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Nebraska Economic Projections: Is A Recession Evident?

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Introduction

The most recent quarterly economic projections for Nebraska prepared by the Bureau of Business Research show that the current national recession is affecting the Nebraska economy only modestly. (The general definition of a national recession is two or more consecutive quarters of negative real Gross National Product (GNP). Real GNP is GNP adjusted for inflation).

Recent GNP figures indicate negative growth for the fourth quarter 1990. Consensus projections call for another decrease in the first quarter of 1991. Any predictions of the duration or depth of the present national recession are tenuous, at best, because of the Middle East crisis.

Opinion is divided about the direction of second quarter 1991 real GNP. If the national economy rebounds by midyear, Nebraska should escape any effects of the recession. A strong agricultural sector, especially the livestock industry, is propelling growth in other sectors of the state's economy. It is unclear, however, whether continued strength and support can be expected from agriculture.

Projections from the Quarterly Model

The Bureau of Business Research has been developing and refining a computerized economic projection model for Nebraska, the Nebraska quarterly forecasting model (NEQFM). This model has been operational for approximately six months. NEQFM is being used to assess the economy as well as to generate economic projections.

Some of the latest economic projections from the model are noted below. The complete projection series, including earnings, wages, and salary information is available from the Bureau of Business Research.

A more thorough explanation of how the NEQFM is constructed is presented on page 3.

Growth Impact of Recession

The latest BBR economic projections assume a short, shallow national recession and a return to growth by mid-1991. Any changes in the U.S. economic, political, or military scene (such as a longer and

RState Economic Scoreboard

Change from same month one year ago

	State	Metro+	Nonmetro
Motor Vehicle Sales	\bigcirc	\bigcirc	\bigcirc
(October) Constant \$	-7.0%	-12.0%	-2.5%
Nonmotor Vehicle Sales	\bigcirc		
(October) Constant \$	-1.0%	-1.7%	-0.2%
Building Activity (October) Constant \$	-5.8%	-15.3%	5.7%
Employment	Î		1
(December)	3.5%	1.4%	5.7%
Unemployment Rate*			
(December)	2.0%	1.7%	2.2%

+Omaha and Lincoln. *Unemployment is this month's rate, not a percent change from year ago

deeper recession or a rapid military Average annual total employment will and salaries and personal income than in continue to grow during 1991 and 1992. escalation) could change our projections employment. Total wages and salaries In 1992, employment will rise slightly to a certain extent. The projections show are expected to rise approximately 4.1

page 2

Year and Quarter Construction Mining 1990:1 1,320 22,704

1,632

1,704

a relatively flat but growing economy in

Nebraska during 1991 and 1992. Although

some sectors will be weak in the early

quarters of 1991, gains later in the year

will compensate for the slowdown.

Business in Nebraska

1990:2

1990:3

1992:2

1992:3

1992:4

1989

1990

1991

1992

25,748

26,663

more than 1.0 percent, resulting in an increase of about 7,100 jobs (computed from data in Table 1). Inflationary pressure will precipitate slightly higher rates of increase in wages Table 1

approximately 3.1 percent in 1991 and 4.2 percent in 1992 (computed from data in Table 2).

TCU

46,407

46,787

46,855

133,404

134.255

135,565

130,276

131,193

131,651

133,312

percent in 1991 and 3.9 percent in 1992.

Total personal income will increase

February 1991

Wholesale

Trade

54,085

55,414

55,348

741,607

740.187

749,384

705,672

725,009

731,434

738,540

Nebraska Quarterly Forecasting Model Nebraska Employment by Industry Durables Nondurables

Manufacturing

48,936

49,190

50,203

132,424

125,660

136,358

122,800

128,220

129,502

130,797

Manufacturing

46,763

46,965

46,689

1990:4	1,519	25,189	46,552	51,164	47,746	55,126
1991:1	1,332	21,796	46,062	50,154	46,901	54,474
1991:2	1,708	25,427	46,401	50,347	47,741	55,502
1991:3	1,831	27,474	46,306	50,829	48,380	55,555
1991:4	1,711	25,520	46,205	51,187	48,287	54,933
1992:1	1,450	21,215	45,966	50,107	47,506	54,294
1992:2	1,797	25,676	46,674	49,946	48,411	55,328
1992:3	1,894	27,710	46,730	50,634	48,984	55,386
1992:4	1,750	25,747	46,561	51,241	48,825	54,768
			Yearly Avera	π <u>α</u> ς		
1989	1,503	23,864	46,494	48,322	45,810	53,328
1990	1,544	25,076	46,742	49,873	46,949	54,993
1991	1,646	25,054	46,244	50,629	47,827	55,116
1992	1,723	25,087	46,483	50,482	48,432	54,944
Year and Quarter 1990:1 1990:2 1990:3 1990:4	FIRE 48,421 48,436 48,263 48,019	Services 169,951 174,125 173,920 175,914	Federal Government 17,704 *19,143 *19,278 18,501	State & Local Government 126,209 129,815 123,184 133,671	Retail Trade 129,567 130,761 130,966 133,479	Total Employment 712,067 728,016 723,073 736,880
1991:1	47,845	174,471	18,358	127,471	128,428	717,292
1991:2	48,335	177,606	18,481	131,113	131,596	734,259
1991:3	48,863	177,981	18,395	124,416	132,543	732,572
1991:4	48,662	177,831	18,235	135,008	134,035	741,613
1992:1	48,641	176,924	18,110	128,746	130,025	722,984

