Evaluating Nebraska Banks

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to identify problem banks in Nebraska.

Introduction

Year

1974

1975

1976

has the banking industry experienced the problems it faces today. The number of banks failing nationwide in 1988 reached a post-Depression high of 200. The number of bank closings in each of the last seven years has set new post-Depression highs. The number of bank failures in each of the last 15 years is shown in Table 1.

At no time since the Great Depression

Table 1 Number of Bank Failures Per Year

Bank Failures

4

13

16

1977	6
1978	7
1979	10
1980	10
1981	10
1982	42
1983	48
1984	79
1985	120
1986	138
1987	184
1988	200
The banking inc	lustry posted a record
profit of \$25.3 bill	lion in 1988 with the
highest return on as	sets (.84 percent) since
1973. Ironically, th	ne industry recorded a
record number of fa	ilures during the same
year. How can this	be? Many banks, pri-
marily larger ones,	are doing well, while
many banks, prima	rily smaller to medium
size ones, are exper	riencing difficulties.

The purpose of this article is twofold: to present reasons for the recent proliferation of bank failures and to present a way

Numerous reasons are given for the

Bank Failures—Why So Many?

ample, the deregulation of the banking industry in the early 1980s greatly enhanced competition within the industry. To maintain profit margins in the face of increased competition, many bankers sacrificed quality and made loans that

ordinarily would not have been made.

recent increase in bank failures. For ex-

Loans often were made outside the bankers' areas of expertise, and numerous loan portfolios were allowed to become heavily concentrated. In attempts to remain competitive, many bankers used poor judgment and overexposed their banks to economic downturns.

Another factor contributing to bank failures is the prevailing restriction against branch banking. Branching limitations inhibit diversification of risk and may promote concentrations of credit. If more branch banking had been allowed in recent years, perhaps many bank failures

could have been avoided-healthy

RState Economic Scoreboard

Change from same month one year ago. See Review and Outlook on page 8 for more details.				
	State	Metro+	Nonmetro	
Motor Vehicle Sales (December) Constant \$				
(2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	-16.6%	-14.0%	-18.6%	
Nonmotor Vehicle Sales (December) Constant \$	0.1%	1.1%	-1.0%	
Building Activity (December) Constant \$	15.3%	8.6%	24.4%	
Employment (February)	4.3%	3.6%	5.1%	
Unemployment Rate* (February)	2.8%	2.5%	3.2%	

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

Business in Nebraska

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branches would have absorbed the losses of unhealthy branches.

The reason most often given for the

increased number of bank failures is the

depressed economies of the oil and agricultural states in the last several years. For example, Nebraska suffered 26 bank failures from 1985-1988.

Fortunately, the economic climate in the region recently has begun to improve. With the improving economic environment, one might assume that bank failures

are a thing of the past. A 1988 study by the Office of the Comptroller of the Currency (OCC), however, indicates that the economic climate is not the primary cause of bank failure. The OCC study of 162 national

bank failures since 1979 concluded that

oversight and management deficiencies

were the primary factors that caused bank

failures. Poor policies and planning, espe-

cially concerning loans, were major problems in 89 percent of the banks that failed. Based on this extensive OCC study, it appears that increased competition, restrictions against branch banking, and poor economic conditions are not the direct causes of bank failure. Poor management is the primary cause. These other factors combine to bring the management

deficiencies to light sooner. Thus, as long as poor managerial practices exist, banks will continue to fail. **Depositors Beware!** As Knapp notes in a May 1985 Journal

bank failures presents a possible problem

to corporate depositors. Because deposits

of Accountancy article, the proliferation of

are guaranteed by the FDIC up to \$100,000 only, large corporate depositors face a real potential for loss if total deposits in a failed bank exceed this limit. The potential for loss also exists for noncorporate depositors. Although the average individual customer's deposits fall below the \$100,000 guarantee, it is not uncommon for affluent customers to have mul-

tiple accounts (e.g., checking, passbook

savings, certificates of deposit, etc.) ex-

ceeding the \$100,000 limit. To avoid the potential for loss, depositors should maintain large accounts in banks run by sound management, which best can be determined by looking at the financial health of a bank.

Nebraska banks that failed during the period 1985-1988 were combined with comparable data from nonfailed Nebraska banks for the same period. (Twenty-six banks failed during this period, but data

were not available for one bank.)

The Z Index for Possible Bank Failures

To construct the Z index, data from 25

Each failed bank was matched with a nonfailed Nebraska bank of approximately equal asset size. A match based on size made it possible to isolate differences in operating performance, rather than size.

The differences between the failed and nonfailed banks were determined by examining 30 financial ratios for the yearend prior to the year of failure. Ratios were obtained from call report information provided by Sheshunoff and Company. The ratios provide measures of loan

quality and loan concentration, capital

adequacy, earnings ability and operating

efficiency, liquidity, and bank growth.

The ratios (all ratios are percentages—not

decimals) that differed most significantly

between the failed and nonfailed banks were: * Return on Assets (ROA)—Income (or loss) before extraordinary items to average total assets. Measures the recent earnings ability of bank management

in terms of a return on assets invested.

Primary Capital to Assets (PRIMCAP)—Primary capital, consisting mainly of equity capital plus loan loss reserves, to average total assets. Measures the past earnings capability of management and indicates the cushion available to absorb

Overhead to Assets (OVERHEAD)—

Total of salaries and benefits, occu-

pancy expense, and other operating

expense to average earning assets.

