

Estimating North Dakota's Economic Base

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The economic base (a.k.a. basic sector activities) of a state or region comprises those activities that bring money into the state (i.e., through sales of goods or services to out-of-state markets). In North Dakota, these activities are predominately in six primary industries, as well as federal government outlays. The major primary industries are agriculture, manufacturing, coal mining and conversion, oil and gas exploration, extraction, and refining, tourism, and exported services. Agriculture includes receipts from sales of crops and livestock, as well as government farm commodity program payments, but excludes agricultural processing. Manufacturing includes agricultural processing, as well as other types of manufacturing. Tourism includes all expenditures by out-of-state visitors to North Dakota. Exported services includes a variety of telemarketing, data processing, customer support, and related activities which primarily serve markets outside North Dakota. Federal government outlays include federal government transfer payments as well as federally funded construction and payrolls.

The most current estimates of North Dakota's economic base are for the year 2008. Examination of these estimates for the period 1990 to 2008 (see attached tables) shows that, when expressed in current or nominal dollars, all components of the state's economic base grew from 1990 to 2008. Energy sectors experienced significant growth from 2004 to 2005 in response to the growing demand for energy worldwide. The oil exploration/extraction and refining sectors have continued to show growth through 2008. These sectors increased by 60 percent from 2007 to 2008, a period during which crude oil prices reached record levels. When the estimates are adjusted for inflation (converted to constant dollars), the state's economic base revenues increased by 19 percent from 2007 to 2008, and in the longer term (1990-2008) by 133 percent. All of the primary industries recorded growth during this period.

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North Dakota's Economic Base, 1990 - 2008

Year	Industry							Federal Payments	Total
	Agriculture	Manufac- turing	Coal Mining & Conversion	Oil Exp., Ext. & Refining	Tourism	Exported Services	All Primary Industries		
-----million current dollars-----									
1990	3,082.8	698.6	685.8	599.9	350.5	--	5,417.6	2,887.7	8,305.3
1995	3,450.0	1,014.4	815.4	505.9	810.1	--	6,595.8	3,678.1	10,273.9
2000	3,859.6	1,447.6	1,062.4	1,010.2	2,829.7	381.6	10,591.1	4,037.1	14,628.2
2004	4,557.9	1,773.1	1,140.5	1,380.5	3,358.3	920.3	13,130.6	5,321.4	18,452.0
2005	4,789.0	1,895.4	1,490.6	2,104.5	3,603.5	924.7	14,807.7	5,598.3	20,406.0
2006	4,433.8	1,982.6	1,559.3	2,736.4	3,783.6	1,023.6	15,519.3	5,439.5	20,958.8
2007	5,883.0	2,077.8	1,573.7	3,352.8	3,961.5	1,068.1	17,916.9	5,920.1	23,837.0
2008	8,169.9	2,204.6	1,819.0	5,493.3	4,131.8	1,113.9	22,932.5	6,127.1	29,059.6
-----million constant 2008 dollars-----									
1990	4,631.6	1,049.6	1,030.3	901.3	526.6	--	8,139.4	4,338.5	12,477.9
1995	4,589.6	1,349.5	1,084.7	673.0	1,077.7	--	8,774.5	4,893.1	13,667.6
2000	4,722.9	1,771.4	1,300.0	1,236.2	3,462.7	467.0	12,960.2	4,940.2	17,900.4
2004	5,109.2	1,987.6	1,278.4	1,547.5	3,764.5	1,031.6	14,718.8	5,965.0	20,683.8
2005	5,195.3	2,056.2	1,617.1	2,283.0	3,909.2	1,003.1	16,063.9	6,073.2	22,137.1
2006	4,657.8	2,082.8	1,638.1	2,874.7	3,974.8	1,075.3	16,303.5	5,714.4	22,017.9
2007	6,008.6	2,122.1	1,607.3	3,424.4	4,046.1	1,090.9	18,299.4	6,046.4	24,345.8
2008	8,169.9	2,204.6	1,819.0	5,493.3	4,131.8	1,113.9	22,932.5	6,127.1	29,059.6
Percent Change:									
2007-08	36.0	3.9	13.2	60.4	2.1	2.1	25.3	1.3	19.4
2000-08	73.0	24.5	39.9	344.4	19.3	138.5	76.9	24.0	62.3
1990-08	76.4	110.0	76.6	509.5	684.6	--	181.7	41.2	132.9