Source: Nebraska Department of Labor
TCU - Transportation, Communication, and Utilities

S

180,671

181,210

181,207

167,247

173,478

176,972

180,003

49,112

49.564

49,348

48,331

48,285

48,426

49,166

18,164

18,159

18,015

17,689

18,657

18,367

18,112

Yearly Averages

TCU FIRE - Finance, Insurance, and Real Estate

^{*}Increased employment in federal government during second and third quarters of 1990 were due to temporary census workers Numbers in shaded areas are projections

through 1991. Employment in durables

approximately 1.4 percent in 1991, while nonmotor vehicle retail sales will swell about 2.4 percent. Total retail sales will increase approximately 2.3 percent. In 1992, the growth rates for motor vehicle. nonmotor vehicle, and total retail sales

will be 4.0 percent, 3.9 percent, and 3.9

percent, respectively (computed from data

Table 1 shows that employment will

in Table 3).

The dollar volume of average motor

vehicle retail sales will increase

government, however, will decrease slightly. Most of the expected employment growth from 1990 through 1991 will be in the service sector.

manufacturing and the

The service sector is an important associate John Austin has noted that

service employment sailed through the

growth area. Nebraska's service sector largely has been unaffected by previous national recessions. UNL research for estimates. Thus, the projected employment decreases in the two sectors are not considered to be significant. The encouraging assessment of the impacts of the national recession on Nebraska's economy is reinforced by recent simulations (including some

Employment

manufacturing

in

and

government also will decrease slightly

from 1991 through 1992, according to the

projections in Table 1. The decreases will

be small and well within the error range

nondurables

the

increase in most sectors from 1990 two recent recessions virtually unscathed. Figure 1 How the Nebraska Nebraska Model Flow Chart **Economic** U.S. Macro Data & Forecasts **Quarterly Forecast** Model is Nebraska Employment by Industry Constructed Wages & Salaries by Industry Earnings by Industry Farm Proprietors' Income Personal Personal Income Contribution for Residential Social Security Adjustment Retail Sales

The NEQFM begins with a national forecast based upon a U.S. macromodel. We currently are using the services of the WEFA Group, one of the nation's leading forecasting associations, for the national forecast. Today's WEFA Group was formed by the merger of two forecasting firms-Chase Econometrics and Wharton EFA. The WEFA Group prepares quarterly short-term projections and annual long-term projections from large scale econometric models.

Links have been constructed from WEFA forecasts to the Nebraska economy. For example, employment in Nebraska by industry is linked directly to employment levels, by corresponding industries, at the U.S. level. Nebraska industry employment also is affected by seasonal factors that are constructed for each industry and by other special factors unique to the Nebraska data.

Once a forecast of Nebraska industry employment is determined, it becomes a principal element in determining wages and salaries for the industry. The other principal determinant is the Consumer Price Index (CPI). The CPI uniquely affects the wage levels in each industry. Once wages and salaries are estimated, earnings by industry can be estimated. The difference between earnings (a personal income concept) and wages and salaries is other labor income and proprietors' income. Special steps have been built into the model to make the transition from wages and salaries to personal income.

A submodel is used to estimate net taxable retail sales in Nebraska. There are two elements in the submodel: motor vehicle sales and nonmotor vehicle sales. (Food was dropped from taxable sales in October 1983.)

Table 2 **Nebraska Quarterly Forecasting Model** Nebraska Personal Income

				Personal Contribution	Dividends,			
	Other	Nonfarm	Farm	for Social	Interest,			Total
Year and	Labor	Proprietors'	Proprietors'	Insurance	and	Transfer	Residential	Personal
Quarter	Income	Income	Income	Income	Rent	Payments	Adjustment	Income
1990:1	1,281	2,312	2,334	1,465	4,578	3,831	-360	26,701
1990:2	1,314	2,334	1,919	1,480	4,597	3,851	-371	26,743
1990:3	1,331	2,354	1,280	1,502	4,644	3,906	-374	26,402
1990:4	1,357	2,357	1,610	1,506	4,649	3,955	-376	27,084
						4050	270	07.056
1991:1	1,365	2,354	1,549	1,543	4,743	4,053	-378	27,256
1991:2	1,370	2,382	1,739	1,555	4,748	4,083	-380	27,547
1991:3	1,378	2,422	1,435	1,570	4,832	4,123	-382	27,489
1991:4	1,394	2,471	1,575	1,587	4,913	4,161	-385	27,966
1992:1	1,414	2,523	1,428	1,628	4,994	4,251	-387	28,212
1992:1	1,423	2,580	1,595	1,645	5,077	4,293	-390	28,647
1992:2	1,439	2,640	1,333	1,664	5,181	4,345	-393	28,701
1992:3	1,459	2,701	1,401	1,684	5,297	4,396	-397	29,272
		<u>,</u>		Control of the state of the sta		100000000000000000000000000000000000000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				Yearly Total			4 205	00.540
1989	4,865	8,830	6,158	5,543	17,526	14,332	-1,387	99,542
1990	5,283	9,357	7,143	5,953	18,468	15,543	-1,481	106,930
1991	5,507	9,629	6,298	6,255	19,236	16,419	-1,525	110,258
1992	5,736	10,444	5,695	6,621	20,549	17,284	-1,567	114,832