Measures management's efficiency

future losses.

with respect to overhead. A low percentage is favorable, while a high percentage is unfavorable. Nonperforming Loans to Gross Loans (NONPERF)-Total year-end loans and leases at least 90 days past due plus

loans placed in a nonaccrual status to gross year-end loans and leases. Measures quality of bank's loan portfolio. Loans to Assets (LOANS)—Gross year-end loans to total year-end assets.

Measures bank management's will-

high percentage indicates that management has accepted greater risks by investing a larger portion of assets in

ingness to accept risks. A relatively

loans. Table 2 shows the average amounts for each ratio for the failed and nonfailed Nebraska banks included in the sample. The relationships between the failed and

nonfailed bank ratios are as expected and are indicative of the unhealthy status of the failed banks prior to their closure. These means are useful, as they provide benchmarks against which all Nebraska banks can be compared. Even more useful than the means is the model developed for

Table 2 Mean Ratios for Failed and Nonfailed Banks

identifying problem banks.

Failed Nonfailed Ratio Banks ROA -1.95% 7.83% PRIMCAP

OVERHEAD 4.30% 3.28% 1.80% NONPERF 10.21% **LOANS** 63.64% 43.94% Multiple discriminant analysis (MDA) was used to develop the Z index to differentiate between failed and nonfailed banks. MDA involves deriving a linear combination of the independent variables (the five ratios) that best discriminates

between the two groups. The resulting

discriminant function or Z index is shown

Z = 1.25656 + .06351 (ROA) + .01983

below:

Banks

1.03%

13.74%

(PRIMCAP) - .07280 (OVER-HEAD) - .00960 (NONPERF) -.01130 (LOANS) The Z index for a particular bank is compared to a cutting Z score to determine

cutting Z score is .5. A bank with a calculated Z index less than .5 is classified as having characteristics of a nonfailed bank. To evaluate the accuracy of the Z index

the bank's predicted classification. The

method, it was tested on the 50 Nebraska banks included in the study. Although not perfect, the method was reasonably accurate; 48 (96 percent) of the banks were

classified correctly. One failed bank was

misclassified as a nonfailed bank, and one

nonfailed bank was misclassified as a failed bank.

Using the Z index is simple and can be demonstrated easily with an example. Assume three banks (A, B, and C) are being analyzed by a potential banking customer or investor. Further, assume that the three banks have the operating statistics for their most recent year-end as shown in Table 3. Such information is generally available on a timely basis from the FDIC or private firms (e.g., Sheshunoff and Company).

Plugging
these amounts into the Z index function yields the following Z index scores:

Notice that bank B's Z index is below the cutting Z score of .5, while the Z indexes for banks A and C are above .5. This indicates that bank B possesses the characteristics of banks that have failed in the past, whereas banks A and C possess the characteristics of nonfailed banks. This does not necessarily mean that bank B will fail while A and C will not. It means that bank B's operating statistics are similar to those of banks that failed in the past, while the statistics for banks A and C are similar to those of banks that did not fail in the past.

Perhaps even more useful than classifying banks using the cutting Z score is ranking the banks. The Z indexes produced by the Z index method provide an ordinal ranking of the financial health of the banks. The higher the Z index, the greater the financial strength. For instance, the three banks used in this example would be ranked from strongest to weakest as follows:

	Z index
Bank C	.822
Bank A	.677
Bank B	.367

Any or all Nebraska banks can be ranked in this manner. One final note with respect to the Z index method is a word of caution. The method is not a panacea. Because numerous factors cannot be captured in a mathematical model, the method is not intended to replace a user's judgment. It simply is intended to provide an additional piece of information as input into the user's decision making process.

Conclusion

Bank failures in recent years have increased at phenomenal rates. The primary reason for the failures seems to be poor management. The problem of managerial deficiencies is compounded by the competitive banking environment, restrictions against branch banking, and poor economic conditions. These failures have caught the attention of the regulators and the public alike.

This article offers a method for detecting future possible bank failures The method could prove most useful when supplemented with knowledge on subjective factors such as the quality of bank management and/or the economic prospects of the community in which a bank operates.

Table 3
Ratios for Example Banks

Ratio	Bank A	Bank B	Bank C
ROA	37%	-1.94%	1.12%
PRIMCAP	10.33%	6.73%	10.29%
OVERHEAD	3.40%	2.52%	1.89%
NONPERF	5.71%	7.89%	4.64%
LOANS	40.62%	56.73%	46.67%
Z INDEX	.677	.367	.822

Libraries in Nebraska

According to the Nebraska Library Commission and the *Nebraska Blue Book*, 1988-1989, Nebraska's first library was established at the Fort Atkinson military post in 1820. The federal Kansas-Nebraska Act of May 20, 1854 provided a territorial library in Nebraska that later became the state law library.

The state's first public library was established in Omaha in 1871. In 1877, the state legislature passed a law providing state support of public libraries. A state library commission with responsibility for promoting, developing, and coordinating library services in Nebraska was established by the legislature in 1901.

Today Nebraska has approximately 50 academic libraries, 286 public libraries, 646 school media centers, 22 institutional libraries, 134 special libraries, and 84 county law libraries.

Love Library, located on the University of Nebraska-Lincoln campus, is the largest library in the state with a collection of approximately 1.7 million volumes. Other large libraries include the collection at the Nebraska Library Commission, the Nebraska State Library, the Lincoln City Libraries; the Omaha Public Library; and academic libraries at Creighton University and the University of Nebraska at Omaha.

