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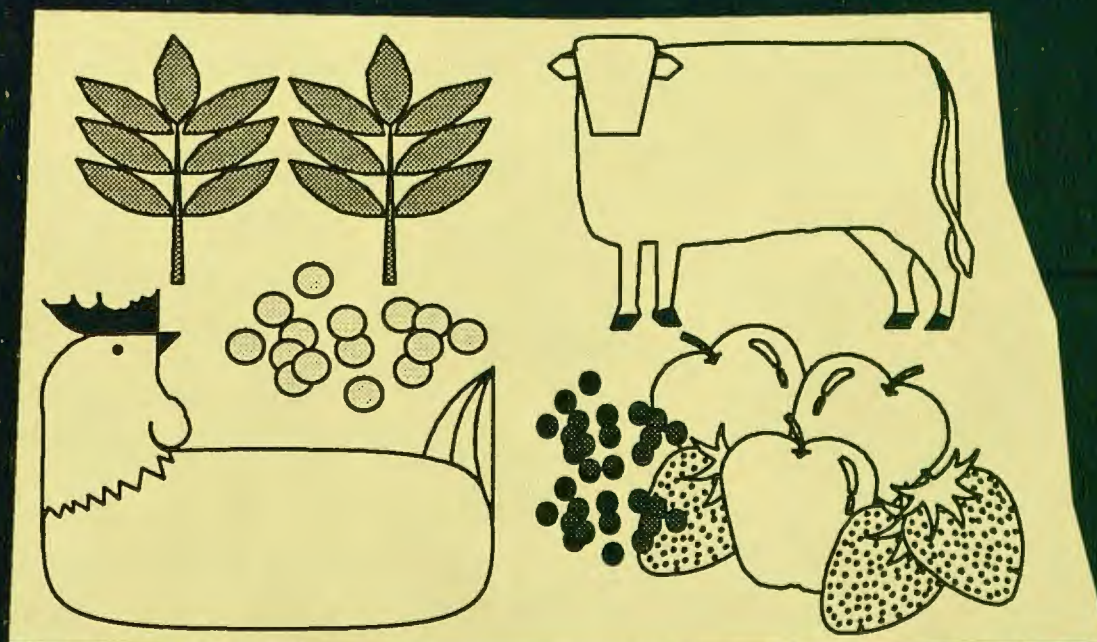
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The Role of Agriculture in the North Dakota Economy

by

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Growing North Dakota Value-Added Agriculture

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Acknowledgments

This report was assembled through the combined efforts of a number of people and organizations. First, we express our appreciation to Technology Transfer Inc. for partial financial support of the project. Our thanks also go to the Agriculture and Rural Economy Division, Economic Research Service, U.S. Department of Agriculture for providing access to their database of farm and farm-related employment and to David Hopkins, Fred Hines, and Thomas Carlin for their personal assistance and encouragement.

Our thanks also go to Rita Hamm for her editorial and graphics assistance, to Janet Wanzek for her analytical efforts, and to Shelly Swandal who helped type the manuscript. We also thank our colleagues in the Department of Agricultural Economics and the Institute of Business and Industry Development for their helpful reviews.

The authors accept sole responsibility for any remaining errors or omissions.

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Highlights

[This report portrays the role of agriculture in the North Dakota economy, using several measures. These include sales to final demand (exports), gross business volume (gross receipts), employment, and gross state product. In sum, although the role of agriculture in the state's economy has been reduced, this reduction is associated with growth and development in the energy industry and with expansion of federal government outlays in the state. In other words, the principle reason for the decline in agriculture's share of the economic base is the rapid expansion of other sectors, rather than substantial absolute decreases in the value of agricultural production.]

Agriculture is still a very important segment of the state's economy.

- ✓ Over one-third of the state's basic economic activity comes from agriculture.*
- ✓ Agriculture directly employs over 14 percent of the state's workers.*
- ✓ Direct and indirect agricultural employment accounted for 26 percent of all jobs in the state in 1988.*
- ✓ North Dakota's economy is highly dependent on agriculture, ranking 4th in the nation in percentage of gross state product derived from agriculture.*
- ✓ The direct contribution of agriculture as well as its spin-off industries provide much needed economic base, personal income and employment in the state.*

THE ROLE OF AGRICULTURE IN THE NORTH DAKOTA ECONOMY

Randal C. Coon, F. Larry Leistritz, and T. Alexander Majchrowicz*

Historically, North Dakota's economy has been closely tied to natural resource-intensive industries. Natural resources are still key to several of the state's major industries, particularly agriculture and energy extraction and conversion activities. This report addresses the issue of agriculture's role in the state's economy (i.e., how important agriculture is to the state economy). This task is accomplished by analyzing information from three data bases reflecting three perspectives for viewing economic activity -- economic base (or sales to final demand), agricultural and related employment, and gross state product.

Recent problems in the farm sector, including low commodity prices and drought, 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's economy has not been evaluated for several years. (For an earlier analysis, see Coon 1984.)

The economic base of North Dakota has been evaluated on a regular basis to show overall growth and changing trends (Coon et al. 1986, Coon and Leistritz 1987, Coon and Leistritz 1989, and Leistritz and Coon 1991). These studies evaluated the state's economy, its composition, and trends in recent years, but they did not specifically examine the role of one industry (such as agriculture) in the state's economy. Also, previous work evaluated the state's economy only from the economic base perspective; this study will employ two *additional* approaches -- direct and indirect employment resulting from agriculture and gross state product -- to examine the impact of agriculture on the North Dakota economy.

North Dakota's population shifted from being predominately rural to one with a majority (53.3%) of urban dwellers during the 1980-1990 decade (based on the U.S. Census Bureau definition that classifies towns with more than 2,500 population as urban) (U.S. Bureau of the Census 1991). This population shift gives rise to the question of how the economy of the state has restructured with this shift.

Agriculture experiences variability due to factors such as weather, price change, farm policy, and foreign trade beyond the control of those directly involved. These factors result in the value of agriculture's output having great

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variability from year to year. The energy industries also experience a similar fate with the value of output having a great deal of year-to-year change. North Dakota has depended heavily upon these two sectors of the economy with the result being a rather volatile state economy. These ups and downs in the state's economy have resulted in a variety of fiscal problems for both state and local governments, as well as economic hardship for many residents, and achieving greater economic diversification has become one of the principal state policy goals. The effort to increase diversification, coupled with declining farm numbers, may lead to a belief that agriculture's role in the North Dakota economy has been substantially reduced. However, agriculture remains a very important force in the state's economy, and viewing it from avenues other than just the number of farms provides greater insight into the importance of the agricultural sector to the state's economic well-being.

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. An economic measure known as *gross state product* (a state-level measure analogous to gross national product) is available for all states, including North Dakota, for recent time periods. This data source, coupled with the economic base data, and agricultural and related employment provides an excellent basis for evaluating the agricultural sector's relative importance to the North Dakota economy.

Economic Base Analysis

North Dakota's economic base can be described as those activities that bring money *into* the state. These basic sector (or primary sector) activities include agriculture, federal government outlays, manufacturing, tourism, and energy. 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 eleven sectors of the North Dakota Input-Output Model as sales to final demand (exports) (Table 1). (Appendix Table 1 contains a detailed sector description for the North Dakota Input-Output Model.) Data used in estimating the sales to final demand were obtained from a variety of sources. A complete description of the data sources and methods used to determine the final demand vectors (i.e., estimates of sales to final demand by the various sectors over time) can be found in Hertsgaard et al. (1977). (For a complete discussion of the North Dakota Input-Output Model, see Coon et al. 1985.)

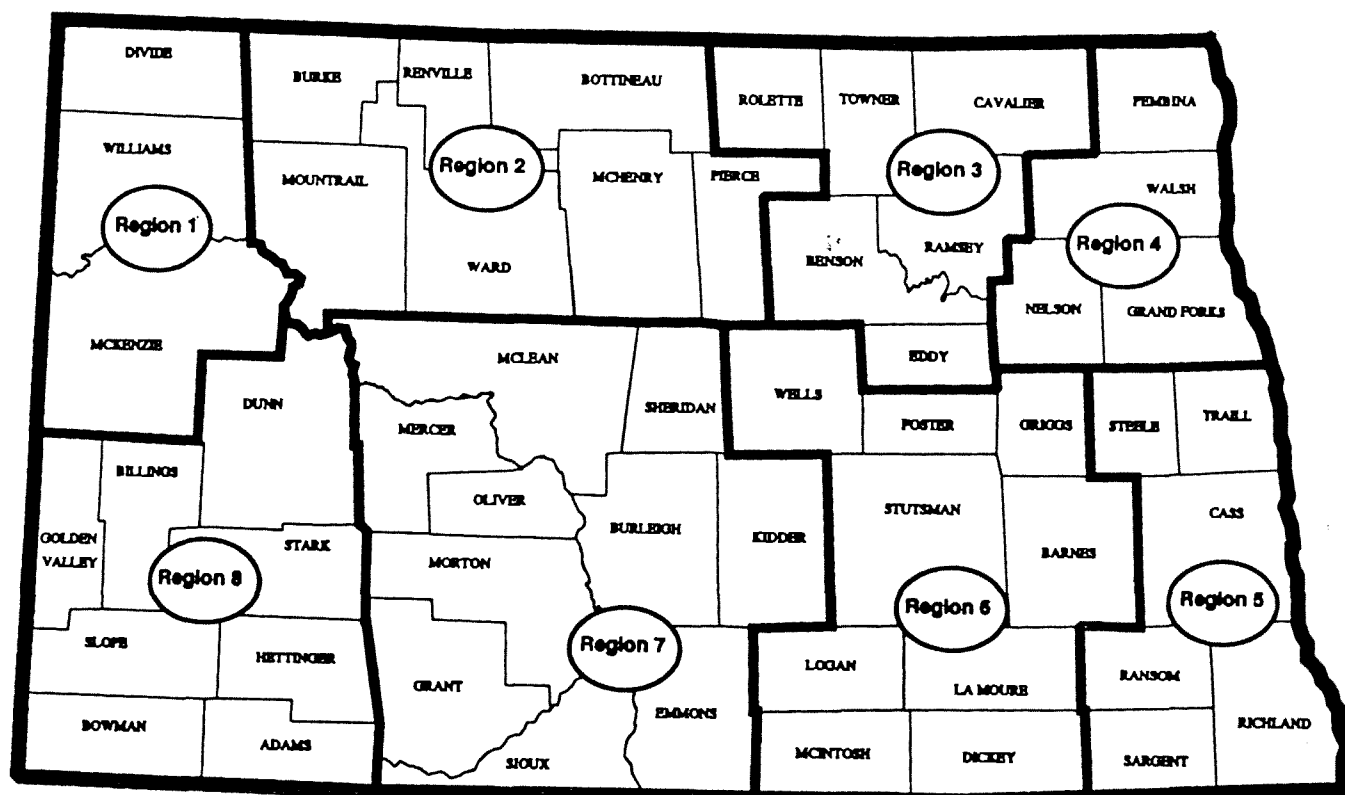


Figure 1. North Dakota State Planning Regions

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

Input-Output Model

Final demand vectors were first estimated in terms of the prices for the goods and services that existed in each respective year, called 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 1972-1991) were used to convert the current dollar sales to final demand to constant 1990 dollar values. (Appendix A, Table 2 gives the annual deflators used to convert current dollars to 1990 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 that takes place 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 (Leistritz and Murdock 1981). Basic economic sectors bring income into the state where it is spent and respent, creating business activity in the basic and other sectors of the state's economy. Current dollar gross business volumes for North Dakota and State Regions 1-8 are presented in Appendix Tables 12-20. (For a complete listing of the input-output interdependence coefficients [multipliers] used to generate state and state region gross business volume estimates, see Coon and Leistritz 1989.)

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 Department of Commerce personal income estimates are in current year dollars, so household sector gross business volumes must be expressed in similar terms to enable valid comparisons. North Dakota personal income estimates from the input-output model had an average annual deviation of 6.36 percent from Department of Commerce values for the 1958-1990 period (Table 2). The Thiel's U_1 coefficient of 0.04 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 the results for each region and the state is presented in Appendix A, Tables 21-29.)

TABLE 2. COMPARISON OF STATISTICAL TESTS FOR THE INPUT-OUTPUT MODEL PERSONAL INCOME ESTIMATION, NORTH DAKOTA REGIONS 1-8 AND STATE, 1958-1990

Area	Average Absolute Difference ^a	Mean Difference ^b	Standard Deviation ^c	Theil's Coefficient ^d
Region 1	10.82	-2.99	13.65	0.11
Region 2	8.17	4.38	10.08	0.08
Region 3	21.26	20.76	11.45	0.19
Region 4	8.54	5.02	10.93	0.08
Region 5	21.19	-20.91	10.87	0.25
Region 6	8.71	7.85	7.98	0.09
Region 7	7.08	-6.90	6.07	0.10
Region 8	12.93	10.94	12.04	0.14
State	6.36	-2.35	7.79	0.04

^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)

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 3 presents the North Dakota sales for final demand for the basic economic sectors for the 1958-1990 period. Similar tables for State Regions 1-8 are presented in Appendix B, Tables 1-8. The importance of agriculture to the state's economy is evaluated by determining the percentage of the total that is comprised of

TABLE 3. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA, MILLION DOLLARS (1990=BASE DOLLARS), 1958-1990

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	908.1	1,814.9	75.4	257.6	68.0	22.7	770.8	4.5	--	22.3	54.0	3,998.3
1959	874.8	1,589.8	109.5	229.5	72.5	24.2	750.8	4.0	--	43.9	51.9	3,750.9
1960	694.7	1,548.1	129.5	261.8	59.0	19.8	744.2	4.0	--	57.4	49.5	3,568.0
1961	839.5	1,341.1	94.2	264.9	67.5	22.8	930.9	5.1	--	82.4	49.5	3,697.9
1962	768.0	1,837.4	63.6	241.2	72.1	24.3	1,326.4	5.8	--	87.9	48.2	4,474.9
1963	787.9	2,060.3	64.9	276.9	82.3	27.3	1,269.0	4.9	--	88.4	47.4	4,709.3
1964	798.0	1,688.0	113.0	293.3	98.0	32.5	1,815.2	5.6	--	96.9	47.5	4,988.0
1965	905.3	2,028.2	113.4	286.8	120.7	40.2	1,321.9	5.5	--	102.4	49.0	4,973.4
1966	962.4	2,160.2	82.6	298.5	159.5	53.2	1,519.3	4.6	15.6	105.3	49.6	5,410.8
1967	967.0	1,956.6	84.0	315.7	188.3	62.7	1,310.8	7.2	28.9	96.4	50.3	5,067.9
1968	871.1	1,881.0	89.0	334.7	229.8	76.5	1,476.8	7.9	40.6	113.1	48.5	5,169.0
1969	830.7	2,011.9	110.3	507.8	237.6	79.3	1,572.1	7.5	36.7	82.1	46.7	5,522.7
1970	810.5	1,995.8	541.6	440.5	254.9	84.8	1,688.6	9.5	41.0	90.1	45.2	6,002.5
1971	863.9	1,910.1	172.1	459.3	265.9	88.7	1,715.6	9.9	49.6	93.3	45.1	5,673.5
1972	1,023.9	2,652.3	198.3	462.5	234.8	78.3	1,765.5	9.0	58.2	94.1	45.7	6,622.6
1973	1,225.0	4,622.1	158.6	625.5	243.2	81.1	1,870.5	10.6	49.7	98.8	49.2	9,034.3
1974	1,061.8	4,905.5	171.4	721.6	219.2	73.6	1,908.1	11.6	53.0	180.2	53.5	9,359.5
1975	981.4	3,371.9	179.7	664.5	243.8	81.3	2,269.0	15.4	44.6	182.7	54.2	8,088.5
1976	997.5	2,459.9	92.5	962.3	276.4	92.3	2,197.1	33.0	79.5	207.6	55.6	7,453.7
1977	940.3	2,293.0	100.6	794.0	279.4	93.0	2,094.7	35.4	90.1	198.4	56.8	6,975.7
1978	959.9	2,928.7	119.3	790.2	299.2	99.5	2,099.4	39.9	118.6	196.7	55.8	7,707.2
1979	1,160.1	2,829.0	130.4	875.5	246.5	82.2	2,309.7	53.8	153.1	305.0	78.4	8,223.7
1980	1,199.0	2,641.7	165.9	862.7	221.7	74.0	2,589.2	74.1	184.3	629.7	114.0	8,756.3
1981	826.8	3,256.5	109.7	857.9	223.3	74.5	2,639.9	75.9	196.0	1,354.5	183.5	9,798.5
1982	794.1	3,029.4	73.6	691.7	219.7	73.2	2,099.6	75.9	212.8	1,126.2	159.4	8,555.6
1983	837.5	3,294.8	100.7	678.6	248.2	82.8	2,447.2	96.9	248.2	989.3	142.6	9,166.8
1984	840.9	2,822.6	135.9	697.4	215.4	71.8	2,596.8	117.3	275.7	877.0	133.3	8,784.1
1985	823.5	3,049.8	120.9	689.0	224.2	74.6	2,600.6	161.4	308.4	725.7	120.0	8,898.1
1986	778.8	2,677.7	111.7	677.4	223.5	74.4	2,622.5	146.9	301.1	317.2	93.8	8,025.0
1987	888.2	2,523.1	91.1	682.4	231.4	77.2	2,586.2	134.3	557.0	357.9	98.2	8,227.0
1988	920.7	2,699.3	102.9	708.4	238.0	79.3	2,578.9	128.3	617.7	264.4	97.2	8,435.1
1989	668.7	2,020.4	81.4	714.5	246.9	82.4	2,784.2	151.0	557.7	308.5	109.2	7,724.9
1990	684.9	2,320.1	100.2	698.6	262.9	87.6	2,960.5	142.2	543.6	354.5	126.4	8,281.5

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, and 1990.

Agricultural sales to final demand have grown from just over \$2.2 billion in 1960 to over \$3.0 billion by 1990, during which time total sales for final demand went from almost \$3.6 billion to nearly \$8.3 billion (Table 4). Among the years selected for examination (1960, 1970, 1980, and 1990), the agricultural sales to final demand were highest in 1980 (\$3.8 billion), as was the state's total sales to final demand (\$8.8 billion). This reflects the fact that the period 1977-1985 was a period of strong real economic growth in the state and that this has been followed by a period that has not been able to match the earlier levels. Considering all individual years for the 1958-1990 period, the largest state total sales to final demand was 1981 with a total of nearly \$9.8 billion, followed by 1974 with \$9.4 billion. In 1981 a relatively high level of agricultural sales coincided with record sales to final demand by the petroleum exploration and extraction sector; in 1974, livestock sales were near their peak and crop sales hit their all-time highest level (in real terms).

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 and 1970 State Region 6 had the highest absolute level of agricultural sales to final demand, and Region 5 had the greatest amount of agricultural sales in 1980 and 1990. State Region 7 had the largest total sales for final demand for each of the four years examined, with energy (primarily coal extraction and conversion and petroleum refining) contributing an important part of its basic activity.

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 was only 36.3 percent in 1990. 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 slightly over one-third in 1990. When interpreting this information, it is important to remember that agriculture (particularly the crops sector) has gone through some extremely difficult times in recent years, so the 1990 value may overstate the downside of the trend. Bearing that fact in mind, a clear trend of reduced dependence on agriculture has developed at the state level; however, the state still relies on agriculture for well over one-third of its basic economic activity despite the hardships that the sector is enduring.

TABLE 4. AGRICULTURAL AND TOTAL SALES TO FINAL DEMAND, BY STATE REGION
(1990=BASE DOLLARS), SELECTED YEARS 1960-1990

Area	1960		1970		1980		1990	
	Ag	Total	Ag	Total	Ag	Total	Ag	Total
-----Million Dollars-----								
Region 1	107.7	276.4	158.5	351.4	193.7	906.3	118.8	699.4
Region 2	284.4	544.2	363.8	937.4	463.1	1,342.0	362.4	1,272.1
Region 3	219.8	311.7	282.3	470.6	430.5	724.1	313.8	663.6
Region 4	323.1	549.3	422.4	1,319.4	585.8	1,218.8	363.5	1,098.3
Region 5	379.0	634.9	434.0	956.9	756.4	1,433.2	619.1	1,330.0
Region 6	415.4	552.4	488.4	754.4	639.6	969.4	580.3	961.1
Region 7	326.0	679.7	415.3	992.0	517.2	1,846.9	350.1	2,146.8
Region 8	187.4	251.7	241.8	438.4	254.4	575.9	297.0	782.5
State ^a	2,242.8	3,568.0	2,806.3	6,002.5	3,840.7	8,756.3	3,005.0	8,281.5

^aThe 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 1960-1990

Area	1960	1970	1980	1990
	-----Percent-----			
Region 1	39.0	45.1	21.4	17.0
Region 2	52.3	38.8	34.5	28.5
Region 3	70.5	60.0	59.5	47.3
Region 4	58.8	32.0	48.1	33.1
Region 5	59.7	45.4	52.8	46.5
Region 6	75.2	64.7	66.0	60.4
Region 7	48.0	41.9	28.0	16.3
Region 8	74.5	55.2	23.7	38.0
State	62.9	46.8	43.9	36.3

The state regions show substantial variation in their level of dependence on agriculture. Agriculture's share of total sales to final demand in State Region 1 slipped from 39.0 percent to 17.0 percent from 1960 to 1990, reflecting the growing importance of the oil industry in that area. Region 2 has experienced a decline similar to Region 1, with oil also being a factor. The most agriculturally dependent regions in 1960 were 3, 6, and 8, with each area receiving about three-fourths of its economic base from agriculture. By 1990 State Regions 3 and 6 were still the most

agriculturally dependent with about one-half of their sales for final demand coming from agriculture. However, energy development in Region 8 had reduced the region's dependence on agriculture to 38 percent. State Regions 4 and 5 dropped from obtaining about 60 percent of their economic base from agriculture in 1960 to receiving 33.1 percent and 46.5 percent, respectively, in 1990. Region 5, with Fargo the state's largest city and major trade center, still derived almost one-half of its economic base from agriculture in 1990. Region 7 reduced its reliance on agriculture from 48.0 to 16.3 percent during the 1960 to 1990 period. This region includes Bismarck, another trade center and the state capitol, and has realized many of the benefits of the state's expanded energy industries.

Overall, the state has reduced its dependence on agriculture for its economic base, although agriculture still provides a large portion of the total. The eastern regions (3, 4, 5, and 6) still maintain the largest proportional dependence on agriculture while the western regions (1, 2, 7, and 8) have diversified their economies somewhat more, in part due to the energy industries. During the 1980 to 1990 period, the state's dependence on agriculture decreased from 43.9 to 36.3 percent, and during that same period the actual agricultural sales for final demand declined in real terms from \$3.8 billion to \$3.0 billion with the total state economic base also decreasing from \$8.8 billion to \$8.3 billion. In addition to the energy sector, the household sector (i.e., federal government transfer payments and federal wage and salary payments) has grown during the period of this analysis, also reducing some of the state's economic dependence on agriculture.