Source: U.S. Bureau of Economic Analysis

Figures in \$ millions, seasonally adjusted at annual rates Numbers in shaded areas are projections

simulations conducted prior to the onset of the recession). Both the simulation analyses and the latest projections indicate slow but steady growth in employment,

wages and salaries, and personal income in Nebraska. To conclude, simulation analyses and current model projections show that the national recession will have isolated negative impacts on Nebraska's economy. The impacts appear to be relatively minor; the most troublesome effect will be a decrease in short-term growth rates. No significant downturn in Nebraska's overall economic activity resulting from the national recession is foreseen at this time. If the state's economy suffers a downturn, it likely will be due to either a downturn in the agricultural sector or longer than expected military involvement in the Middle East. A full scale land war with high casualties easily could alter the course of the national recession and have a greater negative impact on the state's economy.

Table 3

		rterly Forecasting Mode iska Retail Sales	1
Year and Quarter 1990:1 1990:2 1990:3	Motor Vehicle 120,744 141,206 135,989	Nonmotor Vehicle 839,201 909,897 898,476	Total Retail Sales 959,945 1,051,103 1,034,465
1990:4	111,222	952,430	1,063,652
1991:1 1991:2 1991:3 1991:4	120,865 137,030 135,740 122,426	849,209 923,564 934,057 980,939	970,074 1,060,594 1,069,798 1,103,364
1992:1 1992:2 1992:3 1992:4	127,589 140,853 140,426 127,574	882,299 957,805 971,212 1,019,415	1,009,888 1,098,658 1,111,637 1,146,989
	Y	early Totals	
1989 1990 1991 1992	504,181 509,161 516,061 536,442	3,381,267 3,600,004 3,687,769 3,830,731	3,885,448 4,109,165 4,203,830 4,367,172
Course Nobre	scho Department of Re	wanue	

Source: Nebraska Department of Revenue Figures in \$ thousands, monthly average over the quarter Numbers in shaded areas are projections

A Qualitative Look at the National Recession and its Impact on the Nebraska Economy

John S. Austin

Research Associate, Bureau of Business Research

Elsewhere in this issue, Sanath Jayanetti and Darnell Smith present a detailed quantitative forecast of the Nebraska economy. This article is designed to present qualitative aspects of the near-term outlook for the national economy and to draw some implications for the Nebraska economy.

War and the Economy

Since the last issue of *Business in Nebraska*, the U.S. and allied nations have taken military actions against Iraq. War events now dominate the outlook for the national economy. We will explore two war scenarios and their likely effects on the economy.

The Short-Shallow Scenario

The most optimistic scenario is the war will be short and oil supplies will remain stable worldwide. This scenario leads to a projection of a short-shallow recession. The short-shallow recession forecast was the consensus forecast before the war and is the one used to generate the latest Bureau of Business Research economic projections for Nebraska.

Even with a short-shallow recession, there will be some stimulus from increased defense purchases to replace spent conventional weapons. As an example, December durable goods orders increased 4.4 percent over November, mainly due to increases in military hardware orders.

One month, however, does not a trend make. It is reasonable to expect that defense spending will increase for at least the next several months. This spending may keep the durable goods orders from collapsing, as we might see normally during a recession.

Another feature of the short-shallow recession is that interest rates, especially short-term interest rates, will remain low. In mid-January, the Federal Reserve took Federal Funds rate, a primary indicator of Federal Reserve policy, is dropping again. On February 1, the Fed lowered the discount rate, the rate it charges banks for short-term loans, to 6 percent.

action to lower rates. Currently, the

The discount rate action should be viewed as an indicator of the Fed's intentions more than it should be viewed as a critically important interest rate. Little borrowing occurs at the discount rate. If oil supplies stabilize, it is possible that inflation will cool and that long-term interest rates will remain relatively low.

Low rates are good news for the economy. Another essential factor is the recovery of consumer confidence. In January, the Conference Board series on consumer confidence stood at 54. This figure represents a sharp decrease from the high of 110 in the first part of 1990. Increased consumer confidence is critical to a recovery in consumer spending, especially in such large items as automobile sales.

Stimulating consumer confidence to rebound to prewar levels will require an abundance of good news, both from the war front and from the economic front.

Even the optimistic, short-shallow recession scenario does not indicate that we will return to the rates of growth of prior decades. In the long run, we expect growth rates to be in the 2.5 percent to 3 percent area for the remainder of the 1990s. This range contrasts with the 3.5 percent growth rate that some economist regarded as optimal in the 1970s.