These libraries participate in regional multitype service systems that provide regional support and coordination. Nebraska libraries are linked through an electronic telecommunications network to NEON, the data base of Nebraska library holdings, and to other state and national data bases.

For further information about libraries in Nebraska contact:

Nebraska Library Commission 1420 "P" Street Lincoln, NE 68508 (402) 471-2045

Merlin W. Erickson

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Global Competition: Midwest Perspective

Robert Milligan, President and CEO, MI Industries, Lincoln, Nebraska

role in international markets and the importance of export markets to Nebraska, the Midwest, and the U.S. I also will give an overview of economic issues that may come to the forefront in the next few years.

In this paper, I will review Nebraska's

Let us set the stage with a background on what may happen in the 1990s. The New York Times and Fortune have christened this decade as the era of possibilities. Why has this decade been so named? In my opinion, we see the greatest economic opportunities since the end of World War II. We also see some of the

greatest competition that we have ever

In Europe, we foresee the opportunity

known.

for a unified Western Europe starting in 1992. What are the implications of that unification? It means 325 million persons under a more unified system—the most unified European system the world has known in modern economic times. Europe will replace the U.S. as the world's largest, richest market

Add to Western Europe the potential that is developing for 140 million Eastern Europeans. Now add another 40 million free associate state Europeans. And finally, add the potential for 250 million Soviet customers. That brings a total of nearly 800 million customers in a targeted area. Over half those economies, or 400 million consumers, are calling for a total restructuring of their economies. The potentials are enormous.

When I started to discuss global opportunities, I may have assumed something I shouldn't assume—namely that all of us in this state, particularly with our great concern and understanding for agribusiness, look at the world as a place in which we should compete economically. In my opinion, we have only two choices: to close our borders (Nebraska or U.S.), selling and producing strictly on an internal basis, or to try to obtain a level playing field in a global arena and participate (compete) as effectively as we can in that arena. I favor the second choice of global competition

The stage is being set by a number of our political leaders, including Secretary

Yeutter in the Uruguay Round. Clayton Yeutter is trying to develop a level playing field for all export competition. What does the opportunity to compete worldwide mean for Midwest or Nebraska agriculture? Let's ask our neighbors, the Kansas

wheat farmers. They would resist closing

our borders because over 60 percent of their wheat crop currently is exported. Roy Frederick dramatically underscored the importance of the livestock industry to Nebraska's gross agricultural income; 60 percent to 65 percent of Nebraska's gross agricultural income comes from the livestock industry. Last year in the U.S., beef exports increased over 60 percent from the year before. For the first time, America exported more than a billion pounds of beef

Unlike the years immediately after World War II when we saw great opportunities and relatively little competition, we see our trading partners poised for strong competition. Japan is a strong competitor... Look at the Japanese automobile and microchip industries. Look at Britain in foods, service, and publishing; West Ger-

many in pharmaceuticals and chemicals;

Australia and Argentina in beef; France,

Canada, Argentina, and Brazil in grains:

These are strong competitors ready to

participate in the world market.

I would like to touch briefly upon four key concepts that I believe point to a positive economic trend for the world in the 1990s. I believe that these factors support the position that the 1990s will be the decade of possibilities.

1. Democracy continues to advance globally, bringing economic change for the world. South Korea, the Philippines, Argentina, Poland, and Chile all are evolving dramatically toward a more democratic form of government. These political changes, in turn, imply economic changes in these countries.

India has ended 40 years of Gandhi rule peacefully. We also are witnessing the emergence of a more democratic form of government and changing economies in Hungary, East Germany, and Czechoslovakia. The Congress of the People's

Deputies has called for free, nonmonopolistic (communist) elections in the Soviet Union. President Gorbachev's response only was to question the timing of the idea, not its merit.

Certainly there will be reversals in this

trend toward a more democratic world. We have seen that in the Philippines and in Poland, where real income has dropped 20 percent. Most reversals there were due to unmet or unrealistic economic expectations, lack of capital, lack of convertible currencies, or hyperinflation. Even with the dramatic changes we have seen in leadership, stifling bureaucracies remain.

Only 70 of the 170 societies in the world today qualify as free, even using the broadest definition of the term. But I don't think there's any question that the Marxism/Leninism model is under siege.

2. There will be a lessening of tension because of the decreasing possibility of large scale military conflict. This shift means that economic performance rather than military power will count more in the future. No wonder Russia and its leadership are running fast to stay ahead of the crowd. We have seen President Gorbachev labeled the man of the decade, more influential than President Reagan. I submit that it makes no difference who's leading the Politburo. The changes in the Soviet Union were necessary because of economic changes in the world.

There always will be regional and historic tensions, such as that between Korea and Japan (there are no Japanese cars in Korea), even though we don't have large scale tensions.

Proposed reductions in military budge.

Proposed reductions in military budgets over the next several years may alter our own economic development. Think of the possibilities of a \$100 billion reduction in our U.S. military budget over the next several budget cycles.

3. We will continue to see a global community that will increase its technical and technological advantages. It will be smarter; we'll continue to see the world shrinking because of a vast communications explosion.

Since the mid-1960s, the percentage of high school age population enrolled in doubled worldwide in the last 20 years. This presents a great opportunity for telecommunications. An official from Corning is excited

about the possibility of rebuilding the telephone systems in the Soviet Union with optical fibers because there are no copper wires to remove. Even in Russia and East-

secondary education almost has doubled

worldwide. College enrollment also has

ern Europe, we must be aware of the advance of science and technological ability. They have more than one-third of the world's Ph.D.-level engineers and scientists. We see advanced technology coming

surgical staples, and great advances in metallurgy, to name a few. 4. Economic interdependence of the

from these societies—soft contact lenses,

world community will continue. Since 1950, world trade has grown twice as fast

as world Gross Domestic Product. Think about what that means. Certainly, it's going to cause some uneasiness. Think of the editorials about Japanese investment

in the U.S. That makes us uncomfortable.