Constant Dollar Total Business Activity

Application of the sales for final demand to the input-output multipliers produces gross business volume estimates. Using current dollar sales for final demand results in gross business volume estimates in similar terms, 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 (1990 = 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 to 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 business activity that occurs in the agricultural (livestock and crops) 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 has declined during the 1960 to 1990 period for all regions and the state;

TABLE 6. AGRICULTURAL AND TOTAL GROSS BUSINESS VOLUME, BY STATE REGION
(1990=BASE DOLLARS), SELECTED YEARS 1960-1990

Area	1960		1970		1980		1990	
	Ag	Total	Ag	Total	Ag	Total	Ag	Total
-----Million Dollars-----								
Region 1	154.1	799.5	226.2	1,090.7	313.7	3,477.3	196.6	1,778.9
Region 2	409.8	1,859.3	558.3	3,137.9	758.5	7,454.5	604.0	4,095.3
Region 3	296.4	1,137.2	381.0	1,655.0	579.3	2,542.1	433.3	2,264.7
Region 4	440.3	1,942.0	630.2	4,127.3	888.4	4,327.8	609.4	3,765.5
Region 5	571.3	2,350.5	693.3	3,389.8	1,182.3	5,243.1	965.5	4,730.2
Region 6	584.0	2,092.5	697.0	2,751.0	927.4	3,606.4	823.9	3,466.2
Region 7	505.8	2,196.8	676.5	3,245.3	953.2	5,602.0	685.5	5,819.9
Region 8	270.4	958.5	368.2	1,545.1	455.0	2,984.4	452.9	2,402.0
State	3,229.5	13,023.8	4,227.4	20,644.8	6,047.3	30,103.0	4,761.9	27,268.3

TABLE 7. AGRICULTURAL GROSS BUSINESS VOLUME AS A PERCENTAGE OF TOTAL GROSS
BUSINESS VOLUME, BY STATE REGION, SELECTED YEARS 1960-1990

Area	1960	1970	1980	1990
-----Percent-----				
Region 1	19.3	20.7	12.7	11.1
Region 2	22.0	17.8	17.0	14.8
Region 3	26.1	23.0	22.8	19.1
Region 4	22.7	15.3	20.5	16.2
Region 5	24.3	20.5	22.5	20.4
Region 6	27.9	25.3	25.7	23.8
Region 7	23.0	20.9	17.0	11.8
Region 8	28.2	23.8	15.3	18.9
State	24.8	20.5	20.1	17.5

however, the percentage decreases are not as large in absolute terms as those for the final demand vectors. Agriculture's share of total state-level business activity has declined 7.3 percent (from 24.8 to 17.5 percent) from 1960 to 1990.

Employment by Sector

Employment estimates corresponding with the sectors of the North Dakota Input-Output Model have been 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 viewpoint. 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 sector to create one job in the sector. Appendix A, Tables 30-38 contain the current year dollar productivity ratios for North Dakota and the eight regions. These ratios do not directly show the role of agriculture in the state's economy but are very useful for many other economic base analyses.

A summary of *direct* agricultural employment for the regions and North Dakota for 1960, 1970, 1980, and 1990 is presented in Table 8. State-level direct agricultural employment in 1990 was about half of that in 1960, reflecting a decline from 91,750 to 47,870 employees. This closely follows the trend of fewer and larger farms in the state. State Region 1 had the fewest direct agricultural employees throughout the 1960 to 1990 period. For the period, State Regions 6 and 7 have remained at or near the top of agricultural employment.

Expressing the number of workers (proprietors plus wage and salary employment) associated with the input-output model's agricultural sectors (livestock and crops) as a percent of the total employment for all sectors provides another perspective concerning the role of agriculture in the economy. Agricultural employment in the state has declined from 37.8 percent to 14.3 percent of all employment over the period 1960 to 1990. Again, this decline 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 four years. Regions

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 1960-1990

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

with major trade centers, such as Region 4 (Grand Forks), Region 5 (Fargo), and Region 7 (Bismarck), had the lowest percentage 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-fourth of their workers directly employed in agriculture in 1990.

TABLE 9. PERCENTAGE AGRICULTURAL PROPRIETORS AND WAGE AND SALARY EMPLOYMENT FOR THE LIVESTOCK AND CROP SECTOR COMPRISE OF TOTAL EMPLOYMENT ASSOCIATED WITH THE INPUT-OUTPUT MODEL, BY STATE REGION, SELECTED YEARS 1960-1990

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

Farm and Farm-Related Employment

Direct agricultural employment in North Dakota tells only part of the story. In addition to those employed directly in farming and ranching, many other jobs have been created as a result of agriculture. These include such jobs as agricultural processing, marketing, agricultural input industries, and farm-related wholesale and retail trade. Majchrowicz (1991) has developed a routine for estimating state and county-level farm and farm-related employment. These data were available for four years including 1975, 1981, 1985, and 1988. Table 10 provides a detailed breakdown of North Dakota farm and farm-related employment. The decline in the farm proprietors, farm wage and salary, and agricultural services category from 18.9 percent to 12.6 percent from 1975 to 1988 is consistent with the direct agricultural employment associated with the input-output model, discussed in the previous section. However, total farm and farm-related employment in the state has increased during the 1975 to 1988 period from 94,272 to 95,092. The corresponding percentage of total employment accounted for by farm and farm-related employment has declined from 32.9 percent to 26.9 percent during the same period. This decline indicates that other nonfarm employment has increased faster than the farm and farm-related jobs during the period of the analysis. Even with large declines in farm numbers and the number of farmers, the agricultural sector of the state's economy still provides an increasing number of jobs for workers in the state.

TABLE 10. AGRICULTURAL-RELATED EMPLOYMENT BY CATEGORY, NONAGRICULTURAL EMPLOYMENT, AND TOTAL EMPLOYMENT, NORTH DAKOTA, SELECTED YEARS 1975-1988

Employment Category	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
Ag input industries	7,344	2.57	7,436	2.22	5,926	1.70	4,990	1.41
Ag chemicals manufacturing	35	0.01	46	0.01	21	0.01	48	0.01
Farm machinery & equip manufacturing	3,259	1.14	2,402	0.72	1,971	0.56	1,297	0.37
Farm machinery & equip supply whls trade	4,050	1.42	4,985	1.49	3,926	1.12	3,640	1.03
Commercial contract brokers	0	--	3	0.00	8	0.00	5	0.00
Farm proprietors, farm W & S, ag services	53,963	18.86	52,261	15.57	47,790	13.67	44,536	12.61
Ag processing and marketing	7,931	2.77	8,059	2.40	7,850	2.25	8,205	2.32
Meat products manufacturing	328	0.211	271	0.08	421	0.12	495	0.14
Dairy products manufacturing	1,072	0.37	964	0.29	774	0.22	721	0.20
Canned, preserved fruit & veg manufacturing	712	0.25	311	0.09	624	0.18	853	0.24
Grain mill products manufacturing	351	0.12	233	0.07	321	0.09	340	0.10
Bakery products manufacturing	725	0.25	534	0.16	529	0.15	463	0.13
Sugar & confectionary products manufacturing	786	0.27	863	0.26	582	0.17	955	0.27
Fats and Oil products manufacturing	19	0.01	92	0.03	97	0.03	91	0.03
Beverage manufacturing	229	0.08	386	0.12	380	0.11	289	0.08
Misc foods prep & kindred prod manufacturing	77	0.03	404	0.12	572	0.16	263	0.07
Apparel and textiles manufacturing	176	0.06	20	0.01	21	0.01	24	0.01
Farm-related raw matl whsl & retail trade	3,355	1.17	3,829	1.14	3,409	0.98	3,591	1.02
Warehousing	101	0.04	152	0.05	120	0.03	120	0.03
Farm-related whls & retail trade	22,871	7.96	29,798	8.88	31,735	9.08	33,687	9.54
Indirect agribusiness	2,253	0.79	3,222	0.96	3,563	1.02	3,674	1.04
Total farm & farm-related employment	94,272	32.94	100,776	30.03	96,864	27.71	95,092	26.93
Other employment	191,916	67.06	234,791	69.97	252,652	72.29	257,982	73.07
Total employment	286,188	100.00	335,567	100.00	349,516	100.00	353,074	100.00

SOURCE: Majchrowicz (1991).

The largest increase in farm-related employment has been in the farm-related wholesale and retail trade segment while agricultural processing and marketing employment has shown only modest gains from 1975 to 1988. Farm equipment and machinery manufacturing has shown a very noticeable decline during that period.

Data corresponding to the state farm and farm-related employment also are available at the county level. These data were summed to obtain farm and farm-related employment estimates for the state regions. Detailed county and state region employment estimates are presented in Appendix C, Tables 1-8. Farm proprietors, farm wage and salary, and agricultural services employment for each of the regions was summarized and is presented in Table 11. People in those jobs amounted to 44,536 workers in 1988, down from 53,963 in 1975. Again, this is the result of larger and fewer farms. All state regions showed declines in this type of employment from 1975 to 1988.

TABLE 11. FARM PROPRIETORS, FARM WAGE AND SALARY EMPLOYMENT, AND AGRICULTURAL SERVICES EMPLOYMENT, BY STATE REGION, SELECTED YEARS 1975-1988

Area	1975	1981	1985	1988
Region 1	3,239	3,074	2,798	2,606
Region 2	7,934	7,610	7,106	6,687
Region 3	5,770	5,531	5,025	4,665
Region 4	6,197	5,953	5,362	4,894
Region 5	7,697	7,392	6,665	6,231
Region 6	9,046	8,775	7,982	7,462
Region 7	8,879	8,768	8,162	7,626
Region 8	5,201	5,158	4,690	4,361
State	53,963	52,261	47,790	44,536

Table 12 presents the percentage that farm proprietors, farm wage and salary, and agricultural services employment represents of the total for each region and the state. Region 3 has been at or near the top with the percentage of employment of this type for the 1975-1988 period, and in fact had over 22 percent of its total employment involved in these direct agricultural jobs in 1988. The lowest percentage of employment in this job category throughout the period was in Region 5. This region contains the largest trade center in the state, a fact reflected in the lower percentages of employment accounted for by farmers and other direct agricultural jobs. Comparing the employment results from the two different sources presented in this report (input-output associated employment and Majchrowicz 1991) indicates

TABLE 12. PERCENTAGE OF TOTAL EMPLOYMENT THAT IS COMPRISED OF FARM PROPRIETORS, FARM WAGE AND SALARY, AND AGRICULTURAL SERVICES EMPLOYMENT, BY STATE REGION, SELECTED YEARS 1975-1988

Area	1975	1981	1985	1988
	-----Percent-----			
Region 1	25.1	16.8	15.4	16.5
Region 2	17.9	16.0	14.5	13.8
Region 3	28.2	27.1	23.3	22.4
Region 4	13.8	12.0	10.0	8.6
Region 5	11.9	9.6	8.0	7.0
Region 6	27.2	24.5	23.1	21.3
Region 7	18.5	14.6	12.7	11.9
Region 8	29.9	21.6	20.0	20.1
State	18.9	15.6	13.7	12.6

that the relationships and trends are very consistent for the overlapping years the data were available.

Farm and farm-related employment is summarized for the state and state regions in Table 13. State-level farm and farm-related employment increased from 1975 to 1988, as previously discussed. During this period, State Regions 1, 3, 6, and 8 experienced declines in this type of employment, although most of these declines were quite modest. Conversely, the increases for the remaining state regions were also quite small as the total increase for the state amounted to only 820 jobs. Farm and farm-related employment increased at the state level from 1975 to 1981 but declined between 1981 and 1988. The decline from 1981 to 1988 corresponds to the real decline in state level sales for final demand for the agricultural sectors, as well as total sales for final demand, for a similar period.

TABLE 13. TOTAL FARM AND FARM-RELATED EMPLOYMENT, BY STATE REGION, SELECTED YEARS 1975-1988

Area	1975	1981	1985	1988
Region 1	4,784	5,200	4,659	4,498
Region 2	12,891	13,650	13,190	13,027
Region 3	8,260	8,098	7,865	7,578
Region 4	12,356	13,118	12,699	13,439
Region 5	19,365	20,911	20,829	20,923
Region 6	13,883	14,409	13,147	12,862
Region 7	15,192	17,008	16,242	15,486
Region 8	7,522	8,380	7,961	7,275
State	94,272	100,776	96,864	95,092

All regions of the state derive between 23 and 37 percent of their total employment from farming and farm-related employment in 1988 (Table 14). State Regions 3 and 6 have the highest rates with over 36 percent coming from those segments. All eight state planning regions and the state have experienced a decline in the percentage of employment that is farm-related from 1975 to 1988. A reason for this is not so much a decline in the farm-related employment, as in most regions it has actually increased, but from a faster rate of growth from the nonfarm employment segments. While farm numbers have declined, the number of farm and farm-related jobs has increased, showing how important the agriculture sector is to the state's economic stability.

TABLE 14. PERCENTAGE OF TOTAL EMPLOYMENT THAT IS FARM AND FARM-RELATED, BY STATE REGION, SELECTED YEARS 1975-1988

Area	1975	1981	1985	1988
	-----Percent-----			
Region 1	37.1	28.4	27.2	28.5
Region 2	29.1	28.7	27.0	26.8
Region 3	40.3	39.6	36.5	36.5
Region 4	27.5	26.4	23.6	23.7
Region 5	30.0	27.2	25.0	23.4
Region 6	41.7	40.2	38.0	36.7
Region 7	31.6	28.2	25.3	24.2
Region 8	43.2	35.1	34.0	33.5
State	32.9	30.0	27.7	26.9

Agricultural Dependency

To this point, the role of agriculture in North Dakota's economy has been analyzed from the economic base and farm and farm-related employment viewpoints. Another objective of this analysis was to see how the role of North Dakota's agricultural sector compares with that of neighboring states. To accomplish this, a consistent data base for all neighboring states was needed, since the economic base data used for much of the North Dakota analysis were not available for other states. The U.S. Department of Commerce periodically prepares gross state product estimates for all states. (Gross state product is the gross market value of the goods and services attributable to labor and property located in a state. Gross state product should not be compared with the economic base data presented earlier; they are two totally different economic measures.)

Gross state product data by industry are available for all states for 1963, 1967 and 1972-1989 (U.S. Department of Commerce 1991). Current year dollar gross state product data for North Dakota by industry are presented in Appendix A, Table 39.

The purpose of using the gross state product is not to evaluate absolute levels but rather to evaluate the dependency upon agriculture for North Dakota and other states' economies. Table 15 presents the percentage that agricultural industries comprise of total gross state product for North Dakota and selected neighboring states for the period 1963 to 1989.

TABLE 15. PERCENTAGE OF TOTAL GROSS STATE PRODUCT ATTRIBUTED TO AGRICULTURE,^a NORTH DAKOTA, NEIGHBORING STATES, AND THE UNITED STATES, SELECTED YEARS 1963-1989

Year	North Dakota	South Dakota	Minnesota	Iowa	Kansas	Nebraska	Montana	United States
-----Percent-----								
1963	23.8	22.8	8.6	16.0	9.4	13.7	15.1	3.7
1967	19.1	23.0	7.3	14.8	7.4	13.7	11.7	3.1
1972	23.0	24.0	7.0	14.7	10.9	14.2	14.9	3.1
1977	13.9	17.6	8.1	12.4	7.3	9.9	7.4	3.0
1978	17.7	18.1	7.5	15.0	7.0	13.1	9.3	3.2
1979	18.5	21.6	7.3	14.0	8.9	13.7	9.3	3.4
1980	10.8	16.9	6.8	11.7	5.7	10.6	8.6	2.9
1981	13.2	18.9	7.1	14.9	6.6	15.1	8.9	3.1
1982	14.3	19.5	6.5	13.0	7.8	14.1	8.4	2.9
1983	10.1	14.6	4.4	7.7	5.5	9.7	6.4	2.2
1984	13.2	17.4	5.4	11.5	5.8	12.8	5.0	2.5
1985	12.9	15.8	4.8	10.7	6.5	12.5	3.3	2.3
1986	12.0	15.3	4.6	10.6	6.0	11.6	6.5	2.2
1987	11.7	14.8	4.1	8.7	5.9	10.4	7.6	2.2
1988	6.6	11.6	3.3	7.5	5.5	10.6	5.1	2.1
1989	10.0	13.3	4.1	8.8	5.1	11.6	7.2	2.2

^aIncludes farms, agricultural services, forestry, and fisheries.

North Dakota has reduced its dependence on agriculture from 23.8 percent of gross state product to 10.0 percent between 1963 and 1989. This reduction (58 percent) using gross state product is slightly larger than the decrease found using economic base analysis (42 percent; Table 5) for similar time periods. However, the trends are extremely similar; agriculture's role in the state economy has been reduced considerably. Using basic economic activity data, the agricultural sectors of the North Dakota economy contribute a larger portion than gross state product data indicate. These two economic measures both indicate agriculture's role in the state is reduced even though these two measures are defined quite differently, with economic base activity measuring value of products exported from the state, while gross state

product is more of a value-added approach. For these reasons, the economic-base analysis probably provides a more meaningful measure of agriculture's absolute role in the economy. Gross state product will primarily be used in this analysis for determining relative agricultural dependency among states.

Agriculture's role in the economies of North Dakota and neighboring states has shown very similar patterns. North Dakota, South Dakota, Minnesota, Iowa, Kansas, and Montana have all reduced their economic dependency to about one-half of its 1963 level by 1989. Interestingly, Nebraska has experienced a very small reduction in agriculture's share of gross state product during the period. At the national level, agriculture's share of gross state product (i.e., gross national product) has been reduced from 3.7 percent in 1963 to 2.2 percent in 1989. Although agriculture contributes a rather small share of the nation's gross national product, this sector feeds all of this nation and provides one of the sources of exports that have helped positively with the nation's trade imbalance.

North Dakota and its neighbor South Dakota have almost identical trends and levels of agricultural importance in their economies. Minnesota's agricultural level was considerably lower than North Dakota's, primarily because of the large metropolitan areas and their associated industries. Several other states in North Dakota's geographic vicinity are also heavily dependent on agriculture as a key basic economic sector (Figure 2). The Upper Midwest contains the first, second, fourth, and fifth most agriculturally-dependent state in the United States. The economic implications of agriculture's importance in this part of the country are far reaching.

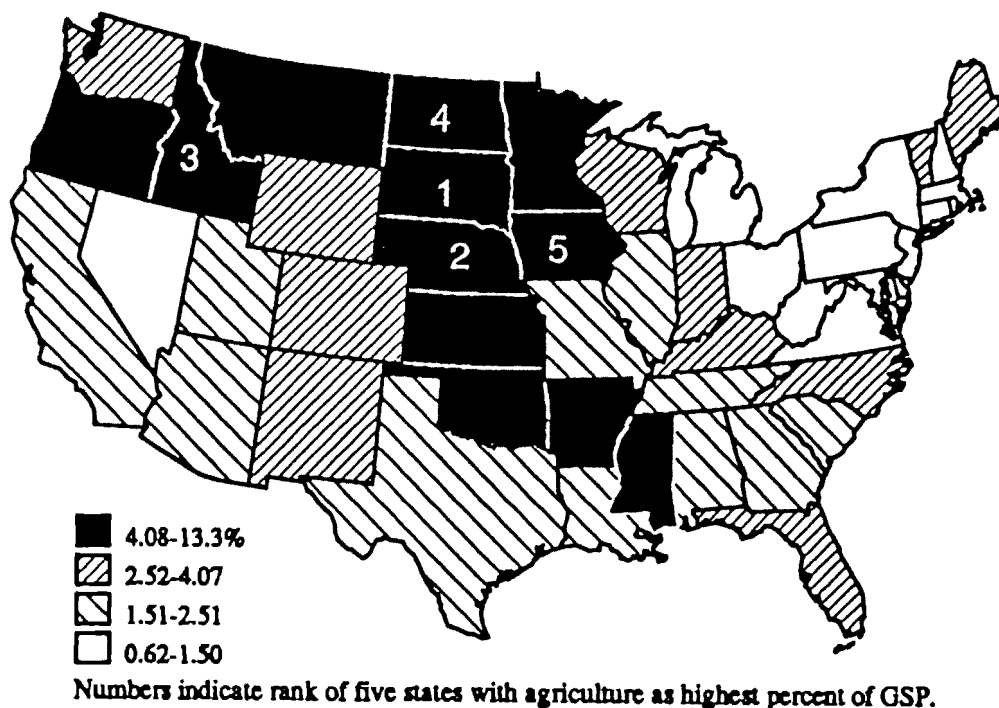


Figure 2. Agricultural Gross State Product as a Percent of Total, 1989

Summary

North Dakota has an economy that has long been dependent upon agriculture for growth and vitality. Variability in the agricultural sector has caused the state's economy to experience ups and downs, resulting in attempts to diversify the economic base. Agriculture's role in the state's economy has been reduced, but it still is a very important segment. Associated with the reduced role of agriculture in the state are the growth and development in the energy industry and the expansion of the federal government outlays in the state. Part of the explanation for agriculture's decreasing share can be attributed to rapid expansion in other segments rather than what could be perceived as a declining agriculture sector in the state.

The importance of agriculture to the state's economy can be highlighted:

- ✓ Over one-third of its basic economic activity comes from agriculture
- ✓ Agriculture directly employs over 14 percent of the state's workers
- ✓ Agriculture generates nearly \$5 billion in business activity
- ✓ Direct and indirect agricultural employment accounted for 26 percent of all jobs in the state in 1988
- ✓ North Dakota's economy is highly dependent on agriculture, ranking 4th in the nation in the percentage of gross state product derived from agriculture

Agriculture in North Dakota is not as dominant a force in the economy as it once was, but it still is a very important component of the state's economy. Its products also provide the potential for additional employment through new processing facilities and value-added production. Much of the manufacturing in the state has been the result of agriculture, where a new or better idea for some piece of agriculture-related machinery or equipment was developed, and then the production of the equipment has been maintained in the state. Understating agriculture's role in the North Dakota economy would be a mistake. Its direct contribution, coupled with spin-off industries, has been an important factor in the state's economic equation, providing much needed economic base, personal income and employment.

GLOSSARY

Basic sector--The basic sector of a state's economy is made up of a grouping of firms that sell some or all of their product or service outside the state, thus bringing money into the state. The firms that comprise the basic sector are known as basic sector firms or sometimes as primary sector firms.

Current vs. constant dollars--Estimates of an industry's output, exports, etc. can be expressed in either current or constant dollars. Current dollars express the value of the industry's output for a given year (1981 for example) in terms of the prices for goods and services that prevailed in that year. Values of sales or income are often adjusted to constant dollar terms to account for the effects of general changes in price levels (i.e., economy-wide inflation) over time. Output values for previous years, for example, would be adjusted to take into account inflation between those years and 1991; the result would be values in constant 1991 dollars.

Economic base--The economic base of a state is simply the sum of the sales of goods and services made outside the state by the basic sector firms. The income coming into the state as a result of this export of goods and services is sometimes referred to as basic income.

Final demand vector--The final demand vector for an industry is the estimates of its sales to final demand over a given period of time. In the North Dakota Input-Output Model the sales to final demand of an industry (or sector) are simply the value of the industry's sales of products or services outside the state, which can also be termed the value of its exports from the state or the basic income accruing to the sector.

Gross business volume--Gross business volume measures the total sales or gross receipts of a given industry, or all industries, in an economy.

Gross state product--Gross state product is a measure of the gross market value of the goods and services attributable to labor and property located within the state.

Input-output model--Input-output models are one of the methods economists use to estimate the linkages or interdependencies among the sectors of a state's economy. For example, input-output multipliers can be used to estimate the effect that expanding a given sector's output or sales to final demand will have on all other sectors.

Sector--A sector is a group of similar economic units. For example, the coal mining sector consists of firms that are primarily engaged in mining coal. The household sector is made up of all households. The agricultural sectors referred to in this report include agricultural crops (consisting of all farms that produce crops) and agricultural livestock (farms that produce livestock).

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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 Groups 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 NATIONAL PRODUCT IMPLICIT PRICE
DEFLATORS FOR 1990 BASE, 1958-1990

Year	GNP Implicit Price Deflators
1958	24.26
1959	24.84
1960	25.25
1961	25.48
1962	25.95
1963	26.36
1964	26.73
1965	27.34
1966	28.21
1967	29.05
1968	30.33
1969	31.90
1970	33.62
1971	35.27
1972	36.76
1973	38.85
1974	42.24
1975	46.14
1976	48.55
1977	51.40
1978	55.15
1979	59.83
1980	65.17
1981	71.84
1982	76.12
1983	79.13
1984	82.09
1985	84.80
1986	86.77
1987	89.51
1988	92.25
1989	96.04
1990	100.00

SOURCE: U.S. Department of Commerce (1972-1991).

