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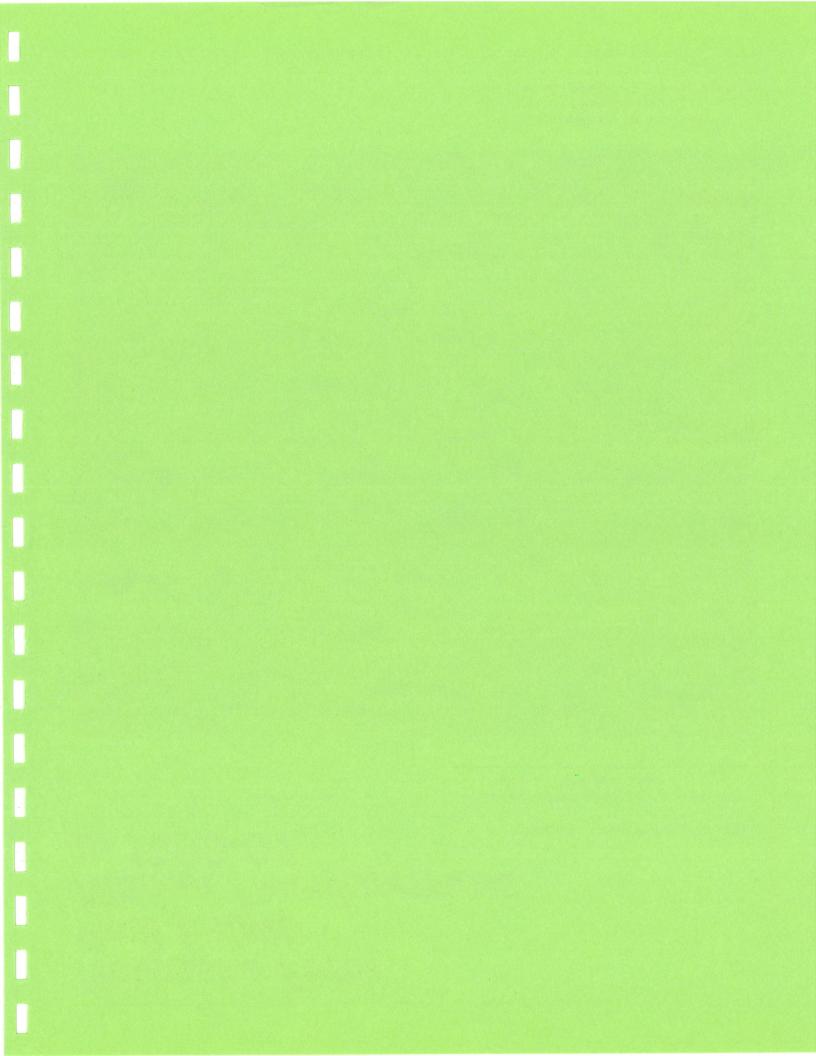
Nebraska Farm Real Estate Market Developments in 1980-81

By Bruce B. Johnson & Ronald J. Hanson

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The Agricultural Experiment Station
University of Nebraska-Lincoln
Institute of Agriculture & Natural Resources



NEBRASKA FARM REAL ESTATE MARKET DEVELOPMENTS IN 1980-81

bу

Bruce B. Johnson & Ronald J. Hanson*

June, 1981

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The authors wish to express their appreciation to the survey reporters for their participation in completing and returning the Nebraska farm real estate market survey questionnaire. Without their efforts and interest, the availability and publication of the data within this report would not be possible. Special thanks is also extended to the Federal Land Bank of Omaha for providing the farmland sales data for Nebraska published in this report.

* * * * * * *

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SUMMARY

Farmland values have steadily appreciated over the past four decades, but the largest advances have occurred since 1971. During the last ten years, Nebraska farmland values have increased nearly twice as fast as inflation.

However, the past year ending February 1, 1981, was an exception. Farmland in Nebraska appreciated about 10 percent, which was comparable to the overall rise in the General Price Level. So, in real terms (purchasing power), farmland values were essentially stable across the State during the last year.