The Long War Scenario

The long war scenario brings a forecast for a long recession. Perhaps a worst case scenario would be an outcome similar to Korea... a war that extends for a year or more and ends in a stalemate. A long war more likely would result in damage to oil

facilities in Kuwait, Iraq, and Saudi Arabia. As a result of the supply disruptions, oil prices would increase sharply.

Oil price increases would raise costs principally in agriculture, manufacturing, transportation, and construction. These increased costs would work their way into the general price level of our nation's and the world's economies.

Rising oil prices and growing inflation rates would put upward pressure on long-term interest rates. Rising interest rates would dampen the prospect for increased spending in the investment sector, particularly in housing.

The longer the war, the more likely it becomes that we will see some military setbacks. These in turn make rebuilding consumer confidence more difficult.

Not all news from a long war scenario is bad for the economy. There is a stimulating impact from increased defense purchases. Some economic historians argue that the solution to the depression of the 1930s was the war of the early 1940s. Certainly there is no comparison in the likely size of the Iraqi conflict and World War II.

It is unlikely that increased defense purchases for the current wareffort would be able to offset major drops in consumer expenditures. In any event, we are not advocating war as a method to stimulate the economy. The human loss cannot be compared to any possible economic gain.

Commonalities in the Scenarios

There are some commonalities between the two different economic scenarios. In both cases, oil prices during the war likely will be volatile. Oil prices on the world markets tend to respond to the latest war news. For example, wholesale oil prices were \$18 per barrel for Texas crude intermediate before the

a high of \$41 a barrel in October.

Iraqi invasion in August. Oil prices reached

What is the most likely scenario? I

Oil price volatility has been the watchword since August, Price movement has been dominated by speculation. Even

though the shortfall in oil supply caused by Iraq and Kuwait losses has been offset, price changes in the wholesale markets have been dramatic.

Another commonality is that both scenarios include some stimulus due to the restocking of materials and supplies as well as the replacement of conventional weapons used in the war. Both restocking

and replacement will be determined by the extent of the war. The rebuilding of Kuwait after the war offers the prospect of some further stimulus to the American economy. Kuwait has

earmarked \$110 billion for infrastructure work. Several large American companies already have been approached by Kuwaiti officials to assist in rebuilding efforts. Last, both economic scenarios are

characterized by little hope for a rapidly growing economy once the recession ends. Instead, we most likely will return to moderate growth rates hovering around 2.5 percent in real terms.

Government

Military

Federal, Civilian

don't think anyone can make an intelligent guess at this point. Paying the War Bill

A major issue in the Middle East

conflict is how war costs will be paid. There has been some help from various allies in terms of dollar support for the war

effort, but there inevitably will be a bill left for the American public to pay. Conventional weapons and supplies are being used at unanticipated rates. The

revised estimate of the federal deficit for 1991 now exceeds \$300 billion. A large part of the revised estimate is due to increased war spending. The issue we must face is how we will pay for the deficit. In a sense, we can pay

for it now in the form of increased taxes or

we can pay for it later in terms of increased

inflation pressures. We experienced the latter following the Vietnam War. Large increases in spending for the war and for social programs were not matched by increases in taxes. The result was a buildup of inflationary pressures that did not cool

until after we had three recessions.

on the income tax structure may be the most likely alternative. It is a relatively easy way to raise taxes quickly. This method tends to minimize the debate over tax equity issues as well. More Recession Evidence

Many tax options are available. A surtax

In other economic news, the start of the

recession at the end of last year was verified by the release of the advance Gross National Product (GNP) report. GNP in the fourth quarter fell 2.1 percent. The exact timing of the start of the recession

will not be officially determined until after the recession is finished. Industrial production dropped 0.6 percent in December. Housing starts dropped in December to 987,000. That figure is extremely low. We must return to the depths of the 1981-1982 recession to

find housing starts that low.

3,396

528

421

3,354

516

412

3,557

561

421

2,576

3.635

579

424

2,633

As we suspected, retail sales were weak in December. Retail sales dropped 0.4 percent before adjustment for price changes. Retail sales for the year as a whole, 1990 over 1989, increased 3.6 percent. Using the Consumer Price Index

(CPI) as a rough guide to changes in retail

11.4

13.3

2.2

12.6

Table I Income and Earnings in Nebraska* (\$ millions)

	Third Quarter 1988	Fourth Quarter 1988	First Quarter 1989	Second Quarter 1989	Third Quarter 1989	Fourth Quarter 1989	First Quarter 1990	Second Quarter 1990	Third Quarter 1990	% Change 1990:III vs Yr Ago
	22.704	23 731	24 818	24 875	24 554	25 294	26.701	26,741	26,401	7.5
									24,947	6.8
							2,503	2,091	1,454	22.4
	1,120	1,	_,							
Ag. Services.										
Forestry & Fisheries	134	139	136	143						2.7
	59	58	56	54						13.2
	905	945	915	934						2.3
	2,410	2,438	2,484	2,482						4.2
	1,194	1,208	1,212	1,234						2.5
	1,216	1,230	1,272	1,248						5.9
	1,686	1,675	1,737	1,730						4.1
		1,295	1,310	1,327						7.9
	1,645	1,675	1,694	1,699	1,731					4.6
	1,216	1,211	1,242	1,254						10.5
	3,682	3,792	3,887	3,968				4,351		9.1
֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	Income Total Personal Income Nonfarm Farm Earnings by Industry** Ag. Services, Forestry & Fisheries Mining Construction Manufacturing Nondurable Durable TCU Wholesale Trade Retail Trade FIRE Services	Quarter 1988	Quarter 1988 1988	Quarter Quarter 1988 1988 1989	Quarter Quarter Quarter 1988 1989	Quarter Quarter Quarter Quarter Quarter 1988 1989	Quarter 1988 1989	Quarter Quarter Quarter Quarter 1988 1989 1889 18	Quarter 1988 1989 1989 1989 1989 1990 1990 1990 1990 1990 1980 1989 1888	Quarter Quarter Quarter 1988 1989 1989 1989 1989 1989 1989 1989 1990