Source: F.L. Leistritz & R.C. Coon, Dept. of Agribusiness & Applied Economics, NDSU

North Dakota State Region 1's Economic Base, 1990 - 2008

Year	Industry							Federal Payments	Total
	Agriculture	Manufac- turing	Coal Mining & Conversion	Oil Exp., Ext. & Refining	Tourism	Exported Services	All Primary Industries		
-----million current dollars-----									
1990	124.7	23.1	0.1	441.0	19.3	--	608.2	97.1	705.3
1995	181.2	33.6	0.1	260.3	44.5	--	519.7	123.1	642.8
2000	177.0	47.9	0.1	389.4	155.6	11.3	781.3	133.5	914.8
2004	211.4	58.7	0.1	512.3	184.7	32.4	999.6	173.7	1,173.3
2005	222.8	62.7	0.1	720.5	198.1	34.8	1,239.0	183.3	1,422.3
2006	184.1	65.6	0.1	788.5	208.1	36.8	1,283.2	178.4	1,461.6
2007	287.4	68.8	0.1	1,076.3	217.9	37.4	1,687.9	193.8	1,881.7
2008	348.8	73.0	--	1,740.7	227.2	38.6	2,428.3	200.4	2,628.7
-----million constant 2008 dollars-----									
1990	187.3	34.7	0.2	662.6	29.0	--	913.8	145.9	1,059.7
1995	241.1	44.7	0.1	346.3	59.2	--	691.4	163.8	855.2
2000	216.6	58.6	0.1	476.5	190.4	13.8	956.0	163.4	1,119.4
2004	237.0	65.8	0.1	574.3	207.0	36.3	1,120.5	194.7	1,315.2
2005	241.7	68.0	0.1	781.6	214.9	37.8	1,344.1	198.9	1,543.0
2006	193.4	68.9	0.1	828.3	218.6	38.7	1,348.0	187.4	1,535.4
2007	293.5	70.3	0.1	1,099.3	222.6	38.2	1,724.0	197.9	1,921.9
2008	348.8	73.0	--	1,740.7	227.2	38.6	2,428.3	200.4	2,628.7
Percent Change:									
2007-08	18.8	3.8	--	58.3	2.1	1.0	40.9	1.3	36.8
2000-08	61.0	24.6	--	265.3	19.3	179.7	154.0	22.6	134.8
1990-08	86.2	110.4	--	162.7	683.4	--	165.7	37.4	148.1

Source: F.L. Leistritz & R.C. Coon, Dept. of Agribusiness & Applied Economics, NDSU