TABLE A3. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	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	684.9	2,320.1	100.2	698.6	262.9	87.6	2,906.5	142.2	543.6	354.5	126.4	8,227.5

TABLE A4. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 1, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	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	35.6	83.2	4.6	23.1	14.5	4.8	132.1	0.1	--	362.6	38.8	699.4

TABLE A5. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 2, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	72.5	289.9	16.6	100.5	40.5	13.5	581.5	--	--	157.1	--	1,272.1

TABLE A6. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 3, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	32.9	280.9	8.4	25.9	22.6	7.6	285.3	--	--	--	--	663.6

TABLE A7. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 4, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	43.1	320.4	14.1	129.7	36.0	12.0	543.0	--	--	--	--	1,098.3

TABLE A8. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 5, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	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	55.7	563.4	12.9	201.8	48.1	16.0	432.1	--	--	--	--	1,330.0

TABLE A9. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 6, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	146.3	434.0	9.5	62.0	37.6	12.5	259.2	--	--	--	--	961.1

TABLE A10. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 7, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	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	191.3	158.8	28.9	111.7	44.4	14.8	540.9	123.4	543.6	--	389.0	2,146.8

TABLE A11. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 8, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	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	107.5	189.5	5.2	43.9	19.2	6.4	132.4	18.7	--	259.7	--	782.5

TABLE A12. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	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	12,621.7
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	773.5	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	1,396.1	3,370.9	50.3	740.8	90.2	706.9	2,177.4	5,684.1	1,199.0	533.8	574.5	8,789.7	732.2	228.3	543.6	500.4	134.3	27,452.5

TABLE A13. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 1, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	70.3	126.3	3.6	70.4	10.0	46.4	84.0	296.3	60.9	27.5	30.7	472.3	39.3	0.2	--	401.9	38.8	1,778.9

TABLE A14. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 2, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	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	--	1,108.0
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	01.5	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	04.9	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	175.5	428.5	7.9	124.5	14.6	112.6	291.4	874.8	182.0	81.9	92.0	1,423.5	113.6	--	--	172.5	--	4,095.3

TABLE A15. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 3, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	88.2	345.1	4.3	62.0	7.1	61.1	122.5	515.6	106.3	48.3	51.1	788.2	64.9	--	--	--	--	2,264.7

TABLE A16. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 4, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	142.4	467.0	7.0	102.3	11.6	102.1	326.9	831.7	173.3	77.6	86.0	1,330.6	107.0	--	--	--	--	3,765.5

TABLE A17. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUT MODEL, NORTH DAKOTA REGION 5, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	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	183.9	781.6	8.6	116.3	14.6	118.4	494.7	1,016.4	207.9	96.3	96.0	1,469.6	125.9	--	--	--	--	4,730.2

TABLE A18. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 6, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	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	243.7	580.2	6.5	84.2	11.0	85.8	274.1	744.6	151.2	70.9	69.1	1,052.5	91.8	--	--	--	--	3,466.2

TABLE A19. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 7, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	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	38.8	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	326.3	359.2	9.2	145.1	17.7	135.4	406.1	999.9	234.5	93.1	110.5	1,655.6	139.8	209.4	543.6	37.9	396.6	5,819.9

TABLE A20. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 8, MILLION DOLLARS (CURRENT DOLLARS), 1958-1990

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	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	0.15	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	0.17	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	168.7	284.2	4.7	74.7	10.7	59.7	178.9	440.2	90.0	40.7	42.6	646.3	56.3	18.8	--	285.2	0.3	2,402.0

TABLE A21. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES, NORTH DAKOTA, 1958-1990

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		
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	9,685,779	8,789,687	- 9.25
Absolute Average Difference			6.36
Mean = -2.35% (S.D. = 7.790883)			
Theil's U ₁ Coefficient = 0.044074			

TABLE A22. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES, REGION 1,
NORTH DAKOTA, 1958-1990

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		
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	--	472,256	--
Absolute Average Difference			10.82
Mean = -2.99% (S.D. = 13.65247)			
Theil's U ₁ Coefficient = 0.114195			

TABLE A23. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES, REGION 2,
NORTH DAKOTA, 1958-1990

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
-----\$000-----			
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	--	1,423,509	--
Absolute Average Difference			8.17
Mean = 4.38% (S.D. = 10.08036)			
Theil's U ₁ Coefficient = 0.076724			

TABLE A24. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES, REGION 3,
NORTH DAKOTA, 1958-1990

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		
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	--	788,180	--
Absolute Average Difference			21.26
Mean = 20.76% (S.D. = 11.44872)			
Theil's U ₁ Coefficient = 0.186475			

TABLE A25. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES, REGION 4,
NORTH DAKOTA, 1958-1990

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		
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	1,282,204	1,472,090	14.63
1989	1,420,447	1,259,673	-11.32
1990	--	1,330,587	--
Absolute Average Difference			8.54
Mean = 5.02% (S.D. = 10.9301)			
Theil's U ₁ Coefficient = 0.076211			

TABLE A26. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES, REGION 5,
NORTH DAKOTA, 1958-1990

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		
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	--	1,469,583	--
Absolute Average Difference			21.19
Mean = -20.91% (S.D. = 10.86766)			
Theil's U ₁ Coefficient = 0.246619			

TABLE A27. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES, REGION 6,
NORTH DAKOTA, 1958-1990

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		
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	--	1,052,475	--
Absolute Average Difference			8.71
Mean = 7.85% (S.D. = 7.976834)			
Theil's U ₁ Coefficient = 0.088226			

TABLE A28. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES, REGION 7,
NORTH DAKOTA, 1958-1990

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		
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	--	1,655,559	--
Absolute Average Difference			7.08
Mean = -6.90% (S.D. = 6.068925)			
Theil's U ₁ Coefficient = 0.097122			

TABLE A29. ESTIMATES OF PERSONAL INCOME AND DIFFERENCES IN ESTIMATES, REGION 8,
NORTH DAKOTA, 1958-1990

Year	Department of Commerce Estimate	I-O Analysis Estimate	Percent Difference
	-----\$000-----		
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	--	646,304	--
Absolute Average Difference			12.93
Mean = 10.94% (S.D. = 12.03661)			
Theil's U ₁ Coefficient = 0.138512			

TABLE A30. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA (CURRENT DOLLARS), 1958-1990

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	99,581	181,018	60,997	11,027	69,173	66,183	92,047	105,269	13,567	12,943	--	12,091	224,072	652,581	186,378	453,831

TABLE A31 . GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 1 (CURRENT DOLLARS), 1958-1990

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	2,080	--	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	69,808	--	178,673	28,716	95,726	88,328	131,687	132,011	18,523	16,978	--	21,054	10,450	--	341,729	692,893

TABLE A32. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 2 (CURRENT DOLLARS), 1958-1990

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	68,424	155,372	97,655	16,036	92,671	84,781	90,561	137,440	17,041	16,826	--	8,594	--	--	246,613	--
1990	85,572	183,349	114,663	18,851	106,736	90,701	104,105	158,398	19,253	18,339	--	9,977	--	--	276,018	--

TABLE A33. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 3 (CURRENT DOLLARS), 1958-1990

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	29,494	22,838	--	19,450	--	--	--	--
1990	83,133	154,036	181,915	24,292	165,238	56,992	182,900	169,334	32,064	23,972	--	21,625	--	--	--	--

TABLE A34. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 4 (CURRENT DOLLARS), 1958-1990

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	134,513	89,910	62,465	10,966	72,690	69,269	75,959	136,880	11,764	14,353	--	6,914	--	--	--	--

TABLE A35. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 5 (CURRENT DOLLARS), 1958-1990

	(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	House- holds	Govt	Coal Mining	Thermal-Elec Generation	Pet Exp/Ext	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	166,081	122,871	26,436	4,580	46,200	38,431	57,489	44,467	8,123	7,689	--	11,000	--	--	--	--

TABLE A36. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 6 (CURRENT DOLLARS), 1958-1990

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	16,492	13,513	--	18,263	--	--	--	--
1990	98,175	115,429	117,106	15,504	104,883	91,165	144,033	174,792	19,208	15,208	--	21,931	--	--	--	--

TABLE A37. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 7 (CURRENT DOLLARS), 1958-1990

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	9,816	--	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	--	15,84n	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	117,634	10,899	10,656	--	11,865	262,943	662,052	183,564	1,419,742
1990	80,688	--	53,497	11,772	48,125	91,205	89,882	126,686	11,701	10,995	--	12,963	271,241	652,581	190,211	1,652,575

TABLE A38. GROSS BUSINESS VOLUME TO EMPLOYMENT (PRODUCTIVITY) RATIOS, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 8 (CURRENT DOLLARS), 1958-1990

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	--	78,378	31,877	77,098	114,352	124,352	171,341	19,441	17,615	--	21,737	84,590	--	393,951	--
1990	90,386	--	87,488	35,601	83,466	116,671	131,115	181,066	20,322	17,995	--	23,343	92,960	--	415,752	--

TABLE A39. GROSS STATE PRODUCT BY INDUSTRY, NORTH DAKOTA (CURRENT DOLLARS), SELECTED YEARS 1963-1989

Item	1963	1967	1972	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
-----Million Dollars-----																
Farms	380	373	723	726	1,137	1,393	864	1,330	1,442	974	1,398	1,344	1,163	1,138	606	1,060
Ag. services, forestry & fisheries	5	8	14	29	34	36	33	36	43	49	49	44	40	57	56	57
Mining	67	61	62	220	316	534	1,088	1,871	1,567	1,166	1,218	1,049	537	499	505	503
Construction	103	105	207	424	560	627	643	635	753	944	685	540	512	544	518	515
Manufacturing	45	71	137	357	380	405	401	435	453	482	533	550	563	606	656	675
Durable goods	11	30	59	161	180	207	196	206	204	213	241	244	244	283	322	350
Nondurable goods	34	41	78	195	200	198	206	229	249	269	293	305	318	323	334	325
Transportation & public utilities	182	210	320	474	559	648	767	965	852	953	1,177	1,134	1,168	1,145	1,260	1,281
Wholesale trade	130	159	244	503	549	645	685	764	773	755	842	840	799	812	837	887
Retail trade	189	235	351	564	600	663	674	718	765	819	867	877	865	886	980	1,028
Finance, insurance, and real estate services	266	325	409	833	1,030	1,193	1,446	1,613	1,648	1,776	1,764	1,846	1,773	1,821	1,896	2,103
Federal civilian govt.	133	178	288	569	662	743	846	973	1,047	1,139	1,230	1,298	1,371	1,455	1,581	1,680
Federal military	-55	28	65	125	112	105	97	89	34	19	104	65	2	-8	-112	136
State and local govt.	56	84	143	200	208	215	231	262	287	317	337	354	353	368	379	393
State and local govt.	120	157	239	393	453	507	556	666	704	740	769	821	856	869	880	913
Total Gross State Product	1,621	1,992	3,201	5,418	6,601	7,715	8,333	10,357	10,369	10,133	10,972	10,762	10,001	10,193	10,042	11,231

SOURCE: U.S. Department of Commerce 1991.

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TABLE B1. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 1, MILLION DOLLARS (1990=BASE DOLLARS), 1958-1990

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) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	42.5	66.8	3.3	11.1	3.7	1.2	23.9	0.4	--	72.5	19.8	245.2
1959	39.5	58.0	4.4	9.3	4.0	1.2	25.8	0.4	--	83.3	18.9	244.8
1960	31.7	76.0	5.5	10.3	3.2	1.2	28.9	0.4	--	101.0	18.2	276.4
1961	39.2	41.2	4.3	9.8	3.9	1.2	29.8	0.8	--	104.0	18.1	252.3
1962	35.5	109.4	2.7	8.5	3.9	1.2	36.6	0.8	--	116.4	17.7	332.7
1963	38.3	137.3	3.0	9.1	4.6	1.5	37.2	0.4	--	124.1	17.1	372.6
1964	40.8	90.5	4.9	9.7	5.6	1.9	47.9	0.4	--	135.8	16.5	354.0
1965	48.3	97.3	5.1	9.5	6.6	2.2	40.2	--	--	137.5	16.8	363.5
1966	50.7	116.6	3.5	9.9	8.9	2.8	44.3	--	--	137.5	16.3	390.5
1967	50.9	97.1	3.8	10.7	10.3	3.4	41.3	--	--	115.0	15.8	348.3
1968	45.8	87.0	4.0	10.9	12.5	4.3	45.2	--	--	110.1	15.2	335.0
1969	43.3	125.4	4.7	16.9	13.2	4.4	65.8	--	--	88.4	14.7	376.8
1970	44.6	113.9	2.1	14.6	14.0	4.8	56.2	--	--	86.0	15.2	351.4
1971	50.8	96.4	2.0	15.3	14.7	4.8	65.2	--	--	88.7	16.2	354.1
1972	58.5	162.1	6.8	15.2	12.8	4.4	62.0	--	--	85.1	16.3	423.2
1973	69.0	296.5	0.8	20.6	13.4	4.4	65.9	--	--	85.5	17.5	573.6
1974	55.4	303.0	2.6	23.9	12.1	4.0	64.6	--	--	170.5	19.4	655.5
1975	52.0	184.2	2.0	22.1	13.4	4.6	67.2	--	--	156.3	19.5	521.3
1976	53.1	145.4	4.1	31.9	15.2	5.1	63.4	--	--	178.8	19.8	516.8
1977	51.4	98.4	5.3	26.3	15.4	5.1	70.0	--	--	190.5	20.0	482.4
1978	53.5	144.3	6.5	26.1	16.5	5.4	68.2	--	--	197.3	19.6	537.4
1979	68.7	118.0	4.0	28.9	13.5	4.5	185.7	--	--	247.5	25.1	695.9
1980	69.1	124.6	8.1	28.5	12.1	4.0	239.8	0.3	--	385.3	34.5	906.3
1981	43.2	145.5	5.2	28.4	12.2	4.0	307.6	0.1	--	717.3	54.8	1,318.3
1982	40.5	130.6	3.4	22.9	12.1	4.1	197.2	0.1	--	669.6	47.6	1,128.1
1983	43.9	138.4	4.5	22.5	13.6	4.5	150.4	0.1	--	724.1	42.6	1,144.6
1984	43.2	69.2	6.2	23.1	11.8	3.9	156.8	0.1	--	794.6	39.8	1,148.7
1985	40.3	60.8	5.5	22.8	12.4	4.1	132.3	0.4	--	752.7	35.8	1,067.1
1986	37.9	127.1	5.1	22.5	12.3	4.1	127.1	0.1	--	337.3	28.0	781.5
1987	43.2	112.2	4.2	22.6	12.7	4.2	122.7	0.1	--	402.9	29.4	754.2
1988	46.9	97.0	4.8	23.4	13.1	4.3	119.2	0.2	--	294.0	29.1	632.0
1989	33.8	67.6	3.7	23.6	13.5	4.5	127.0	0.1	--	332.7	33.0	639.5
1990	35.6	83.2	4.6	23.1	14.5	4.8	132.1	0.1	--	362.6	38.8	699.4

TABLE B2. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 2, MILLION DOLLARS (1990=BASE DOLLARS), 1958-1990

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) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	99.8	193.3	9.1	32.2	10.3	3.7	129.0	--	--	30.1	--	507.5
1959	92.2	201.7	13.3	29.8	11.3	3.6	117.1	--	--	50.3	--	519.3
1960	74.5	209.9	15.4	34.9	9.1	3.2	130.7	--	--	66.5	--	544.2
1961	91.4	91.1	11.4	36.5	10.6	3.5	153.5	--	--	82.0	--	480.0
1962	82.9	329.1	7.7	34.3	11.2	3.9	304.0	--	--	83.6	--	856.7
1963	85.0	337.6	8.0	40.2	12.9	4.2	264.4	--	--	81.9	--	834.2
1964	87.2	279.5	13.5	42.3	15.0	5.2	464.3	--	--	89.8	--	996.8
1965	99.5	286.0	13.5	41.3	18.7	6.2	259.7	--	--	92.9	--	817.8
1966	100.7	339.6	9.9	42.9	24.5	8.2	325.4	--	--	83.7	--	934.9
1967	102.9	225.8	10.0	46.5	28.9	9.6	236.8	--	--	74.0	--	734.5
1968	86.4	239.0	10.6	48.5	35.3	11.9	293.4	--	--	70.9	--	796.0
1969	81.5	300.3	6.6	73.0	36.7	12.2	321.6	--	--	62.7	--	894.6
1970	83.6	280.2	8.6	63.4	39.3	13.1	385.2	--	--	64.0	--	937.4
1971	100.7	260.0	14.2	66.1	40.8	13.6	372.6	--	--	69.2	--	937.2
1972	108.0	363.4	11.4	66.6	36.2	12.0	327.5	--	--	70.2	--	995.3
1973	126.6	801.3	18.0	89.8	37.6	12.6	377.6	--	--	65.9	--	1,529.4
1974	107.0	712.1	13.5	103.7	33.9	11.4	421.4	--	--	113.4	--	1,516.4
1975	101.6	447.8	11.7	95.6	37.5	12.6	644.3	--	--	100.8	--	1,451.7
1976	109.0	316.4	3.7	138.4	42.6	14.2	408.4	--	--	113.1	--	1,145.8
1977	105.6	256.6	22.2	114.2	41.1	14.4	414.6	--	--	99.2	--	1,067.9
1978	107.0	378.4	31.0	113.7	46.1	15.4	410.5	--	--	89.4	--	1,191.5
1979	125.0	296.5	25.6	125.9	37.9	12.7	477.2	--	--	103.8	--	1,204.6
1980	123.4	339.7	19.0	124.0	34.2	11.5	536.6	--	--	153.6	--	1,342.0
1981	88.0	441.5	18.2	123.3	34.4	11.6	603.0	--	--	270.0	--	1,590.0
1982	82.2	403.0	12.2	99.4	33.8	11.3	447.2	--	--	248.0	--	1,337.1
1983	89.1	409.3	16.7	97.6	38.3	12.8	488.9	--	--	223.3	--	1,376.0
1984	88.2	315.3	22.5	100.3	33.1	11.1	518.5	--	--	215.4	--	1,304.4
1985	84.0	399.9	20.0	99.1	34.6	11.4	508.6	--	--	184.6	--	1,342.2
1986	78.3	355.7	18.6	97.4	34.5	11.4	512.7	--	--	85.6	--	1,194.2
1987	89.3	240.2	15.1	98.1	35.6	11.8	505.2	--	--	101.0	--	1,096.3
1988	95.0	299.6	17.0	101.9	36.6	12.2	509.9	--	--	98.6	--	1,170.8
1989	66.4	217.8	13.5	102.8	38.0	12.7	553.4	--	--	125.6	--	1,130.2
1990	72.5	289.9	16.6	100.5	40.5	13.5	581.5	--	--	157.1	--	1,272.1

TABLE B3. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 3, MILLION DOLLARS (1990=BASE DOLLARS), 1958-1990

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) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	68.4	241.1	7.4	13.6	5.8	2.1	47.4	--	--	--	--	385.8
1959	64.4	234.3	10.9	11.3	6.4	2.0	53.5	--	--	--	--	382.8
1960	51.9	167.9	13.1	11.9	5.1	1.6	60.2	--	--	--	--	311.7
1961	62.8	184.1	9.4	11.4	5.9	2.0	60.4	--	--	--	--	336.0
1962	58.2	290.2	6.6	9.6	6.2	1.9	62.0	--	--	--	--	434.7
1963	58.0	284.9	6.4	10.2	7.2	2.3	67.1	--	--	--	--	436.1
1964	55.4	246.2	11.2	10.8	8.6	3.0	74.4	--	--	--	--	409.6
1965	62.5	244.0	11.3	10.6	10.2	3.3	75.7	--	--	--	--	417.6
1966	61.7	268.7	8.2	11.0	13.8	4.6	79.8	--	--	--	--	447.8
1967	61.6	268.2	8.3	11.7	16.2	5.5	81.2	--	--	--	--	452.7
1968	53.7	259.5	8.9	12.2	19.8	6.6	84.4	--	--	--	--	445.1
1969	49.8	253.9	2.8	18.8	20.4	6.9	106.0	--	--	--	--	458.6
1970	47.9	234.4	2.7	16.4	22.0	7.4	139.8	--	--	--	--	470.6
1971	49.9	241.3	12.2	17.0	23.0	7.7	136.4	--	--	--	--	487.5
1972	57.4	311.8	14.1	17.1	20.1	6.8	167.3	--	--	--	--	594.6
1973	66.7	569.4	16.0	23.2	21.1	6.9	150.8	--	--	--	--	854.1
1974	57.3	542.4	9.9	26.8	18.9	6.4	193.7	--	--	--	--	855.4
1975	53.7	469.7	11.1	24.5	21.0	6.9	210.9	--	--	--	--	797.8
1976	52.9	311.8	7.6	35.6	23.7	7.8	233.2	--	--	--	--	672.6
1977	48.2	270.2	4.7	29.4	23.9	8.0	222.0	--	--	--	--	606.4
1978	49.0	330.0	8.5	29.2	25.7	8.5	218.0	--	--	--	--	668.9
1979	58.2	381.4	5.7	32.4	21.2	7.0	200.9	--	--	--	--	706.8
1980	59.2	371.3	29.2	31.9	19.0	6.3	207.2	--	--	--	--	724.1
1981	41.9	414.8	9.2	31.7	19.2	6.4	194.2	--	--	--	--	717.4
1982	39.8	402.3	6.2	25.6	18.9	6.3	174.2	--	--	--	--	673.3
1983	42.1	378.5	8.5	25.1	21.4	7.1	230.1	--	--	--	--	712.8
1984	41.2	336.6	11.5	25.8	18.5	6.2	244.4	--	--	--	--	684.2
1985	39.7	392.6	10.1	25.5	19.2	6.4	253.3	--	--	--	--	746.8
1986	37.6	285.9	9.3	25.0	19.2	6.5	257.2	--	--	--	--	640.7
1987	42.9	299.7	7.6	25.2	19.9	6.6	254.6	--	--	--	--	656.5
1988	44.6	332.4	8.7	26.2	20.5	6.8	254.4	--	--	--	--	693.6
1989	33.1	251.9	6.8	26.4	21.2	7.1	274.7	--	--	--	--	621.2
1990	32.9	280.9	8.4	25.9	22.6	7.6	285.3	--	--	--	--	663.6

TABLE B4. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 4, MILLION DOLLARS (1990=BASE DOLLARS), 1958-1990

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) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	48.2	290.2	12.8	24.7	9.5	3.3	151.3	--	--	--	--	540.0
1959	45.9	311.6	18.5	26.2	10.1	3.2	142.5	--	--	--	--	558.0
1960	38.0	285.1	21.8	34.5	8.3	2.8	158.8	--	--	--	--	549.3
1961	43.6	301.0	15.7	37.7	9.4	3.1	182.1	--	--	--	--	592.6
1962	40.5	232.0	10.8	38.5	10.0	3.5	332.9	--	--	--	--	668.2
1963	39.8	296.3	11.0	51.6	11.4	3.8	295.9	--	--	--	--	709.8
1964	38.2	257.0	19.1	54.6	13.5	4.5	497.9	--	--	--	--	884.8
1965	41.7	419.2	19.0	53.4	16.5	5.5	295.2	--	--	--	--	850.5
1966	41.5	343.5	13.8	55.7	22.0	7.4	362.6	--	--	--	--	846.5
1967	38.6	361.8	14.1	59.9	25.8	8.6	275.0	--	--	--	--	783.8
1968	32.6	322.8	14.8	62.3	33.0	10.6	333.3	--	--	--	--	809.4
1969	32.0	336.1	35.4	94.4	32.6	11.0	295.9	--	--	--	--	837.4
1970	25.9	396.5	448.5	81.8	34.8	11.9	320.0	--	--	--	--	1,319.4
1971	28.9	332.6	80.8	85.3	36.3	12.2	328.0	--	--	--	--	904.1
1972	34.3	465.7	112.1	86.0	32.1	10.9	355.8	--	--	--	--	1,096.9
1973	39.6	788.2	64.9	116.1	33.5	11.1	407.7	--	--	--	--	1,461.1
1974	38.8	901.3	98.0	134.0	30.1	10.2	380.9	--	--	--	--	1,593.3
1975	32.9	596.9	53.3	123.3	33.4	11.3	425.7	--	--	--	--	1,276.8
1976	37.3	443.7	29.2	178.6	37.9	12.8	564.4	--	--	--	--	1,303.9
1977	33.5	431.1	15.0	147.5	38.3	12.8	371.4	--	--	--	--	1,049.6
1978	34.5	492.3	7.3	146.7	41.0	13.8	374.6	--	--	--	--	1,110.2
1979	40.6	501.1	8.5	162.6	33.8	11.4	369.4	--	--	--	--	1,127.4
1980	57.5	528.3	18.6	160.2	30.4	10.3	413.5	--	--	--	--	1,218.8
1981	29.8	539.9	15.5	159.4	30.6	10.3	375.1	--	--	--	--	1,160.6
1982	28.1	494.1	10.4	128.5	30.1	10.1	336.6	--	--	--	--	1,037.9
1983	29.6	648.2	14.2	126.0	34.0	11.4	444.6	--	--	--	--	1,308.0
1984	27.5	526.4	19.1	129.5	29.5	9.9	472.2	--	--	--	--	1,214.1
1985	27.8	531.6	17.1	127.9	30.7	10.3	489.3	--	--	--	--	1,234.7
1986	27.3	536.5	15.8	125.7	30.5	10.3	497.1	--	--	--	--	1,243.2
1987	31.2	526.6	12.8	126.8	31.7	10.6	491.2	--	--	--	--	1,230.9
1988	28.7	701.0	14.5	131.6	32.6	10.8	487.4	--	--	--	--	1,406.6
1989	44.1	331.3	11.5	132.7	33.8	11.2	523.7	--	--	--	--	1,088.3
1990	43.1	320.4	14.1	129.7	36.0	12.0	543.0	--	--	--	--	1,098.3