3,256

506

417

3,264

511

415

2,446 2,333 2,338 2,426 2,264 State & Local 2,165 2,243 All data are seasonally adjusted at annual rates Earnings is the sum of wages and salaries, other labor income, and income earned by sole proprietors

3.185

501

420

3,133

486

404

Transportation, Communication, & Utilities Finance, Insurance, & Real Estate

3,048

480

404

Source: Bureau of Economic Analysis, U.S. Department of Commerce

prices, real retail sales dropped almost 2 percent.

Domestic auto production continued to suffer from low sales levels. The Big Three recently announced first quarter production cuts that will result in production levels that nearly match the low points of the last recession.

The unemployment rate in December rose to 6.1 percent and increased again to 6.2 percent in January. These increases came at the end of almost a vertical ascent that started in June 1990 when the unemployment rate stood at 5.2 percent. Each percentage point of the unemployment rate represents one million persons out of work.

Despite all the recession signals, personal income managed to rise 0.7 percent in December. In light of all bad news about the U.S. economy in December, it is difficult to tell how this feat occurred.

There was good news about inflation in December. The CPI rose 0.3 percent in December, while the Producer Price Index (PPI) dropped 0.6 percent in December. For the year as a whole, however, the CPI rose 5.4 percent and the PPI gained 4.9 percent.

California water shortages and the possibility of higher produce prices will be cause for concern at least until spring.

The food component of the CPI will see some increase as a result.

Nebraska Economy

One aspect of the current national economic conditions has a unique impact upon Nebraska. As a general rule, the agricultural cycle and the general business cycle are separate cycles that usually do not coincide. For example, the last recession ended in late 1982, while the agricultural cycle bottomed one year later in 1983. In the present recession, the agricultural cycle will be dropping at about the same time the nation's business cycle reaches its low.

States with large agricultural sectors may suffer from the agricultural downturn more than they will suffer from the recession itself. This most likely will be the case for Nebraska. Unless the recession is longer and deeper than most forecasters currently expect, the nonfarm sector of the Nebraska economy will see little impact from the national recession.

According to F.W. Dodge, the total value of construction contracts in 1990 was 15 percent higher than in 1989. Nonbuilding construction led the pack with an increase of 43 percent. Building construction increased only 7 percent for the year as a whole, with strength concentrated in residential building.

Agriculture

Residential construction activity gained 10 percent for the year.

Nebraska received some negative publicity on the release of the third quarter personal income figures developed by the Bureau of Economic Analysis in Washington, D.C. (Table I). Nebraska was one of the few states to show a drop from the second quarter to the third quarter of 1990. This drop was at an annual rate of 5.1 percent.

As usual, changes in Nebraska's personal income data are being driven by changes in the farm income block. Farm income exhibited a single quarter drop of 30 percent, at quarterly rates. Although these data are seasonally adjusted, the farm income series is particularly difficult to adjust. Changes in the timing of agricultural product marketings or the timing of federal government payments to agriculture will cause the net farm income series to jump in either direction.

Perhaps a better indicator is the nonfarm block. Nonfarm income rose 4.8 percent from the second to the third quarter 1990 (seasonally adjusted at annual rates). On the basis of a percentage change from year ago, nonfarm personal income rose 6.8 percent. In the mix of nonfarm income it is difficult to find weaknesses.

All of the sectors showed an increase from year ago levels, although nondurable

Table II Employment in Nebraska					
	Revised November 1990	Preliminary December 1990	December % Change vs. Year Ago		
Place of Work					
Nonfarm	741,094	735,551	2.6		
Manufacturing	97,335	97,647	1.6		
Durables	46,369	46,658	0.2		
Nondurables	50,966	50,989	3.0		
Mining	1,561	1,392	6.0		
Construction	25,483	24,002	5.8		
TCU*	47,665	48,246	3.2		
Trade	188,982	190,169	1.0		
Wholesale	55,114	54,969	1.6		
Retail	133,868	135,200	0.7		
FIRE**	48,019	48,123	-1.0		
Services	176,531	174,975	3.5		
Government	155,518	150,997	4.7		
Place of Residence	,	-,			
Civilian Labor Force	838,827	837,173	2.8		
Unemployment Rate	1.6	2.0			