North Dakota State Region 2's Economic Base, 1990 - 2008

Year	Industry							Federal Payments	Total
	Agriculture	Manufac- turing	Coal Mining & Conversion	Oil Exp., Ext. & Refining	Tourism	Exported Services	All Primary Industries		
-----million current dollars-----									
1990	369.0	100.5	--	204.9	54.0	--	728.4	550.3	1,278.7
1995	475.3	145.9	--	113.9	124.8	--	859.9	700.7	1,560.6
2000	413.4	208.2	--	185.2	435.7	76.3	1,318.8	764.3	2,083.1
2004	560.6	255.0	--	258.6	517.2	213.3	1,804.7	1,009.3	2,814.0
2005	642.5	272.6	--	333.7	554.9	167.2	1,970.9	1,061.3	3,032.2
2006	536.6	285.1	--	431.5	582.7	187.1	2,023.0	1,030.8	3,053.8
2007	799.3	298.8	--	718.8	610.1	195.8	2,622.7	1,123.0	3,745.8
2008	1,150.0	317.0	--	3,278.5	636.3	217.0	5,598.8	1,162.8	6,761.6
-----million constant 2008 dollars-----									
1990	554.4	151.0	--	307.8	81.1	--	1,094.3	826.8	1,921.1
1995	632.3	194.1	--	151.5	166.0	--	1,143.9	932.2	2,076.1
2000	505.9	254.8	--	226.6	533.1	93.4	1,613.8	935.3	2,549.1
2004	628.4	285.8	--	289.9	579.8	239.1	2,023.0	1,131.4	3,154.4
2005	697.0	295.7	--	362.0	602.0	181.4	2,138.1	1,151.3	3,289.4
2006	563.7	299.5	--	453.3	612.1	196.6	2,125.2	1,082.9	3,208.1
2007	816.3	305.2	--	734.1	623.1	200.0	2,678.7	1,147.0	3,825.7
2008	1,150.0	317.0	--	3,278.5	636.3	217.0	5,598.8	1,162.8	6,761.6
Percent Change:									
2007-08	40.9	3.9	--	346.6	2.1	8.5	109.0	1.4	76.7
2000-08	127.3	24.4	--	1,346.8	19.4	132.3	246.9	24.3	165.3
1990-08	107.4	109.9	--	965.1	684.6	--	411.6	40.6	252.0

Source: F.L. Leistritz & R.C. Coon, Dept. of Agribusiness & Applied Economics, NDSU

North Dakota State Region 3's Economic Base, 1990 - 2008

Year	Industry							Federal Payments	Total
	Agriculture	Manufacturing	Coal Mining & Conversion	Oil Exp., Ext. & Refining	Tourism	Exported Services	All Primary Industries		
-----million current dollars-----									
1990	312.8	25.9	--	--	30.2	--	368.9	293.7	662.6
1995	325.4	37.5	--	--	69.6	--	432.5	374.1	806.6
2000	281.7	53.6	--	--	243.3	16.0	594.6	413.3	1,007.9
2004	408.9	65.6	--	--	288.8	16.1	779.4	545.8	1,325.2
2005	414.1	70.1	--	--	309.9	20.1	814.2	573.5	1,387.7
2006	444.2	73.4	--	--	325.3	20.4	863.3	557.1	1,420.4
2007	593.0	76.9	--	--	340.7	25.9	1,036.5	606.5	1,643.0
2008	1,035.7	81.6	--	--	355.4	28.1	1,500.8	628.0	2,128.8
-----million constant 2008 dollars-----									
1990	469.9	38.9	--	--	45.4	--	554.2	441.3	995.5
1995	432.9	49.9	--	--	92.6	--	575.4	497.7	1,073.1
2000	344.7	65.6	--	--	297.7	19.6	727.6	505.8	1,233.4
2004	458.4	73.5	--	--	323.7	18.1	873.7	611.8	1,485.5
2005	449.2	76.1	--	--	336.2	21.8	883.3	622.1	1,505.4
2006	466.7	77.1	--	--	341.7	21.4	906.9	585.3	1,492.2
2007	605.6	78.5	--	--	348.0	26.5	1,058.6	619.5	1,678.1
2008	1,035.7	81.6	--	--	355.4	28.1	1,500.8	628.0	2,128.8
Percent Change:									
2007-08	71.0	3.9	--	--	2.1	6.0	41.8	1.4	26.9
2000-08	200.5	24.4	--	--	19.4	43.4	106.3	24.2	72.6
1990-08	120.4	109.8	--	--	682.8	--	170.8	42.3	113.8

Source: F.L. Leistritz & R.C. Coon, Dept. of Agribusiness & Applied Economics, NDSU

