	--	--	--	29,473
1969	10,365	3	1,013	563	739	1,941	5,083	641	2,176	2,454	--	4,376	--	--	--	--	29,354
1970	8,858	2	1,011	521	639	1,742	5,065	614	2,072	2,339	--	4,115	--	--	--	--	26,978
1971	8,771	12	980	527	645	1,914	5,073	657	2,185	2,415	--	4,109	--	--	--	--	27,288
1972	8,800	21	1,373	510	641	2,213	5,390	717	2,212	2,498	--	4,129	--	--	--	--	28,504
1973	8,714	21	1,274	439	555	2,569	5,250	696	2,525	2,562	--	4,018	--	--	--	--	28,623
1974	8,986	18	1,246	475	605	2,692	4,788	717	2,601	2,896	--	4,085	--	--	--	--	29,109
1975	8,298	18	1,529	439	543	3,035	5,098	1,696	2,509	2,844	--	4,334	--	--	--	--	30,343
1976	8,745	18	1,577	495	638	3,169	5,449	774	2,265	2,871	--	4,518	--	--	--	--	30,519
1977	9,714	20	1,523	490	632	3,344	5,540	814	2,567	2,895	--	4,668	--	--	--	--	32,207
1978	9,312	36	1,732	554	712	3,489	5,485	912	2,629	3,206	--	4,932	--	--	--	--	32,999
1979	9,002	38	1,775	598	803	3,711	5,613	923	2,799	3,499	--	4,997	--	--	--	--	33,758
1980	9,040	26	1,826	589	771	3,514	5,268	934	2,251	3,506	--	4,543	--	--	--	--	32,268
1981	8,969	36	1,202	530	736	3,449	5,352	986	2,450	3,704	--	4,522	--	--	--	--	31,936
1982	8,983	37	1,292	518	690	3,215	5,249	962	2,619	3,799	--	4,039	--	--	--	--	31,403
1983	8,894	47	1,630	500	630	3,067	5,308	920	2,338	3,693	--	4,036	--	--	--	--	31,063
1984	8,807	52	1,169	490	634	2,972	5,216	855	2,209	3,772	--	4,031	--	--	--	--	30,207
1985	8,722	51	975	494	632	2,905	5,322	873	2,242	3,831	--	4,103	--	--	--	--	30,150
1986	8,464	43	966	590	684	3,076	5,096	922	2,793	3,600	--	4,150	--	--	--	--	30,384
1987	8,654	60	916	591	612	3,103	5,102	937	2,921	3,725	--	4,155	--	--	--	--	30,776
1988	8,567	54	785	676	760	3,017	5,251	835	3,343	3,788	--	4,186	--	--	--	--	31,262
1989	8,479	56	706	702	811	2,959	5,104	855	3,603	4,309	--	4,198	--	--	--	--	31,782
1990	8,392	68	800	674	676	2,575	4,922	849	3,007	4,497	--	4,187	--	--	--	--	30,647
1991	8,306	70	779	651	701	3,183	5,101	908	3,167	4,743	--	4,086	--	--	--	--	31,695
1992	8,095	60	797	625	743	3,050	5,347	909	3,315	5,016	--	4,156	--	--	--	--	32,113
1993	8,009	80	896	597	1,026	3,171	5,293	994	3,442	5,135	--	4,140	--	--	--	--	32,783
1994	7,923	81	886	721	725	3,327	5,141	959	3,532	5,298	--	4,138	--	--	--	--	32,731
1995	7,837	81	892	713	646	3,304	5,330	898	3,301	5,286	--	4,339	--	--	--	--	32,627
1996	7,750	66	1,071	673	686	3,362	5,413	998	4,099	4,688	--	4,246	--	--	--	--	33,052
1997	7,353	69	917	552	670	3,819	5,315	1,206	3,602	4,958	--	4,309	--	--	--	--	32,770
1998	7,271	72	946	545	664	3,876	5,338	1,275	3,808	4,986	--	4,314	--	--	--	--	33,095
1999	7,187	78	1,010	645	572	4,110	5,577	1,187	4,014	5,059	--	4,167	--	--	--	--	33,606
2000	7,105	72	969	653	580	4,164	5,648	1,207	4,066	5,070	--	4,248	--	--	--	--	33,782

*Includes nonagricultural self-employed, unpaid family and domestics (proprietors), and adjusted wage and salary employment (i.e., employees, not jobs).

