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Golfers and Golf Courses

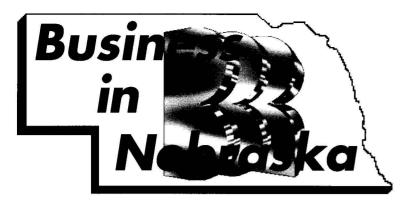
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This Issue:

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Golfers and Golf Courses

Donald Nielsen, Ph.D., and Roger P. Sindt, Ph.D. Department of Economics, University of Nebraska at Omaha

Golf continues to be a popular recreational activity. National Golf Foundation statistics (Table 1) provide a glimpse of this popularity. According to these numbers, 24.5 million persons (11.6 percent of the U.S. population age 12 and above) played golf in the U.S. in 1993. This represents a 1.2 percent decline since the number of U.S. golfers peaked in 1990 at 27.8 million. After falling to 24.8 million in 1991, the U.S. golf population has remained relatively steady.

			-							
			(To Growth of	able 1 Golf in the	e U.S.				
		1970	1975	1978	1979	1980	1981	1982	1983	1984
Golfers (million	s)	11.2	13.0	14.0	14.6	15.1	15.6	16.0	16.5	17.0
Rounds played	(millions)	266	309	337	346	358	368	3 <i>7</i> 9	391	403
Golf facilities Daily fee Municipal Private		10,188 4,248 1,321 4,619	11,370 5,014 1,586 4,770	11,885 5,271 1,742 4,872	11,966 5,340 1,778 4,848	12,005 5,372 1,794 4,839	12,035 5,428 1,818 4,789	12,140 5,494 1,848 4,798	12,197 5,528 1,860 4,809	12,278 5,566 1,881 4,831
Golf courses Daily fee Municipal Private		10,848 4,513 1,461 4,874	12,306 5,473 1,748 5,085	12,684 5,622 1,894 5,168	12,788 5,702 1,940 5,146	12,849 5,741 1,957 5,151	12,894 5,802 1,989 5,103	13,013 5,871 2,019 5,123	13,084 5,915 2,032 5,137	13,181 5,961 2,056 5,164
		1985	1986*	1987*	1988*	1989*	1990*	1991*	1992*	1993*
Golfers (million	s)	17.5	19.9	21.2	23.0	24.2	27.8	24.8	24.8	24.5
Rounds played	(millions)	415	419	431	484	469	502	479	505	499
Golf facilities Daily fee Municipal Private		12,346 5,573 1,912 4,861	12,384 5,585 1,912 4,887	12,407 5,583 1,926 4,898	12,582 5,748 1,937 4,897	12,658 5,833 1,963 4,862	12,846 6,024 2,012 4,810	* * * * * *	* * * * * *	13,439 6,803 2,144 4,492
Golf courses Daily fee Municipal Private		13,254 5,968 2,090 5,196	13,353 6,004 2,098 5,251	13,436 6,025 2,122 5,289	13,626 6,203 2,135 5,288	13,738 6,296 2,166 5,276	13,951 6,497 2,222 5,232	* * * * * *	* * * * * *	14,648 6,803 2,144 4,915
100-4				2 10 10 7 3	La v com	to some or	1 12			

^{*}The estimated number of golfers and rounds played for 1986 through December 31, 1993, is based on golfers age 12 and over and is not directly comparable to previous estimates that are based on golfers age 5 and over. *Not provided but available from National Golf Foundation.

ource: NGF/Golf Participation in the U.S. (1991 and 1994 editions) and NGF/Golf Facilities in the U.S. (1991 and 1994 editions)

Although the number of golfers age 12 and over has more than doubled during the 1970-1993 interval, the number of rounds played per individual golfer has dropped from an average of 24 in the 1970s and 1980s to an average of 20 per year in the 1990s. The total number of rounds played annually also has remained relatively level at nearly a half-billion rounds.

In 1970, there were 10,848 golf courses in the 48 contiguous states. About 194 courses on average were added annually during the 1970s. Development slowed to an average of 89 new courses per year during the 1980s. During the 1990s, course development has increased to an average of nearly 200 new courses per year.