North Dakota State Region 4's Economic Base, 1990 - 2008

Year	Industry							Federal Payments	Total
	Agriculture	Manufac- turing	Coal Mining & Conversion	Oil Exp., Ext. & Refining	Tourism	Exported Services	All Primary Industries		
-----million current dollars-----									
1990	452.0	129.7	--	--	48.0	--	629.7	557.1	1,186.8
1995	520.2	188.4	--	--	110.9	--	819.5	711.5	1,531.0
2000	633.7	268.8	--	--	387.7	10.2	1,300.4	782.8	2,083.2
2004	601.2	329.3	--	--	460.1	42.5	1,433.1	1,039.0	2,472.1
2005	549.0	352.0	--	--	493.7	51.7	1,446.4	1,091.3	2,537.7
2006	641.0	368.2	--	--	518.4	50.1	1,577.7	1,059.8	2,637.5
2007	710.8	385.8	--	--	542.7	57.3	1,696.6	1,155.2	2,851.8
2008	1,082.5	409.4	--	--	566.1	55.0	2,113.0	1,196.6	3,309.6
-----million constant 2008 dollars-----									
1990	679.1	194.9	--	--	72.1	--	946.1	837.0	1,783.1
1995	692.0	250.6	--	--	147.6	--	1,090.2	946.5	2,036.7
2000	775.5	328.9	--	--	474.4	12.5	1,591.3	957.9	2,549.2
2004	673.9	369.1	--	--	515.8	47.6	1,606.4	1,164.7	2,771.1
2005	595.6	381.8	--	--	535.6	56.1	1,569.1	1,183.9	2,753.0
2006	673.4	386.8	--	--	544.6	52.6	1,657.4	1,113.4	2,770.8
2007	726.0	394.0	--	--	554.3	58.5	1,732.8	1,179.9	2,912.7
2008	1,082.5	409.4	--	--	566.1	55.0	2,113.0	1,196.6	3,309.6
Percent Change:									
2007-08	49.1	3.9	--	--	2.1	-6.0	21.9	1.4	13.6
2000-08	39.6	24.5	--	--	19.3	340.0	32.8	24.9	29.8
1990-08	59.4	110.1	--	--	685.2	--	123.3	43.0	85.6

Source: F.L. Leistritz & R.C. Coon, Dept. of Agribusiness & Applied Economics, NDSU

North Dakota State Region 5's Economic Base, 1990 - 2008

Year	Industry							Federal Payments	Total
	Agriculture	Manufacturing	Coal Mining & Conversion	Oil Exp., Ext. & Refining	Tourism	Exported Services	All Primary Industries		
-----million current dollars-----									
1990	617.0	201.8	--	--	64.1	--	882.9	445.0	1,327.9
1995	641.5	292.9	--	--	148.3	--	1,082.7	569.2	1,651.9
2000	857.8	418.1	--	--	517.9	166.1	1,959.9	628.3	2,588.2
2004	893.5	512.1	--	--	614.5	369.5	2,389.6	832.8	3,222.4
2005	882.8	547.4	--	--	659.5	417.7	2,507.4	875.5	3,382.9
2006	964.2	572.6	--	--	692.4	483.3	2,712.5	850.2	3,562.7
2007	1,072.8	600.1	--	--	724.9	512.9	2,910.7	926.6	3,837.3
2008	1,724.1	636.7	--	--	756.1	498.6	3,615.5	959.5	4,575.0
-----million constant 2008 dollars-----									
1990	927.0	303.2	--	--	96.3	--	1,326.5	668.6	1,995.1
1995	853.4	389.7	--	--	197.3	--	1,440.4	757.2	2,197.6
2000	1,049.7	511.6	--	--	633.7	203.3	2,398.3	768.9	3,167.2
2004	1,001.6	574.0	--	--	688.8	414.2	2,678.6	933.5	3,612.1
2005	957.7	593.8	--	--	715.5	453.1	2,720.1	949.8	3,669.9
2006	1,012.9	601.5	--	--	727.4	507.7	2,849.5	893.2	3,742.7
2007	1,095.7	612.9	--	--	740.4	523.8	2,972.8	946.4	3,919.2
2008	1,724.1	636.7	--	--	756.1	498.6	3,615.5	959.5	4,575.0
Percent Change:									
2007-08	57.4	3.9	--	--	2.1	-4.8	21.6	1.4	16.7
2000-08	64.2	24.5	--	--	19.3	145.3	50.8	24.8	44.4
1990-08	86.0	110.0	--	--	685.2	--	172.6	43.5	129.3