TABLE B25. EMPLOYMENT BY ECONOMIC SECTOR, NORTH DAKOTA REGION 7, 1958-2000*

Year	(1) & (2) Ag	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	TOTALS
1958	16,156	--	2,019	1,117	1,213	2,299	5,035	720	1,692	2,608	--	5,210	175	60	715	307	39,326
1959	15,346	--	2,222	1,131	1,232	2,348	5,170	763	1,806	2,782	--	5,385	176	60	677	298	39,396
1960	15,131	--	1,911	1,074	1,229	2,325	5,238	780	1,842	2,835	--	5,163	171	60	406	282	38,447
1961	14,705	--	1,848	991	1,187	2,286	5,226	788	1,912	2,942	--	5,028	167	60	329	266	37,735
1962	14,954	--	2,092	928	1,190	2,361	5,132	808	1,968	3,026	--	4,999	162	60	197	252	38,129
1963	14,389	--	1,823	763	1,228	2,302	5,374	836	2,173	3,270	--	5,217	166	76	118	242	37,977
1964	13,822	--	1,808	605	1,264	2,153	5,571	870	2,379	3,502	--	5,407	167	83	52	232	37,915
1965	13,134	--	2,294	604	1,509	2,911	5,622	888	2,293	3,229	--	5,626	164	127	52	222	38,675
1966	12,301	--	1,492	897	1,482	2,691	5,660	854	2,388	3,243	--	5,474	184	188	72	222	37,148
1967	11,227	--	1,501	976	1,553	2,888	5,610	924	2,537	3,389	--	5,924	198	194	108	221	37,250
1968	10,827	--	1,517	1,043	1,607	3,179	5,660	963	2,656	3,493	--	6,452	211	193	146	212	38,159
1969	10,232	--	1,744	1,061	1,792	2,943	5,786	1,028	2,882	3,674	--	6,782	206	196	253	204	38,783
1970	8,746	--	2,029	970	1,676	2,747	5,845	1,002	3,043	3,643	--	6,331	223	226	163	176	36,820
1971	8,661	--	1,687	987	1,685	2,705	6,300	972	3,136	3,693	--	6,359	249	235	164	168	37,001
1972	8,689	--	2,178	855	1,777	3,198	6,581	998	3,454	4,050	--	6,409	264	253	113	161	38,980
1973	8,604	--	2,440	936	1,633	3,225	6,996	1,220	3,725	3,792	--	6,510	273	263	92	166	39,875
1974	8,873	9	3,185	1,791	1,159	3,942	7,310	1,388	3,512	4,588	--	6,692	250	295	122	158	43,274
1975	8,184	9	3,606	1,902	1,730	4,288	7,857	1,062	3,829	5,183	--	7,378	302	311	139	156	45,936
1976	8,595	18	4,056	1,720	1,632	4,266	8,324	1,361	3,949	5,535	--	7,689	392	331	141	155	48,164
1977	9,507	18	4,779	1,537	1,695	4,486	8,741	1,563	4,156	5,571	--	8,124	456	335	153	153	51,274
1978	9,079	12	5,245	1,138	2,228	4,790	9,282	1,433	4,437	5,966	--	8,515	578	338	189	155	53,385
1979	8,775	19	5,416	1,443	2,423	5,256	9,902	1,776	5,141	6,144	--	8,631	631	343	159	155	56,214
1980	8,815	13	4,634	1,385	2,736	4,743	10,305	1,836	5,674	6,526	--	9,721	591	358	132	159	57,628
1981	8,744	--	4,451	1,378	2,991	4,746	10,014	1,956	5,521	7,246	--	9,672	773	464	174	163	58,293
1982	9,362	--	4,325	1,244	2,959	4,447	9,642	1,904	5,715	7,330	--	9,638	945	554	282	162	58,509
1983	9,272	--	4,363	1,281	2,962	4,600	9,832	1,913	6,344	7,737	--	9,637	1,011	598	483	166	60,199
1984	9,182	--	3,800	1,553	2,981	4,658	10,763	1,843	7,133	8,383	--	9,717	1,130	646	204	170	62,163
1985	9,092	--	3,176	1,564	2,970	4,554	10,979	1,880	7,246	8,516	--	9,889	986	682	193	173	61,900
1986	8,825	--	2,237	1,373	3,015	4,375	10,322	1,840	7,238	8,705	--	10,157	869	691	160	179	60,066
1987	8,762	--	2,680	1,370	2,896	4,015	10,333	1,826	6,273	8,964	--	10,313	856	715	188	186	59,377
1988	8,672	--	2,162	1,241	2,624	4,158	10,565	1,941	6,600	9,202	--	10,459	840	785	182	202	59,633
1989	8,586	--	2,675	1,492	2,795	4,375	10,977	1,832	7,762	9,531	--	10,798	806	809	172	233	62,843
1990	8,496	--	2,511	1,481	3,049	4,826	11,292	1,743	8,110	10,011	--	10,847	780	833	235	240	64,454
1991	8,406	--	2,738	1,724	3,110	4,483	11,188	1,963	7,611	9,855	--	10,897	798	857	236	248	64,114
1992	8,553	--	3,121	1,853	3,210	4,909	11,310	1,907	7,746	10,881	--	11,363	849	883	217	264	67,066
1993	8,462	13	3,383	2,096	3,360	4,796	12,091	1,959	8,164	11,473	--	11,629	872	917	199	283	69,697
1994	8,371	15	3,288	1,898	3,779	4,360	12,756	2,146	8,766	10,905	--	11,702	889	929	186	291	70,281
1995	8,280	15	3,639	1,688	3,796	4,835	12,606	1,948	8,512	11,530	--	12,464	925	944	196	303	71,682
1996	8,187	15	3,539	1,762	4,077	5,014	13,058	1,983	7,865	12,115	--	12,222	887	975	227	311	72,239
1997	7,753	23	3,877	1,821	3,779	5,534	12,694	2,756	9,705	12,196	--	12,482	1,016	1,008	240	323	75,207
1998	7,667	24	4,008	1,802	3,736	5,614	12,745	2,917	10,261	12,266	--	12,503	1,042	1,041	227	335	76,188
1999	7,578	26	3,878	1,913	2,952	4,874	12,830	2,839	10,822	12,413	--	12,593	1,143	1,080	160	343	76,444
2000	7,490	24	3,728	1,941	2,997	4,938	12,991	2,885	10,963	12,437	--	12,839	1,120	1,081	192	343	75,969