In contrast to the national data that show a participation rate of about 11.6 percent, 2.4 million persons in 1993 played golf in the west north central region. These persons represent 16.0 percent of the region's population age 12 and over (Table 2). The participation rate in Nebraska was even higher at 17.4 percent. Nebraska's participation rate trails only North Dakota, Minnesota, and lowa in the west north central region.

The National Golf Foundation reported that 358 new golf courses opened in 1993 nationwide, bringing the total number of courses in the U.S. to 14,648. In addition, golf courses under construction numbered 671 nationwide with 508 new golf courses scheduled to open in 1994. The

number of new courses opening in 1993 in the west north central region and in Nebraska totaled 32 and 7, respectively, with 96 under construction in the region and 14 under construction in the state.

> The numbers of courses and holes in 1993 by various categories for Nebraska, the west north central region, and the U.S. are presented in Table 3. The table indicates that the west north central region and Nebraska have more 9-hole courses than 18-hole courses, while the nation has a higher proportion

of 18-hole courses than 9-hole courses.

Comparing the number of courses with the 1993 population for each of the three areas shows that Nebraskans have about twice as many golf courses per 10,000 population as the nation as a whole. Likewise, the number of holes per 10,000 residents for Nebraska and the west north central region exceeds the nation as a whole.

In summary, golf continues to be popular in the U.S., the west north central region, and Nebraska. Participation has increased significantly from 1985 through 1993.

Nebraska had a total of 186 courses with 2,178 holes in 1993. National Golf Foundation statistics show that the demand for golf courses in Nebraska is likely to continue favorably through the 1990s as a result of population growth and increasing participation rates.

				To	able 2					
Golfers	and	Participation	Rates	in	Selected	Areas	1985,	1989,	&	1993*

	1	985	19	989	19	93
Area	Golfers	Participation Rate ¹	Golfers	Participation Rate ¹	Golfers	Participation Rate ²
Nebraska	158,804	10.1	177,045	12.0	228,000	17.4
West North Central lowa Kansas Minnesota Missouri North Dakota South Dakota	1,953,580 395,293 278,240 595,235 388,959 67,734 69,315	11.4 14.0 11.6 14.5 7.9 10.1 10.0	2,152,437 394,752 276,264 694,477 432,844 89,298 87,757	13.2 15.2 12.1 17.6 9.1 14.3 13.6	2,360,000 407,000 279,000 711,000 545,000 97,000 93,000	16.0 17.5 13.5 19.4 12.7 18.9 16.2
United States	20 218 565	9.1	24 700 000	10.8	24.500.000	11.6

^{*}National Golf Association Golf Participation in the U.S., 1986, 1990, and 1994 editions.

¹Percentage of all Americans 5 and older who played golf at least one time within the survey year.

²Percentage of anyone age 12 and above who played at least one round of golf during 1993.

			Table 3			
	Numbers o	f Golf Courses	and Holes	by Selected	Areas, 1993	
	Nebr Courses	r aska Holes	West Central Courses	North Region Holes	United Courses	States Holes
Totals	186	2,178	1,739	21,051	14,648	214,092
Size: 9-hole 18-hole > 18-holes Length:	127 56 1	1,143 1,008 27	1,086 547 106	9,774 9,846 1,431	4,800 7,627 2,221	43,200 137,286 33,606
Regulation Executive Par 3	163 12 11	1,944 125 108	1,570 99 70	19,323 1,053 675	13,042 864 <i>7</i> 42	195,345 10,566 8,181
Type: Daily fee Municipal Private	85 44 47	936 513 729	837 362 540	9,576 4,599 6,876	7,370 2,363 4,915	103,923 34,542 75,627
Total per 10,000 population	1.15	13.50	0.96	11.66	0.57	8.32
Source: National Golf Found	ation, Golf Facilities i	n the United States, 1994 ed	dition			i