What about Nebraska in the global competition arena? Can we compete? In

the aggregate, I would say we are well prepared; we have an educated workforce that should be able to adapt. Also, our base industries in food/fiber are moving ahead.

We are seeing increased focus, awareness, and participation by many Nebraska industries in sales throughout the world.

We constantly must tend the store, however. I think the U.S. now has a better focus on that than they have had in the past. We must be willing to change our

businesses, to be flexible. This will mean: 1. Thinking globally. 2. Thinking new alliances (joint ven-

tures, etc.). 3. Thinking of new ways of doing business (barter, etc.).

An Exchange Student View of Japan Jack Hardy, Bureau of Business Research, Undergraduate Research Associate

In an era of an increasing significant from the University of Nebraska and two ration, Matsushita Research Institute, and students from Susquehanna University in

Pennsylvania. For 12 weeks we studied

Japanese language for three hours every

morning and listened to lectures on Japa-

nese business and civilization in the after-

international market, it is important that any business education include a study of international issues. Any study of international business should place considerable

emphasis on Japanese business practices. For the student interested in Japan, the University of Nebraska-Lincoln College of Business Administration sponsors a

sity in Tokyo. Last semester I participated in this program and earned credits studying Japanese language, business, and civilization, while experiencing firsthand what it is like

study abroad program at Senshu Univer-

to live in a Japanese community. At the University of Nebraska-Lincoln, I have studied basic issues related to

Japanese business practices in practically every one of my business courses. The material was introductory, however, and often failed to address my particular interests in the social and cultural forces that shape Japanese commercial practices.

How are Japanese management prac-

tices, which are different from traditional American practices, applied so successfully in Japanese culture? Why does the average Japanese businessperson feel such a strong sense of organizational loyalty toward his or her company? Why are many aspects of Japanese business puzzling to Americans?

noon. Our language instruction was introductory because most of us had little, if any, experience with Japanese. This lack was not a great hindrance for us, however; most of our instructors spoke English. Most Japanese students we met spoke some English, having studied Eng-

lish for six or seven years. Almost all

Japanese were anxious to practice their

English with us. The business and culture lectures were presented by different faculty members of Senshu University and professional persons from the community. We heard lectures on topics such as "The Evolution of Japanese Management," "Traditional

Japanese Human Relations," "The His-

tory of U.S.-Japanese Trade Conflict,"

and many others. Each day brought new

lectures on topics that our hosts thought

would be of particular interest to us. My most memorable experiences were those outside the classroom. We visited modern institutions such as the Tokyo

Stock Exchange and the Diet Building. The Diet Building houses the legislative body of Japanese government. We went

on field trips to businesses and manufac-

turing plants such as Nissan Motor Corpo-

Kirin Beer. We also went sightseeing at different historical sites, traditional temples, and shrines. During all our trips

and experiences outside the classroom, we were accompanied by faculty members or Japanese students. Japanese students were as eager to try to understand us and our culture as they were to help us understand Japanese culture. My study of Japan was valuable because I was able to integrate what I was learning about Japanese history, culture,

and philosophical tradition with what I

was learning about Japanese business

practices. For example, I learned that Japanese management practices such as promotion according to seniority, lifetime employment, and bottom-up decision making can be viewed as vestiges of ancient Confucian notions of filial piety, loyalty, and collective harmony.

I also discovered that as a result of their heritage as a communal society, the Japanese tend to identify strongly with the various groups with which they are associated. The tendency to feel a strong sense of corporate loyalty also can be viewed as a remnant of traditional Japanese society.

Given Japan's historic growth remote from western civilization, it is hardly surprising that American and Japanese culture and their respective business prac-

tices differ. If we fail to recognize and

With these interests in mind, I traveled to Japan to study with 12 other students Business in Nebraska

influence Japan and the Japanese people. The Japanese are focused on international issues. As a result, years of English

educate ourselves about the differences

that do exist, we will continue to limit our

ability to cooperate with, compete with, or

language study are a compulsory component of every student's education. From the moment I arrived, it was ap-

parent that the Japanese students I met were going to take advantage of my presence. They were anxious to practice their

English and learn whatever I could teach them about America. It is on this point that we may take an

important lesson from Japan. It would be, without a doubt, to our advantage to treat our international students at the University of Nebraska as valuable educational resources. My experience in Japan made it clear to

me that America's future success in inter-

national commerce depends, to a large extent, on how willing Americans are to understand other cultures. There are opportunities for generating

cross-cultural understanding abroad, as well as with the large population of international students at our university. I en-

courage all students and faculty at the University of Nebraska to take advantage of these opportunities.

Other international study opportunities available to College of Business Administration students include these summer programs:

- Program—Dean Oxford Gary Schwendiman, leader
- Gupta and Roger F. Riefler, leaders
- Orient Study Tour-Professors Harish
- Moscow Visit—Dr. Robin Anderson, Budapest School of Economics Program-Associate Dean J. Clay Single-
- The annual Pan Pacific Conference will be held May 31-June 2 in Seoul, Korea. Professor Sang M. Lee, program chairman, expects 300 partici-

ton, leader

Jack Hardy is a senior in economics.