TABLE B5. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 5, MILLION DOLLARS (1990=BASE DOLLARS), 1958-1990

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) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	123.7	306.3	15.3	82.4	12.4	4.1	232.1	--	--	--	--	776.3
1959	124.8	300.3	22.1	72.1	13.3	4.4	204.5	--	--	--	--	741.5
1960	103.8	275.2	25.7	80.8	11.1	3.6	134.7	--	--	--	--	634.9
1961	120.9	354.0	18.8	80.8	12.6	4.3	268.8	--	--	--	--	860.2
1962	114.5	180.7	12.7	72.1	13.1	4.2	320.2	--	--	--	--	717.5
1963	111.5	332.3	12.9	80.0	15.2	4.9	324.0	--	--	--	--	880.8
1964	106.6	238.3	22.8	84.5	18.0	6.0	388.0	--	--	--	--	864.2
1965	119.2	330.7	22.7	82.7	21.9	7.3	342.0	--	--	--	--	926.5
1966	125.5	360.2	16.7	86.1	29.1	9.9	372.6	--	--	--	--	1,000.0
1967	123.9	340.4	16.9	92.9	34.8	11.4	354.9	--	--	--	--	975.2
1968	106.5	308.9	17.8	96.6	42.2	14.2	373.2	--	--	--	--	959.4
1969	103.8	326.0	25.4	146.7	43.6	14.4	331.0	--	--	--	--	990.9
1970	98.8	335.2	34.2	127.3	46.7	15.5	299.2	--	--	--	--	956.9
1971	102.1	342.2	34.0	132.7	48.8	16.2	307.6	--	--	--	--	983.6
1972	120.2	478.5	29.7	133.6	43.0	14.4	320.5	--	--	--	--	1,139.9
1973	146.7	922.5	46.8	180.7	44.5	14.9	294.0	--	--	--	--	1,650.1
1974	146.3	930.4	29.1	208.3	40.2	13.5	282.4	--	--	--	--	1,650.2
1975	119.2	523.0	60.7	192.0	44.6	15.0	308.0	--	--	--	--	1,262.5
1976	119.5	471.5	6.4	277.9	50.5	16.9	317.4	--	--	--	--	1,260.1
1977	101.9	579.6	13.6	229.4	51.2	17.1	320.2	--	--	--	--	1,313.0
1978	105.3	648.6	18.7	228.3	54.8	18.3	353.2	--	--	--	--	1,427.2
1979	112.0	631.6	17.2	252.9	45.1	15.0	324.3	--	--	--	--	1,398.1
1980	113.2	643.2	25.2	249.2	40.5	13.7	348.2	--	--	--	--	1,433.2
1981	80.0	654.8	14.2	247.8	40.9	13.6	299.7	--	--	--	--	1,351.0
1982	75.7	574.0	9.5	199.8	40.2	13.4	268.9	--	--	--	--	1,181.5
1983	74.2	700.2	13.0	196.0	45.4	15.2	355.1	--	--	--	--	1,399.1
1984	75.2	603.6	17.5	201.4	39.5	13.2	377.3	--	--	--	--	1,327.7
1985	72.4	685.4	15.6	199.1	41.0	13.7	390.9	--	--	--	--	1,418.1
1986	71.9	557.1	14.4	195.7	40.9	13.6	397.1	--	--	--	--	1,290.7
1987	82.0	580.5	11.7	197.1	42.3	14.2	391.9	--	--	--	--	1,319.7
1988	73.9	705.4	13.2	204.6	43.6	14.5	385.9	--	--	--	--	1,441.1
1989	54.0	513.4	10.5	206.4	45.2	15.1	414.8	--	--	--	--	1,259.4
1990	55.7	563.4	12.9	201.8	48.1	16.0	432.1	--	--	--	--	1,330.0

TABLE B6. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 6, MILLION DOLLARS (1990=BASE DOLLARS), 1958-1990

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) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	188.8	342.5	9.9	35.0	9.9	3.3	61.4	--	--	--	--	650.8
1959	182.8	260.5	14.1	29.0	10.5	3.6	69.6	--	--	--	--	570.1
1960	145.7	269.7	16.6	30.9	8.7	2.8	78.0	--	--	--	--	552.4
1961	174.3	242.9	12.2	28.6	9.8	3.1	78.1	--	--	--	--	549.0
1962	164.2	321.0	8.1	23.9	10.4	3.5	81.3	--	--	--	--	612.4
1963	169.2	299.7	8.3	24.7	11.8	3.8	87.6	--	--	--	--	605.1
1964	172.5	268.2	14.6	25.8	14.2	4.9	98.4	--	--	--	--	598.6
1965	193.5	299.6	14.6	25.2	17.2	5.9	98.8	--	--	--	--	654.8
1966	203.8	330.7	10.6	26.6	22.7	7.8	104.2	--	--	--	--	706.4
1967	204.1	306.7	11.0	28.6	26.9	9.0	105.3	--	--	--	--	691.6
1968	182.3	343.9	11.5	29.7	33.0	10.9	110.8	--	--	--	--	722.1
1969	172.1	345.1	8.5	45.1	33.9	11.3	139.8	--	--	--	--	755.8
1970	167.5	320.9	25.9	39.3	36.3	12.2	152.3	--	--	--	--	754.4
1971	172.1	334.8	5.4	40.8	38.0	12.8	164.7	--	--	--	--	768.6
1972	205.9	431.2	7.3	41.1	33.5	11.2	160.2	--	--	--	--	890.4
1973	245.0	569.6	5.9	55.6	34.7	11.8	168.6	--	--	--	--	1,091.2
1974	205.7	763.7	3.6	64.2	31.3	10.4	161.2	--	--	--	--	1,240.1
1975	199.2	602.3	8.0	59.0	34.9	11.5	168.4	--	--	--	--	1,083.3
1976	210.1	380.8	13.8	85.5	39.5	13.2	175.3	--	--	--	--	918.2
1977	192.6	398.2	8.2	70.4	39.9	13.2	184.8	--	--	--	--	907.3
1978	200.2	519.9	9.8	70.2	42.8	14.1	193.5	--	--	--	--	1,050.5
1979	243.2	534.8	12.7	77.7	35.3	11.7	180.2	--	--	--	--	1,095.6
1980	211.8	427.8	10.4	76.6	31.8	10.4	200.6	--	--	--	--	969.4
1981	177.1	623.7	10.3	76.1	31.9	10.6	167.7	--	--	--	--	1,097.4
1982	170.8	583.8	7.0	61.4	31.4	10.4	150.6	--	--	--	--	1,015.4
1983	176.9	559.6	9.6	60.3	35.5	11.8	198.8	--	--	--	--	1,052.5
1984	174.9	543.2	12.9	61.9	30.8	10.2	211.1	--	--	--	--	1,045.0
1985	173.0	521.2	11.4	61.2	32.1	10.7	218.9	--	--	--	--	1,028.5
1986	163.7	433.0	10.6	60.2	31.9	10.6	222.3	--	--	--	--	932.3
1987	186.6	422.3	8.6	60.6	33.1	11.1	221.9	--	--	--	--	944.2
1988	188.1	403.3	9.8	62.9	34.0	11.4	224.2	--	--	--	--	933.7
1989	144.9	326.8	7.7	63.4	35.3	11.8	245.3	--	--	--	--	835.2
1990	146.3	434.0	9.5	62.0	37.6	12.5	259.2	--	--	--	--	961.1

TABLE B7. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 7, MILLION DOLLARS (1990=BASE DOLLARS), 1958-1990

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) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	223.8	206.9	14.0	48.2	11.5	3.7	100.2	2.5	--	--	159.9	770.7
1959	214.6	124.8	20.5	41.5	12.1	4.0	108.7	2.0	--	--	153.8	682.0
1960	164.8	161.2	23.8	45.9	9.9	3.2	121.6	2.4	--	--	146.9	679.7
1961	206.0	55.3	17.7	45.5	11.4	3.9	126.0	3.1	--	--	146.8	615.7
1962	182.7	245.5	11.6	40.5	12.3	4.2	155.3	3.5	--	--	143.4	799.0
1963	192.3	208.3	12.1	44.4	14.0	4.6	156.7	3.0	--	--	140.7	776.1
1964	199.0	196.4	21.0	47.1	16.5	5.6	203.9	4.1	--	--	141.8	835.4
1965	227.5	222.0	20.8	46.1	20.1	6.6	169.7	4.8	--	--	146.3	863.9
1966	253.8	235.7	15.2	47.9	26.9	8.9	188.2	4.3	15.6	--	148.9	945.4
1967	253.0	188.0	15.5	51.6	31.7	10.7	174.5	6.2	28.9	--	151.1	911.2
1968	237.4	201.1	16.5	53.7	38.6	12.9	190.9	6.9	40.6	--	145.7	944.3
1969	227.3	210.0	20.1	81.2	40.1	13.5	242.3	6.9	36.7	--	140.4	1,018.5
1970	226.7	188.6	14.0	70.5	43.1	14.3	249.3	8.6	41.0	--	135.9	992.0
1971	235.6	182.3	11.9	73.4	44.8	15.0	275.9	9.1	49.6	--	134.1	1,031.7
1972	281.3	263.1	13.1	74.0	39.7	13.3	307.7	7.9	58.2	--	136.6	1,194.9
1973	339.0	382.0	5.4	100.1	41.2	13.6	335.9	9.5	49.7	--	146.2	1,422.6
1974	283.4	371.4	10.4	115.3	36.9	12.3	334.8	10.4	53.0	--	159.3	1,387.2
1975	263.8	349.6	29.7	106.2	41.2	13.7	366.7	11.1	44.6	--	160.8	1,387.4
1976	287.1	218.5	22.5	153.9	46.8	15.4	358.0	16.9	79.5	--	165.6	1,364.2
1977	260.1	143.0	27.2	126.8	47.3	15.6	427.0	19.1	90.1	--	169.3	1,325.5
1978	266.2	252.9	24.8	126.4	50.6	16.7	390.6	23.8	118.6	--	169.5	1,440.1
1979	327.9	224.3	52.5	140.1	41.6	13.9	464.6	32.6	153.1	--	240.3	1,690.9
1980	374.3	142.9	51.6	137.9	37.4	12.4	508.2	46.8	184.3	--	351.1	1,846.9
1981	240.3	294.7	31.5	137.1	37.7	12.5	552.1	51.1	196.0	--	566.0	2,119.0
1982	239.6	284.6	21.2	110.6	37.2	12.2	421.4	54.1	212.8	--	491.3	1,885.0
1983	252.5	282.4	29.1	108.4	42.0	14.0	469.6	76.2	248.2	--	439.7	1,962.1
1984	255.9	255.2	39.1	111.6	36.4	12.1	518.5	92.0	275.7	--	411.0	2,007.5
1985	250.2	303.3	34.8	110.1	37.9	12.6	493.9	133.1	308.4	--	370.2	2,054.5
1986	234.4	243.2	32.2	108.3	37.8	12.6	495.6	126.2	301.1	--	289.4	1,880.8
1987	267.3	207.7	26.3	109.1	39.1	13.1	486.9	115.7	557.0	--	302.9	2,125.1
1988	288.9	102.9	29.6	113.3	40.2	13.4	484.1	117.3	617.7	--	299.8	2,107.2
1989	187.4	116.3	23.4	114.2	41.8	14.0	519.8	132.4	557.7	--	336.5	2,043.5
1990	191.3	158.8	28.9	111.7	44.4	14.8	540.9	123.4	543.6	--	389.0	2,146.8

TABLE B8. SALES FOR FINAL DEMAND, BY ECONOMIC SECTOR, NORTH DAKOTA REGION 8, MILLION DOLLARS (1990=BASE DOLLARS), 1958-1990

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) Thermal- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	112.9	167.8	4.1	10.7	4.9	1.6	25.6	1.2	--	3.3	--	332.1
1959	110.7	98.6	6.0	10.5	5.2	1.6	29.0	1.2	--	2.8	--	265.6
1960	84.4	103.0	7.1	12.7	4.4	1.6	32.5	1.2	--	4.8	--	251.7
1961	101.3	71.4	5.1	14.1	5.1	1.6	32.6	1.2	--	9.0	--	241.4
1962	89.8	129.5	3.5	14.3	5.4	1.9	33.5	1.5	--	13.9	--	293.3
1963	93.7	163.9	3.4	17.5	6.1	1.9	36.0	1.1	--	15.6	--	339.2
1964	98.4	111.9	6.0	18.3	7.1	2.2	40.0	1.1	--	15.0	--	300.0
1965	113.0	129.5	6.2	17.9	8.8	2.9	41.0	0.7	--	19.8	--	339.8
1966	124.8	165.2	4.6	18.8	11.7	3.9	42.9	0.7	--	29.1	--	401.7
1967	131.8	168.7	4.5	13.8	13.8	4.5	41.7	0.7	--	37.9	--	417.4
1968	126.3	118.7	4.9	21.1	16.8	5.6	45.8	1.0	--	55.7	--	395.9
1969	121.0	115.0	6.9	32.0	17.2	5.6	69.9	0.6	--	45.5	--	413.7
1970	115.7	126.1	5.9	27.7	18.4	6.2	87.2	0.9	--	50.3	--	438.4
1971	123.9	120.5	11.6	28.9	19.3	6.5	65.5	0.9	--	41.7	--	418.8
1972	158.3	176.6	3.8	29.1	17.1	5.7	65.0	1.1	--	40.8	--	497.5
1973	192.3	292.4	1.0	39.4	17.8	5.9	70.0	1.0	--	46.6	--	666.4
1974	167.9	381.2	4.3	45.5	16.1	5.4	69.1	1.2	--	89.0	--	779.7
1975	158.9	198.5	3.9	41.8	17.8	5.9	77.4	4.3	--	97.7	--	606.2
1976	128.5	171.8	5.1	60.6	20.2	6.8	77.0	16.1	--	114.5	--	600.6
1977	146.9	115.8	4.5	50.0	20.4	6.8	84.6	16.3	--	129.2	--	574.5
1978	144.3	162.3	12.7	49.7	21.8	7.3	90.8	16.1	--	145.4	--	650.4
1979	184.5	141.2	4.2	55.0	18.1	6.0	107.5	21.2	--	268.8	--	806.5
1980	190.6	63.8	3.8	54.3	16.3	5.4	135.2	27.0	--	575.9	--	1,072.3
1981	126.7	141.6	5.7	54.0	16.3	5.4	140.5	24.6	--	1,239.3	--	1,754.1
1982	117.4	157.1	3.8	43.5	16.0	5.4	103.5	21.7	--	1,078.3	--	1,696.7
1983	129.3	178.2	5.2	42.7	18.1	6.1	109.7	20.6	--	943.9	--	1,453.8
1984	134.7	173.2	7.1	43.9	15.7	5.2	116.8	25.2	--	793.8	--	1,315.6
1985	136.0	155.0	6.3	43.4	16.4	5.4	113.4	27.9	--	654.8	--	1,158.6
1986	127.8	139.2	5.8	42.6	16.2	5.4	113.3	20.6	--	287.4	--	748.3
1987	145.7	133.8	4.7	42.9	16.9	5.6	111.8	18.4	--	304.9	--	784.7
1988	155.6	57.8	5.3	44.6	17.3	5.7	113.7	10.8	--	208.9	--	619.7
1989	104.7	195.2	4.3	45.0	18.0	6.0	125.4	18.4	--	220.7	--	737.7
1990	107.5	189.5	5.2	43.9	19.2	6.4	132.4	18.7	--	259.7	--	782.5

TABLE B9. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA, MILLION DOLLARS (1990=BASE DOLLARS), 1958-1990

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- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	1,348.7	2,531.4	28.7	385.7	47.8	350.9	1,299.4	2,991.8	622.4	263.5	278.3	4,214.3	377.8	4.5	—	69.2	54.1	14,868.5
1959	1,286.3	2,254.4	27.8	400.2	45.0	328.2	1,195.5	2,777.0	576.5	246.5	260.0	3,939.0	351.2	4.0	—	91.2	52.0	13,834.8
1960	1,070.9	2,158.6	26.8	406.9	42.4	310.5	1,141.3	2,621.7	546.0	230.6	246.0	3,732.7	331.7	4.0	—	104.1	49.6	13,023.8
1961	1,242.9	1,996.5	26.7	384.3	44.2	326.5	1,204.1	2,699.5	564.1	238.7	261.0	3,969.7	346.1	5.1	—	131.5	49.6	13,490.5
1962	1,216.7	2,505.3	30.7	421.4	51.9	400.1	1,218.1	3,327.5	697.9	292.2	324.5	4,954.9	426.2	5.8	—	136.5	48.3	16,058.0
1963	1,261.9	2,778.6	32.4	439.3	54.8	418.1	1,325.6	3,516.3	734.3	310.3	337.0	5,136.0	446.8	4.9	—	136.4	47.5	16,980.2
1964	1,288.7	2,402.4	34.7	513.2	57.0	451.6	1,324.7	3,681.5	773.3	326.6	371.1	5,691.0	476.3	5.6	—	145.8	47.6	17,591.1
1965	1,412.5	2,799.8	35.2	505.4	58.2	439.8	1,410.4	3,696.4	765.4	334.4	353.0	5,377.3	467.3	5.5	—	153.1	49.1	17,862.8
1966	1,510.5	2,980.8	37.0	509.1	62.9	480.2	1,495.6	4,044.7	833.6	373.0	386.5	5,892.9	509.5	7.1	15.6	156.9	49.8	19,345.7
1967	1,492.8	2,767.4	34.7	478.1	59.3	445.8	1,489.3	3,781.8	771.4	358.4	355.8	5,414.8	471.8	11.8	28.9	147.8	50.7	18,160.6
1968	1,390.9	2,665.9	34.9	491.0	59.8	454.9	1,465.6	3,854.6	780.6	374.8	364.2	5,553.9	478.5	14.4	40.6	164.8	49.0	18,238.4
1969	1,392.7	2,908.0	37.6	536.7	63.5	485.6	1,768.9	4,122.1	836.1	399.3	388.7	5,927.7	511.6	13.3	36.7	129.2	47.2	19,604.9
1970	1,378.9	2,848.5	50.7	995.1	68.1	517.8	1,652.9	4,344.7	879.6	419.4	412.5	6,297.7	539.3	16.0	41.0	136.8	45.8	20,644.8
1971	1,430.8	2,784.6	39.8	609.0	64.9	499.0	1,697.2	4,211.3	851.5	413.1	400.5	6,114.5	522.8	17.8	49.6	140.3	45.8	19,892.5
1972	1,683.4	3,661.1	47.1	710.4	76.1	580.4	1,915.7	4,935.3	1,009.3	465.4	464.5	7,076.7	615.0	18.2	58.2	141.8	46.4	23,505.0
1973	2,116.3	5,999.6	62.7	860.3	104.2	785.7	2,635.6	6,852.6	1,406.5	628.1	623.2	9,458.8	846.1	18.5	49.7	149.8	49.9	32,647.6
1974	1,961.6	6,308.2	64.8	902.5	107.9	808.9	2,756.7	7,042.5	1,450.8	638.8	640.0	9,717.4	870.5	20.0	53.0	242.8	54.2	33,640.6
1975	1,762.0	4,575.1	55.7	814.2	92.5	709.8	2,380.2	6,011.1	1,237.0	557.1	569.5	8,690.7	752.2	22.5	44.6	246.1	54.9	28,575.2
1976	1,765.2	3,778.6	48.8	670.1	85.9	651.8	2,761.6	5,440.0	1,115.3	517.9	521.1	7,952.5	683.2	45.7	79.5	275.1	57.0	26,449.3
1977	1,645.0	3,462.4	45.8	641.2	80.1	609.8	2,406.0	5,094.0	1,041.0	489.6	488.1	7,450.4	638.1	49.7	90.1	266.1	58.3	24,555.7
1978	1,720.9	4,164.0	51.0	714.9	88.2	669.1	2,517.2	5,669.5	1,157.3	542.7	533.3	8,125.6	704.7	58.7	118.6	263.7	57.7	27,157.1
1979	1,983.8	4,195.5	54.6	770.9	95.1	712.7	2,775.3	5,905.4	1,223.3	548.2	568.8	8,669.9	747.5	78.1	153.1	401.8	80.9	28,964.9
1980	2,038.6	4,008.7	57.8	861.9	102.8	749.9	2,763.3	6,041.1	1,262.2	551.9	596.1	9,100.0	775.4	103.5	184.3	788.4	117.1	30,103.0
1981	1,650.5	4,536.4	61.0	919.4	118.3	809.3	2,650.5	6,440.0	1,343.7	586.1	628.7	9,603.9	822.6	107.4	196.0	1,642.0	186.8	32,302.6
1982	1,520.1	4,151.7	52.9	774.0	103.2	703.0	2,281.4	5,666.1	1,176.4	521.9	543.6	8,283.4	717.7	109.9	212.8	1,371.4	162.8	28,352.3
1983	1,617.0	4,461.6	57.3	843.7	108.2	764.2	2,345.4	6,203.6	1,288.4	573.4	598.4	9,128.1	785.4	136.5	248.2	1,207.8	146.8	30,514.0
1984	1,595.7	3,963.4	55.6	844.5	102.6	737.7	2,311.4	5,904.9	1,236.8	539.6	583.2	8,909.5	756.8	161.2	275.7	1,077.3	138.1	29,194.0
1985	1,591.2	4,200.7	56.1	830.6	102.3	750.8	2,327.5	6,076.3	1,271.5	556.3	596.0	9,096.1	775.4	210.4	308.4	901.0	125.9	29,776.5
1986	1,499.7	3,766.3	50.9	739.1	89.5	693.1	2,216.7	5,659.7	1,185.0	522.0	560.1	8,558.2	723.1	194.6	301.1	430.5	99.3	27,288.9
1987	1,625.0	3,651.0	50.7	723.4	90.9	697.3	2,281.3	5,651.5	1,195.1	523.6	562.1	8,571.4	727.0	222.5	557.0	480.8	106.1	27,716.7
1988	1,683.3	3,874.5	52.3	744.2	92.4	714.6	2,377.3	5,836.3	1,235.3	540.7	576.7	8,785.6	749.1	226.1	617.7	377.8	105.7	28,589.6
1989	1,341.9	3,042.4	46.4	674.3	83.7	658.4	2,140.0	5,272.3	1,115.3	495.9	535.7	8,192.6	681.5	239.3	557.7	435.9	117.4	25,630.7
1990	1,392.4	3,369.5	50.0	735.9	89.7	701.2	2,175.2	5,643.9	1,189.9	530.5	569.2	8,705.9	726.4	228.3	543.6	500.4	134.3	27,286.3

TABLE B10. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 1, MILLION DOLLARS (1990-BASE DOLLARS), 1958-1990