Nebraska Population, 1990-2010

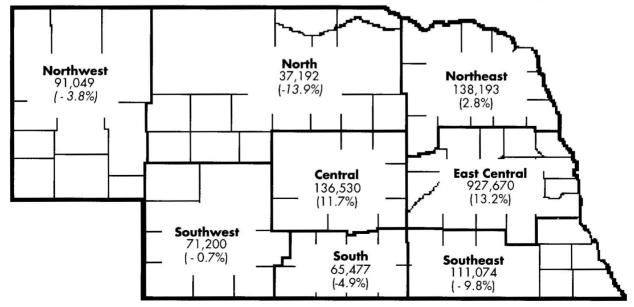
John S. Austin and Teik L. Tan

Introduction

This article presents forecasts of Nebraska's population to the year 2010. Total population will grow more rapidly in the foreseeable future than it has in the recent past, increasing 3.5 percent from 1990 to 2000. In the following decade, the state's population will increase 3.9 percent, resulting in a 7.6 percent gain in population from 1990 to 2010. These future increases contrast to the slow population growth in the 1980s when the state's population increased only 0.5 percent. The implications of a repeat of that pattern were presented in the Bureau of Business Research's 1994 Annual Economic Outlook Report.

The overall gain in the state's future population masks the dynamics of population changes within the state's 93 counties. Figure 1 presents growth rates from 1990 to 2010 and 1990 populations for the eight regions in the state. The diversity in future growth rates is apparent. Population will decrease 13.9 percent in

Figure 1 Nebraska's 1990 Population and 1990-2010 Growth Rates (percent) by Region



the north region but increase 13.2 percent in the east central region. The east central region contains all but one of the state's six metropolitan counties.

Growth in Rural vs. Metropolitan Counties

For discussion purposes, counties are grouped into four types: rural, small trade center, large trade center, and metropolitan counties. The definitions of county types are contained in the accompanying sidebar. Figure 2 presents a comparison of the growth rates for the four groups. The comparison shows that rural counties will continue to experience the highest rates of outmigration. By the year 2010, Nebraska's total rural county population will have decreased to 180,111 persons, a drop of 13.1 percent from 1990. Only two of the 52 rural counties in Nebraska will experience population increases by 2010.

Population losses will be smaller in the group of counties classified as small trade centers. Population in these counties will drop 2.7 percent over the next 20 years. That decrease contrasts with a decrease of 7.1 percent from 1980 to 1990. Only eight of the 23 small trade center counties in Nebraska will experience increases in population by 2010. Each of these counties is adjacent to

larger, growing counties.

Population will increase in counties classified as large trade centers. The population of large trade centers in the state will increase 9.5 percent from 1990 to 2010. Four of the 12 counties classified as large trade center counties in Nebraska are expected to lose population by the year 2010. Three of these four counties will experience only slight decreases in population. The single county with a relatively large decrease in population is isolated from other growing counties.

Finally, population in the metropolitan counties of the state will grow more rapidly than in any of the other groups. The metropolitan counties in Nebraska as a whole will grow 15.3 percent from 1990 to 2010. Each metropolitan county in Nebraska will gain population over the next 20 vears.

County Types Defined

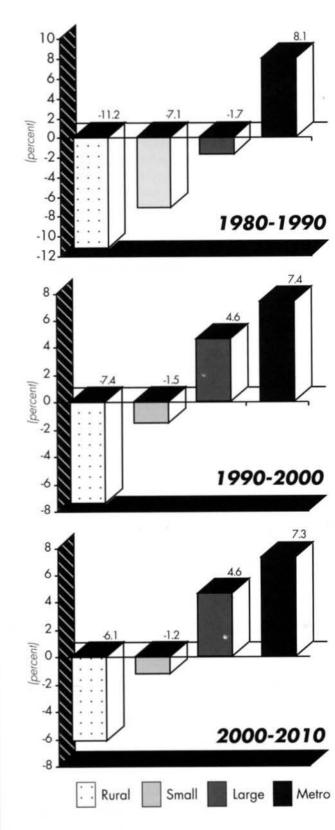
*A rural county is defined as one containing no city, town, or village with a population above 2,500.

*Small trade center counties contain a city, town, or village with a population greater than 2,500 but less than 7,500.

*Large trade center counties are those not in metropolitan areas, which contain a town or city with population above 7,500.