*Includes nonagricultural self-employed, unpaid family and domestics (proprietors), and adjusted wage and salary employment (i.e., employees, not jobs).

TABLE B26. EMPLOYMENT BY ECONOMIC SECTOR, NORTH DAKOTA REGION 8, 1958-2000*

Year	(1) & (2) Ag	(3) Nonmetallic Mining	(4) Const	(5) Trans	(6) Comm & Pub Util	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(9) FIRE	(10) Bus & Pers Service	(11) Prof & Soc Service	(12) House- holds	(13) Govt	(14) Coal Mining	(15) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	TOTALS
1958	8,457	14	624	290	347	661	2,430	193	649	737	--	1,727	45	--	111	--	16,285
1959	8,031	14	686	293	354	675	2,498	204	693	786	--	1,785	45	--	105	--	16,169
1960	7,815	9	627	287	347	720	2,448	220	685	781	--	1,691	46	--	89	7	15,772
1961	7,497	5	645	272	327	758	2,360	229	687	788	--	1,623	49	--	106	13	15,359
1962	7,525	--	775	261	322	835	2,240	243	681	789	--	1,588	49	--	103	19	15,430
1963	7,129	--	637	243	298	898	2,281	231	677	770	--	1,575	43	--	102	19	14,903
1964	6,742	--	590	226	274	939	2,294	221	666	746	--	1,541	37	--	115	19	14,410
1965	6,505	--	533	246	315	856	2,361	269	709	797	--	1,603	30	--	118	19	14,361
1966	6,196	--	410	257	328	1,023	2,488	292	769	837	--	1,555	36	--	144	19	14,354
1967	5,762	--	442	261	335	937	2,483	314	891	987	--	1,642	32	--	140	19	14,245
1968	5,659	--	471	261	337	879	2,521	326	1,006	1,132	--	1,743	29	--	143	19	14,526
1969	5,464	--	520	260	335	767	2,678	308	965	1,092	--	1,710	27	--	132	19	14,277
1970	4,670	--	545	272	330	911	2,904	251	1,005	1,138	--	1,568	25	--	74	17	13,710
1971	4,624	--	529	250	305	1,015	2,452	304	1,092	1,212	--	1,548	35	--	59	17	13,442
1972	4,640	--	627	240	303	1,070	2,477	309	1,082	1,223	--	1,565	35	--	66	17	13,654
1973	4,594	--	680	247	308	1,319	2,608	303	1,045	1,279	--	1,564	35	--	68	18	14,068
1974	4,738	--	580	251	317	1,393	2,681	334	1,248	1,390	--	1,605	43	--	80	18	14,678
1975	4,687	--	583	297	318	1,538	2,724	304	1,430	1,297	--	1,687	72	--	159	18	15,114
1976	5,014	--	764	231	356	1,557	2,954	385	1,321	1,384	--	1,785	80	--	168	19	16,018
1977	5,645	--	944	302	401	1,383	3,105	416	1,207	1,610	--	1,836	93	--	378	21	17,341
1978	5,488	--	1,098	289	372	1,595	3,174	460	1,460	1,572	--	2,001	94	--	500	21	18,124
1979	5,303	--	1,213	307	402	2,020	3,645	608	1,509	1,679	--	2,028	102	--	1,026	22	19,864
1980	5,326	39	1,221	437	426	1,840	4,076	501	1,736	1,788	--	2,164	219	--	2,125	22	21,920
1981	5,285	--	1,520	497	493	1,873	4,006	566	2,380	2,057	--	2,153	214	--	3,361	23	24,428
1982	5,003	--	1,882	618	576	1,831	4,464	638	2,927	2,065	--	2,218	303	--	2,200	--	24,665
1983	4,956	--	1,633	516	517	1,746	4,156	644	2,535	2,383	--	2,312	324	--	1,484	--	23,206
1984	4,907	--	1,289	419	563	1,614	3,885	646	2,762	2,146	--	2,352	362	--	1,862	--	22,807
1985	4,858	--	1,077	424	561	1,578	3,964	660	2,805	2,179	--	2,393	315	--	1,753	--	22,567
1986	4,714	--	725	347	576	1,485	3,598	623	1,982	2,191	--	2,423	279	--	821	--	19,764
1987	5,169	--	728	378	542	1,450	3,599	533	1,939	2,267	--	2,379	224	--	581	--	19,789
1988	5,116	--	605	340	523	1,500	3,422	539	1,919	2,410	--	2,426	220	--	588	--	19,608
1989	5,064	--	589	343	530	1,514	3,480	536	2,005	2,449	--	2,463	210	--	545	--	19,728
1990	5,011	--	634	433	358	1,608	3,214	493	2,041	2,316	--	2,450	194	--	677	--	19,429
1991	4,959	--	553	421	401	1,596	3,568	434	1,940	2,445	--	2,416	197	--	658	--	19,588
1992	4,566	24	553	360	470	1,563	3,688	514	1,832	2,405	--	2,468	220	--	612	--	19,275
1993	4,517	20	565	381	501	1,667	3,585	494	1,842	2,334	--	2,424	226	--	708	--	19,264
1994	4,470	23	599	374	522	1,838	3,320	494	2,014	2,448	--	2,476	230	--	689	--	19,497
1995	4,420	23	589	353	515	1,705	3,374	511	1,806	2,554	--	2,529	235	--	731	--	19,345
1996	4,373	22	757	320	553	1,716	3,743	509	1,930	2,753	--	2,512	225	--	853	--	20,266
1997	4,687	23	800	490	330	1,947	3,781	557	2,102	2,592	--	2,567	--	--	900	--	20,776
1998	4,633	24	825	484	328	1,976	3,796	589	2,222	2,607	--	2,571	--	--	850	--	20,905
1999	4,581	26	853	402	444	1,979	3,829	543	2,837	2,416	--	2,626	--	--	601	--	21,137
2000	4,528	24	820	406	450	2,004	3,877	552	2,873	2,420	--	2,677	--	--	722	--	21,353