Considerable variation in value trends across Nebraska was evident in the findings of the Department of Ag Economics fourth annual farm real estate market developments survey for 1980-81. The largest percentage gains were reported in the western portions of the State, while severe drought conditions contributed to the more moderate changes in the eastern areas.

These estimated average values reported obviously represent a wide range of land values, even within the same areas of the State. For virtually all types of farmland, it is not uncommon for high grade land to be valued more than 50 percent higher than low grade land. Consequently, these estimated values are very generalized, serving as benchmarks or indicators of changes rather than as proxies for values of specific farmland tracts in an area.

Market participation continues to be dominated by those buying land for expansion of present operations and/or investments to hedge against inflation. Thus, the buying side of the farmland market tends to remain sensitive to those economic conditions within the farm production sector. On the selling side, estate settlement and retirement sales constitute the bulk of market activity. Most farmland is locked into an existing operation with the owners having little or no intention of offering their land for sale. Thus, these characteristics tend to slow farmland value appreciation during periods of economic uncertainty and push values even higher during improved economic conditions.

NEBRASKA FARM REAL ESTATE MARKET DEVELOPMENTS IN 1980-81

Introduction

This report is the fourth in a continuing annual series concerning developments and trends in the farm real estate market. The compiled information has been drawn from several sources. A major source is the 1981 Nebraska Farm Real Estate Market Survey conducted by the Department of Agricultural Economics at the University of Nebraska-Lincoln. In addition, several data series published by the U.S. Department of Agriculture have been used. Agricultural census information compiled by the U.S. Department of Commerce and unpublished data from the Nebraska Crop and Livestock Reporting Service were also used in this report.

Included in this report are: 1) estimates of current market values for Nebraska farmland and associated value trends; 2) characteristics of farmland transfers; and 3) 1981 cash rental rates for Nebraska farmland. Also included are several historical data series located in the Appendix.

Trends in Farmland Values

For four decades, the value of farm real estate in Nebraska has steadily increased (Appendix Table 1). During that period, the average value of Nebraska farmland has climbed from less than \$25 per acre to nearly \$660 per acre today. The per farm value of real estate, which was under \$10,000 in 1940, now averages nearly \$500,000.

Nebraska's farming sector were down in 1980 as a result of drought-stressed yields, sharply higher input costs, and low prices for several products. Thus, active farmers, the major buyer group in Nebraska's farmland market, were generally cautious during the past year. In addition, record high interest rates probably tended to further reduce market enthusiasm for buying land.

The situation described above was not unique to Nebraska. More moderate advances in land values were generally recorded throughout the country with the 48-state average being a 9 percent gain. Throughout much of the Midwest, farmland value gains were below the national average. For Nebraska's neighboring states, the rates of increase for the 12-month period ending February 1, 1981, were as follows: South Dakota, 6.0 percent, Iowa, 7.1 percent; Missouri, 7.1 percent; Kansas 3.0 percent; Colorado, 8.6 percent; and Wyoming, 7.1 percent.

For obvious reasons, it is increasingly important that inflation be considered in economic trend analysis. Given a general rate of inflation in the economy, the face (or nominal) value of an asset such as farmland, must appreciate at a rate at least equivalent to that of inflation for the owner to maintain an equivalent purchasing power. If the nominal rate of appreciation falls below the inflation rate, then the real value of the asset has fallen.

Historically, the increase in farmland values have outpaced the general rate of inflation. This has afforded landowners not only an effective hedge against inflation but also a mechanism to enhance their asset (or wealth) position in real (purchasing power) terms. For example, those who have owned Nebraska farmland over the past 10 years have seen this asset grow in value roughly twice as fast as inflation. Real gains in purchasing power to land-

owners have averaged 7 percent per year. The value of a dollar compounded annually at 7 percent per year will double in 10 years. Hence, these farmland owners have seen the real value of their asset double in 10 years time.

Although this long run trend has been favorable, year-to-year fluctuations have been considerable. According to Appendix Table 2, annual changes in deflated farmland values for Nebraska since 1971 have ranged from -8.7 percent to over 19 percent.2/

For the year ending February 1, 1981, Nebraska farmland values in real terms remained essentially stable. While the nominal appreciation for farmland averaged 9.7 percent, the General Price Level advanced 9.4 percent from the first quarter of 1980 to the first quarter of 1981; thus essentially negating the nominal increase in value. In the case of irrigated land, the State average increase was only 7.7 percent or nearly 2 percent below the rate of inflation, implying a slight reduction in the real value of Nebraska's irrigated land.