*A metropolitan county is one classified by the U. S. Department of Commerce as being in a metropolitan statistical area.

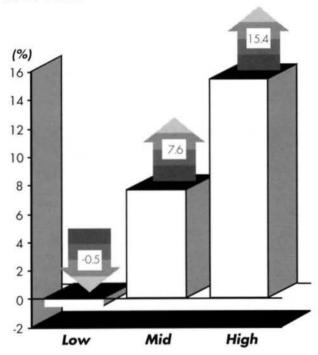
Figure 2 Population Change by County Type (percent)



Alternative Scenarios

Low and high scenarios were developed for each county in order to compare a range of possible future population outcomes. The low scenarios assumed low projected birth rates, high projected mortality rates, and the most pessimistic outlook on migration by county from our forecast panel. The high scenarios reversed these assumptions. Figure 3 displays the results. Under the low scenario the state would lose population from 1990 to 2010. Under the high scenario the population gain would be 15.4 percent.

Figure 3
Alternative Scenarios
Population Growth Rates for State Totals
1990-2010



Summary

By the end of the forecast period (the year 2010), 17 of the state's 93 counties will have populations below 2,000. Twelve counties will

have populations below 1,000.

Rural population loss can be viewed in terms of the decrease in the rural share of the state's population. In 1980, 14.9 percent of the state's population resided in rural counties. By 1990, the share had dropped to 13.1 percent. According to our projections, the proportion of Nebraskans living in rural counties will drop to 10.6 percent by the year 2010.

Past outmigration limits future growth possibilities. The largest numbers of those who migrate from counties tend to be of prime childbearing age. Some of Nebraska's counties had such large outmigrations of these key age groups in the 1980s that the ability of those counties to grow—even if future outmigration came to a halt—has been impaired severely.

Demographic forecasts are estimates of what will happen if matters proceed as expected. Circumstances can be altered by internal or external forces. It is clear, however, that if unchecked, rural Nebraska counties will continue to experience de-

creasing populations.

The details behind the forecasts in this article are contained in a BBR monograph by the authors. The monograph presents county forecasts by five year age groups to age 84 in the years 2000 and 2010. It also contains a summary of the alternative forecast scenarios by county as well as a set of forecasts classified by county size. To order the monograph, see page 8.

Acknowledgments

We would like to thank the following persons who made valuable contributions to the development of the net migration projections: John Allen, Department of Rural Sociology, UNL; Jerry Deichert, Center for Public Affairs Research, UNO; Bruce Johnson, Department of Agricultural Economics, UNL; Don Macke, Nebraska Department of Economic Development; Tom Moloney, Nebraska Department of Labor; Donis Petersan, Nebraska Public Power District; Garth Taylor, Department of Agricultural Economics and Business Economics, UNL Panhandle Research and Extension Center, Scottsbluff.

Methodology

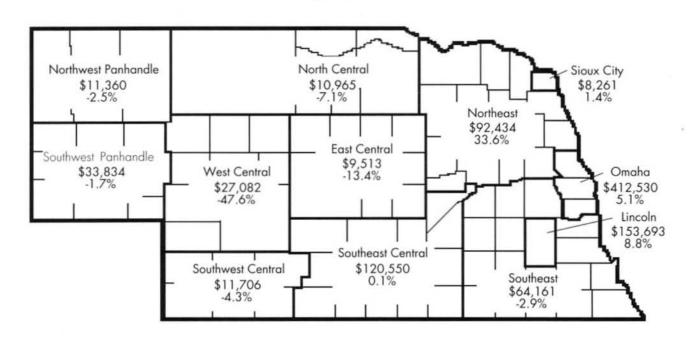
Our population forecasts are generated by standard demographic methods. We first developed projections of the underlying natural growth by standard tables for projected birth and mortality rates. We modified these results to fit the Nebraska experience. For example, we found that rural counties had higher birth rates than were indicated by the standard tables. We developed special techniques to handle eight counties that had large proportions of college age persons.

tions of college age persons.