* Transportation, Communication, and Utilities

** Finance, Insurance, and Real Estate

Source: Nebraska Department of Labor

Table III Price Indices							
Consumer Price Index - U* (1982-84 = 100)	December 1990	% Change vs. Year Ago	YTD % Change vs. Year Ago				
All Items	133.8	6.1	5.4				
Commodities	126.0	6.6	5.2				
Services	142.3	5.7	5.5				
Producer Price Index (1982 = 100) Finished Goods Intermediate Materials Crude Materials	121.9 116.7 110.5	5.7 4.2 6.3	5.0 2.2 5.8				
Ag Index of Prices Received	d						
(1977 = 100) Nebraska	154	-3.1	2.7				
Crops	109	-14.8	-8.6				
Livestock	182	1.1	8.1				
United States	145	-2.7	2.1				
Crops	122	-3.9	-3.9				
Livestock	166	-2.4	6.8				
U* = All urban consumers	g: .:	X7.1 1 1					
Source: U.S. Bureau of Labor Statistics, Nebraska Department of							

manufacturing and construction did exhibit a drop from the second quarter to the third quarter. We have addressed the issue of the quality of personal income data in a previous issue of Business in Nebraska.

Job increases continued to follow the trends for the last year and a half. Jobs increased 2.6 percent from December 1989 to December 1990. The pattern of job increases tends to characterize the Plains

states as well as Nebraska. Perhaps the one area where Nebraska is reflecting national trends is retail sales. Apparently, Nebraskans have shared in the nationwide collapse in consumer confidence. Retail sales excluding

automobiles grew 5.2 percent in October 1990. Total retail sales (including automobiles) increased 4.4 percent versus year ago. Thus, slow automobiles sales have retarded Nebraska's net retail sale figures. On a year-to-date basis, Nebraska's

retail sales grew 5 percent versus year ago. Despite that growth rate, Nebraska retail sales have had difficulty keeping up with changes in the general price level as reflected by the 5.4 percent increase we saw for the CPI for all of 1990.

Table IV City Business Indicators October 1990 Percent Change from Year Ago

The State and Its Trading Centers	Employment (1)	Building Activity (2)
NEBRASKA	2.3	-1.8
Alliance	1.2	164.9
Beatrice	1.5	70.9
Bellevue	0.7	-55.4
Blair	0.7	-16.0
Broken Bow	-0.8	1114.1
Chadron	11.5	-65.4
Columbus	3.7	-6.3
Fairbury	-0.7	-45.2
Falls City	4.9	97.5
Fremont	5.5	-42.3
Grand Island	3.7	-7.8
Hastings	3.6	134.3
Holdrege	0.4	131.1
Kearney	3.2	81.2
Lexington	5.0	58.2
Lincoln	1.7	-13.1
McCook	0.7	-73.3
Nebraska City	-3.4	-76.7
Norfolk	7.7	-42.5
North Platte	7.6	148.6
Ogallala	6.6	4.5
Omaha	0.7	-4.9
Scottsbluff/Gering	2.6	9.5
Seward	3.6	71.3
Sidney	2.4	492.8
South Sioux City	-1.1	-38.9
York	7.3	276.1

(1) As a proxy for city employment, total employment (labor force basis) for the county in which a city is located is used

(2) Building activity is the value of building permits issued as a spread over an appropriate time period of construction. The U.S. Department of Commerce Composite Cost Index is used to adjust construction activity for price changes

Sources: Nebraska Department of Labor and reports from private and public agencies