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- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	61.9	98.2	1.5	23.5	3.3	17.3	56.5	129.9	26.8	11.5	12.2	184.2	16.7	0.4	--	81.5	19.8	745.2
1959	57.7	86.4	1.5	25.1	3.3	17.0	50.4	123.8	25.5	10.9	11.8	178.3	16.0	0.4	--	93.3	18.9	720.3
1960	50.3	103.8	1.6	29.4	3.8	19.1	50.9	138.5	28.7	12.2	13.1	199.0	17.9	0.4	--	112.6	18.2	799.5
1961	56.7	68.5	1.5	26.4	3.5	17.1	48.8	116.9	24.2	10.3	11.5	175.1	15.4	0.8	--	115.9	18.1	710.7
1962	57.9	140.9	1.9	31.8	4.5	23.6	55.8	175.6	36.4	15.2	16.5	249.5	22.5	0.8	--	129.5	17.7	980.1
1963	63.7	172.9	2.2	35.5	5.0	26.8	63.0	203.5	42.0	17.8	18.7	283.5	25.8	0.4	--	137.9	17.1	1,115.8
1964	64.3	123.6	2.1	36.4	4.9	25.0	58.6	179.9	37.1	16.1	17.3	263.7	23.2	0.4	--	150.7	16.5	1,019.8
1965	73.5	133.7	2.2	37.2	5.0	25.6	63.4	186.5	38.3	16.8	17.6	267.0	23.9	0.0	--	152.6	16.8	1,060.1
1966	78.4	156.2	2.3	37.7	5.3	28.0	68.8	209.7	42.7	19.2	19.5	295.1	26.5	0.0	--	152.5	16.3	1,158.2
1967	76.9	135.3	2.1	33.8	4.7	25.2	66.9	190.3	38.3	18.1	17.6	266.4	23.9	0.0	--	127.8	15.8	1,043.1
1968	70.4	122.5	2.0	32.7	4.5	24.2	63.0	183.9	36.6	18.3	17.0	257.6	22.8	0.0	--	122.4	15.2	993.1
1969	72.6	167.8	2.3	36.1	4.8	28.8	78.9	229.5	46.1	22.1	21.2	322.5	28.4	0.0	--	98.5	14.7	1,174.3
1970	72.2	154.0	2.1	31.3	4.5	26.6	73.3	212.3	42.3	21.1	19.4	294.4	26.1	0.0	--	95.9	15.2	1,090.7
1971	79.1	138.1	2.1	31.5	4.6	26.9	75.7	211.0	42.0	20.8	19.7	299.7	26.2	0.0	--	98.9	16.2	1,092.5
1972	93.2	212.7	2.7	41.5	5.4	32.7	90.4	266.1	53.8	25.2	24.2	366.8	32.9	0.0	--	95.0	16.3	1,358.9
1973	117.4	367.1	3.6	47.4	7.1	45.5	127.5	387.4	78.9	35.4	34.0	514.4	47.4	0.0	--	95.6	17.5	1,926.2
1974	103.4	371.5	3.9	58.6	8.5	49.2	127.3	398.7	81.4	35.9	35.4	534.7	49.2	0.1	--	189.1	19.4	2,066.3
1975	89.8	239.3	3.0	46.9	6.9	38.5	103.1	299.7	60.7	28.1	27.4	415.3	37.3	0.0	--	173.5	19.5	1,589.0
1976	90.3	203.8	3.0	49.0	7.0	37.1	114.7	279.6	56.3	26.7	25.7	390.4	34.9	0.1	--	198.2	19.8	1,536.6
1977	84.3	148.5	2.8	48.0	6.7	34.0	96.8	244.6	49.1	23.7	23.2	353.8	30.9	0.1	--	211.1	20.0	1,377.6
1978	90.5	199.4	3.1	53.8	7.4	38.3	105.2	285.2	57.2	27.3	26.4	400.8	35.6	0.1	--	218.5	19.6	1,568.4
1979	115.7	181.7	3.9	66.6	9.3	52.3	119.7	368.0	76.8	33.3	38.3	589.1	48.7	0.1	--	274.2	25.1	2,002.8
1980	122.5	191.2	5.0	92.2	12.4	65.9	123.9	439.2	92.6	38.5	47.1	726.3	59.2	0.4	--	426.4	34.5	2,477.3
1981	102.6	207.6	6.7	133.5	19.0	89.3	118.3	549.1	116.4	47.2	60.2	930.8	75.3	0.3	--	792.9	54.8	3,304.0
1982	88.9	183.4	5.7	114.4	16.7	73.2	99.7	439.6	92.2	38.4	46.9	720.9	59.8	0.3	--	739.8	47.6	2,767.5
1983	91.4	192.2	5.8	118.4	17.4	72.1	100.8	425.6	88.3	37.5	44.2	677.6	57.4	0.3	--	799.2	42.6	2,770.8
1984	86.7	117.3	5.7	123.2	17.9	70.5	91.2	384.9	80.5	33.5	41.8	642.8	53.4	0.3	--	876.3	39.8	2,665.8
1985	80.2	105.8	5.3	114.5	16.8	64.7	86.3	350.4	72.8	30.9	37.8	579.8	48.4	0.6	--	830.0	35.8	2,460.1
1986	75.4	174.4	3.8	70.9	9.9	48.2	90.8	321.5	66.4	29.1	32.5	498.7	42.2	0.2	--	373.1	28.0	1,865.1
1987	81.4	160.5	4.0	76.3	11.0	50.3	92.0	322.2	66.5	29.2	32.9	503.9	42.7	0.2	--	445.2	29.4	1,947.7
1988	82.9	145.2	3.4	63.3	8.9	43.6	91.9	291.1	59.9	26.8	29.6	454.1	38.3	0.3	--	325.6	29.1	1,694.0
1989	66.0	108.5	3.3	64.1	9.2	42.7	80.7	271.3	55.8	25.3	28.4	436.6	36.1	0.2	--	368.5	33.0	1,629.7
1990	70.3	126.3	3.6	70.4	10.0	46.4	84.0	296.3	60.9	27.5	30.7	472.3	39.3	0.2	--	401.9	38.8	1,778.9

TABLE B11. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 2, MILLION DOLLARS (1990=BASE DOLLARS), 1958-1990

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- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	152.1	275.4	3.5	49.8	6.1	44.5	150.8	367.5	76.5	33.1	35.4	538.3	46.9	--	--	33.1	--	1,813.0
1959	142.9	279.9	3.7	55.4	6.3	44.4	143.4	365.3	75.6	32.7	34.7	527.5	46.2	--	--	55.2	--	1,813.2
1960	124.2	285.6	3.8	60.3	6.7	46.0	144.2	373.6	77.9	33.2	35.9	547.3	47.6	--	--	73.0	--	1,859.3
1961	137.5	164.3	3.2	51.9	6.1	40.8	138.6	310.1	65.0	27.9	32.0	490.4	40.8	--	--	90.0	--	1,598.6
1962	155.3	423.4	5.5	79.9	10.0	75.6	174.5	608.1	128.4	53.0	61.3	941.7	78.7	--	--	91.8	--	2,887.2
1963	157.1	436.4	5.4	77.8	9.8	72.8	185.7	592.7	124.4	52.0	58.4	895.8	76.0	--	--	89.9	--	2,834.2
1964	169.7	380.7	6.4	98.3	11.3	90.4	189.9	704.0	149.9	61.7	75.1	1,161.5	93.1	--	--	98.6	--	3,290.6
1965	171.5	386.7	5.4	81.7	9.8	70.9	188.0	570.7	118.7	51.5	56.5	865.4	73.0	--	--	102.0	--	2,751.8
1966	182.1	448.6	6.0	87.5	10.9	82.3	203.0	670.2	139.1	61.3	66.5	1,020.2	85.5	--	--	91.9	--	3,155.1
1967	171.0	325.2	4.8	70.1	8.8	63.9	188.6	520.0	105.9	49.9	50.8	777.8	65.5	--	--	81.3	--	2,483.6
1968	156.9	336.2	5.1	75.8	9.3	70.0	187.4	571.3	116.0	55.9	56.4	866.3	71.8	--	--	77.9	--	2,656.3
1969	162.2	417.8	5.6	79.3	10.3	79.0	238.2	652.4	132.9	62.9	63.7	979.1	81.8	--	--	68.9	--	3,034.1
1970	166.0	392.3	5.9	85.4	10.6	83.9	222.3	683.8	139.8	66.1	68.6	1,056.4	86.5	--	--	70.3	--	3,137.9
1971	185.2	378.5	6.0	90.6	10.7	83.4	233.3	677.1	138.0	65.8	67.8	1,043.4	85.7	--	--	76.0	--	3,141.5
1972	198.5	493.2	6.5	92.3	11.5	87.5	252.8	725.5	148.3	68.8	70.3	1,076.7	91.0	--	--	77.1	--	3,400.0
1973	263.0	995.3	10.2	140.8	17.5	133.2	376.7	1,150.1	236.6	104.8	106.1	1,618.0	142.3	--	--	72.4	--	5,367.0
1974	238.2	900.4	9.8	137.7	17.6	131.4	377.3	1,106.5	229.0	100.1	104.7	1,600.6	138.6	--	--	124.5	--	5,216.4
1975	224.8	610.4	9.1	132.8	16.3	131.3	326.8	1,050.9	220.0	95.9	108.6	1,677.0	136.0	--	--	110.7	--	4,850.6
1976	216.3	491.4	7.0	97.5	13.5	100.0	374.8	806.0	165.3	77.0	79.9	1,227.7	102.3	--	--	124.2	--	3,882.9
1977	203.7	409.4	7.0	109.4	12.4	93.8	321.5	748.0	153.6	72.4	75.6	1,163.4	95.5	--	--	108.9	--	3,574.6
1978	215.0	542.7	8.0	127.1	13.8	104.1	341.2	853.3	174.2	81.8	83.4	1,280.5	107.3	--	--	98.2	--	4,030.6
1979	236.5	469.8	8.0	124.2	14.0	106.5	362.0	845.4	175.4	78.9	86.4	1,329.6	109.0	--	--	114.0	--	4,059.7
1980	241.7	516.8	8.6	131.3	15.7	117.9	367.3	923.6	193.2	84.4	95.4	1,469.9	120.0	--	--	168.7	--	4,454.5
1981	213.0	616.0	9.8	155.4	19.0	136.0	366.1	1,051.7	220.4	95.1	108.3	1,670.5	136.6	0.1	--	296.5	--	5,094.5
1982	187.4	551.8	8.2	127.5	16.3	112.5	308.1	878.3	182.3	80.7	88.1	1,355.5	112.7	0.1	--	272.3	--	4,281.8
1983	198.9	561.4	8.6	134.3	16.5	117.3	311.8	922.0	191.0	85.4	92.9	1,429.9	118.2	0.1	--	245.2	--	4,433.5
1984	192.6	460.8	8.2	134.5	15.6	112.2	301.8	862.1	180.1	79.0	89.7	1,384.0	112.2	0.1	--	236.5	--	4,169.4
1985	192.7	550.3	8.5	133.8	15.8	116.1	310.3	915.2	190.5	83.7	93.1	1,434.3	117.8	0.1	--	202.7	--	4,364.9
1986	180.7	498.2	7.7	117.3	13.4	107.1	296.1	858.3	178.8	79.1	88.0	1,358.2	110.5	--	--	94.0	--	3,987.4
1987	184.9	376.7	6.9	106.5	12.5	98.4	284.8	770.0	160.3	72.0	80.9	1,250.7	100.1	--	--	110.9	--	3,615.6
1988	197.6	446.5	7.5	114.0	13.3	104.7	304.6	830.0	172.6	77.3	85.9	1,325.3	107.3	--	--	108.3	--	3,894.9
1989	160.3	347.8	7.0	109.0	12.9	101.2	278.6	781.7	162.8	73.6	83.4	1,292.2	102.0	--	--	137.9	--	3,650.4
1990	175.5	428.5	7.9	124.5	14.6	112.6	291.4	874.8	182.0	81.9	92.0	1,423.5	113.6	--	--	172.5	--	4,095.3

TABLE B12. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 3, MILLION DOLLARS (1990-BASE DOLLARS), 1958-1990

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- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	107.9	300.6	2.8	37.3	4.5	33.5	104.2	299.4	61.8	26.4	26.3	396.6	36.8	--	--	--	--	1,438.1
1959	102.7	290.4	2.9	40.6	4.5	33.2	97.1	296.3	61.1	26.0	26.2	395.8	36.4	--	--	--	--	1,413.2
1960	82.9	213.5	2.4	37.3	3.6	27.3	80.6	237.9	49.3	20.8	21.8	330.2	29.6	--	--	--	--	1,137.2
1961	97.2	235.1	2.5	35.5	3.9	29.5	88.5	258.3	53.5	22.8	23.5	355.4	32.1	--	--	--	--	1,237.8
1962	99.6	348.0	3.1	40.7	5.0	37.8	99.9	340.6	70.4	29.7	29.9	452.4	41.7	--	--	--	--	1,598.8
1963	99.5	342.7	3.1	40.6	5.0	38.0	100.2	341.7	70.5	30.1	30.1	456.0	41.8	--	--	--	--	1,599.3
1964	94.3	300.1	3.0	43.1	4.7	35.8	94.0	318.2	65.4	28.6	28.5	431.7	39.1	--	--	--	--	1,486.5
1965	102.9	300.5	3.1	43.8	4.8	36.5	97.5	324.5	66.5	29.3	29.0	439.8	39.8	--	--	--	--	1,518.0
1966	104.4	327.6	3.2	43.0	5.1	39.1	102.0	351.2	71.3	32.6	31.0	470.0	42.6	--	--	--	--	1,623.1
1967	104.8	327.6	3.2	43.4	5.2	39.5	103.3	355.7	71.8	33.7	31.3	473.8	42.9	--	--	--	--	1,636.2
1968	95.3	315.6	3.1	43.2	5.1	38.8	98.6	351.1	70.1	34.1	30.7	465.1	42.0	--	--	--	--	1,592.8
1969	92.7	312.7	3.0	38.5	5.2	40.4	107.7	362.3	72.6	35.3	32.3	491.1	43.6	--	--	--	--	1,637.4
1970	90.9	290.1	3.1	39.7	5.2	42.2	100.8	371.0	74.6	36.3	34.2	521.8	45.1	--	--	--	--	1,655.0
1971	94.1	298.8	3.4	50.1	5.4	43.3	104.2	381.2	76.4	37.3	34.9	532.2	46.2	--	--	--	--	1,707.5
1972	110.5	379.6	4.2	60.9	6.6	53.0	121.2	463.6	94.5	43.5	42.9	655.4	57.0	--	--	--	--	2,092.9
1973	141.9	668.2	6.0	83.0	9.6	74.3	178.1	673.1	137.4	61.1	59.0	894.3	81.4	--	--	--	--	3,067.4
1974	131.6	638.3	5.8	77.7	9.5	75.4	176.2	673.1	138.4	60.8	60.6	922.9	82.4	--	--	--	--	3,052.7
1975	122.6	556.5	5.4	74.5	8.8	70.9	159.3	626.3	128.5	57.1	57.4	875.9	76.9	--	--	--	--	2,820.1
1976	113.2	391.6	4.4	61.0	7.4	60.8	153.7	523.2	107.1	49.1	49.9	765.7	65.0	--	--	--	--	2,352.1
1977	102.3	340.0	3.9	53.0	6.6	55.1	133.0	473.0	96.5	45.1	45.4	696.9	58.7	--	--	--	--	2,109.5
1978	107.9	405.5	4.4	61.5	7.3	60.1	142.7	523.2	106.4	49.7	49.1	752.4	64.4	--	--	--	--	2,334.6
1979	121.9	466.7	4.7	61.7	7.8	63.2	160.8	553.1	113.4	51.1	51.3	783.0	68.2	--	--	--	--	2,506.9
1980	123.2	456.1	5.4	86.1	8.0	64.3	159.5	556.5	114.6	50.7	52.1	796.6	69.0	--	--	--	--	2,542.1
1981	104.1	496.1	4.8	66.1	7.9	63.7	155.3	562.0	115.4	51.5	51.6	788.1	69.1	--	--	--	--	2,535.7
1982	98.0	477.0	4.5	59.6	7.4	59.7	140.6	530.0	108.5	48.8	48.2	736.0	64.8	--	--	--	--	2,383.1
1983	102.9	453.2	4.7	65.5	7.8	64.1	139.7	558.1	114.6	51.6	52.5	804.8	69.1	--	--	--	--	2,488.6
1984	99.5	407.9	4.6	66.4	7.4	62.1	134.2	531.6	109.9	48.7	51.2	786.2	66.5	--	--	--	--	2,376.2
1985	102.6	468.5	5.0	70.1	8.1	67.5	142.2	583.0	120.5	53.1	55.5	851.8	72.7	--	--	--	--	2,600.6
1986	91.9	350.9	4.2	60.9	6.9	58.7	123.1	497.0	102.8	46.0	48.9	752.0	62.6	--	--	--	--	2,205.9
1987	99.2	368.2	4.3	60.4	7.1	60.0	128.6	510.4	105.4	47.1	49.8	766.3	64.1	--	--	--	--	2,270.9
1988	104.1	405.2	4.6	64.4	7.5	63.1	136.6	540.0	111.4	49.8	52.2	801.1	67.6	--	--	--	--	2,407.6
1989	85.4	313.4	4.0	57.1	6.6	57.4	118.2	481.9	99.5	45.1	48.1	742.5	60.9	--	--	--	--	2,120.1
1990	88.2	345.1	4.3	62.0	7.1	61.1	122.5	515.6	106.3	48.3	51.1	788.2	64.9	--	--	--	--	2,264.7

TABLE B13. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 4, MILLION DOLLARS (1990=BASE DOLLARS), 1958-1990

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- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	97.0	356.5	3.8	55.6	6.0	48.2	124.5	416.6	86.7	37.0	39.2	598.5	52.1	--	--	--	--	1,921.7
1959	95.8	379.8	4.1	62.5	6.2	49.3	129.0	429.8	89.2	38.0	39.9	607.9	53.4	--	--	--	--	1,984.9
1960	86.8	353.5	4.1	65.2	6.1	48.8	135.3	418.8	87.5	36.7	39.7	606.9	52.6	--	--	--	--	1,942.0
1961	96.9	375.8	4.2	62.8	6.5	53.1	147.5	454.0	94.9	39.9	43.4	663.7	57.2	--	--	--	--	2,099.9
1962	98.0	303.7	4.4	65.6	7.1	62.8	142.2	507.4	108.0	44.4	53.4	826.2	66.4	--	--	--	--	2,289.6
1963	102.3	381.2	4.7	68.4	7.6	65.3	173.5	541.7	114.3	47.6	54.6	841.2	69.7	--	--	--	--	2,472.1
1964	112.0	345.1	5.9	92.2	9.2	84.1	180.2	667.2	142.7	58.2	72.4	1,123.9	88.4	--	--	--	--	2,981.5
1965	115.2	517.6	5.9	87.0	9.2	76.7	198.0	654.1	136.5	58.3	63.2	970.2	82.4	--	--	--	--	2,974.3
1966	114.5	438.3	5.6	82.1	9.1	77.9	192.7	649.7	135.5	59.2	65.1	1,003.9	82.7	--	--	--	--	2,916.3
1967	107.7	457.6	5.2	76.2	8.5	70.6	197.8	605.4	124.3	56.6	57.9	888.4	75.3	--	--	--	--	2,731.5
1968	102.6	416.1	5.3	79.2	8.7	73.7	195.1	624.7	127.7	59.5	61.1	941.6	78.0	--	--	--	--	2,773.3
1969	107.2	450.4	6.0	100.4	9.1	74.6	251.6	634.9	129.5	60.7	60.8	933.7	78.8	--	--	--	--	2,897.7
1970	118.1	512.1	18.9	540.1	14.1	105.8	245.6	862.6	175.9	78.2	82.7	1,266.1	107.1	--	--	--	--	4,127.3
1971	105.5	441.1	7.5	150.1	9.7	79.8	235.9	672.1	136.8	64.4	65.0	999.7	83.5	--	--	--	--	3,051.1
1972	125.0	590.0	9.5	196.3	11.8	95.9	263.2	812.2	166.9	75.0	77.8	1,193.8	101.2	--	--	--	--	3,718.6
1973	164.1	964.7	10.8	179.3	15.9	128.4	371.9	1,117.7	230.7	101.0	103.8	1,586.5	138.2	--	--	--	--	5,113.0
1974	174.3	1,099.1	12.5	221.5	17.5	138.0	420.2	1,208.9	249.9	107.9	110.5	1,685.4	148.9	--	--	--	--	5,594.6
1975	143.4	758.1	9.3	153.5	13.8	113.5	350.3	970.4	200.6	88.8	92.7	1,421.7	121.1	--	--	--	--	4,437.2
1976	156.4	631.9	8.7	132.5	14.0	118.9	429.8	982.6	204.6	90.8	98.9	1,525.6	125.3	--	--	--	--	4,520.0
1977	131.4	591.2	6.9	97.0	11.4	94.0	363.2	801.6	164.2	76.0	76.7	1,176.9	99.7	--	--	--	--	3,690.2
1978	137.5	658.0	7.1	94.3	12.1	99.2	372.4	854.7	174.7	81.3	80.8	1,238.4	105.7	--	--	--	--	3,916.2
1979	147.5	679.9	7.3	96.8	12.4	100.6	404.4	862.3	177.7	80.1	81.8	1,253.8	107.5	--	--	--	--	4,012.1
1980	172.5	715.9	8.1	114.4	13.4	109.2	416.1	927.0	192.5	84.6	89.2	1,368.3	116.6	--	--	--	--	4,327.8
1981	137.2	716.1	7.6	106.6	12.7	103.4	399.1	886.8	183.4	81.4	84.1	1,288.5	110.6	--	--	--	--	4,117.5
1982	122.8	644.2	6.7	92.1	11.3	92.6	335.2	797.7	164.4	73.8	75.4	1,154.6	99.1	--	--	--	--	3,669.9
1983	143.9	814.6	8.5	118.2	14.2	117.4	361.3	1,010.3	209.0	92.4	96.2	1,475.7	126.0	--	--	--	--	4,587.7
1984	134.2	683.6	8.0	116.0	13.0	110.1	347.6	928.1	193.3	84.3	91.1	1,401.8	117.3	--	--	--	--	4,228.4
1985	135.8	688.9	8.1	115.8	13.2	112.2	346.6	945.2	196.9	86.0	93.0	1,431.9	119.5	--	--	--	--	4,293.1
1986	135.7	692.8	8.1	115.4	13.3	113.1	343.5	952.5	198.5	86.6	93.9	1,445.6	120.6	--	--	--	--	4,319.6
1987	139.4	684.1	7.9	111.3	13.2	112.1	345.8	943.9	196.5	86.1	92.9	1,430.7	119.4	--	--	--	--	4,283.3
1988	150.7	876.6	9.2	126.8	15.2	126.5	380.8	1,086.0	225.5	98.2	104.0	1,595.7	135.9	--	--	--	--	4,931.1
1989	143.4	480.6	6.9	98.8	11.6	100.9	333.5	824.5	172.0	76.4	84.8	1,311.5	106.0	--	--	--	--	3,750.9
1990	142.4	467.0	7.0	102.3	11.6	102.1	326.9	831.7	173.3	77.6	86.0	1,330.6	107.0	--	--	--	--	3,765.5

TABLE B14. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 5, MILLION DOLLARS (1990-BASE DOLLARS), 1958-1990