*Includes nonagricultural self-employed, unpaid family and domestics (proprietors), and adjusted wage and salary employment (i.e., employees, not jobs).

APPENDIX C

LIST OF APPENDIX TABLES

Table		Page
C1	Gross State Product by Major Industry, North Dakota, 1977-2000 (constant dollars)	99
C2	Gross State Product by Major Industry, North Dakota, 1977-2000 (current dollars)	100

Table C1. Gross State Product by Major Industry, North Dakota, 1977-2000 (constant dollars ^a)														
Year	Agriculture, forestry & fisheries				Mining	Constr	Manuf	Trans & Util	Wholesale Trade	Retail Trade	Finance, Insurance & Real Estate	Services	Govt	Total Gross State Product
	Total	Farms	Ag. SVC											
-----millions of constant dollars ¹ -----														
1977	899	862	39	398	1,073	453	860	773	1,061	2,008	1,901	2,299	11,257	
1978	1,256	1,211	42	534	1,214	454	943	827	1,080	2,116	2,046	2,362	12,621	
1979	1,165	1,121	41	597	1,182	513	1,038	980	1,083	2,203	2,095	2,419	12,938	
1980	605	970	81	597	477	774	1,217	875	1,026	2,232	2,161	2,360	12,335	
1981	1,420	1,213	82	595	494	832	1,229	941	1,029	2,243	2,251	2,533	14,206	
1982	1,461	1,121	68	484	509	808	1,239	957	1,046	2,132	2,221	2,443	13,683	
1983	1,006	1,664	79	434	568	792	1,371	945	1,110	2,132	2,246	2,460	13,397	
1984	1,307	1,092	97	441	610	823	1,441	1,012	1,176	2,072	2,314	2,423	13,937	
1985	1,537	1,591	89	441	650	928	1,550	984	1,201	2,004	2,282	2,470	13,905	
1986	1,295	1,244	88	531	659	1,127	1,596	1,032	1,173	1,877	2,243	2,497	12,922	
1987	1,216	1,630	82	564	735	1,251	1,580	974	1,089	1,836	2,257	2,546	13,001	
1988	418	964	87	605	709	1,392	1,578	1,025	1,101	1,759	2,298	2,362	12,097	
1989	1,050	572	38	911	1,023	487	1,089	1,060	1,134	1,726	2,287	2,421	12,732	
1990	1,297	1,379	39	1,106	900	527	1,081	1,022	1,143	1,852	2,295	2,421	13,176	
1991	1,191	1,416	44	926	908	539	1,078	1,062	1,186	1,867	2,331	2,465	13,112	
1992	1,746	958	52	923	1,019	560	1,142	1,139	1,201	1,981	2,353	2,494	14,016	
1993	1,194	1,249	62	946	787	637	1,234	1,216	1,282	1,925	2,429	2,443	13,794	
1994	1,680	1,477	61	932	646	632	1,153	1,334	1,361	1,736	2,539	2,431	14,634	
1995	1,333	1,234	64	703	569	560	1,070	1,271	1,397	1,983	2,621	2,455	14,983	
1996	1,713	1,137	84	764	524	691	1,161	1,406	1,496	1,929	2,739	2,443	15,855	
1997	1,057	344	81	772	492	746	1,206	1,523	1,617	2,020	2,838	2,433	15,823	
1998	1,648	1,545	105	606	759	1,527	1,575	1,647	1,680	2,170	2,901	2,421	16,886	
1999	1,167	1,038	112	618	832	1,598	1,604	1,655	1,726	2,259	2,958	2,206	16,679	
2000	1,365	1,248	111	529	756	1,658	1,686	1,640	1,821	2,510	3,038	2,348	17,361	