One must recognize, however, that the State's farmland base is highly variable. This is quite obvious in Appendix Table 3 which presents county land value data from the 1978 Census of Agriculture. As a consequence, farmland value trends must be analyzed with a greater degree of refinement than that offered by this USDA series. The annual Nebraska Farm Real Estate Market Survey is one mechanism designed to provide this greater detail for farmland value levels and trends.

^{2/} The General Price Level using the GNP implicit price deflator is used in this analysis as a measure of inflation. For production assets such as farmland, this is believed to be a more appropriate measure of inflation than the Consumer Price Index (CPI) which is weighted heavily towards consumer items.

1981 Nebraska Farm Real Estate Market Survey

Each February 1st, the Department of Agricultural Economics-UNL conducts a statewide mail survey of farm real estate market conditions. Questionnaires are mailed to about 500 reporters comprised of rural appraisers, real estate brokers, professional farm managers, farm mortgage lenders, and others knowledgeable of the current land market in their area. The findings of the 1981 survey are reported in the following sections.

Reported 1981 Farmland Values for Nebraska

Survey reporters were asked to estimate farmland values in their respective counties as of February 1, 1981. Estimates were made for seven major classes of farmland. These estimates were then aggregated by crop reporting district. These districts are shown in Figure 1.

The survey findings reveal substantial variation in market conditions among many areas of the State (Table 2). During the year ending February 1, 1981, strongest market conditions were evident in western Nebraska. The largest percentage increases in farmland values were reported in the Panhandle (Northwest Crop Reporting District). Dryland cropland and tillable grazing land values in that area were reportedly more than 20 percent higher than a year earlier. Strong value advances in dryland cropland having no irrigation potential also occurred in the Southwest and South Districts. In large measure, these gains were probably attributed to a record 1980 wheat crop and improved price levels. Likewise, economic conditions for other crops in western Nebraska also showed improvement during the past year, thus leading to more "bullish" activity in the land market for that area.

In rather marked contrast was the eastern part of the State where modest value advances generally occurred. Rather severe drought conditions

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StanMadison ton Cuming Bi Polk Butler Saunders Platte Coffax Dodge Caster Caster Nuckolls Thayer Jefferson Ge York Seward Clay Fillmore Saline Cedar Knox Hamilton Antelope Nance Sherman Howard Merrick Boone Pheips Kearney Adams Harlan Franklin Webster Valley Greeley Loup Garfield Wheeler Ē Boyd HoH central sduth Buffalo Rock north Dewson Keya Paha Custer Brown Furnas Blaine Red Willow Thomas Sga. Frontier Lincoln sduthwest McPherson Hayes Hitchood Hooker Cherry Arthur Perkins Kerth Grant Chase Dundy Sheridan Deuel northwest Box Butte Cheyenne Morrill Sætts Bluff Kimball Benner

NEBRASKA CROP REPORTING DISTRICTS

Figure 1

Table 2. Average Reported Value of Nebraska Farmland For Different Types of Land by Crop Reporting District, Feb. 1, 1980 and Feb. 1, 1981.