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- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	206.2	443.5	5.5	76.0	8.9	69.8	274.3	583.6	122.6	51.2	56.8	867.0	74.7	--	--	--	--	2,840.1
1959	203.6	430.1	5.4	79.7	8.5	66.2	255.1	556.7	116.4	49.1	53.5	816.2	70.9	--	--	--	--	2,711.4
1960	173.1	398.2	4.8	74.1	7.4	55.5	251.2	473.1	98.5	41.7	44.1	669.2	59.6	--	--	--	--	2,350.5
1961	208.8	494.5	6.1	86.5	9.7	77.6	279.2	648.6	136.4	56.7	63.3	968.2	83.1	--	--	--	--	3,118.7
1962	189.3	298.4	4.9	70.0	8.0	66.9	234.5	534.2	113.4	46.9	56.1	863.7	70.4	--	--	--	--	2,556.7
1963	199.4	468.1	6.0	82.9	9.8	80.5	271.2	666.1	140.3	58.5	66.5	1,020.4	85.8	--	--	--	--	3,155.5
1964	192.0	368.3	6.0	91.7	9.5	80.1	264.1	644.7	136.2	57.4	67.2	1,035.4	84.3	--	--	--	--	3,036.9
1965	211.4	472.0	6.5	95.8	10.3	84.4	281.4	698.9	146.0	63.0	69.6	1,067.3	89.5	--	--	--	--	3,296.1
1966	224.5	509.9	6.8	95.7	11.1	91.2	297.2	760.1	157.7	70.1	75.2	1,153.6	96.7	--	--	--	--	3,549.8
1967	221.7	491.8	6.6	93.3	10.9	88.5	304.5	741.8	152.6	69.6	72.7	1,114.2	93.7	--	--	--	--	3,461.9
1968	201.0	453.7	6.4	92.8	10.6	87.3	297.1	730.9	149.0	70.9	71.8	1,102.5	91.8	--	--	--	--	3,365.8
1969	206.2	502.8	6.8	101.3	11.1	88.4	303.9	747.1	151.7	72.4	71.6	1,095.4	93.0	--	--	--	--	3,531.7
1970	195.6	497.7	6.8	107.0	10.7	84.7	347.8	723.5	145.7	71.3	68.1	1,041.8	89.1	--	--	--	--	3,389.8
1971	202.0	510.5	7.0	108.8	11.0	87.1	360.7	744.0	149.6	73.5	70.0	1,070.5	91.6	--	--	--	--	3,486.3
1972	234.7	667.1	8.0	117.3	12.8	100.8	394.8	867.8	176.7	82.6	81.0	1,235.4	107.3	--	--	--	--	4,086.3
1973	309.0	1,192.6	11.9	173.0	18.8	142.3	562.8	1,265.7	258.5	116.3	112.0	1,698.4	154.2	--	--	--	--	6,015.5
1974	312.6	1,218.2	11.5	155.5	18.9	142.4	610.8	1,266.7	259.6	115.5	111.9	1,695.8	154.7	--	--	--	--	6,074.1
1975	248.5	753.3	9.5	155.9	14.3	109.6	503.2	944.7	192.3	89.3	86.9	1,323.7	116.4	--	--	--	--	4,547.6
1976	260.6	752.7	8.1	101.3	14.4	110.1	644.1	948.7	192.7	91.4	87.2	1,327.1	116.9	--	--	--	--	4,655.3
1977	239.0	832.5	8.7	113.4	14.9	114.6	567.4	1,000.5	202.8	95.9	90.9	1,384.0	122.4	--	--	--	--	4,787.0
1978	251.0	909.6	9.5	127.6	16.1	124.7	580.2	1,090.1	221.1	104.2	99.1	1,509.8	133.3	--	--	--	--	5,176.3
1979	259.5	908.5	9.4	123.6	15.9	121.8	622.3	1,060.1	216.6	99.2	96.5	1,467.7	130.5	--	--	--	--	5,131.6
1980	262.5	919.8	9.8	134.7	16.3	125.2	619.4	1,082.7	222.5	100.1	99.6	1,516.4	134.1	--	--	--	--	5,243.1
1981	219.5	917.1	9.0	117.2	15.3	117.2	597.6	1,027.7	210.2	95.6	92.7	1,409.9	126.1	--	--	--	--	4,955.1
1982	196.5	795.1	7.8	99.7	13.4	102.8	497.1	903.7	184.0	85.2	81.4	1,238.7	110.5	--	--	--	--	4,315.9
1983	210.2	932.4	9.2	121.2	15.6	122.7	513.9	1,076.0	219.7	100.9	98.1	1,495.1	131.9	--	--	--	--	5,046.9
1984	206.0	831.2	8.8	120.3	14.8	117.2	509.0	1,011.4	207.9	93.8	94.3	1,440.7	125.5	--	--	--	--	4,780.9
1985	209.6	918.3	9.4	125.8	15.8	125.1	517.2	1,086.0	223.2	100.5	100.6	1,535.7	134.3	--	--	--	--	5,101.5
1986	198.7	776.0	8.5	114.6	14.3	114.6	490.6	983.3	202.1	91.7	92.7	1,417.6	122.3	--	--	--	--	4,627.0
1987	212.7	806.3	8.6	114.1	14.7	117.0	502.4	1,007.4	206.8	94.2	94.4	1,443.1	125.0	--	--	--	--	4,746.7
1988	207.1	941.6	8.9	115.9	15.1	116.3	526.6	1,031.2	209.9	96.7	92.0	1,398.1	125.5	--	--	--	--	4,884.9
1989	177.3	728.7	8.1	108.3	13.9	112.2	492.8	959.3	196.5	90.9	90.9	1,393.1	119.2	--	--	--	--	4,491.2
1990	183.9	781.6	8.6	116.3	14.6	118.4	494.7	1,016.4	207.9	96.3	96.0	1,469.6	125.9	--	--	--	--	4,730.2

TABLE B15. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 6, MILLION DOLLARS (1990-BASE DOLLARS), 1958-1990

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- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	266.6	473.2	4.8	59.4	8.0	56.7	227.6	497.2	103.0	43.5	44.1	662.9	62.0	--	--	--	--	2,509.0
1959	252.6	377.7	4.3	57.3	7.0	50.0	201.0	431.4	89.3	38.2	39.1	588.6	54.2	--	--	--	--	2,190.7
1960	209.4	374.6	4.2	58.8	6.7	48.3	184.8	418.4	86.9	36.5	38.0	573.4	52.5	--	--	--	--	2,092.5
1961	241.4	355.1	4.1	54.0	6.7	48.4	192.8	415.3	86.2	36.4	38.1	573.8	52.4	--	--	--	--	2,104.7
1962	234.5	433.4	4.4	55.2	7.4	53.8	191.5	470.4	97.4	41.4	42.3	637.9	58.7	--	--	--	--	2,328.3
1963	239.6	412.8	4.4	54.8	7.3	53.3	192.7	463.8	95.9	41.0	42.0	633.9	58.0	--	--	--	--	2,299.5
1964	242.5	380.9	4.5	60.3	7.2	52.8	192.1	455.4	93.8	41.2	41.7	630.2	57.1	--	--	--	--	2,259.7
1965	270.5	423.2	4.9	64.5	8.0	57.7	208.4	500.0	102.6	45.6	45.4	684.6	62.4	--	--	--	--	2,477.8
1966	286.4	462.4	5.1	64.4	8.6	62.2	222.1	543.6	110.6	50.7	48.8	735.9	67.2	--	--	--	--	2,668.0
1967	285.8	437.8	5.0	63.3	8.4	60.8	222.2	532.4	107.5	50.6	47.7	719.1	65.5	--	--	--	--	2,606.1
1968	263.6	470.9	5.1	66.1	8.6	63.1	218.2	560.8	112.1	54.4	49.4	745.7	68.0	--	--	--	--	2,686.0
1969	256.3	479.0	5.2	65.9	9.0	66.5	240.5	585.7	117.5	56.8	52.4	792.1	71.4	--	--	--	--	2,798.3
1970	249.4	447.6	5.6	82.9	8.9	66.2	224.9	579.1	115.8	56.9	52.2	791.0	70.5	--	--	--	--	2,751.0
1971	256.6	465.7	5.2	64.1	9.0	68.1	232.6	597.9	119.5	59.0	54.0	818.3	72.8	--	--	--	--	2,822.8
1972	304.2	584.3	6.2	75.5	10.6	78.5	267.6	691.3	139.9	65.5	62.0	938.1	84.7	--	--	--	--	3,308.4
1973	365.6	760.5	7.5	89.6	13.0	95.7	338.0	847.8	172.4	79.0	75.3	1,136.9	103.9	--	--	--	--	4,085.2
1974	333.9	962.2	8.5	99.4	14.5	107.7	361.1	971.7	198.3	88.5	84.5	1,274.5	118.1	--	--	--	--	4,622.9
1975	313.5	780.4	7.5	91.3	12.7	94.6	322.9	844.9	171.4	78.6	74.4	1,124.0	102.9	--	--	--	--	4,019.1
1976	315.8	560.4	6.4	83.1	10.9	80.6	340.2	702.9	141.6	67.9	63.4	960.0	86.2	--	--	--	--	3,419.4
1977	293.6	562.9	6.2	77.3	10.7	80.0	307.0	700.7	141.0	67.7	63.2	958.1	85.7	--	--	--	--	3,354.1
1978	313.1	699.0	7.2	90.1	12.3	92.1	331.2	816.2	164.4	78.1	72.6	1,099.6	99.3	--	--	--	--	3,875.2
1979	366.0	736.5	7.7	96.3	13.0	96.0	370.4	843.9	171.7	78.5	75.5	1,141.2	103.8	--	--	--	--	4,100.5
1980	320.5	606.9	6.7	84.7	11.4	85.8	333.9	743.2	151.7	69.1	68.1	1,032.2	92.2	--	--	--	--	3,606.4
1981	291.5	806.0	7.6	94.6	12.8	95.5	343.3	853.3	173.7	78.7	75.0	1,133.5	104.0	--	--	--	--	4,069.5
1982	276.7	749.9	7.0	85.1	11.9	88.4	306.9	792.6	160.9	73.5	69.4	1,047.9	96.3	--	--	--	--	3,766.5
1983	285.7	726.6	7.2	90.8	12.2	92.4	306.9	819.4	166.4	76.7	73.2	1,109.2	100.1	--	--	--	--	3,866.8
1984	282.8	709.2	7.2	93.8	12.1	92.1	306.2	809.5	165.4	74.6	73.2	1,110.6	99.6	--	--	--	--	3,836.3
1985	279.3	684.2	7.1	91.1	11.9	90.9	300.7	796.9	162.7	74.0	72.4	1,098.9	98.2	--	--	--	--	3,768.3
1986	261.2	583.6	6.4	82.8	10.8	82.8	279.5	719.9	146.8	67.4	66.3	1,008.0	89.0	--	--	--	--	3,404.5
1987	288.2	581.2	6.5	81.6	11.0	84.0	291.6	728.3	148.4	68.5	67.2	1,021.0	90.2	--	--	--	--	3,467.7
1988	289.2	562.7	6.4	81.8	10.9	83.2	293.6	718.8	146.4	67.9	66.5	1,010.9	89.1	--	--	--	--	3,427.4
1989	239.5	465.7	6.2	81.4	10.5	85.6	262.5	717.5	147.3	68.0	70.4	1,079.9	90.6	--	--	--	--	3,325.1
1990	243.7	580.2	6.5	84.2	11.0	85.8	274.7	744.6	151.2	70.9	69.1	1,052.5	91.8	--	--	--	--	3,466.2

TABLE B16. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 7, MILLION DOLLARS (1990=BASE DOLLARS), 1958-1990

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- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	304.5	349.0	4.7	62.7	8.4	55.9	251.1	460.9	96.1	40.4	43.7	657.7	59.6	2.5	--	15.3	159.9	2,572.4
1959	286.6	251.6	4.3	62.6	7.4	48.9	221.4	393.0	82.0	34.9	38.4	580.4	51.6	2.0	--	14.7	153.8	2,233.6
1960	230.9	274.9	4.3	66.6	7.2	49.0	206.9	397.7	83.3	34.8	38.8	587.2	51.9	2.4	--	14.0	146.9	2,196.8
1961	272.6	175.4	3.8	55.3	6.6	44.3	212.9	343.8	72.2	30.8	35.1	532.5	46.1	3.1	--	14.0	146.9	1,995.4
1962	260.1	371.4	4.8	64.6	8.6	60.4	222.7	499.5	104.4	44.1	48.1	729.9	64.5	3.5	--	13.7	143.5	2,643.8
1963	269.8	337.2	4.7	63.3	8.4	58.7	229.1	481.7	100.5	42.8	46.8	710.1	62.4	3.0	--	13.4	140.8	2,572.7
1964	281.3	330.1	5.3	76.8	9.0	64.4	238.1	521.3	108.9	46.8	51.8	788.9	67.9	4.1	--	13.5	141.9	2,750.1
1965	315.6	367.8	5.5	77.8	9.4	65.9	255.6	541.6	112.0	49.2	52.3	792.4	69.7	4.8	--	14.0	146.4	2,880.0
1966	350.9	395.5	5.8	77.6	10.3	72.4	278.2	597.1	123.4	55.5	57.5	870.3	76.6	6.8	15.6	14.2	149.1	3,156.8
1967	346.9	345.8	5.5	73.9	9.8	68.3	277.4	560.7	115.4	53.9	54.0	815.2	71.8	10.8	28.9	14.5	151.5	3,004.3
1968	331.6	356.4	5.6	77.1	10.1	70.9	276.2	586.7	120.1	57.7	56.1	848.3	74.5	13.3	40.6	14.0	146.2	3,085.4
1969	329.0	381.3	6.2	87.1	10.9	78.4	321.7	644.4	132.4	62.9	62.5	948.9	82.1	12.7	36.7	13.4	140.9	3,351.5
1970	325.3	351.2	5.8	79.2	10.5	76.6	300.0	628.4	128.7	62.2	61.3	930.7	80.0	15.1	41.0	13.0	136.5	3,245.5
1971	338.2	350.7	6.0	80.1	10.9	80.3	311.0	654.8	134.7	64.9	64.6	980.9	83.8	16.9	49.6	12.9	134.8	3,375.1
1972	401.6	458.3	7.1	94.0	12.8	94.6	352.9	771.6	161.0	73.2	76.2	1,156.8	99.6	17.1	58.2	13.1	137.3	3,985.4
1973	487.1	628.2	8.5	103.7	15.6	114.3	451.1	944.1	196.8	87.7	91.7	1,390.7	121.3	17.4	49.7	14.0	146.9	4,868.8
1974	421.9	604.7	8.2	105.1	14.9	109.6	444.2	902.3	189.0	83.4	88.0	1,335.9	116.2	18.8	53.0	15.3	160.0	4,670.5
1975	397.9	568.3	8.6	124.5	14.8	110.0	415.0	901.4	187.7	84.2	88.6	1,348.5	115.8	18.2	44.6	15.4	161.4	4,604.9
1976	425.8	466.4	8.1	112.2	14.4	105.7	493.1	849.3	178.0	81.0	84.8	1,287.6	110.3	29.5	79.5	15.9	166.7	4,508.3
1977	387.5	358.0	7.7	114.2	13.6	103.1	422.2	809.8	170.9	77.8	84.1	1,281.5	106.6	33.4	90.1	16.3	170.5	4,247.3
1978	401.9	480.4	8.3	118.9	14.8	110.5	443.9	888.1	187.3	85.3	89.1	1,352.1	115.4	42.6	118.6	16.3	171.1	4,644.6
1979	483.3	485.8	10.1	160.0	17.0	126.2	505.1	985.1	212.4	90.8	102.2	1,551.2	131.3	56.8	153.1	23.1	242.4	5,335.9
1980	536.9	416.3	10.3	163.1	17.9	131.0	519.9	994.2	217.7	90.1	106.5	1,614.8	135.4	76.0	184.3	33.8	353.8	5,602.0
1981	390.3	530.6	10.0	152.5	19.0	137.7	469.3	1,061.5	231.9	96.3	111.9	1,701.8	143.1	82.1	196.0	54.3	568.9	5,957.2
1982	374.6	498.9	8.7	126.8	17.0	120.4	416.8	935.8	204.8	85.8	96.8	1,463.4	125.5	87.8	212.8	47.2	494.4	5,317.5
1983	395.1	503.4	9.4	141.7	17.8	129.6	426.4	1,002.2	220.0	92.5	104.6	1,580.2	134.5	115.5	248.2	42.3	443.5	5,606.9
1984	402.0	479.7	9.9	155.8	18.1	135.0	434.6	1,028.2	228.5	93.1	109.6	1,657.4	139.7	135.6	275.7	39.6	415.4	5,757.9
1985	399.1	530.5	10.1	155.0	18.6	139.3	440.4	1,066.2	237.1	96.6	112.5	1,693.6	144.0	181.9	308.4	35.8	375.6	5,944.7
1986	374.3	456.9	9.4	144.4	17.1	131.1	417.3	997.1	222.4	90.9	106.5	1,604.6	135.2	173.8	301.1	28.1	294.6	5,504.8
1987	415.6	438.8	9.6	143.4	18.1	137.1	450.1	1,025.7	241.0	94.0	111.0	1,656.5	142.9	203.8	557.0	29.6	310.5	5,984.7
1988	437.1	338.0	9.4	143.7	17.8	134.9	458.4	986.7	236.2	90.9	109.6	1,632.4	140.0	215.0	617.7	29.4	308.1	5,905.3
1989	317.4	312.8	8.6	133.8	16.7	129.5	401.8	946.9	224.4	88.1	105.8	1,581.9	133.4	220.6	557.7	32.9	344.4	5,556.7
1990	326.3	359.2	9.2	145.1	17.7	135.4	406.1	999.9	234.5	93.1	110.5	1,655.6	139.8	209.4	543.6	37.9	396.6	5,819.9

TABLE B17. GROSS BUSINESS VOLUMES OF ECONOMIC SECTORS ESTIMATED BY THE INPUT-OUTPUT MODEL, NORTH DAKOTA REGION 8, MILLION DOLLARS (1990-BASE DOLLARS), 1958-1990

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- Elec Gen	(16) Pet Exp/Ext	(17) Pet Refining	Total
1958	153.8	235.6	2.5	29.4	4.2	28.9	111.9	251.6	52.1	21.9	22.4	335.5	31.5	1.2	--	3.6	--	1,286.1
1959	146.1	159.2	2.0	26.0	3.4	23.3	299.3	197.3	40.9	17.3	18.2	272.7	25.1	1.2	--	3.1	--	1,035.1
1960	115.3	155.1	1.9	26.3	3.1	22.0	88.9	186.0	38.6	16.5	17.1	257.6	23.6	1.2	--	5.3	--	958.5
1961	133.6	128.2	1.8	23.5	3.1	21.1	96.0	174.0	36.1	15.4	16.4	246.5	22.4	1.2	--	9.9	--	929.2
1962	124.4	187.3	2.1	26.3	3.7	25.2	99.2	214.8	44.4	19.1	19.5	293.1	27.0	1.5	--	15.3	--	1,102.9
1963	132.6	228.6	2.4	29.8	4.2	29.1	112.7	250.3	51.7	22.0	22.4	337.3	31.3	1.1	--	17.1	--	1,272.6
1964	134.8	174.4	2.2	29.2	3.8	25.9	108.6	217.2	44.7	19.4	20.0	300.9	27.4	1.1	--	16.5	--	1,126.1
1965	154.1	199.2	2.5	32.5	4.3	29.1	119.3	245.6	50.4	22.3	22.4	337.0	30.9	0.7	--	21.7	--	1,272.0
1966	171.0	243.6	2.8	36.0	5.1	34.1	133.7	290.2	59.1	26.8	26.0	391.3	36.1	0.7	--	32.0	--	1,489.3
1967	179.0	247.0	2.9	37.4	5.4	35.2	129.7	298.5	60.4	27.9	26.6	400.2	37.0	0.7	--	41.6	--	1,530.3
1968	171.6	195.3	2.7	36.5	5.2	32.7	131.7	269.4	53.9	26.2	24.4	366.5	33.4	1.0	--	61.2	--	1,411.7
1969	168.5	196.9	2.9	39.6	5.3	34.9	148.0	286.5	57.7	27.6	26.6	401.2	35.8	0.6	--	50.0	--	1,482.1
1970	163.5	204.7	3.0	40.9	5.6	37.2	140.1	304.5	61.4	29.6	28.5	431.9	38.1	0.9	--	55.2	--	1,545.1
1971	171.9	202.0	3.0	44.2	5.4	35.2	145.2	292.3	58.4	28.8	26.8	403.6	36.2	0.9	--	45.8	--	1,499.7
1972	217.3	276.0	3.4	42.7	6.4	42.4	174.0	355.6	72.1	33.4	32.3	486.7	44.4	1.1	--	44.8	--	1,833.4
1973	269.6	423.5	4.5	53.2	8.5	56.7	230.3	484.6	99.0	44.3	43.3	650.3	60.2	1.0	--	51.2	--	2,480.2
1974	248.0	515.0	5.3	67.1	10.0	64.4	241.6	549.5	112.6	49.4	48.4	728.5	68.0	1.2	--	97.7	--	2,807.5
1975	224.1	310.0	4.0	53.3	8.0	49.7	201.3	403.5	82.2	37.5	37.1	558.5	50.7	4.3	--	107.3	0.1	2,131.6
1976	189.9	281.6	3.9	54.0	7.9	48.1	213.3	383.3	77.4	36.5	35.2	530.7	47.9	16.1	--	125.8	0.3	2,051.9
1977	206.5	221.1	3.6	52.0	7.8	45.8	196.8	352.7	71.2	33.8	33.4	504.0	44.7	16.3	--	141.9	0.3	1,931.9
1978	207.9	271.1	4.3	66.6	8.7	51.5	202.9	401.4	81.1	38.2	37.6	566.4	50.5	16.1	--	159.7	0.3	2,164.3
1979	258.5	268.4	4.9	74.9	11.4	61.4	233.6	444.3	91.3	40.5	43.3	653.6	57.7	21.3	--	295.2	0.4	2,560.7
1980	266.5	188.5	6.0	106.7	16.4	74.3	227.8	461.9	96.0	40.9	48.1	728.6	62.6	27.2	--	632.4	0.5	2,984.4
1981	206.2	252.4	9.0	186.8	28.3	109.2	209.8	605.4	125.8	52.2	62.9	957.0	82.8	25.0	--	1,360.9	0.4	4,274.1
1982	188.9	256.7	8.0	162.7	24.9	96.4	185.3	545.6	112.7	47.5	55.5	841.7	73.8	22.0	--	1,184.1	0.4	3,806.2
1983	203.2	283.3	7.7	151.9	23.0	93.2	193.2	553.7	114.0	48.9	55.5	841.9	74.0	20.9	--	1,036.5	0.3	3,701.2
1984	207.7	280.1	7.2	137.4	20.4	86.7	196.6	531.0	109.8	46.5	53.4	809.2	70.9	25.4	--	871.7	0.4	3,454.4
1985	205.5	259.5	6.4	119.1	17.7	78.0	192.2	490.5	101.2	43.4	49.2	744.5	65.1	28.1	--	719.1	0.5	3,120.0
1986	188.0	236.0	4.5	74.1	10.7	56.5	179.6	400.4	82.3	36.5	39.4	596.9	52.0	20.7	--	315.6	0.3	2,293.5
1987	209.4	237.4	4.7	75.6	11.2	58.3	189.5	410.6	84.3	37.4	40.4	612.2	53.5	18.5	--	334.5	0.3	2,377.8
1988	214.2	158.7	3.8	59.8	8.8	47.9	184.5	338.4	69.4	31.6	34.2	518.4	44.5	10.9	--	229.4	0.2	1,954.7
1989	164.7	289.6	4.4	68.9	10.0	57.1	179.3	428.9	87.8	39.5	41.2	624.9	54.7	18.5	--	242.4	0.3	2,312.2
1990	168.7	284.2	4.7	74.7	10.7	59.7	178.9	440.2	90.0	40.7	42.6	646.3	56.3	18.8	--	285.2	0.3	2,402.0

TABLE B18. EMPLOYMENT BY ECONOMIC SECTOR, NORTH DAKOTA, 1958-1990^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

^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, 1958-1990*

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	348	485	951	2,250	461	1,485	1,810	--	1,866	20	--	1,176	56	14,118

*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, 1958-1990*

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	43	1,086	777	1,055	3,213	8,403	1,149	4,253	5,015	--	11,386	24	--	625	--	44,088

*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, 1958-1990*

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	341	291	370	2,149	2,819	628	1,507	2,134	--	3,002	--	--	--	--	18,481

*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, 1958-1990*

	(1) & (2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	
Year	Ag	Nonmetallic Mining	Const	Trans	Comm & Pub Util	Ag Proc & Misc Mfg	Retail Trade	FIRE	Bus & Pers Service	Prof & Soc Service	House-holds	Govt	Coal Mining	Thermal-Elec Gen	Pet Exp/Ext	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	78	1,637	1,062	1,404	4,719	10,949	1,266	6,594	5,993	--	15,470	--	--	--	--	53,702

*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, 1958-1990*

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	70	4,399	3,195	2,562	12,873	17,679	4,675	11,855	12,479	--	11,450	--	--	--	--	87,592

*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, 1958-1990*

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	56	719	705	818	3,013	5,170	865	3,692	4,542	--	4,188	--	--	--	--	32,160

*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, 1958-1990*

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	--	2,712	1,500	2,814	4,453	11,125	1,851	7,956	10,046	--	10,784	772	833	199	240	63,781

*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, 1958-1990*

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	--	854	301	715	1,533	3,357	497	2,001	2,366	--	2,411	202	--	686	--	19,934

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

APPENDIX C

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TABLE C1. AGRICULTURAL-RELATED EMPLOYMENT BY CATEGORY, NONAGRICULTURAL EMPLOYMENT, AND TOTAL EMPLOYMENT, BY COUNTY, STATE REGION 1, SELECTED YEARS 1975-1988