He is one of three undergraduate research associates with the Bureau of Business Research this spring semester. Jack is working on a project to calculate and

analyze nonmetro nonfarm per capita

personal income in Nebraska.

Population Growth Continues for Most Urban Areas

nation's 283 metropolitan statistical areas

(MSAs) gained population during the 1980-1988 period, according to recent estimates by the Bureau of the Census of the U.S. Department of Commerce. Twenty-three of the 50 MSAs that lost

population are located in Michigan, New Two hundred and thirty-three of the York, Ohio, Pennsylvania, and West Vi ginia. Four are located in Iowa. Nebraska's two MSAs of Omaha an

1980-1988

Lincoln gained population during th 1980-1988 period. According to Burea of Census estimates, however, the Omal

Table 1

Estimates of Population and Net Migration Change for the MSAs of Nebraska and Neighboring States 1980-1988

Net Migration Change Population Change Number Percent

1.3 -4,8001,700

Pueblo Denver-Boulder

Greeley

Colorado Springs

239,500

12,800 84,500 32,800

-1.800

5.000

-15,000

-2,800

24,200

-20,500

1,700

9,900

40,700

8,800

8,400

141,900

-2,500

5,400

89,700

26,600

16,100

11,700

18,700

36,500

10.3

27.3 22.0 -1.5

6.1

-9.2

-3.0

6.6

-5.3

1.0

6.4

9.2

13.1

6.6

9.9

-2.8

5.4

3.8

12.8

14.7

16.6

9.7

6.2

14.8

18,700

-300

Number

79,400

1,000

43,400

-7.4 -8,700-2,100-2.6-23,800 -14.6-7,400-41,800 -8,600

-7.6 -0.1-10.9 -5.1

Percent

-3.8

4.9

0.8

14.0

12.5

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1,200 600

0.8 0.1 5.8

3.5 3.3 -5.5

-2.5

-2,500-42,500 16,500

3,900

4,500

47,300

-4,800

4,500

-11,100

-1.8

8.0

2.3

-1.9

7,100 2,400 6.4

3.4

Colorado

Iowa

State

Fort Collins-Loveland

Sioux City, IA-NE

Waterloo-Cedar Falls

Island-Moline, IA-IL

Kansas City, MO-KS

St. Louis, MO-IL

Iowa City

Dubuque

Kansas

Topeka

Wichita

Missouri

Joplin

St. Joseph

Columbia

Springfield

South Dakota

Sioux Falls

Rapid City

Nebraska

Lincoln

Omaha, NE-IA

Lawrence

Des Moines

Cedar Rapids

Davenport-Rock

MSA experienced a net migration loss of 11,100. Net migration is defined as the difference between gross inmigration and gross outmigration. Gains in natural growth (births minus deaths) more than offset the migration loss.

Table 1 provides statistics on population and net migration change for the MSAs of Nebraska and neighboring states for 1980-1988.

For reporting purposes, the Sioux City, IA-NE MSA is listed under Iowa. Similarly, the Omaha, NE-IA MSA is listed under Nebraska.

MSAs are defined by the Office of Management and Budget (OMB) in terms of whole counties outside New England and individual towns and cities in New England.

The general concept of a MSA is that of a population nucleus of at least 50,000, generally consisting of a city and its immediate suburbs, together with adjacent communities having a high degree of economic and social integration with that nucleus.

An area qualifies for recognition as an MSA in one of two ways: If there is a city of at least 50,000 population or a Census Bureau-defined urbanized area of at least 50,000 with a total metropolitan population of at least 100,000 (75,000 in New England).

In addition to the county containing the main city, an MSA also includes additional counties having strong economic and social ties to the central county, determined chiefly by the extent of the urbanized areas as defined by the Census Bureau and census data on commuting to work.

MSAs with major population and(or) net migration changes for the 1980-1988 period are indicated in Table 2.

By 1988, the nation's MSA population had reached 189.4 million, amounting to 77.1 percent of the U.S. total of 245.8 million. Another 56.4 million persons lived in nonmetropolitan territory outside the 283 MSAs.

Since 1980, the population of metropolitan America, as currently defined, has increased 16.8 million (9.7 percent), well above the national average increase of 8.5 percent. Nonmetropolitan American increased only 2.4 million (4.5 percent), less than half the metropolitan rate of growth.

Most metropolitan population growth continues to occur in the Sunbelt and Far West. The metropolitan areas in the North grew only 2.2 million (2.6 percent) from 1980 to 1988, while those in the South and West grew 14.6 million (16.6 percent).

From 1980 to 1988, metropolitan areas grew faster than nonmetropolitan areas in 35 states, while the nonmetropolitan areas

had the edge in 14 states. (New Jersey and the District of Columbia are entirely met ropolitan.) The states with more rapid nonmetropolitan growth are Massachu setts, Rhode Island, Connecticut, Dela ware, Maryland, Florida, California Alaska, Hawaii, West Virginia, Ohio Michigan, Wisconsin, and Wyoming.