m		· r · · · · · · · ·	Crop	Reporting	District			
Type of Land & Year	North- west	North	North- east	Central	East	South- west	South	South- east
				Dollars Pe	r Acre -			
Dryland Cropland	(No irriga	ation pote	ential)					
Rpted in 1981 Rpted in 1980	419 347	346 340	1,009 920	519 471	1,409 1,296	546 454	754 626	1,060 971
% Change	20.8	1.8	9.7	10.2	8.7	20.3	20.5	9.2
Dryland Cropland	(Irrigatio	n potenti	al)					
Rpted in 1981 Rpted in 1980	680 533	533 563	1,225 1,132	880 767	1,785 1,733	733 628	1,432 1,282	1,402 1,352
% Change	27.6	-5.3	8.2	14.7	3.0	16.7	11.7	3.7
Grazing Land (Till	lable)							
Rpted in 1981 Rpted in 1980	251 200	257 261	622 583	435 395	881 760	332 307	697 621	. 636 643
% Change	25.5	-1.5	6.7	10.1	15.9	8.1	12.2	-1.1
Grazing Land (Nont	illable)							
Rpted in 1981 Rpted in 1980	164 143	182 169	418 394	339 304	620 549	217 190	398 346	474 473
% Change	14.7	7.7	6.1	11.5	12.9	14.2	15.0	0.2
Hayland								
Rpted in 1981 Rpted in 1980	323 301	331 338	558 506	482 441	738 699	368 349	417 402	532 554
% Change	7.3	-2.1	10.3	9.3	5.6	5.4	3.7	-4.0
Gravity Irrigated	Cropland							
Rpted in 1981 Rpted in 1980	1,555 1,369	1,054 1,020	1,781 1,547	2,088 1,976	2,403 2,317	1,493 1,329	2,230 2,046	2,026 1,968
% Change	13.6	+3.3	15.1	5.7	3.7	12.3	9.0	3.0
Center Pivot Irrig	ated Crop1	andb/						
Rpted in 1981 Rpted in 1980	973 894	816 886	1,456 1,372	1,312 1,223	2,110 2,043	1,105 971	1,732 1,535	1,900 1,795
% Change	8.8	-7.9	6.1	7.3	3.3	13.8	1.2.8	5.9

a/ Source: 1980 and 1981 Nebraska Farm Real Estate Market Survey.

 $[\]underline{b}$ / Value of pivot not included in per acre value.

prevailed there in 1980 and likely weakened market enthusiasm for a time. Even when crop commodity prices rebounded in mid-year, caution continued to exist. As a result, most eastern Nebraska farmland appreciated at rates below the general level of inflation, and owners of farm real estate in these areas experienced some loss in the purchasing power of their land assets during the year ending February 1, 1981.

In the North Crop Reporting District, which is basically the Sandhills, little or no appreciation occurred. In fact, certain types of land reportedly declined in dollar and/or nominal value during 1980. Again, drought conditions and the resulting declines in cropland and rangeland production seemed to be a major dampening effect.

These current changes in values and the apparent sensitivity of these values to farm income conditions supports the argument that the farm real estate market tends to move somewhat erratically in the short run. Real and even nominal decreases in farmland values for a local area can and do occur in any given year as the short run economic outlook changes. However, longer run expectations generally predominate in the farmland market. As a consequence, the 1980 performance in some areas in terms of little or no appreciation, may be merely a momentary slowup and adjustment in expectations in an otherwise upward climbing trend in farmland values. This can be seen in Appendix Table 4 and Table 3 which offer an expanded time perspective (three years). Appendix Table 4 presents the entire series of reported land values (1978-81) from the Nebraska Farm Real Estate Market Survey. Table 3 presents the total percentage change and the annual average for the past three years. Over this three-year period, appreciation has occurred in all regions of Nebraska for all types of farmland. In most

Table 3. Changes in Farmland Values, 1978-81: Total Percentage Change and Average Annual Change, For Different Types of Land by Crop Reporting District. a/b/