Critical to the projections are the migration forecasts. We developed county migration forecasts by assembling a panel of experts familiar with the demographics and economics of Nebraska. The migration forecasts were developed in light of historical migration patterns over the decades of the 1960s, 1970s, and 1980s and in consideration of changes in the state and in local areas that would influence migration patterns at the county level. Average estimates for each county were used for the migration rates employed in these projections.



October 1994 Regional Retail Sales and Percent Change from Year Ago (\$000)



	Price Inc	lices	
	December 1994	% Change vs. Year Ago	YTD % Change vs. Year Ago
Consumer Price Index (1982-84 = 100) All Items Commodities Services	- U* 149.7 135.1 164.7	2.7 2.3 2.9	2.6 1.7 3.3
U* = All urban consume Source: U.S. Bureau of Labor Str			

	Revised October 1994	Preliminary November 1994	% Change vs. Year Ago
Place of Work Nonfarm Manufacturing Durables Nondurables Mining & Construction TCU* Trade Retail Wholesale FIRE** Services Government Place of Residence	795,335 107,002 52,033 54,969 36,175 48,429 199,658 54,798 144,860 50,284 198,723 155,064	803,140 108,315 52,600 55,715 35,743 48,564 201,348 54,626 146,722 50,491 198,460 160,219	3.5 6.3 1.3 3.7 2.5 5.0 1.5 0.3 4.4 5.3
Civilian Labor Force Unemployment Rate	875,539 2.2	873,835 2.1	1.5

September 199	ess Indicators 4 Percent Change Year Ago
The State and Its Trading Centers	Employment (1)
NEBRASKA Alliance Beatrice Bellevue Blair Broken Bow Chadron Columbus Fairbury Falls City Fremont Grand Island Hastings Holdrege Kearney Lexington Lincoln McCook Nebraska City Norfolk North Platte Ogallala Omaha Scottsbluff/Gering Seward Sidney South Sioux City York	2.4 2.1 4.1 1.4 4.3 3.2 3.7 2.6 2.8 3.4 2.7 2.8 4.9 3.1 0.8 2.9 4.0 3.6 2.9 4.0 3.2 4.1 3.2 4.1 3.2 4.1 4.1 3.2 4.2 4.3 4.3 4.3 4.3 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6
	ployment, total employment (labo in which a city is located is used

October 1994 % Change October 1994 % Change (\$000) vs Year Ago (\$000) vs Year Ago	
Demoka 371,951 5.1 Woverly C03 6.7 Combined 152,227 So. 0 Funder 390 1.4 Amount 1.4 Company Co	A72476483208248185667891655431848414696983667964033338484855368082705212951605328

Population Projections Report



A report on Nebraska population projections to 2010 is currently available from the Bureau of Business Research (BBR). The report contains county level projections by age

The cost is \$12.50 per copy, including postage and han-

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County of the Month Next County of Month

License plate prefix number: 48

Size of county: 718 square miles, ranks 35th in the state Population: 11,705 in 1990, a change of -7.2 percent from 1980

Median age: 35 years in Red Willow County, 33.0 years

in Nebraska in 1990

Per capita personal income: \$16,977 in 1992, ranks

63rd in the state

Net taxable retail sales (\$000): \$118,467 in 1993, a change of 1.4 percent from 1992; \$86,882 during January-October 1994, a change of 1.7 percent from the same period one year ago

Number of business and service establishments: 453 in 1991; 56.5 percent had less than five employees

Unemployment rate: 2.4 percent in Red Willow County,

2.9 percent in Nebraska for 1993 No

onfarm employment (19	993):	Red Willow
360 8	State	County
Wage and salary workers	762,703	4,837
		ent of total)
Manufacturing	13.5%	9.9%
Construction and Mining	4.3	5.2
TCU	6.2	5.9
Retail Trade	18.4	25.6
Wholesale Trade	6.8	10.7
FIRE	6.6	4.0
Services	24.6	16.8
Government	19.6	22.0
Total	100.0%	100.0%

Agriculture: Number of farms: 425 in 1992, 489 in 1987

Average farm size: 1,034 acres in 1992 Market value of farm products sold: \$81.1 million in

1992 (\$190,819 average per farm)

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



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