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Divide County-----								
Ag input industries	36	1.83	21	1.24	18	1.04	8	0.49
Farm proprietors, farm W & S, ag services	816	41.40	753	44.50	680	39.47	638	38.86
Ag processing and marketing	43	2.18	26	1.50	19	1.10	19	1.16
Farm-related wholesale & retail trade	79	4.01	123	7.27	124	7.20	136	8.28
Indirect agribusiness	11	0.56	11	0.65	13	0.75	19	1.16
Total farm & farm-related employment	985	49.97	934	55.20	854	49.56	820	49.94
Other employment	986	50.03	758	44.80	869	50.44	822	50.06
Total employment	1,971	100.00	1,692	100.00	1,723	100.00	1,642	100.00
-----McKenzie County-----								
Ag input industries	64	2.67	46	1.45	51	1.68	35	1.18
Farm proprietors, farm W & S, ag services	1,068	44.56	1,045	33.04	975	32.06	909	30.55
Ag processing and marketing	61	2.54	25	0.79	3	0.10	44	1.48
Farm-related wholesale & retail trade	126	5.26	312	9.86	264	8.68	167	5.61
Indirect agribusiness	9	0.38	15	0.47	8	0.26	13	0.44
Total farm & farm-related employment	1,328	55.40	1,443	45.62	1,301	42.78	1,168	39.26
Other employment	1,069	44.60	1,720	54.38	1,740	57.22	1,807	60.74
Total employment	2,397	100.00	3,163	100.00	3,041	100.00	2,975	100.00
-----Williams County-----								
Ag input industries	121	1.42	127	0.94	150	1.12	87	0.78
Farm proprietors, farm W & S, ag services	1,355	15.91	1,276	9.49	1,143	8.54	1,059	9.50
Ag processing and marketing	234	2.75	124	0.92	113	0.84	134	1.20
Farm-related wholesale & retail trade	686	8.05	1,214	9.03	1,226	9.16	1,115	10.00
Indirect agribusiness	75	0.88	82	0.61	142	1.06	115	1.03
Total farm & farm-related employment	2,471	29.01	2,823	20.99	2,774	20.73	2,510	22.52
Other employment	6,048	70.99	10,627	79.01	10,606	79.27	8,637	77.48
Total employment	8,519	100.00	13,450	100.00	13,380	100.00	11,147	100.00
-----State Region 1-----								
Ag input industries	221	1.71	194	1.06	219	1.21	130	0.83
Farm proprietors, farm W & S, ag services	3,239	25.13	3,074	16.79	2,798	15.42	2,606	16.53
Ag processing and marketing	338	2.62	175	0.96	135	0.74	197	1.25
Farm-related wholesale & retail trade	891	6.91	1,649	9.01	1,614	8.90	1,418	9.00
Indirect agribusiness	95	0.74	108	0.59	163	0.90	147	0.93
Total farm & farm-related employment	4,784	37.12	5,200	28.41	4,659	27.17	4,498	28.53
Other employment	8,103	67.88	13,105	71.59	13,215	72.83	11,266	71.47
Total employment	12,887	100.00	18,305	100.00	18,144	100.00	15,764	100.00

TABLE C2. AGRICULTURAL-RELATED EMPLOYMENT BY CATEGORY, NONAGRICULTURAL EMPLOYMENT, AND TOTAL EMPLOYMENT, BY COUNTY, STATE REGION 2, SELECTED YEARS 1975-1988

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Bottineau County-----								
Ag input industries	120	3.11	166	3.90	151	3.43	104	2.35
Farm proprietors, farm W & S, ag services	1,441	37.34	1,340	31.47	1,221	27.75	1,139	25.70
Ag processing and marketing	96	2.49	131	3.08	30	0.68	90	2.03
Farm-related wholesale & retail trade	241	6.25	289	6.79	289	6.57	330	7.45
Indirect agribusiness	18	0.47	36	0.85	18	0.41	21	0.47
Total farm & farm-related employment	1,916	49.65	1,962	46.08	1,709	38.84	1,684	38.00
Other employment	1,943	50.35	2,296	53.92	2,691	61.16	2,748	62.00
Total employment	3,859	100.00	4,258	100.00	4,400	100.00	4,432	100.00
-----Burke County-----								
Ag input industries	42	2.35	28	1.67	66	4.03	53	3.23
Farm proprietors, farm W & S, ag services	763	42.72	709	42.38	649	39.60	607	36.94
Ag processing and marketing	36	2.02	23	1.37	4	0.24	27	1.64
Farm-related wholesale & retail trade	105	5.88	106	6.34	134	8.18	134	8.16
Indirect agribusiness	3	0.17	12	0.72	6	0.37	14	0.85
Total farm & farm-related employment	949	53.14	878	52.48	859	52.41	835	50.82
Other employment	837	46.86	795	47.52	780	47.59	808	49.18
Total employment	1,786	100.00	1,673	100.00	1,639	100.00	1,643	100.00
-----McHenry County-----								
Ag input industries	38	1.24	10	0.34	12	0.40	12	0.41
Farm proprietors, farm W & S, ag services	1,303	42.57	1,201	40.38	1,114	37.38	1,046	35.33
Ag processing and marketing	109	3.56	113	3.80	87	2.92	159	5.37
Farm-related wholesale & retail trade	143	4.67	174	5.85	202	6.78	216	7.29
Indirect agribusiness	5	0.16	7	0.24	15	0.50	20	0.68
Total farm & farm-related employment	1,598	52.21	1,505	50.61	1,430	47.99	1,453	49.07
Other employment	1,463	47.79	1,469	49.39	1,550	52.01	1,508	50.93
Total employment	3,061	100.00	2,974	100.00	2,980	100.00	2,961	100.00
-----Mountrail County-----								
Ag input industries	43	1.22	30	0.79	14	0.39	15	0.44
Farm proprietors, farm W & S, ag services	1,199	33.89	1,106	29.03	1,025	28.51	950	28.11
Ag processing and marketing	56	1.58	39	1.02	41	1.14	56	1.66
Farm-related wholesale & retail trade	237	6.70	305	8.01	259	7.20	269	7.96
Indirect agribusiness	3	0.08	11	0.29	13	0.36	13	0.38
Total farm & farm-related employment	1,538	43.47	1,491	39.13	1,352	37.61	1,303	38.56
Other employment	2,000	56.53	2,319	60.87	2,243	62.39	2,076	61.44
Total employment	3,538	100.00	3,810	100.00	3,595	100.00	3,379	100.00

- CONTINUED -

TABLE C2. (CONTINUED)

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Pierce County-----								
Ag input industries	90	3.62	89	3.19	90	3.21	138	5.22
Farm proprietors, farm W & S, ag services	809	32.50	878	31.42	876	31.21	908	34.32
Ag processing and marketing	70	2.81	40	1.43	38	1.35	46	1.74
Farm-related wholesale & retail trade	189	7.59	235	8.41	274	9.76	222	8.39
Indirect agribusiness	15	0.60	14	0.50	14	0.50	23	0.87
Total farm & farm-related employment	1,173	47.13	1,256	44.95	1,292	46.03	1,337	50.53
Other employment	13,16	52.87	1,538	55.05	1,515	53.97	1,309	49.47
Total employment	2,489	100.00	2,794	100.00	2,807	100.00	2,646	100.00
-----Renville County-----								
Ag input industries	34	2.18	27	1.59	27	1.70	67	4.59
Farm proprietors, farm W & S, ag services	663	42.42	635	37.44	579	36.46	539	36.92
Ag processing and marketing	43	2.75	32	1.89	50	3.15	26	1.78
Farm-related wholesale & retail trade	47	3.01	56	3.30	95	5.98	88	6.03
Indirect agribusiness	27	1.73	53	3.13	31	1.95	0	0.00
Total farm & farm-related employment	814	52.08	803	47.35	782	49.24	720	49.32
Other employment	749	47.92	893	52.65	806	50.76	740	50.68
Total employment	1,563	100.00	1,696	100.00	1,588	100.00	1,460	100.00
-----Ward County-----								
Ag input industries	349	1.25	500	1.64	232	0.73	203	0.63
Farm proprietors, farm W & S, ag services	1,756	6.27	1,741	5.72	1,642	5.15	1,498	4.68
Ag processing and marketing	504	1.80	660	2.17	590	1.85	683	2.13
Farm-related wholesale & retail trade	2,051	7.33	2,559	8.41	2,976	9.33	3,019	9.43
Indirect agribusiness	243	0.87	295	0.97	326	1.02	292	0.91
Total farm & farm-related employment	4,903	17.52	5,755	18.91	5,766	18.07	5,695	17.79
Other employment	23,084	82.48	24,684	81.09	26,135	81.93	26,319	82.21
Total employment	27,987	100.00	30,439	100.00	31,901	100.00	32,014	100.00
-----State Region 2-----								
Ag input industries	716	1.62	850	1.78	592	1.21	592	1.22
Farm proprietors, farm W & S, ag services	7,934	17.92	7,610	15.97	7,106	14.53	6,687	13.78
Ag processing and marketing	914	2.06	1,038	2.18	840	1.72	1,087	2.24
Farm-related wholesale & retail trade	2,979	6.73	3,663	7.69	4,114	8.41	4,221	8.70
Indirect agribusiness	314	0.71	428	0.90	423	0.86	383	0.79
Total farm & farm-related employment	12,891	29.11	13,650	28.65	13,190	26.97	13,027	26.84
Other employment	31,392	70.89	33,994	71.35	35,720	73.03	35,508	73.16
Total employment	44,283	100.00	47,644	100.00	48,910	100.00	48,535	100.00

TABLE C3. AGRICULTURAL-RELATED EMPLOYMENT BY CATEGORY, NONAGRICULTURAL EMPLOYMENT, AND TOTAL EMPLOYMENT, BY COUNTY, STATE REGION 3, SELECTED YEARS 1975-1988

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Benson County-----								
Ag input industries	102	3.28	115	4.16	85	2.96	67	2.34
Farm proprietors, farm W & S, ag services	1,272	40.86	1,071	38.72	954	33.23	886	31.00
Ag processing and marketing	217	6.97	88	3.18	53	1.85	68	2.38
Farm-related wholesale & retail trade	162	5.20	160	5.78	134	4.67	131	4.58
Indirect agribusiness	9	0.29	8	0.29	6	0.21	14	0.49
Total farm & farm-related employment	1,762	56.60	1,442	52.13	1,232	42.91	1,166	40.80
Other employment	1,351	43.40	1,324	47.87	1,639	57.09	1,692	59.20
Total employment	3,113	100.00	2,766	100.00	2,871	100.00	2,858	100.00
-----Cavalier County-----								
Ag input industries	61	1.52	98	2.78	74	2.24	84	2.50
Farm proprietors, farm W & S, ag services	1,325	33.10	1,313	37.18	1,188	35.93	1,107	32.89
Ag processing and marketing	60	1.50	87	2.46	72	2.18	88	2.61
Farm-related wholesale & retail trade	241	6.02	271	7.67	345	10.44	325	9.66
Indirect agribusiness	22	0.55	8	0.23	19	0.57	56	1.66
Total farm & farm-related employment	1,709	42.69	1,777	50.33	1,698	51.36	1,660	49.32
Other employment	2,294	57.31	1,754	49.67	1,608	48.64	1,706	50.68
Total employment	4,003	100.00	3,531	100.00	3,306	100.00	3,366	100.00
-----Eddy County-----								
Ag input industries	43	2.97	78	4.97	45	2.85	31	2.15
Farm proprietors, farm W & S, ag services	514	35.47	530	33.76	471	29.79	436	30.24
Ag processing and marketing	18	1.24	10	0.64	31	1.96	7	0.49
Farm-related wholesale & retail trade	102	7.04	66	4.20	77	4.87	105	7.28
Indirect agribusiness	5	0.35	14	0.89	21	1.33	8	0.55
Total farm & farm-related employment	682	47.07	698	44.46	645	40.80	587	40.71
Other employment	767	52.93	872	55.54	936	59.20	855	59.29
Total employment	1,449	100.00	1,570	100.00	1,581	100.00	1,442	100.00
-----Ramsey County-----								
Ag input industries	116	1.96	103	1.59	104	1.45	97	1.36
Farm proprietors, farm W & S, ag services	1,039	17.52	1,049	16.17	971	13.53	886	12.41
Ag processing and marketing	97	1.64	119	1.83	94	1.31	78	1.09
Farm-related wholesale & retail trade	746	12.58	671	10.35	885	12.33	889	12.45
Indirect agribusiness	39	0.66	51	0.79	115	1.60	61	0.85
Total farm & farm-related employment	2,037	34.35	1,993	30.73	2,169	30.22	2,011	28.17
Other employment	3,893	65.65	4,493	69.27	5,009	69.78	5,128	71.83
Total employment	5,930	100.00	6,486	100.00	7,178	100.00	7,139	100.00

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TABLE C3. (CONTINUED)

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Rollette County-----								
Ag input industries	43	1.06	87	2.16	32	0.70	35	0.91
Farm proprietors, farm W & S, ag services	739	18.19	753	18.70	694	15.08	659	17.15
Ag processing and marketing	19	0.47	20	0.50	12	0.26	15	0.39
Farm-related wholesale & retail trade	156	3.84	268	6.66	260	5.65	265	6.90
Indirect agribusiness	6	0.15	8	0.20	15	0.33	15	0.39
Total farm & farm-related employment	963	23.71	1,136	28.21	1,013	22.02	989	25.74
Other employment	3,099	76.29	2,891	71.79	3,588	77.98	2,853	74.26
Total employment	4,062	100.00	4,027	100.00	4,601	100.00	3,842	100.00
-----Towner County-----								
Ag input industries	39	2.01	82	3.97	41	2.06	31	1.45
Farm proprietors, farm W & S, ag services	881	45.46	815	39.41	747	37.44	691	32.29
Ag processing and marketing	41	2.12	42	2.03	209	10.48	256	11.96
Farm-related wholesale & retail trade	135	6.97	105	5.08	103	5.16	180	8.41
Indirect agribusiness	11	0.57	8	0.39	8	0.40	7	0.33
Total farm & farm-related employment	1,107	57.12	1,052	50.87	1,108	55.54	1,165	54.55
Other employment	831	42.88	1,016	49.13	887	44.46	975	45.56
Total employment	1,938	100.00	2,068	100.00	1,995	100.00	2,140	100.00
-----State Region 3-----								
Ag input industries	404	1.97	563	2.75	381	1.77	345	1.66
Farm proprietors, farm W & S, ag services	5,770	28.15	5,531	27.05	5,025	23.34	4,665	22.44
Ag processing and marketing	452	2.21	366	1.79	471	2.19	512	2.46
Farm-related wholesale & retail trade	1,542	7.52	1,541	7.54	1,804	8.38	1,895	9.12
Indirect agribusiness	92	0.45	97	0.47	184	0.85	161	0.77
Total farm & farm-related employment	8,260	40.30	8,098	39.60	7,865	36.53	7,578	36.46
Other employment	12,235	59.70	12,350	60.40	13,667	63.47	13,209	63.54
Total employment	20,495	100.00	20,448	100.00	21,532	100.00	20,787	100.00

TABLE C4. AGRICULTURAL-RELATED EMPLOYMENT BY CATEGORY, NONAGRICULTURAL EMPLOYMENT, AND TOTAL EMPLOYMENT, BY COUNTY, STATE REGION 4, SELECTED YEARS 1975-1988

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Grand Forks County-----								
Ag input industries	155	0.51	240	0.70	261	0.69	234	0.57
Farm proprietors, farm W & S, ag services	1,774	5.87	1,747	5.08	1,548	4.07	1,455	3.57
Ag processing and marketing	938	3.10	563	1.64	813	2.14	1,131	2.77
Farm-related wholesale & retail trade	2,423	8.02	3,434	9.98	3,679	9.67	4,133	10.14
Indirect agribusiness	270	0.89	339	0.98	345	0.91	422	1.04
Total farm & farm-related employment	5,560	18.40	6,323	18.37	6,646	17.47	7,375	18.09
Other employment	24,650	81.60	28,095	81.63	31,388	82.53	33,389	81.91
Total employment	30,210	100.00	34,418	100.00	38,034	100.00	40,764	100.00
-----Nelson County-----								
Ag input industries	68	2.68	136	5.28	84	3.38	85	3.57
Farm proprietors, farm W & S, ag services	936	36.88	909	35.30	827	33.27	772	32.40
Ag processing and marketing	83	3.27	86	3.34	171	6.88	85	3.57
Farm-related wholesale & retail trade	258	10.17	155	6.02	117	4.71	140	5.87
Indirect agribusiness	7	0.28	2	0.08	5	0.20	3	0.13
Total farm & farm-related employment	1,352	53.27	1,288	50.02	1,204	48.43	1,085	45.53
Other employment	1,186	46.73	1,287	49.98	1,282	51.57	1,298	54.47
Total employment	2,538	100.00	2,575	100.00	2,486	100.00	2,383	100.00
-----Pembina County-----								
Ag input industries	98	2.09	106	2.00	74	1.46	92	1.81
Farm proprietors, farm W & S, ag services	1,537	32.74	1,536	28.93	1,374	27.16	1,266	24.96
Ag processing and marketing	214	4.56	462	8.70	262	5.18	134	2.64
Farm-related wholesale & retail trade	432	9.20	502	9.46	473	9.35	439	8.65
Indirect agribusiness	14	0.30	15	0.28	14	0.28	12	0.24
Total farm & farm-related employment	2,295	48.89	2,621	49.37	2,197	43.43	1,943	38.30
Other employment	2,399	51.11	2,688	50.63	2,862	56.57	3,130	61.70
Total employment	4,694	100.00	5,309	100.00	5,059	100.00	5,073	100.00

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TABLE C4. (CONTINUED)

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Walsh County-----								
Ag input industries	245	3.25	221	3.00	205	2.51	218	2.58
Farm proprietors, farm W & S, ag services	1,950	25.84	1,761	23.91	1,613	19.74	1,401	16.58
Ag processing and marketing	233	3.09	123	1.67	112	1.37	479	5.67
Farm-related wholesale & retail trade	640	8.48	679	9.22	626	7.66	838	9.92
Indirect agribusiness	81	1.07	102	1.38	96	1.17	100	1.18
Total farm & farm-related employment	3,149	41.73	2,886	39.18	2,652	32.45	3,036	35.92
Other employment	4,398	58.27	4,480	60.82	5,520	67.55	5,415	64.08
Total employment	7,547	100.00	7,366	100.00	8,172	100.00	8,451	100.00
-----State Region 4-----								
Ag input industries	566	1.26	703	1.42	634	1.18	629	1.11
Farm proprietors, farm W & S, ag services	6,197	13.77	5,953	11.99	5,362	9.98	4,894	8.64
Ag processing and marketing	1,468	3.26	1,234	2.48	1,358	2.53	1,829	3.23
Farm-related wholesale & retail trade	3,753	8.34	4,770	9.60	4,895	9.11	5,550	9.79
Indirect agribusiness	372	0.83	458	0.92	460	0.86	537	0.95
Total farm & farm-related employment	12,356	27.46	13,118	26.41	12,699	23.63	13,439	23.71
Other employment	32,633	72.54	36,550	73.59	41,052	76.37	43,232	76.29
Total employment	44,989	100.00	49,668	100.00	53,751	100.00	56,671	100.00

TABLE C5. AGRICULTURAL-RELATED EMPLOYMENT BY CATEGORY, NONAGRICULTURAL EMPLOYMENT, AND TOTAL EMPLOYMENT, BY COUNTY, STATE REGION 5, SELECTED YEARS 1975-1988

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Cass County-----								
Ag input industries	1,913	4.23	1,744	3.09	1,226	1.95	1,043	1.53
Farm proprietors, farm W & S, ag services	2,163	4.78	2,116	3.74	1,939	3.09	1,831	2.68
Ag processing and marketing	1,117	2.47	1,429	2.53	1,471	2.34	1,018	1.49
Farm-related wholesale & retail trade	4,831	10.67	5,702	10.09	7,171	11.42	8,093	11.84
Indirect agribusiness	652	1.44	705	1.25	858	1.37	986	1.44
Total farm & farm-related employment	10,676	23.59	11,696	20.69	12,665	20.16	12,971	18.98
Other employment	34,585	76.41	44,831	79.31	50,153	79.84	55,373	81.02
Total employment	45,261	100.00	56,527	100.00	62,818	100.00	68,344	100.00
-----Ransom County-----								
Ag input industries	74	2.89	83	3.01	39	1.46	20	0.72
Farm proprietors, farm W & S, ag services	781	30.54	743	26.93	686	25.74	637	22.94
Ag processing and marketing	38	1.49	77	2.79	45	1.69	53	1.91
Farm-related wholesale & retail trade	283	11.07	334	12.11	265	9.94	343	12.35
Indirect agribusiness	2	0.08	18	0.65	18	0.68	19	0.68
Total farm & farm-related employment	1,178	46.07	1,255	45.49	1,053	39.51	1,072	38.60
Other employment	1,379	53.93	1,504	54.51	1,612	60.49	1,705	61.40
Total employment	2,557	100.00	2,759	100.00	2,665	100.00	2,777	100.00
-----Richland County-----								
Ag input industries	367	4.66	542	6.11	440	4.79	278	2.97
Farm proprietors, farm W & S, ag services	1,921	24.40	1,829	20.61	1,645	17.90	1,540	16.45
Ag processing and marketing	466	5.92	371	4.18	256	2.79	389	4.15
Farm-related wholesale & retail trade	605	7.68	717	8.08	839	9.13	796	8.50
Indirect agribusiness	63	0.80	279	3.14	127	1.38	132	1.41
Total farm & farm-related employment	3,422	43.47	3,738	42.13	3,307	35.98	3,135	33.48
Other employment	4,451	56.53	5,135	57.87	5,884	64.02	6,228	66.52
Total employment	7,873	100.00	8,873	100.00	9,191	100.00	9,363	100.00
-----Sargent County-----								
Ag input industries	54	1.76	114	3.95	204	7.02	103	3.46
Farm proprietors, farm W & S, ag services	852	27.73	857	29.71	796	27.38	746	25.09
Ag processing and marketing	77	2.51	81	2.81	65	2.24	77	2.59
Farm-related wholesale & retail trade	167	5.44	184	6.38	122	4.20	165	5.55
Indirect agribusiness	0	0.00	6	0.21	36	1.24	38	1.28
Total farm & farm-related employment	1,150	37.43	1,242	43.05	1,223	42.07	1,129	37.98
Other employment	1,922	62.57	1,643	56.95	1,684	57.93	1,844	62.02
Total employment	3,072	100.00	2,885	100.00	2,907	100.00	2,973	100.00

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TABLE C5. (CONTINUED)

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Steele County-----								
Ag input industries	33	2.06	25	1.79	19	1.40	6	0.49
Farm proprietors, farm W & S, ag services	776	48.47	704	50.39	617	45.57	572	46.62
Ag processing and marketing	54	3.37	85	6.08	67	4.95	78	6.36
Farm-related wholesale & retail trade	14	0.87	37	2.65	25	1.85	23	1.87
Indirect agribusiness	7	0.44	6	0.43	7	0.52	6	0.49
Total farm & farm-related employment	884	55.22	857	61.35	735	54.28	685	55.83
Other employment	717	44.78	540	38.65	619	45.72	542	44.17
Total employment	1,601	100.00	1,397	100.00	1,354	100.00	1,227	100.00
-----Traill County-----								
Ag input industries	92	2.18	101	2.21	78	1.74	72	1.56
Farm proprietors, farm W & S, ag services	1,204	28.56	1,143	25.07	982	21.87	905	19.59
Ag processing and marketing	380	9.02	561	12.30	393	8.75	472	10.22
Farm-related wholesale & retail trade	377	8.94	297	6.51	349	7.77	432	9.35
Indirect agribusiness	2	0.05	21	0.46	44	0.98	50	1.08
Total farm & farm-related employment	2,055	48.75	2,123	46.56	1,846	41.11	1,931	41.81
Other employment	2,160	51.25	2,437	53.44	2,644	58.89	2,688	58.19
Total employment	4,215	100.00	4,560	100.00	4,490	100.00	4,619	100.00
-----State Region 5-----								
Ag input industries	2,533	3.92	2,609	3.39	2,006	2.40	1,522	1.70
Farm proprietors, farm W & S, ag services	7,697	11.92	7,392	9.60	6,665	7.99	6,231	6.98
Ag processing and marketing	2,132	3.30	2,604	3.38	2,297	2.75	2,147	2.40
Farm-related wholesale & retail trade	6,277	9.72	7,271	9.44	8,771	10.51	9,852	11.03
Indirect agribusiness	726	1.12	1,035	1.34	1,090	1.31	1,231	1.38
Total farm & farm-related employment	19,365	29.99	20,911	27.16	20,829	24.97	20,923	23.43
Other employment	45,214	70.01	56,090	72.84	62,596	75.03	68,380	76.57
Total employment	64,579	100.00	77,001	100.00	83,425	100.00	89,303	100.00