	!		Cro	p Reporting	Distric	t		
Item	North- west	North	North- east	Central	East	South- west	South	South- east
				Percent				
Dryland Cropland (No Irrigati	lon Poter	tial)					
1978-81 Total % Change	45.0	36.8	55.7	62.7	72.5	51.7	61.1	60.6
Annual Ave.	13.2	11.0	15.9	17.6	19.9	14.9	17.2	17.1
Dryland Cropland (Irrigation	Potentia	1)					
1978-81								
Total % Change Annual Ave.	66.3 18.5	37.7 11.2	65.3 18.2	49.2 14.3	58.2 16.5	55.6 15.9	64.0 17.9	47.1 13.7
				,5	~~~	2017		
Grazing Land (Till	able)							1
1978-81	11.0	0.4	40.7		40.5	<i></i>		
Total % Change Annual Ave.	41.8 12.3	34.6 10.4	43.7 12.8	45.5 13.3	60.5 17.1	54.4 15.6	49.9 14.4	46.9 13.7
		•						19
Grazing Land (Nont	illapre)							
1978-81	42.6	44.4	35.7	56.9	61.5	82.4	48.5	50.5
Total % Change Annual Ave.	12.5	13.0	10.7	16.2	1.7.3	22.1	14.1	14.6
		2310	200.					
Hayland) · · ·
1978-81								
Total % Change	39.2	24.4	50.8	29.6	54.7	59.3	39.9	43.4
Annual Ave.	11.6	7.5	14.7	9.0	15.7	16.8	11.8	12.8
Gravity Irrigated	Cropland							
1978-81								
Total % Change	24.8	32.4	72.9	35.2	48.0	31.7	5 7.9	44.3
Annual Ave.	7.7	9.8	20.0	10.6	13.9	9.6	16.4	13.0
Center Pivot Irrig	ated Cropla	ınd						
1978-81								
Total % Change	26.2	20.4	52.3	49.6	42.2	35.9	69.3	47.7
Annual Ave.	8.1	6.4	15.0	14.4	12.4	10.7	19.2	13.9

a/ Source: Annual Nebraska Farm Real Estate Market Surveys, 1978-81.

 $[\]underline{b}$ / Annual average change compounded annually.

cases, these value increases have exceeded the amount of inflation (30 percent) during this 3-year period. $\frac{3}{}$ The only exceptions were center pivot irrigated land in the Northwest and North Districts, gravity irrigated land in the Northwest, and hayland in the North and Central Districts.

The average market values previously discussed usually represent a wide range of land values, even within a crop reporting district (Table 4). For example, the per acre dollar differential between high grade and low grade gravity irrigated land in Central Nebraska approaches \$1,000 per acre. For virtually all types of farmland, it is not uncommon for the high grade land to be valued more than 50 percent higher than the low grade land. This implies that the estimated average values are, by nature, very generalized, serving as benchmarks and indicators of change rather than as proxies for the value of specific tracts.

Farm Real Estate Market Activity

Based upon estimates compiled by USDA, the annual turnover rate in ownership of Nebraska farmland dropped about five percent during the year ending February 1, 1981 (Table 5). The total transfer rate per 1,000 farms was 36.3 transfers as compared with 38.3 during the previous 12-month period. The distribution of title transfers by type of transaction was basically unchanged. Voluntary sales accounted for nearly three-fifths of all transfers.

These figures would suggest that approximately 2,300 farm title transfers took place in Nebraska during the year ending February 1, 1981. Since these transfers typically are not whole farm units but rather parcels, the 36

^{3/} Inflation as measured by the change in the General Price Level, 1st quarter 1978 to 1st quarter 1981. Refer to Appendix Table 2 for more detail.

Table 4. Average Reported Value Per Acre of Nebraska Farmland, For Different Types of Land and Grade by Crop Reporting District, Feb. 1, 1981.4

m			Crop	Reporting 1	District			
Type of Land & Quality <u>b</u> /c/	North- west	North	North- east	Central	East	South- west	South	South- east
				ollars Per	Acre			
Oryland Croplan	nd (No Iri	rigation F	otential)					
Average	419	346	1,009	519	1,409	546	754	1,060
High Grade	520	380	1,380	685	1,550	625	890	1,290
Low Grade	340	270	820	415	1,025	405	580	820
Dryland Croplar		ation Pote	ntial)					1
Average	680	533	1,225	880	1,785	733	1,432	1,402
High Grade	745	610	1,480	1,260	1,995	800	1,565	1,575
Low Grade	510	420	980	700	1,325	565	925	1,105
Grazing Land (1	Tillable)						1 1 1 K I	
Average		257	622	435	881	332	697	636
High Grade	285	325	750	530	1,035	400	865	700
Low Grade	190	225	550	375	730	260	470	51 .5
Grazing Land (1	Nontillab	le)						
Average	164	182	418	339	620	217	398	474
High Grade	19.5	230	535	375	760	245	480	525
Low Grade	135	135	340	265	500	180	330	350
Hayland								
Average	323	331	558	482	738	368	41.7	532
High Grade	370	395	795	560	905	490	535	620
Low Grade	260	270	420	355	640	305	365	473
Gravity Irrigat	ted Cropla							
Average	1,555	1,054	1,781	2,088	2,403	1,493	2,230	2,026
High Grade	1,930	1,385	2,090	2,450	2,705	1,665	2,465	2,275
Low Grade	1,100	935	1,445	1,480	1,820	1,165	1,655	1,630
Center Pivot I	rrigated (Cropland <u>d</u> /	•					
Average	973	816	1,456	1,312	2,110	1,105	1,732	1,900
High Grade	1,000	910	1,745	1,555	2,295	1,215	1,815	2,075
Low Grade	710	610	1,130	930	1,595	850	1,270	1,545