F. Charles Lamphea.

Table 2
MSAs that Gained over 1/2 Million in Population

MSA	Population Growth
Los Angeles-Anaheim-Riverside	2,272,000
Dallas-Ft. Worth	835,500
San Francisco-Oakland-San Jose	673,900
Atlanta	598,400
New York-Northern New Jersey-Long Island	580,700
Houston-Galveston-Brazoria	541,500
Phoenix	520,400
San Diego	508,600

MSAs that Gained over 250,000 by Net Migration

MB/13 that Gamed over 250,000	o by Net Migration
MSA	Net Migration Gain
Miami-Fort Lauderdale	269,700
San Francisco-Oakland-San Jose	309,100
San Diego	332,000
Phoenix	369,000
Tampa-St. Petersburg-Clearwater	382,000
Atlanta	414,000
Dallas-Fort Worth	496,600
Los Angeles-Anaheim-Riverside	1,142,700

MSAs that Lost over 50,000 in Population

	· op a-ation
MSA	Population Loss
Pittsburgh-Beaver Valley	-139,200
Detroit-Ann Arbor	-132,500
Buffalo-Niagara Falls	-67,200
Cleveland-Akron-Lorain	-65 100

MSAs that Lost over 50,000 by Net Migration

MSA	Net Migration Loss
Detroit-Ann Arbor	-364,300
Chicago-Gary-Lake County	-290,000
Cleveland-Akron-Lorain	-180,200
Pittsburgh-Beaver Valley	-168,100
Buffalo-Niagara Falls	-99,400
New York-Northern New Jersey-Long Island	-92,800
Milwaukee-Racine	-92,700
New Orleans	-50,400

MSAs Where Deaths Exceeded Births

Bradenton, FL Daytona Beach, FL Sarasota, FL Scranton-Wilkes-Barre, PA

Tampa-St. Petersburg-Clearwater (ranked 10th in actual population growth)

Review and Outlook

John S. Austin, Bureau of Business Research, Research Associate

National Outlook The second revision of the fourth quar-

ter 1989 Gross National Product (GNP) statistics is now available. These figures will remain official until the July revision.

In general, this set of numbers shows a stronger economy than did the preliminary numbers. This set of figures im-

proves our view of the fourth quarter and will help us speculate on the first quarter of

this year. The fourth quarter increase was 11.2

billion 1982 dollars at annual rates. Unfortunately, most of that increase, \$9.9 billion or some 86.1 percent, can be accounted for by a change in net exports. Net exports are

simply exports minus imports. The net export figure itself is a fairly small component of GNP and, furthermore, tends to contain a great many data errors. Put an-

export figure, GNP would have grown only about .1 percent, instead of the revised 1.1 percent in the latest figures. Net exports has been a source of

other way, without the strong positive net

strength in the last few years. Early indications, however, are that first quarter net That, in turn, implies that we should be looking elsewhere for strength.

Table I **Real GNP Fourth Quarter 1989 Change from Third Quarter**

Change

Percent of

\$ billion Total Change (1982)Consumption 3.6 31.3 Investment -7.1 -61.7 5.1 44.3 Government 9.9 86.1 Net Exports Total 11.2 100.0

Consumers increased their purchases 3.6 billion 1982 dollars. Virtually all of the increase was due to increases in consumer services. Durable spending decreased \$16.1 billion. That decrease alone was

bigger than the total gain in real GNP in the

quarter. The decrease in durables was due

Note: There is a rounding error of 0.3

a major dealer incentive program instituted early in March, first quarter auto sales likely will remain weak, pointing to a weak consumer durable number, Rela-

tively high prices of energy and food in January in turn imply a weak nondurable consumption figure. All these suggest that the first quarter will show a weak consumption sector. Confusing this picture

ary and February show a substantial advance over fourth quarter numbers. At best, consumption offers a mixed picture. In the government sector, we see a seesaw pattern from quarter to quarter.

The fourth quarter showed a decrease in

somewhat, the retail sales reports for Janu-

federal spending offset by an increase in state and local spending. The total showed an increase of 5.1 billion 1982 dollars, 44.3 percent of the total increase in GNP. In the first quarter, we expect more cuts in federal defense expenditures, implying a weak federal sector. State and local spending will continue to grow and is likely to offset the decrease in federal spending. On the whole, I expect a small plus for total government spending in the first quarter

to an automobile sales collapse. Looking at first quarter figures, Januof 1990. exports may be weak. A surge in oil imports of 44 percent in January implies a ary was a good month for autos, but Feb-Things start to get interesting in the investment block. In total, the investment weak net export figure for the first quarter. ruary data show a reversal. Unless there is Table II Employment in Nebraska

billion in the total.

Employment in Nebraska				
	Revised January 1990	Preliminary February 1990	February % Change s. Year Ago	
Place of Work				
Nonfarm	706,857	712,339	3.3	
Manufacturing	95,789	95,673	2.1	
Durables	46,715	46,700	1.3	
Nondurables	49,074	48,973	2.8	
Mining	1,232	1,284	-1.8	
Construction	22,395	22,249	8.4	
TCU*	46,328	46,583	4.1	
Trade	184,279	182,986	2.7	
Wholesale	53,978	53,924	5.5	
Retail	130,301	129,062	1.6	
FIRE**	48,557	48,560	2.0	
Services	167,028	170,006	3.5	
Government	141,249	144,998	3.9	
Place of Residence			2.52	
Civilian Labor Force	823,693	826,557	3.72	
Unemployment Rate	3.1%	2.8%		
*Transportation, Communication, and Utilities **Finance, Insurance, and Real Estate				
Source: Nebraska Depar	unent of Labo)I		

Table III Price Indices					
	February 1990	% Change vs. Year Ago	YTD % Change vs. Year Ag		
Consumer Price Index - U^2 (1982-84 = 100)	*	v			
All Items	128.0	5.3	5.2		
Commodities	120.6	5.5	5.4		
Services	136.0	5.1	5.1		
Producer Price Index (1982 = 100)					
Finished Goods	117.4	5.1	5.5		
Intermediate Materials	112.5		2.0		
Crude Materials	106.9	5.8	5.7		
Ag Prices Received (1977 = 100)					
Nebraska	161	0.6	0.6		
Crops	125		-10.6		
Livestock	184	6.4	5.8		
United States	153		3.4		
Crops	135		-2.5		
Livestock	171	8.2	8.5		