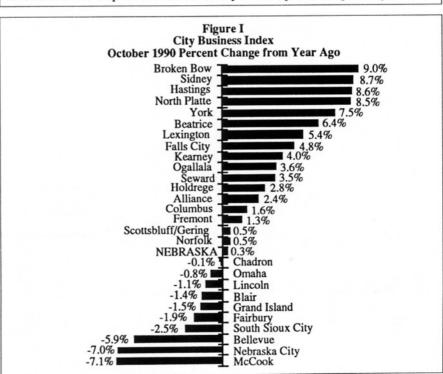


Table V Net Taxable Retail Sales of Nebraska Regions and Cities

			uni outes of fredrush	a regions and on	iles	
			Sales (2)		Region Sales (2)	
	n Number ity (1)	October 1990 (000s)	% Change vs. Year Ago	October 1990 (000s)	% Change vs. Year Ago	YTD % Change vs. Year Ago
NEBE	RASKA	\$890,762	5.2	\$1,018,245	4.4	5.0
1	Omaha	301,340	4.7	373,035	3.1	2.5
	Bellevue	12,154	1.3	*	*	*
	Blair	4,523	4.8	*	*	*
2	Lincoln	117,581	4.0	136,358	3.1	5.5
3	South Sioux City	6,175	7.6	8,036	3.7	23.2
4	Nebraska City	4,147	10.4	18,812	8.5	9.3
6	Fremont	16,778	10.5	30,858	8.6	7.9
	West Point	3,038	8.9	*	*	*
7	Falls City	2,404	5.3	9,618	12.9	8.6
8	Seward	4,369	5.2	14,843	4.5	6.9
9	York	6,392	1.5	14,889	6.5	4.4
10	Columbus	15,056	7.5	28,095	8.9	7.0
11	Norfolk	19,533	6.1	34,676	4.1	6.5
	Wayne	2,910	-3.1	*	*	*
12	Grand Island	32,933	0.1	47,266	0.7	1.8
13	Hastings	15,756	13.7	24,528	9.3	2.5
14	Beatrice	7,829	14.2	17,589	9.1	11.2
	Fairbury	2,843	9.9	*	*	*
15	Kearney	19,430	6.2	27,525	4.7	4.7
16	Lexington	5,751	9.0	15,989	5.4	4.7
17	Holdrege	4,522	3.2	7,947	0.7	5.7
18	North Platte	15,808	8.6	20,454	7.9	6.7
19	Ogallala	5,591	7.9	11,376	8.3	3.3
20	McCook	7,930	4.2	11,463	6.5	6.4
21	Sidney	3,670	4.6	7,570	10.4	3.9
	Kimball	1,523	12.6	*	*	*
22	Scottsbluff/Gering	17,587	4.2	24,838	5.4	4.6
23	Alliance	4,877	0.0	13,850	7.1	3.8
	Chadron	2,665	6.6	*	*	*
24	O'Neill	4,486	8.5	14,868	2.2	7.0
	Valentine	2,744	6.5	*	*	*

1) See region map

26

Hartington

Broken Bow

10.9

9,380

11,506

Compiled from data provided by the Nebraska Department of Revenue

1,742

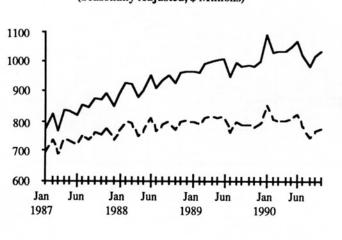
3,293

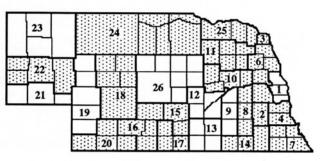
Figure II Nebraska Net Taxable Retail Sales (Seasonally Adjusted, \$ Millions)

Figure III Region Sales Pattern YTD as Percent Change from Year Ago

15.4

2.4





Shaded areas are those with sales gains above the state average. See Table V for corresponding regions and cities

⁽²⁾ Sales on which sales taxes are collected by retailers located in the state. Region totals include motor vehicle sales *Within an already designated region

Nine Nebraska Counties Reach Peak Population

Nine Nebraska counties and the State of Nebraska reached their peak population in 1990, according to data from the Bureau of the Census, U.S. Department of Commerce. Buffalo, Dakota, Douglas, Hall, Lancaster, Madison, Platte, Sarpy, and Washington each contained more persons in 1990 than in prior decennial censuses.

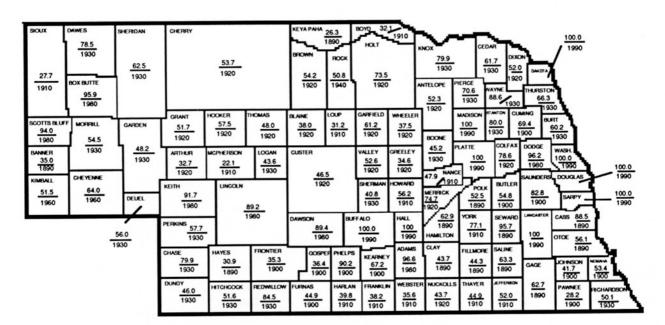
These nine counties, plus Cass County (whose peak population occurred in 1890) are the only counties in the state that show a population increase since the 1980 census. The population increase in these ten counties more than offset the population decrease in the remaining 83 counties by 8,560 persons.

Table 1 shows population counts for 1990 and for the year when peak population occurred. Figure 1 shows the year of peak population and the 1990 population as a percentage of these maximum counts.

Figure 1 shows that seven Nebraska counties reached their peak population threshold to date in 1980, two counties in 1960, one in 1940, 22 in 1930, 17 in 1920, 12 in 1910, 11 in 1900, and 12 in 1890.

Merlin W. Erickson

Figure 1
1990 Census Population as a Percent of Peak Year
and Year of Peak Census Population



Nebraska

Antelope

Adams

Arthur

Banner

Blaine

Boone

Boyd

Brown

Buffalo

Burt

Cass

Cedar

Chase

Cherry

Clav

Colfax

Cuming

Custer

Dakota

Dawes

Deuel

Dixon

Dodge

Dundy

Douglas

Fillmore

Franklin

Frontier

Furnas

Garden

Garfield

Gosper

Greeley

Hamilton

Hitchcock

Harlan

Hayes

Holt

Hooker

Hall

Grant

Gage

Dawson

Cheyenne

Butler

Box Butte

Largest

Population

in a Census

Year

1,578,385

30.656

15,243

1.412

2.435

1,778

14,738

13.696

8,826

6,749

37,447

13,062

15,703

24,080

16,427

5,484

11,753

14,828

16,310

11,624

14,584

26,407

16,742

11.493

22,304

3,992

11,815

35,847

5,610

16,022

10,303

8,781

12,373

36,344

5.099

3,496

5,301

1,486

8,685

48,925

14,096

9.578

3,953

7,269

1,378

17,151

416,444

page 11

Table 1 Population of Nebraska Counties. Peak Census Population. and 1990 Census Population