^a Chained 1996 dollars

Table C2. Gross State Product by Major Industry, North Dakota, 1977-2000 (current dollars)

Year	Agriculture, forestry & fisheries				Const r	Manuf	Trans & Util	Wholesa le Trade	Retai l Trade	Finan	Servi ces	Govt	Total Gross State Produc t
	Total	Farms	Ag. SVC	Minin g						ce, Real Estat e			
-----millions of current dollars)-----													
1977	749	727	22	237	410	314	485	505	550	631	566	813	5,260
1978	1,251	1,225	26	354	518	329	575	562	594	728	663	890	6,464
1979	1,268	1,239	29	533	555	395	656	661	647	816	743	982	7,257
1980	595	568	27	1,202	536	403	741	690	668	897	847	1,048	7,626
1981	1,356	1,328	28	2,080	524	444	825	778	716	995	978	1,246	9,942
1982	1,250	1,219	31	1,792	589	479	900	792	760	1,038	1,063	1,303	9,966
1983	970	933	37	1,619	678	487	995	797	828	1,115	1,154	1,386	10,030
1984	1,313	1,270	44	1,576	536	556	1,120	878	899	1,157	1,261	1,496	10,794
1985	1,273	1,229	45	1,449	451	544	1,080	871	939	1,213	1,313	1,616	10,750
1986	1,046	1,002	44	716	430	519	1,052	857	921	1,210	1,372	1,697	9,819
1987	1,003	939	63	763	413	614	1,102	851	925	1,259	1,458	1,805	10,193
1988	378	313	65	700	397	672	1,145	936	934	1,258	1,580	1,745	9,744
1989	996	931	66	593	396	728	1,155	968	994	1,289	1,667	1,860	10,645
1990	1,216	1,148	68	671	423	821	1,170	973	1,037	1,444	1,779	1,938	11,473
1991	1,016	959	56	496	440	827	1,186	1,008	1,120	1,539	1,919	2,083	11,634
1992	1,470	1,401	70	425	490	817	1,334	1,061	1,164	1,723	2,050	2,206	12,740
1993	1,029	937	92	407	544	851	1,435	1,163	1,273	1,720	2,206	2,227	12,855
1994	1,413	1,327	86	383	603	966	1,570	1,327	1,369	1,597	2,385	2,280	13,895
1995	1,151	1,065	86	454	640	1,117	1,619	1,317	1,410	1,905	2,544	2,374	14,529
1996	1,713	1,630	82	564	735	1,251	1,580	1,406	1,496	1,929	2,739	2,443	15,855
1997	913	822	91	613	739	1,379	1,628	1,478	1,606	2,114	2,939	2,502	15,910
1998	1,354	1,242	112	513	829	1,480	1,700	1,510	1,661	2,334	3,125	2,548	17,053
1999	855	728	127	567	957	1,504	1,694	1,522	1,709	2,484	3,301	2,395	16,988
2000	952	819	133	686	924	1,580	1,783	1,561	1,797	2,846	3,518	2,636	18,283

APPENDIX D

Procedures and Data Sources For Estimating North Dakota Final Demand Vectors

Randal C. Coon and F. Larry Leistritz*

The North Dakota Input-Output model can be used to estimate the total level of business activity, or gross business volume, at the state and regional levels. This is accomplished by applying the input-output interdependence coefficients to the sales for final demand, or economic base activity. Economic base is largely a region's export base, those industries or "basic" sectors that earn income from outside the area. North Dakota's economic base is comprised of those activities producing a product paid for by nonresidents, or products exported from the state.

Economic base activities for North Dakota include agriculture (livestock and crop production plus government payments for agricultural programs), mining, manufacturing, exported services, tourist expenditures for retail purchases and business and personal services, and federal government payments for construction and to individuals (Coon et al. 1986). These basic economic activities are classified into economic sectors in accordance with the Standard Industrial Classification code (Appendix A, Table 1) as follows: (1) Agriculture, Livestock; (2) Agriculture, Crops; (4) Contract Construction; (7) Agricultural Processing and Miscellaneous Manufacturing; (8) Retail Trade; (10) Business and Personal Services; (12) Households; (14) Coal Mining; (15) Coal Conversion; (16) Petroleum and Natural Gas Exploration/Extraction; and (17) Petroleum Refining. The remaining sectors of the North Dakota economy are nonbasic and essentially exist to serve and support the basic sectors.