TABLE C6. AGRICULTURAL-RELATED EMPLOYMENT BY CATEGORY, NONAGRICULTURAL EMPLOYMENT, AND TOTAL EMPLOYMENT, BY COUNTY, STATE REGION 6, SELECTED YEARS 1975-1988

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Barnes County-----								
Ag input industries	87	1.42	145	2.18	144	2.24	150	2.17
Farm proprietors, farm W & S, ag services	1,606	26.25	1,427	21.43	1,270	19.76	1,178	17.04
Ag processing and marketing	76	1.24	121	1.82	70	1.09	74	1.07
Farm-related wholesale & retail trade	542	8.86	662	9.94	647	10.07	735	10.63
Indirect agribusiness	49	0.80	58	0.87	35	0.54	45	0.65
Total farm & farm-related employment	2,360	38.57	2,413	36.24	2,166	33.70	2,182	31.56
Other employment	3,759	61.43	4,245	63.76	4,262	66.30	4,731	68.44
Total employment	6,119	100.00	6,658	100.00	6,428	100.00	6,913	100.00
-----Dickey County-----								
Ag input industries	80	2.48	121	3.63	58	1.79	39	1.24
Farm proprietors, farm W & S, ag services	953	29.51	875	26.28	782	24.09	725	22.97
Ag processing and marketing	199	6.16	62	1.86	78	2.40	69	2.19
Farm-related wholesale & retail trade	259	8.02	298	8.95	308	9.49	340	10.77
Indirect agribusiness	20	0.62	35	1.05	13	0.40	14	0.44
Total farm & farm-related employment	1,511	46.79	1,391	41.77	1,239	38.17	1,187	37.61
Other employment	1,718	53.21	1,939	58.23	2,007	61.83	1,969	62.39
Total employment	3,229	100.00	3,330	100.00	3,246	100.00	3,156	100.00
-----Foster County-----								
Ag input industries	100	4.79	116	5.35	90	4.27	98	4.56
Farm proprietors, farm W & S, ag services	504	24.13	483	22.26	430	20.39	404	18.82
Ag processing and marketing	64	3.06	81	3.73	66	3.13	98	4.56
Farm-related wholesale & retail trade	181	8.66	212	9.77	176	8.35	177	8.24
Indirect agribusiness	10	0.48	7	0.32	8	0.38	8	0.37
Total farm & farm-related employment	859	41.12	899	41.43	770	36.51	785	36.56
Other employment	1,230	58.88	1,271	58.57	1,339	63.49	1,362	63.44
Total employment	2,089	100.00	2,170	100.00	2,109	100.00	2,147	100.00
-----Griggs County-----								
Ag input industries	256	13.76	81	4.72	51	3.15	42	2.55
Farm proprietors, farm W & S, ag services	667	35.84	665	38.78	612	37.85	577	35.03
Ag processing and marketing	38	2.04	51	2.97	40	2.47	34	2.06
Farm-related wholesale & retail trade	97	5.21	124	7.23	87	5.38	96	5.83
Indirect agribusiness	7	0.38	2	0.12	2	0.12	13	0.79
Total farm & farm-related employment	1,065	57.23	923	53.82	792	48.98	762	46.27
Other employment	796	42.77	792	46.18	825	51.02	885	53.73
Total employment	1,861	100.00	1,715	100.00	1,617	100.00	1,647	100.00

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TABLE C6. (CONTINUED)

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----LaMoure County-----								
Ag input industries	118	4.32	85	3.12	69	2.73	55	2.20
Farm proprietors, farm W & S, ag services	1,132	41.42	1,128	41.39	1,009	39.93	951	37.98
Ag processing and marketing	129	4.72	150	5.50	81	3.21	106	4.23
Farm-related wholesale & retail trade	119	4.35	122	4.48	136	5.38	150	5.99
Indirect agribusiness	2	0.07	15	0.55	1	0.04	5	0.20
Total farm & farm-related employment	1,500	54.88	1,500	55.05	1,296	51.29	1,267	50.60
Other employment	1,233	45.12	1,225	44.95	1,231	48.71	1,237	49.40
Total employment	2,733	100.00	2,725	100.00	2,527	100.00	2,504	100.00
-----Logan County-----								
Ag input industries	39	2.68	25	1.61	31	1.95	28	1.80
Farm proprietors, farm W & S, ag services	724	49.79	781	50.42	745	46.91	696	44.82
Ag processing and marketing	25	1.72	112	7.23	183	11.52	164	10.56
Farm-related wholesale & retail trade	87	5.98	82	5.29	55	3.46	66	4.25
Indirect agribusiness	7	0.48	2	0.13	16	1.01	15	0.97
Total farm & farm-related employment	882	60.66	1,002	64.69	1,030	64.86	969	62.40
Other employment	572	39.34	547	35.31	558	35.14	584	37.60
Total employment	1,454	100.00	1,549	100.00	1,588	100.00	1,553	100.00
-----McIntosh County-----								
Ag input industries	88	4.06	120	5.31	89	4.05	110	5.23
Farm proprietors, farm W & S, ag services	789	36.43	799	35.32	735	33.42	692	32.91
Ag processing and marketing	119	5.49	72	3.18	69	3.14	69	3.28
Farm-related wholesale & retail trade	157	7.25	154	6.81	169	7.69	164	7.80
Indirect agribusiness	11	0.51	8	0.35	6	0.27	10	0.48
Total farm & farm-related employment	1,164	53.74	1,153	50.97	1,068	48.57	1,045	49.69
Other employment	1,002	46.26	1,109	49.03	1,131	51.43	1,058	50.31
Total employment	2,166	100.00	2,262	100.00	2,199	100.00	2,103	100.00

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TABLE C6. (CONTINUED)

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Stutsman County-----								
Ag input industries	172	1.60	199	1.61	269	2.27	298	2.46
Farm proprietors, farm W & S, ag services	1,620	15.09	1,635	13.21	1,500	12.64	1,404	11.61
Ag processing and marketing	338	3.15	311	2.51	345	2.91	304	2.51
Farm-related wholesale & retail trade	886	8.25	1,355	10.95	1,104	9.30	1,224	10.12
Indirect agribusiness	92	0.86	163	1.32	167	1.41	163	1.35
Total farm & farm-related employment	3,108	28.95	3,663	29.60	3,385	28.52	3,393	28.06
Other employment	7,627	71.05	8,711	70.40	8,483	71.48	8,701	71.94
Total employment	10,735	100.00	12,374	100.00	11,868	100.00	12,094	100.00
-----Wells County-----								
Ag input industries	83	2.86	122	4.04	115	3.85	97	3.34
Farm proprietors, farm W & S, ag services	1,051	36.19	982	32.50	899	30.09	835	28.71
Ag processing and marketing	94	3.24	100	3.31	84	2.81	87	2.99
Farm-related wholesale & retail trade	193	6.65	223	7.38	286	9.57	236	8.12
Indirect agribusiness	13	0.45	38	1.26	17	0.57	17	0.58
Total farm & farm-related employment	1,434	49.38	1,465	48.48	1,401	46.89	1,272	43.74
Other employment	1,470	50.62	1,557	51.52	1,587	53.11	1,636	56.26
Total employment	2,904	100.00	3,022	100.00	2,988	100.00	2,908	100.00
-----State Region 6-----								
Ag input industries	1,023	3.07	1,014	2.83	916	2.65	917	2.62
Farm proprietors, farm W & S, ag services	9,046	27.17	8,775	24.51	7,982	23.09	7,462	21.30
Ag processing and marketing	1,082	3.25	1,060	2.96	1,016	2.94	1,005	2.87
Farm-related wholesale & retail trade	2,521	7.57	3,232	9.03	2,968	8.59	3,188	9.10
Indirect agribusiness	211	0.63	328	0.92	265	0.77	290	0.83
Total farm & farm-related employment	13,883	41.70	14,409	40.24	13,147	38.03	12,862	36.72
Other employment	19,407	58.30	21,396	59.76	21,423	61.97	22,163	63.28
Total employment	33,290	100.00	35,805	100.00	34,570	100.00	35,025	100.00

TABLE C7. AGRICULTURAL-RELATED EMPLOYMENT BY CATEGORY, NONAGRICULTURAL EMPLOYMENT, AND TOTAL EMPLOYMENT, BY COUNTY, STATE REGION 7, SELECTED YEARS 1975-1988

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Burleigh County-----								
Ag input industries	1,005	4.03	527	1.58	384	1.11	58	0.16
Farm proprietors, farm W & S, ag services	1,057	4.23	1,134	3.40	1,137	3.29	1,069	2.99
Ag processing and marketing	344	1.38	385	1.15	474	1.37	300	0.84
Farm-related wholesale & retail trade	2,044	8.19	3,563	10.69	3,348	9.67	3,494	9.78
Indirect agribusiness	253	1.01	296	0.89	346	1.00	415	1.16
Total farm & farm-related employment	4,703	18.84	5,905	17.71	5,689	16.44	5,336	14.93
Other employment	20,264	81.16	27,431	82.29	28,916	83.56	30,401	85.07
Total employment	24,967	100.00	33,336	100.00	34,605	100.00	35,737	100.00
-----Emmons County-----								
Ag input industries	29	1.21	49	2.01	44	1.78	32	1.36
Farm proprietors, farm W & S, ag services	1,088	45.22	1,092	44.70	999	40.31	934	39.59
Ag processing and marketing	94	3.91	90	3.68	153	6.17	123	5.21
Farm-related wholesale & retail trade	145	6.03	149	6.10	125	5.04	168	7.12
Indirect agribusiness	8	0.33	9	0.37	10	0.40	7	0.30
Total farm & farm-related employment	1,364	56.69	1,389	56.86	1,331	53.71	1,264	53.58
Other employment	1,042	43.31	1,054	43.14	1,147	46.29	1,095	46.42
Total employment	2,406	100.00	2,443	100.00	2,478	100.00	2,359	100.00
-----Grant County-----								
Ag input industries	30	1.70	21	1.19	9	0.50	5	0.29
Farm proprietors, farm W & S, ag services	945	53.69	898	50.91	834	46.26	773	44.79
Ag processing and marketing	28	1.59	16	0.91	10	0.55	24	1.39
Farm-related wholesale & retail trade	89	5.06	96	5.44	96	5.32	101	5.85
Indirect agribusiness	6	0.34	9	0.51	12	0.67	26	1.51
Total farm & farm-related employment	1,098	62.39	1,040	58.96	961	53.30	929	53.82
Other employment	662	37.61	724	41.04	842	46.70	797	46.18
Total employment	1,760	100.00	1,764	100.00	1,803	100.00	1,726	100.00
-----Kidder County-----								
Ag input industries	22	1.37	24	1.54	21	1.38	25	1.69
Farm proprietors, farm W & S, ag services	779	48.45	783	50.29	701	46.03	657	44.33
Ag processing and marketing	42	2.61	67	4.30	31	2.04	31	2.09
Farm-related wholesale & retail trade	44	2.74	53	3.40	73	4.79	67	4.52
Indirect agribusiness	6	0.37	9	0.58	10	0.66	8	0.54
Total farm & farm-related employment	893	55.53	936	60.12	836	54.89	788	53.17
Other employment	715	44.47	621	39.88	687	45.11	694	46.83
Total employment	1,608	100.00	1,557	100.00	1,523	100.00	1,482	100.00

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TABLE C7. (CONTINUED)

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----McLean County-----								
Ag input industries	126	3.10	169	3.64	159	3.33	158	3.48
Farm proprietors, farm W & S, ag services	1,562	38.40	1,496	32.21	1,382	28.98	1,307	28.76
Ag processing and marketing	103	2.53	131	2.82	60	1.26	53	1.17
Farm-related wholesale & retail trade	219	5.38	317	6.83	317	6.65	310	6.82
Indirect agribusiness	22	0.54	70	1.51	58	1.22	57	1.25
Total farm & farm-related employment	2,032	49.95	2,183	47.01	1,976	41.43	1,885	41.48
Other employment	2,036	50.05	2,461	52.99	2,793	58.57	2,659	58.52
Total employment	4,068	100.00	4,644	100.00	4,769	100.00	4,544	100.00
-----Mercer County-----								
Ag input industries	23	0.92	28	0.78	12	0.22	12	0.25
Farm proprietors, farm W & S, ag services	736	29.37	696	19.28	642	11.95	602	12.42
Ag processing and marketing	68	2.71	58	1.61	44	0.82	28	0.58
Farm-related wholesale & retail trade	122	4.87	322	8.92	431	8.02	378	7.80
Indirect agribusiness	2	0.08	17	0.47	16	0.30	10	0.21
Total farm & farm-related employment	951	37.95	1,121	31.05	1,145	21.31	1,030	21.25
Other employment	1,555	62.05	2,489	68.95	4,229	78.69	3,816	78.75
Total employment	2,506	100.00	3,610	100.00	5,374	100.00	4,846	100.00
-----Morton County-----								
Ag input industries	314	4.08	163	1.66	139	1.32	146	1.42
Farm proprietors, farm W & S, ag services	1,271	16.52	1,282	13.07	1,203	11.44	1,114	10.85
Ag processing and marketing	211	2.74	334	3.41	427	4.06	489	4.76
Farm-related wholesale & retail trade	680	8.84	869	8.86	885	8.41	858	8.36
Indirect agribusiness	51	0.66	132	1.35	149	1.42	214	2.08
Total farm & farm-related employment	2,527	32.85	2,780	28.35	2,803	26.65	2,821	27.47
Other employment	5,166	67.15	7,025	71.65	7,716	73.35	7,447	72.53
Total employment	7,693	100.00	9,805	100.00	10,519	100.00	10,268	100.00
-----Oliver County-----								
Ag input industries	0	0.00	0	0.00	0	0.00	5	0.43
Farm proprietors, farm W & S, ag services	467	61.21	464	49.89	416	43.02	385	32.96
Ag processing and marketing	0	0.00	0	0.00	0	0.00	3	0.26
Farm-related wholesale & retail trade	41	5.37	53	5.70	48	4.96	64	5.48
Indirect agribusiness	0	0.00	0	0.00	0	0.00	3	0.26
Total farm & farm-related employment	508	66.58	517	55.59	464	47.98	460	39.38
Other employment	255	33.42	413	44.41	503	52.02	708	60.62
Total employment	763	100.00	930	100.00	967	100.00	1,168	100.00

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TABLE C7. (CONTINUED)

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Sheridan County-----								
Ag input industries	23	1.91	77	6.51	30	2.72	20	1.94
Farm proprietors, farm W & S, ag services	665	55.23	615	51.99	562	50.95	520	50.44
Ag processing and marketing	19	1.58	28	2.37	26	2.36	26	2.52
Farm-related wholesale & retail trade	48	3.99	30	2.54	50	4.53	50	4.85
Indirect agribusiness	2	0.17	2	0.17	2	0.18	2	0.19
Total farm & farm-related employment	757	62.87	752	63.57	670	60.74	618	59.94
Other employment	447	37.13	431	36.43	433	39.26	413	40.06
Total employment	1,204	100.00	1,183	100.00	1,103	100.00	1,031	100.00
-----Sioux County-----								
Ag input industries	0	0.00	8	0.82	0	0.00	0	0.00
Farm proprietors, farm W & S, ag services	309	29.01	308	31.59	286	29.51	265	28.07
Ag processing and marketing	19	1.78	24	2.46	44	4.54	31	3.28
Farm-related wholesale & retail trade	31	2.91	45	4.62	37	3.82	59	6.25
Indirect agribusiness	0	0.00	0	0.00	0	0.00	0	0.00
Total farm & farm-related employment	359	33.71	385	39.49	367	37.87	355	37.61
Other employment	706	66.29	590	60.51	602	62.13	589	62.39
Total employment	1,065	100.00	975	100.00	969	100.00	944	100.00
-----State Region 7-----								
Ag input industries	1,572	3.27	1,066	1.77	798	1.24	461	0.72
Farm proprietors, farm W & S, ag services	8,879	18.48	8,768	14.55	8,162	12.73	7,626	11.90
Ag processing and marketing	928	1.93	1,133	1.88	1,269	1.98	1,108	1.73
Farm-related wholesale & retail trade	3,463	7.21	5,497	9.12	5,410	8.44	5,549	8.66
Indirect agribusiness	350	0.73	544	0.90	603	0.94	742	1.16
Total farm & farm-related employment	15,192	31.62	17,008	28.23	16,242	25.33	15,486	24.16
Other employment	32,848	68.38	43,239	71.77	47,868	74.67	48,619	75.84
Total employment	48,040	100.00	60,247	100.00	64,110	100.00	64,105	100.00

TABLE C8. AGRICULTURAL-RELATED EMPLOYMENT BY CATEGORY, NONAGRICULTURAL EMPLOYMENT, AND TOTAL EMPLOYMENT, BY COUNTY, STATE REGION 8, SELECTED YEARS 1975-1988

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Adams County-----								
Ag input industries	43	2.37	35	2.05	28	1.55	21	1.15
Farm proprietors, farm W & S, ag services	617	34.03	521	30.47	463	25.68	432	23.67
Ag processing and marketing	75	4.14	53	3.10	43	2.38	37	2.03
Farm-related wholesale & retail trade	150	8.27	140	8.19	158	8.76	162	8.88
Indirect agribusiness	11	0.61	11	0.64	12	0.67	0	0.00
Total farm & farm-related employment	896	49.42	760	44.44	704	39.05	652	35.73
Other employment	917	50.58	950	55.56	1,099	60.95	1,173	64.27
Total employment	1,813	100.00	1,710	100.00	1,803	100.00	1,825	100.00
-----Billings County-----								
Ag input industries	0	0.00	0	0.00	0	0.00	0	0.00
Farm proprietors, farm W & S, ag services	328	67.91	359	60.64	327	52.49	302	52.61
Ag processing and marketing	0	0.00	0	0.00	0	0.00	0	0.00
Farm-related wholesale & retail trade	14	2.90	35	5.91	14	2.25	14	2.44
Indirect agribusiness	0	0.00	0	0.00	1	0.16	0	0.00
Total farm & farm-related employment	342	70.81	394	66.55	342	54.90	316	55.05
Other employment	141	29.19	198	33.45	281	45.10	258	44.95
Total employment	483	100.00	592	100.00	623	100.00	574	100.00
-----Bowman County-----								
Ag input industries	48	2.39	68	2.92	24	1.13	25	1.21
Farm proprietors, farm W & S, ag services	519	25.80	564	24.20	525	24.72	491	23.70
Ag processing and marketing	74	3.68	34	1.46	73	3.44	45	2.17
Farm-related wholesale & retail trade	207	10.29	244	10.47	193	9.09	226	10.91
Indirect agribusiness	23	1.14	23	0.99	30	1.41	0	0.00
Total farm & farm-related employment	871	43.29	933	40.03	845	39.78	787	37.98
Other employment	1,141	56.71	1,398	59.97	1,279	60.22	1,285	62.02
Total employment	2,012	100.00	2,331	100.00	2,124	100.00	2,072	100.00
-----Dunn County-----								
Ag input industries	30	1.88	43	2.05	33	1.71	48	2.74
Farm proprietors, farm W & S, ag services	967	60.74	1,017	48.41	939	48.70	885	50.60
Ag processing and marketing	28	1.76	17	0.81	28	1.45	19	1.09
Farm-related wholesale & retail trade	48	3.02	126	6.00	123	6.38	81	4.63
Indirect agribusiness	0	0.00	0	0.00	14	0.73	15	0.86
Total farm & farm-related employment	1,073	67.40	1,203	42.74	1,137	58.97	1,048	59.92
Other employment	519	32.60	898	42.74	791	41.03	701	40.08
Total employment	1,592	100.00	2,101	100.00	1,928	100.00	1,749	100.00

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TABLE C8. (CONTINUED)

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----Golden Valley County-----								
Ag input industries	31	2.80	43	3.39	40	3.26	57	4.73
Farm proprietors, farm W & S, ag services	371	33.54	395	30.43	350	28.52	328	27.22
Ag processing and marketing	38	3.44	30	2.31	31	2.53	31	2.57
Farm-related wholesale & retail trade	44	3.98	80	6.16	109	8.88	111	9.21
Indirect agribusiness	7	0.63	14	1.08	7	0.57	0	0.00
Total farm & farm-related employment	491	44.39	563	43.37	537	43.77	527	43.73
Other employment	615	55.61	735	56.63	690	56.23	678	56.27
Total employment	1,106	100.0	1,298	100.00	1,227	100.00	1,205	100.00
-----Hettinger County-----								
Ag input industries	45	2.38	78	4.04	63	3.44	59	3.49
Farm proprietors, farm W & S, ag services	805	42.53	744	38.55	675	36.84	623	36.84
Ag processing and marketing	59	3.12	41	2.12	41	2.24	28	1.66
Farm-related wholesale & retail trade	119	6.29	79	4.09	78	4.26	107	6.33
Indirect agribusiness	5	0.26	5	0.26	8	0.44	2	0.12
Total farm & farm-related employment	1,033	54.57	947	49.07	865	47.22	819	48.43
Other employment	860	45.43	983	50.93	967	52.78	872	51.57
Total employment	1,893	100.00	1,930	100.00	1,832	100.00	1,691	100.00
-----Slope County-----								
Ag input industries	0	0.00	0	0.00	81	11.79	67	12.14
Farm proprietors, farm W & S, ag services	451	75.29	424	76.40	384	55.90	354	64.13
Ag processing and marketing	0	0.00	0	0.00	0	0.00	0	0.00
Farm-related wholesale & retail trade	27	4.51	24	4.32	100	14.56	17	3.08
Indirect agribusiness	0	0.00	0	0.00	116	16.89	16	2.90
Total farm & farm-related employment	478	79.80	448	80.72	681	99.13	454	82.25
Other employment	121	20.20	107	19.28	6	0.87	98	17.75
Total employment	599	100.00	555	100.00	687	100.00	552	100.00
-----Stark County-----								
Ag input industries	112	1.42	168	1.26	121	0.92	117	0.97
Farm proprietors, farm W & S, ag services	1,143	14.46	1,134	8.48	1,027	7.78	946	7.85
Ag processing and marketing	341	4.32	274	2.05	248	1.88	220	1.83
Farm-related wholesale & retail trade	695	8.80	1,385	10.35	1,267	9.60	1,239	10.28
Indirect agribusiness	47	0.59	171	1.28	187	1.42	150	1.24
Total farm & farm-related employment	2,338	29.59	3,132	23.41	2,850	21.60	2,672	22.18
Other employment	5,564	70.41	10,247	76.59	10,343	78.40	9,377	77.82
Total employment	7,902	100.00	13,379	100.00	13,193	100.00	12,049	100.00

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TABLE C8. (CONTINUED)

Item	1975		1981		1985		1988	
	Employment	% of Total	Employment	% of Total	Employment	% of Total	Employment	% of Total
-----State Region 8-----								
Ag input industries	309	1.78	436	1.82	390	1.67	394	1.81
Farm proprietors, farm W & S, ag services	5,201	29.89	5,158	21.59	4,690	20.03	4,361	20.08
Ag processing and marketing	615	3.53	449	1.88	464	1.98	380	1.75
Farm-related wholesale & retail trade	1,304	7.49	2,113	8.84	2,042	8.72	1,957	9.01
Indirect agribusiness	93	0.53	224	0.94	375	1.60	183	0.84
Total farm & farm-related employment	7,522	43.23	8,380	35.07	7,961	34.00	7,275	33.50
Other employment	9,878	56.77	15,516	64.93	15,456	66.00	14,442	66.50
Total employment	17,400	100.00	23,896	100.00	23,417	100.00	21,717	100.00