Building

Activity (2)

17.1

-62.4

84.0

42.3

-34.8

-94.7

75.3

7.3

75.1

37.6

-20.9

62.7

94.6

695.1

111.3

186.1

25.3

in the fourth quarter. Virtually all the decrease was in producers' durable equipment expenditures. That group had been a source of strength in 1987 and 1988. In 1989, the increases in producers' durable equipment investment slowed.

sector decreased 7.1 billion 1982 dollars

In the first quarter 1990, there is some

hope that producers' durable equipment expenditures will return to the plus column. In addition, we have seen some re-

covery in the housing area. The latter increases could be shut off if long-term interest rates continue to climb. Housing starts have been the one ray of hope in our previous educated guesses for the 1990 outlook. Recent mortgage rate increases,

however, have diminished hopes for a rapid recovery in that sector. Diminished hopes in the housing sector imply that the chances of a more rapid overall recovery are lessened. Both consumer and producer prices

jumped dramatically in January as a result of cold weather on the east coast. Cold weather created a surge in demand for fuel oil and damaged fruit and vegetable crops in Florida. In February, we saw a mixed result. Decreasing energy prices allowed the Producer Price Index to remain even with January levels; however, consumer prices rose 0.5 percent in February. The

increase in consumer prices was a result of

a mixture of events. There was an 18.7 percent drop in fuel oil prices, but a sharp

3.3 percent jump in clothing prices. Food

prices grew 0.5 percent in February. The

clothing price index was unique, being

related to an early introduction of spring

clothes. The increase in apparel is not

expected to be repeated in the March fig-

ures. Thus, there is some hope of further easing in the Consumer Price Index for March. Nevertheless, inflation has to be monitored closely. It is rapid inflation and an improper reaction by monetary authorities that often have been associated with economic downturns. There are two predominant schools of thought about what will happen to interest rates in the next few months. One school posits that our weak domestic economy will allow the Federal Reserve to stimulate the economy further by lowering in-

terest rates. There is little doubt that the

Fed can control short-term interest rates,

especially the Federal Funds rate. The Fed

City Business Indicators December 1989 Percent Change from Year Ago Employment (1)

Table IV

NEBRASKA 0.1 Alliance -0.9Beatrice -0.1Bellevue -0.3 -0.3Broken Bow 0.4 Chadron

The State and Its

Trading Centers

Blair

Columbus

Fairbury

Falls City

Fremont

Hastings

Holdrege

Kearney

Lincoln

McCook

Norfolk

Nebraska City

North Platte

which a city is located is used

Lexington

-0.70.7 0.8 Grand Island

-0.4-0.3-0.60.0 0.1 0.9 1.3

1.1 1.0 -0.10.1 -0.5-0.7-0.3-0.5

175.7 49.4 10.9 -6.7-1.1-7.4 35.7 -60.0-51.3

16.9 (1) As a proxy for city employment, total employment (labor force basis) for the county in (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

Figure I

3.7%

Scottsbluff/Gering Sidney

Alliance

Broken Bow

8.9%

15.9%

Ogallala Omaha Scottsbluff/Gering Seward 0.7 Sidney 1.0 South Sioux City -1.7 York -0.5

Sources: Nebraska Department of Labor and reports from private and public agencies City Business Index December 1989 Percent Change from Year Ago South Sioux City Holdrege Lexington Beatrice Seward Kearney 2.5% Columbus 2.3% Nebraska City 1.8% 1.6% Norfolk Omaha 1.3% 1.2% Falls City **NEBRASKA** McCook 1.0% 0.6% Lincoln Blair 0.0% North Platte -0.5% Grand Island -0.7% _Fremont -1.5% Fairbury -1.5% Chadron 2.0% York 2.2% .Ogallala 2.3% .Hästings 2.6% .Bellevue

-2.8%

-7.0%

-7.0%

-11.3%

used to adjust construction activity for price changes

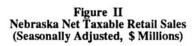
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Table V Net Taxable Retail Sales of Nebraska Regions and Cities