Data used in estimating the sales for final demand were obtained from a wide variety of secondary sources. A discussion of data sources and methodology was assembled for a previous study (Hertsgaard et al. 1977), but changes over time have made it necessary to update this information. Data sources have changed as new sources become available, others are discontinued, and titles of publications are altered. Components of selected sectors have had to be changed to capture changes in the structure of the economy. For example, the Conservation Reserve Program was not in existence in 1977, but today is a very important part of the state's economic base. Sales for final demand have been calculated for the 1958-1998 period. There normally is a two-year lag between the end of the year and when all data necessary to calculate sales for final demand become available. Thus, the 1998 values can be calculated in late 1999 to early 2000. A brief description of the methodology and associated data sources for each of the basic economic sectors will follow.

Sector 1: Agriculture, Livestock

Total receipts from sales of livestock and livestock products comprise the Agriculture, Livestock sector sales for final demand. Data required to calculate this value were published annually for the 1958-1998 period. (Rather than reference all the publications over time used to calculate all the basic sector values, only the sources for the most recent year, 1998, will be cited in this report.) Receipts from sales of livestock and livestock products were available at the state level (North Dakota Agricultural Statistics Service 1999). These values were allocated to counties based

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on livestock inventories and reaggregated to the state region level. A computer model was developed to perform the allocation and aggregation calculations.

Sector 2: Agriculture, Crops

Sales of crops and government program payments comprise the Agriculture, Crops sector. Government program payments for the Conservation Reserve Program were not included in this sector, but rather were incorporated into the Household sector. The reason for this was that Conservation Reserve Program payments more nearly replicate transfer payments than crop production, so Household sector multipliers would more precisely replicate how these dollars would circulate within the state's economy. State level crop receipts and government payments were published annually (North Dakota Agricultural Statistics Service 1999), as were county production for most crop enterprises. County crop production was multiplied by crop price to obtain a county value of all crop production. County value of production was used to allocate state crop income to counties. This methodology was used so the sum of county value of production would not over- or under-estimate the state value. County crop income allocations were totaled to get state region values. Computer models were developed to perform the calculations necessary to get county and state region sales for final demand for the Agriculture, Crops sector.

Sector 4: Construction

Construction sector sales for final demand consists of federal government expenditures for construction projects. This consists primarily of federal funds for highway construction, but occasionally includes other projects such as military projects. Federal allocations to North Dakota for construction were available from U.S. Department of Commerce (1999b). Federal government outlays for construction were allocated to the state regions based on regional shares reported for the 1967-1975 period. Although these allocators are rather out-of-date, that was the only period federal government expenditures were published at the county level (U.S. Department of Commerce 1967-1975). County level sales for final demand for the Construction Sector were disaggregated from the regional level to the counties by using construction personal income (Bureau of Economic Analysis 1999).

Sector 7: Agricultural Processing and Miscellaneous Manufacturing

Gross value of output from wholesale trade, agricultural processing, and miscellaneous manufacturing comprise this sector. In an earlier period, food processing was a large part of this total, although diversification has added many new manufacturing enterprises in recent years. Until 1982, estimates for this sector were published by the Greater North Dakota Association (1983). Since that time personal income in the manufacturing sector (Bureau of Economic Analysis 1999) has been used to update those values to current levels. Regional sales for final demand were distributed to counties using Bureau of Economic Analysis (1999) manufacturing sector personal income.

Sector 8: Retail Trade

Final demand vectors for the retail trade sector consists of three-fourths of the dollar volumes of tourism expenditures in the area. (The other one-fourth is assumed to be to the Business and Personal Service Sector.) North Dakota tourism receipts were estimated and published annually at the state level until 1982 (Greater North Dakota Association 1983). The North Dakota Department of Tourism has worked with Dean Rungan Associates (1993) to provide estimates of tourism in the state. When these data were not published, the Tourism Department provided estimates of tourism or its growth rate. Tourism was allocated to the regions on the basis of the region's share of state population. It was assumed that areas with higher populations are more likely to possess the services necessary to maintain a tourist trade. Retail trade sales for final demand were disaggregated from regions to counties using retail trade personal income data (Bureau of Economic Analysis 1999).

Sector 10: Business and Personal Service

Tourism dollars generated in North Dakota were allocated between the retail trade and the business and personal services sectors, as previous mentioned. Twenty-five percent of tourism dollars were allocated to the business and personal service sector. With diversification of the state's economy, a new component of exportable services has been added to this sector. This includes telemarketing, data processing, reservation centers, etc., which have become important in recent years. Data were available to estimate an exportable services component for 1998 (Coon and Leistritz 1997; Job Service North Dakota 1999). For a complete discussion of the methodology employed for the estimation of exportable services, see Coon and Leistritz (2000a). This component is an important part of the sector, so it will be included in future business and personal services sector sales for final demand.