Source: F.L. Leistritz & R.C. Coon, Dept. of Agribusiness & Applied Economics, NDSU,

North Dakota State Region 6's Economic Base, 1990 - 2008

Year	Industry							Federal Payments	Total
	Agriculture	Manufac- turing	Coal Mining & Conversion	Oil Exp., Ext. & Refining	Tourism	Exported Services	All Primary Industries		
-----million current dollars-----									
1990	632.2	62.0	--	--	50.1	--	735.3	268.7	1,004.0
1995	600.6	90.1	--	--	115.9	--	806.6	339.0	1,145.6
2000	686.8	128.5	--	--	404.7	22.8	1,242.8	375.3	1,618.1
2004	866.2	157.4	--	--	480.3	49.0	1,552.9	490.5	2,043.4
2005	954.1	168.3	--	--	515.3	34.8	1,672.5	515.2	2,187.7
2006	865.6	176.0	--	--	541.1	40.4	1,623.1	501.0	2,124.1
2007	1,198.9	184.5	--	--	566.5	51.0	2,000.9	543.9	2,544.8
2008	1,697.3	195.8	--	--	590.8	62.7	2,546.6	562.8	3,109.4
-----million constant 2008 dollars-----									
1990	936.3	93.1	--	--	75.3	--	1,104.7	403.7	1,508.4
1995	799.0	119.8	--	--	154.2	--	1,073.0	451.0	1,524.0
2000	840.4	157.3	--	--	495.2	27.9	1,520.8	459.3	1,980.1
2004	971.0	176.4	--	--	538.4	54.9	1,740.7	549.8	2,290.5
2005	1,035.0	182.6	--	--	559.0	37.8	1,814.4	558.9	2,373.3
2006	909.3	184.9	--	--	568.5	42.4	1,705.1	526.3	2,231.4
2007	1,224.5	188.4	--	--	578.6	52.1	2,043.6	555.5	2,599.1
2008	1,697.3	195.8	--	--	590.8	62.7	2,546.6	562.8	3,109.4
Percent Change:									
2007-08	38.6	3.9	--	--	2.1	20.3	24.6	1.3	19.6
2000-08	102.0	24.5	--	--	19.3	124.7	67.5	22.5	57.0
1990-08	81.3	110.3	--	--	684.6	--	130.5	39.4	106.1

Source: F.L. Leistritz & R.C. Coon, Dept. of Agribusiness & Applied Economics, NDSU