	City Sa	les (2)		Region Sales (2)	YTD
Region Number and City (1)	December 1989 (000s)	% Change vs. Year Ago	December 1989 (000s)	% Change vs. Year Ago	% Change vs. Year Ago
NEBRASKA	\$1,125,019	4.7	\$1,219,349	3.1	6.0
1 Omaha	406,039	7.7	477,712	5.5	7.3
Bellevue	18,255	-5.6	*	*	*
Blair	5,723	9.4	*	*	*
2 Lincoln	144,137	1.9	158,900	1.8	3.4
3 South Sioux City	6,900	51.3	8,592	38.0	15.8
4 Nebraska City	4,482	-2.9	19,245	0.8	2.6
6 Fremont	18,973	-0.8	32,960	-2.1	4.2
West Point	3,489	11.6	*	*	*
7 Falls City	2,760	1.0	10,116	-4.8	-0.8
8 Seward	5,613	5.7	16,838	-2.6	2.0
9 York	8,398	-1.8	17,707	-4.3	3.7
10 Columbus	19,299	2.5	31,514	-0.2	4.4
11 Norfolk	25,156	3.2	40,796	-0.9	4.7
Wayne	3,278	6.0	*	*	*
12 Grand Island	45,078	6.2	59,660	5.7	7.7
13 Hastings	19,439	-6.7	30,010	-2.9	5.2
14 Beatrice	10,493	3.8	21,302	-2.1	1.3
Fairbury	3,619	-1.0	*	*	*
15 Kearney	24,310	1.6	32,275	0.3	7.1
16 Lexington	7,787	3.0	18,279	-3.5	4.9
17 Holdrege	5,091	1.5	8,521	-4.9	4.9
18 North Platte	20,028	2.5	24,148	2.0	6.2
19 Ogallala	5,903	0.5	11,433	-5.5	8.7
20 McCook	9,467	-6.4	12,798	-7.8	2.2
21 Sidney	4,594	-2.9	8,614	-3.2	-1.0
Kimball	1,849	0.3	*	*	*
22 Scottsbluff/Gering	23,287	-1.1	30,410	-0.3	6.3
23 Alliance	6,322	-0.3	15,806	-6.9	2.1
Chadron	3,420	1.7	*	*	*
24 O'Neill	5,396	3.6	16,265	-0.7	9.6
Valentine	3,073	3.4	*	*	*
25 Hartington	1,778	11.6	9,330	-1.7	1.2
26 Broken Bow	4,288	10.5	13,315	-2.1	3.9

⁽¹⁾ See region map

Compiled from data provided by the Nebraska Department of Revenue



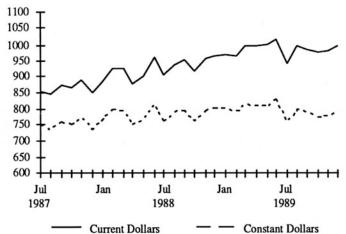
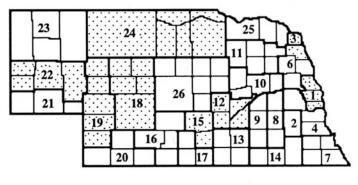


Figure III Region Sales Pattern YTD as Percent Change from Year Ago



(1) The Consumer Price Index (1982-84 = 100) is used to deflate current dollars into constant dollars

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

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has nailed the Federal Funds rate at 8.25 percent for several months now.

The other major school of thought argues that long-term rates are set in an international market. Both the Japanese and the Germans are experiencing rising long-term interest rates. The U.S. must follow these rates if it is to remain competitive in the international arena. If not, we will see a capital outflow from the U.S. to other countries.

The review of these two approaches reminds one of the old forecasters' axiom that "if it doesn't go up, it'll go down, if it doesn't stay the same." My best guess is that risks are on the up side, especially in the long-term markets. International pressures will impact our domestic long-term markets. Further, there is some cause for concern on inflation, as nonfood and nonenergy prices are showing some increases.

Nebraska Outlook

Retail sales are available for all of 1989. For the year as a whole, there was an advance of 6.0 percent (see Table V upper right corner). With inflation rates on consumer goods at 4.5 percent, the nominal growth that Nebraskans have experienced translates to a 1.5 percent real growth in retail sales. Sales were fairly flat from March on. Nebraska's December season was somewhat listless.

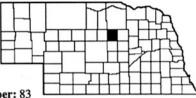
Year-end labor force data show virtually no change from year-end 1988 (Table IV). In contrast, February job gains were 3.3 percent ahead of year ago (Table II), continuing a trend of job gains outpacing increases in the labor force. The two fastest growing job areas were wholesale trade and construction.

Early year construction data are available from F. W. Dodge. So far the state has continued last year's stellar performance. Through February, year-to-date total contracts have increased 28.6 percent. Total building square footage has increased 50.4 percent. New dwelling contracts have increased 54.4 percent. All of these increases must be taken with a grain of salt. The early months of the years are influenced heavily by weather changes. In our case, both January and February were relatively good building months. Should the March figures reinforce the January-February numbers, then Nebraska construction may be started on an extremely good year.

County of the Month

Garfield

Burwell--County Seat



License plate prefix number: 83

Size of county: 570 square miles, ranks 64th in the state

Population: 2,100 (estimated) in 1988, a change of -9.3 percent from

Median age: 38.7 years in Garfield County, 29.7 years in Nebraska in 1980

Per capita personal income: \$11,558 in 1987, ranks 88th in the state Net taxable retail sales (\$000): \$12,038 in 1988, a change of +20.4 percent from 1987; \$11,981 during 1989, a change of -0.5 percent from the same period one year ago

Number of business and service establishments: 82 in 1987; 62.2 percent had less than five employees

Unemployment rate: 4.6 percent in Garfield County, 3.6 percent in Nebraska for 1988

Nonfarm employment (1988):

in employment (1900).		
	State	Garfield County
Wage & salary workers	688,146	632
	(percent of total)	
Manufacturing	13.8%	8.7%
Construction and Mining	3.8	4.9
TCU	6.5	3.2
Retail Trade	18.5	22.5
Wholesale Trade	7.3	9.6
FIRE	7.0	3.8
Services	23.0	22.3
Government	20.1	<u>25.0</u>
Total	100.0%	100.0%

Agriculture:

Number of farms: 248 in 1987, 268 in 1982 Average farm size: 1.314 acres in 1987

Market value of farm products sold: \$18.8 million in 1987

(\$75,818 average per farm)

Sources: U.S. Bureau of the Census, U.S. Bureau of Economic Analy sis, Nebraska Department of Labor, Nebraska Department of Revenue Merlin W. Erickson

Business in Nebraska

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April 1990, Volume 45 No. 547

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