Sector 12: Households

The federal government generates basic income to the household sector through payrolls and transfer payments. Data were published annually which provided government outlays in North Dakota (U.S. Department of Commerce 1999a,b). Total federal transfers and payments to North Dakota were calculated by subtracting all construction and agricultural programs from the total. A changing economy has necessitated the addition of two other components, oil lease bonus payments and Conservation Reserve Program payments. Large-scale oil development in the state in the 1970s resulted in extremely large oil lease-bonus payments to individuals. These data were very confidential, so it was necessary to develop a methodology for estimating these additions to the household sector. A methodology was developed (Coon et al. 1985a) and lease-bonus payments have been included in the household sector since 1979. As previously mentioned, Conservation Reserve Program payments were believed to be more like Household sector than crops sector dollars in the way they worked through the economy via the multiplier process. Program payments to North Dakota by county were available since 1987 (U.S. Department of Agriculture 1999), and comprised the third component of the household sector sales for final demand. Regional sales for final demand were allocated to counties based on county personal income relationships (Bureau of Economic Analysis 1999).

Sector 14: Coal Mining

Total receipts from non-local sales of coal comprise the coal mining final demand vector. Coal converted to electricity or synthetic natural gas was not included in this sector, but rather in the coal conversion sector. Coal production data were available by county and mine for North Dakota (Office of State Tax Commissioner 1998). Value of coal mined was available until 1975 (North Dakota State Mine Inspector 1975), and after that time data provided by Monthly Energy Review (1999b) were used to adjust prices to the current levels. Multiplication of price of coal by the tons of production yielded the coal mining sales for final demand. County-level production data were available to calculate county sales for final demand.

Sector 15: Coal Conversion

The coal conversion sector consists of production of electricity and synthetic natural gas from lignite coal. Kilowatt hours of electricity generated in this manner were available from the State Tax Department (1999) on an annual basis. Price per kilowatt hour (Monthly Energy Review 1999d) were multiplied by kilowatt hours generated to estimate the coal conversion component of sales for final demand. Only one company is involved in coal gasification in North Dakota. In order to avoid disclosure of proprietary data, value of synthetic natural gas and by-products was provided to the Agribusiness and Applied Economics Department as part of a contractual research agreement with the Lignite Energy Council. The value of this production was added to electric generation to get the coal conversion sales for final demand.

Sector 16: Petroleum/Natural Gas Exploration/Extraction

North Dakota crude oil production by county was available annually (North Dakota Industrial Commission 1999), as was the annual price (Monthly Energy Review 1999a). Applying the price to production gave the petroleum/natural gas exploration/extraction sector sales for final demand. County production data were used to determine county level values. Natural gas was not a component of the final demand vector because North Dakota is a net importer of natural gas. Lease bonus payments associated with oil exploration were included in the household sector, as those dollars were believed to work their way through the economy similar to that sector.

Sector 17: Petroleum Refining

North Dakota does not have a large number of petroleum refineries. At one point there were three operating, but currently only two facilities are refining crude oil. Because of the small number of firms in this industry, disclosure of proprietary data was a problem. Much of the data necessary to estimate this sector was obtained from personal contact with the firms operating in the state (for a discussion of these data sources, see Hertsgaard et al. 1977). These industry officials provided information about the breakdown of refined products they produced, and the amount of their products exported from the state. The mixture of refined products is very stable, as is the total amount of refined product. Only one plant expansion has occurred since 1958. Annual prices for refined petroleum products were available (Monthly Energy Review 1999c). Applying the prices to the respective petroleum products yields the value of petroleum refining in North Dakota. Estimating county-level values for this sector was accomplished by using value of production for the respective refineries for that county. The sum of the state region sales for final demand does not total to state

value due to inter-regional exports for both the petroleum/natural gas exploration/extraction and petroleum refining sectors.

Conclusions

State and regional sales for final demand have been estimated for the period 1958-1998 (Appendix B, Tables 1-9). Applying them to the multipliers, or input-output interdependence coefficients, yields gross business volumes for each sector. Gross business volumes measure the total level of business activity for each economic sector. Gross business volumes for the 1958-1998 period for the state and regions are presented in Appendix B, Tables 10-18. These values provide many important measures of business activity such as retail trade and personal income (the business activity of the household sector is by definition personal income). Published personal income data can be compared to input-output estimates to validate the input-output model, or check its accuracy. For a complete set of input-output model related tables, including sales for final demand at state, regional, and county levels, state and regional gross business volumes, state and regional employment by economic sector, and personal income estimation and model validation, for the 1958-1998 period, see Coon and Leistriz (2000b).