Howard

Jefferson

Johnson

Kearney

Kimball

Lancaster

Lincoln

Logan

Madison

Merrick

Morrill

Nance

Otoe

Nemaha

Nuckolls

Pawnee

Perkins

Phelps

Pierce

Platte

Red Willow

Richardson

Polk

Rock

Saline

Sarpy

Saunders

Seward

Sheridan

Sherman

Sioux

Stanton

Thayer

Thomas

Thurston

Washington

Valley

Wavne

Webster

Wheeler

York

Scotts Bluff

McPherson

Loup

Keya Paha

Keith

Knox

Population

1990

Census

1,578,385

29,625

7.965

462

852

675

6.667

13,130

2.835

3,657

37,447

7,868

8.601

21,318

10,131

4,381

6.307

9.494

7,123

9,139

10,117

12,270

16,742

9,021

19,940

2,237

6,143

34,500

2,582

7,103

3,938

3.101

5,553

2,460

2,141

1,928

3,006

48,925

8,862

3.810

1,222

3,750

793

12,599

769

22,794

416,444

Largest

Population

in a Census

Year

10,783

16,852

11,197

9.866

9,364

3,920

7.975

19,110

36,455

2.014

2.188

2,470

32,655

10,763

9,950

8,926

14,952

13.236

25,403

11,770

10,772

11,080

29,820

10.817

13.859

19.826

3,977

20,097

102,583

22,085

38,344

16,140

10,793

9,122

5.599

7.809

14,775

1,773

10.462

9.823

16.607

10,566

12,008

2,531

18,721

5,834

213,641

1,029

4.108 9,534 213,641 32,508 878 683 32,655 8.042 5,423 4,275 7,980

546

5.786

14,252

3,317

3,367

9.715

7,827

5.675

29,820

11,705

9.937

2,019

12,715

102,583

18,285

36,025

15,450

6,750

3,718

1,549

6.244

6,635

851

6,936

5,169

16,607

9,364

4,279

14,428

948

February 1991

Population

1990

Census

6.055

8,759

4,673

6,629

8,584

Selected Recent Highway Statistics for Nebraska

According to *Highway Statistics*, 1989, prepared by the Federal Highway Administration, nearly 943.2 million gallons of motor fuel were consumed for highway use in Nebraska in 1989. A comparable estimate for 1990 is about 949 million gallons, representing an increase of 0.6 percent.

The report also shows that 1989 motor vehicle registrations in Nebraska totalled 1,361,724. It is estimated that registrations will increase approximately 1.9 percent in 1990. Automobiles account for about 62 percent of motor vehicles; trucks and buses (including pickups, vans, etc.) make up the remaining 38 percent. Motorcycle registrations show a decline for the period.

Valid Nebraska drivers' licenses totalled 1,064,796 in 1989. The 1990 estimate is 1,081,000, an increase of about 1.0 percent.

The following list summarizes the relationships between population, drivers, vehicles, fuel, and travel in Nebraska, and the U.S., in 1989:

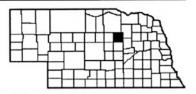
Nebraska	<u>U.S.</u>
661	668
845	756
0.70	0.00
0.78	0.88
1.18	1.32
693	704
14.61	15.98
10,120	11,252
8,554	8,502
12,942	12,727
	661 845 0.78 1.18 693 14.61 10,120 8,554

Merlin W. Erickson

County of the Month

Wheeler

Bartlett-County Seat



License plate prefix number: 84

Size of county: 576 square miles, ranks 52nd in the state Population: 948 in 1990, a change of -10.6 percent from 1980 Median age: 28.6 years in Wheeler County, 29.7 years in Nebraska in 1980

Per capita personal income: \$28,917 in 1988, ranks 1st in the state Net taxable retail sales (\$000): \$2,517 in 1989, a change of 4.4 percent from 1988; \$2,324 during January through October 1990, a change of 9.6 percent from the same period one year ago

Number of business and service establishments: 15 in 1988; 47 percent had less than five employees

Unemployment rate: 1.6 percent in Wheeler County, 3.1 percent in Nebraska for 1989

Nonfarm employment (1989):

	State	Wheeler County
Wage and Salary Workers	705,672	160
	(percent of total)	
Manufacturing	13.4%	_
Construction and Mining	3.6	*
TCU	6.5	*
Retail Trade	18.5	7.5
Wholesale Trade	7.6	16.3
FIRE	6.8	*
Services	23.7	*
Government	<u>19.9</u>	<u>67.5</u>
Total	100.0%	100.0%

Agriculture:

Number of farms: 213 in 1987, 195 in 1982

Average farm size: 1,330 acres in 1987

Market value of farm products sold: \$119.1 million in 1987 (\$559,008 average per farm)

Sources: U.S. Bureau of the Census, U.S. Bureau of Economic Analysis, Nebraska Department of Labor, Nebraska Department of Revenue

*Data not available due to disclosure suppression

Merlin W. Erickson



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