a/ Source: 1981 Nebraska Farm Real Estate Market Survey.

 $[\]underline{b}'$ The terms, High Grade and Low Grade Lands, were interpreted by the individual reporter to represent an approximation of range in average values for each particular type of land in his area. No specific designation as to particular soil type or other quality classification was made.

 $[\]underline{c}$ / High Grade and Low Grade estimates are rounded to the nearest \$5.

 $[\]underline{d}$ / Pivot not included in per acre value.

Table 5. Estimated Number of Farm Title Transfers Per Thousand Farms in Nebraska, by Type of Sale, Year Ending March 1, 1960-1981.a/b/

				Inheritance,	
V	Voluntary	Estate	Forced Sales	Gifts, and	Total
Year	Sales	Settlements	(Foreclosures,	All Other	10041
		of Tax Sales	Tax)	Transfers	
		Nun	nber per 1,000 Far	rms	
1960	. 19.5	•7	.8	16.6	37.6
1961	. 21.5	.9	•9	17.2	40.5
1962	. 18.0	. 2	• 4	15.3	33.9
1963	22.0	.3	_ '	13.3	35.6
1964	. 18.5	-	•4	15.9	34.8
1965	. 27.6	• 7	•5	11.8	40.6
1966	and the second s	_	1.0	19.2	48.4
1967			.7	12.6	40.3
1968		-	· -	12.1	39.0
1969	. 22.1	•3	_	13.5	35.9
1970	. 23.5		0.6	12.0	36.1
1971	. 19.4	_ 1 ***	0.7	12.6	32.7
1972	29.7	8.0	1.0	3.8	42.5
1973	. 32.8	5.5	0.4	4.0	42.7
1974	. 31.7	11.3	0.5	11.3	54.8
1975	. 19.2	5.8	-	3.3	28.3
1976		6.7	• 2	5.4	32.8
1977		8.1	1.2	5.7	34.8
1978		8.4	1.9	6.0	30.6
1979	. 22.9	9.0	1.9	6.1	39.8
1980	. 21.9	8.2	1.1	7.0	38.3
1981		8.1	1.2	5.7	36.3

 $[\]underline{a}$ / Source: Farm Real Estate Market Developments report series, U.S. Department of Agriculture.

 $[\]underline{b}^{\prime}$ Since 1976, the year refers to the year ended February 1st.

transfers reported per 1,000 farms does not imply that 3.6 percent of the total farmland acreage was transferred. Given the historical pattern of transfer size being less than half the average size of farm units, it is likely that ownership changed on less than 2 percent of Nebraska's farmland during the past year.

Respondents to the 1981 Nebraska Farm Real Estate Market Survey also indicated rather stable market activity during 1980 relative to previous years (Table 6). More than half (56 percent) responded that the number of farmland sales in their area remained essentially unchanged from the previous year. One out of five respondents believed sales had increased. These reporters estimated sales had increased an average of 17 percent. Evidence of increased activity was most frequently reported in the western part of the State. Of those who reported sales were down, the average estimated decrease was 23 percent.

As for anticipated market activity during 1981, 70 percent of the respondents expected no change in farmland sales activity (Table 7). Less than one out of ten respondents (8 percent) expected reduced sales activity relative to the previous 12-month period, while 22 percent anticipated some increase in sales for their area.