North Dakota State Region 7's Economic Base, 1990 - 2008

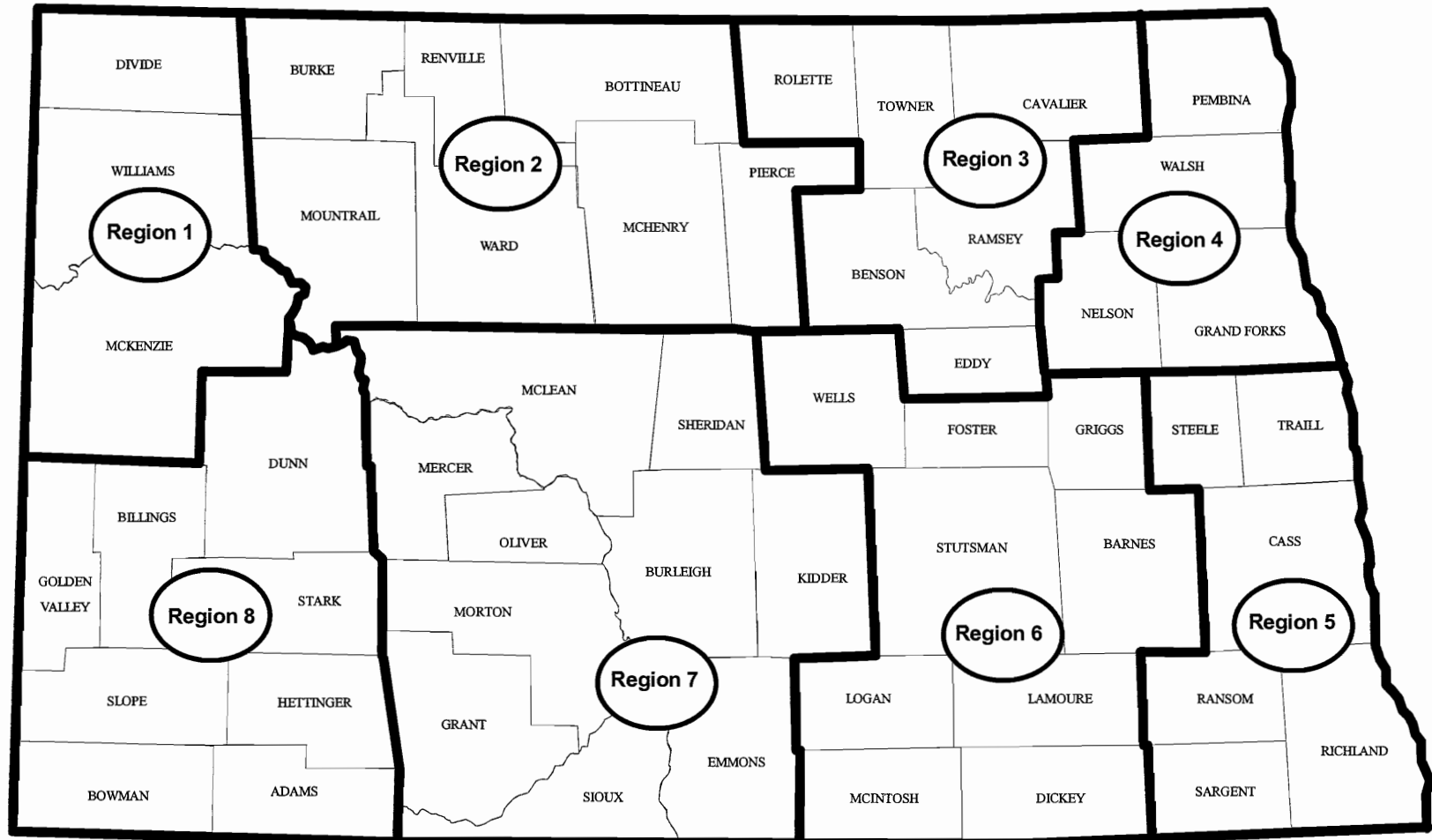
Year	Industry							Federal Payments	Total
	Agriculture	Manufac- turing	Coal Mining & Conversion	Oil Exp., Ext. & Refining	Tourism	Exported Services	All Primary Industries		
-----million current dollars-----									
1990	377.7	111.7	667.0	412.9	59.2	--	1,628.5	545.9	2,174.4
1995	436.3	162.2	794.7	345.3	136.9	--	1,875.4	697.0	2,572.4
2000	500.6	231.5	1,062.0	659.3	478.3	66.3	2,998.0	764.2	3,762.2
2004	678.4	283.5	1,139.4	883.9	567.5	177.9	3,730.6	1,003.1	4,733.7
2005	711.1	303.1	1,489.5	1,201.7	609.0	177.5	4,491.9	1,059.2	5,551.1
2006	483.2	317.0	1,557.7	1,440.7	639.5	182.1	4,620.2	1,029.7	5,649.9
2007	749.7	332.2	1,572.1	1,605.0	669.5	164.4	5,092.9	1,104.2	6,197.1
2008	791.4	352.5	1,817.4	2,122.7	698.3	189.7	5,972.0	1,156.2	7,128.2
-----million constant 2008 dollars-----									
1990	567.5	167.8	1,002.1	620.3	88.9	--	2,446.6	820.2	3,226.8
1995	580.4	215.8	1,057.2	459.4	182.1	--	2,494.9	927.2	3,442.1
2000	612.6	283.3	1,299.5	806.8	585.3	81.1	3,668.6	935.2	4,603.8
2004	760.5	317.8	1,277.2	990.8	636.1	199.4	4,181.8	1,124.4	5,306.2
2005	771.4	328.8	1,615.9	1,303.6	660.7	192.6	4,873.0	1,149.0	6,022.0
2006	507.7	333.0	1,636.4	1,513.5	671.8	191.3	4,853.7	1,081.7	5,935.4
2007	765.7	339.3	1,605.6	1,639.3	683.8	167.9	5,201.6	1,127.8	6,329.4
2008	791.4	352.5	1,817.4	2,122.7	698.3	189.7	5,972.0	1,156.2	7,128.2
Percent Change:									
2007-08	3.4	3.9	13.2	29.5	2.1	13.0	14.8	2.5	12.6
2000-08	29.2	24.4	39.9	163.1	19.3	133.9	62.8	23.6	54.8
1990-08	39.5	110.1	81.4	242.2	685.5	--	144.1	41.0	120.9