The North Dakota Input-Output model has had widespread application for analyzing the state's economy. It has been used for impact assessment, economic base composition analysis, economic forecasting, and as a major component of comprehensive economic-demographic simulation models. Its importance as an economic tool can not be underestimated. Other reports describe the input-output model's development and usage for economic analysis. However, the procedures and data sources for developing the economic base values correlating with the model have not been previously documented in detail. This report provides the methodology and data sources to develop state and sub-state estimates of sales for final demand.

References

- Bureau of Economic Analysis. 1999. *Personal Income by Major Source and Earnings by Industry*. Washington, DC: U.S. Department of Commerce, Regional Economic Information System.
- Coon, Randal C., and F. Larry Leistritz. 1997. *Assessing the Economic Impacts of New or Recently Expanded Manufacturing and Exportable Service Firms in North Dakota*. Agricultural Economics Report No. 375. Fargo: North Dakota State University, Department of Agricultural Economics.
- Coon, Randal C., and F. Larry Leistritz. 2000a. *Adding Export Services Component to the North Dakota Input-Output Model's Business and Personal Services Sector*. Fargo: North Dakota State University, Department of Agricultural Economics.
- Coon, Randal C., and F. Larry Leistritz. 2000b. *North Dakota Input-Output Model Data Base*. Unpublished Data. Fargo: North Dakota State University, Department of Agricultural Economics.
- Coon, Randal C., Craig Anderson, and F. Larry Leistritz. 1985a. *A Methodology for Estimating Oil and Gas Lease Bonus Payments in North Dakota 1976-1983*. Fargo: North Dakota State University, Department of Agricultural Economics.
- Coon, Randal C., F. Larry Leistritz, Thor A. Hertsgaard, and Arlen G. Leholm. 1985b. *The North Dakota Input-Output Model: A Tool For Analyzing Economic Linkages*. Agricultural Economics Report No. 187. Fargo: North Dakota State University, Department of Agricultural Economics.
- Dean Runyan Associates. 1993. *North Dakota Travel: States Economic Impacts 1992*. Prepared for the North Dakota Department of Tourism. Portland, Oregon.
- Greater North Dakota Association. 1983. *New Wealth - - North Dakota*. Fargo: North Dakota State Chamber of Commerce.
- Hertsgaard, Thor A., Randal C. Coon, F. Larry Leistritz, and Norman L. Dalstad. 1977. *Developing Economic Impact Projection Models for the Fort Union Coal Region*. EPA-908/4-77-009. Denver: Environmental Protection Agency.
- Job Service North Dakota. 1999. *North Dakota Occupational Wages, 1996-1997*. Bismarck: Job Service North Dakota, Labor Market Information.
- Monthly Energy Review. 1999a. *Crude Oil Price Summary*. Washington, DC: Energy Information Administration, Office of Energy Markets and End Use.
- Monthly Energy Review. 1999b. *Quantity and Cost of Fossil-Fuel Receipts at Steam-Electric Utility Plants*. Washington, DC: Energy Information Administration, Office of Energy Markets and End Use.

- Monthly Energy Review. 1999c. *Refiner Prices of Petroleum Products To End Users*. Washington, DC: Energy Information Administration, Office of Energy Markets and End Use.
- Monthly Energy Review. 1999d. *Retail Prices of Electricity Sold by Electric Utilities*. Washington, DC: Energy Information Administration, Office of Energy Markets and End Use.
- North Dakota Agricultural Statistics Service. 1999. *North Dakota Agricultural Statistics 1999*. Ag Statistics No. 68. Fargo: North Dakota State University and U.S. Department of Agriculture Cooperating.
- North Dakota Industrial Commission. 1999. *Oil and Gas Production By Counties - 1998*. Bismarck: North Dakota Industrial Commission, Oil and Gas Division.
- Office of Management and Budget. 1987. *Standard Industrial Classification Manual*. Washington, DC: Executive Office of the President, U.S. Government Printing Office.
- Office of State Tax Commissioner. 1998. *Tons of Taxable and Nontaxable Coal Severed*. Bismarck: Office of State Tax Commissioner.
- State Tax Department. 1999. *Kilowatt Hours of Coal-fired Electricity Generated in North Dakota*. Unpublished Data. Bismarck: Office of the State Tax Commissioner.
- U.S. Department of Agriculture. 1999. *North Dakota CRP Contract Enrollment Data Report*. Unpublished Data. Fargo: North Dakota State Farm Service Agency.
- U.S. Department of Commerce. 1967-1975. *Federal Outlays in North Dakota*. Washington, DC: Office of Economic Opportunity, National Technical Information Service.
- U.S. Department of Commerce. 1999a. *Consolidated Federal Funds Report 1998*. Washington, DC: U.S. Bureau of the Census, Economics and Statistics Administration.
- U.S. Department of Commerce. 1999b. *Federal Aid to States for Final Year 1998*. Washington, DC: U.S. Bureau of the Census, Economics and Statistics Administration.