Source: F.L. Leistritz & R.C. Coon, Dept. of Agribusiness & Applied Economics, NDSU

North Dakota State Region 8's Economic Base, 1990 - 2008

Year	Industry							Federal Payments	Total
	Agriculture	Manufac- turing	Coal Mining & Conversion	Oil Exp., Ext. & Refining	Tourism	Exported Services	All Primary Industries		
-----million current dollars-----									
1990	206.4	43.9	18.7	267.4	25.6	--	562.0	129.9	691.9
1995	269.5	63.8	20.6	231.5	59.2	--	644.6	163.5	808.1
2000	308.6	91.0	0.3	530.7	206.5	12.6	1,149.7	175.4	1,325.1
2004	337.7	111.5	1.0	680.1	245.2	19.6	1,395.1	227.2	1,622.3
2005	412.6	119.2	1.0	1,152.9	263.1	20.9	1,969.7	239.0	2,208.7
2006	314.9	124.7	1.5	1,588.3	276.1	23.4	2,328.9	232.5	2,561.4
2007	471.1	130.7	1.5	1,957.2	289.2	23.4	2,873.1	252.4	3,125.5
2008	340.1	138.6	1.6	2,832.6	301.6	24.2	3,638.7	260.8	3,899.5
-----million constant 2008 dollars-----									
1990	310.1	66.0	28.1	401.7	38.5	--	844.4	195.1	1,039.5
1995	358.5	84.9	27.4	308.0	78.7	--	857.5	217.5	1,075.0
2000	377.6	111.4	0.4	649.4	252.7	15.4	1,406.9	214.6	1,621.5
2004	378.5	125.0	1.1	762.3	274.9	22.0	1,563.8	254.7	1,818.5
2005	447.6	129.3	1.1	1,250.7	285.4	22.7	2,136.8	259.3	2,396.1
2006	330.8	131.0	1.6	1,668.5	290.1	24.6	2,446.6	244.2	2,690.8
2007	481.1	133.5	1.5	1,999.0	295.4	23.9	2,934.4	257.8	3,192.2
2008	340.1	138.6	1.6	2,832.6	301.6	24.2	3,638.7	260.8	3,899.5
Percent Change:									
2007-08	-29.3	3.8	6.7	41.7	2.1	1.3	24.0	1.1	22.2
2000-08	-9.9	24.4	300.0	336.2	19.4	57.1	158.6	21.5	140.5
1990-08	9.7	110.0	-94.3	605.2	683.4	--	330.9	33.7	275.1

Source: F.L. Leistritz & R.C. Coon, Dept. of Agribusiness & Applied Economics, NDSU



North Dakota State Planning Regions