Reasons for Buying and Selling Land in Nebraska During 1981

Survey respondents were asked to report the reasons among buyers for purchasing farmland/ranchland in their local areas during 1980. Referring to the frequency of responses presented in Table 8, expansion of the present operation continued to be the predominant reason reported in all crop reporting districts. Farm expansion accounted for 52 percent of all responses for both 1978 and 1979 respectively. Purchasing land as an

Table 6. Survey Respondents' Estimates of the Percentage Change in the Number of Nebraska Farmland & Ranchland Tracts Sold During the Past Year (Feb. 1, 1980 to Feb. 1, 1981).a/b/

		The Number Sold:	
	Increased	Decreased	Remained the Same
Proportion of Responses Reported	21%	23%	56%
Average Percentage Change Reported	⁺ 17%	-23%	

a/ Source: 1981 Nebraska Farm Real Estate Market Survey.

Table 7. Survey Respondents' Estimate of the Expected Percentage Change in the Number of Nebraska Farmland and Ranchland Tracts Which Will Be Sold During the Next Year (1981-1982).a/b/

	The	Number To Be Sold W	ill:
	Increase	Decrease	Remain the Same
Proportion of All Responses Reported	22%	8%	70%
Average Percentage Change Reported	+17%	-25%	

a/ Source: 1981 Nebraska Farm Real Estate Market Survey.

 $[\]underline{b}$ / Percentage change relative to sales during previous 12-month period.

 $[\]underline{b}$ / Percentage change relative to sales during previous 12-month period.

Table 8. Reasons Given by Reporters Why Land Was Purchased in 1980 by Crop Reporting District in Nebraska. $\frac{a}{}$

		17. (4.7)	Reaso	Reasons for Buying				
crop reporting District	Expansion of Operation	Investment or Inflation Hedge	Starting Farming	Irrigation Development	No Land To Rent	Tax Advantage	Other	Tota1
	1 1 1 1 1			Percent		1 1 1	1	1 1 ·
Northwest	73	59	iù:	1	ı	1	23	100
North	45	25	1	1.1	īQ.	ιΩ	20	100
Northeast	48	32	&	1	2	1.	10	100
Central	50	22	E	'n	ന	ന	14	100
East	50	26	7	7	ίΩ	t	13	100
Southwest	20	22	∞.	m	m	1.	14	100
South	55	30	'	1	7	i .	7	100
Southeast	56	20	12	1	ı	4	∞ ,	100
STATE	50	25	9	2	m∙	H	13	100

a/s Source: 1981 Nebraska Farm Real Estate Market Survey.

investment or hedge against inflation also showed a high degree of frequency.

It should be pointed out that these reasons reported in Table 8 are not necessarily mutually exclusive of each other. For example, farm expansion and the desire for an investment to hedge against inflation may both be important in the final decision to purchase a land tract offered for sale. Likewise, these investment decisions are tied closely to tax advantage considerations for many buyers in the farm real estate market.

The most frequent reasons as reported in Table 9 for offering farmland/ ranchland for sale in Nebraska during 1980 were: (1) estate settlement, (2) retirement or health, (3) financial problems and (4) investment profit taking. The frequency and ranking of importance for these reasons presented in Table 9 have remained consistent with the survey results reported in the three previous years. However, the findings in Table 9 show that there are some differences in the relative frequency of these reasons among the various crop reporting districts in Nebraska.

As in the three previous annual survey reports, the results presented in Tables 8 and 9 continue to suggest that land in Nebraska is held in "tight hands." Most landowners are not willing to sell their land holdings unless forced to do so by death, retirement, poor health or financial pressures. In essence, most farmland is locked into an existing farming operation with owners having little or no intention of offering it for sale within the immediate future. These characteristics of the farm real estate market in Nebraska tend to stabilize land values during periods of economic uncertainty and push land selling prices even higher during improved economic conditions.

Table 9. Reasons Given by Reporters Why Land Was Sold in 1980 by Crop Reporting Districts in Nebraska. a/

			<u> </u>				
Crop		Re	asons fo	r Sellin	g		
Reporting	Estate	Retirement	Profit	Reduce	Financial	Other	Total
District	Settlement	or Health	Taking	Taxes	Problems		1
			Percent	<u></u>			- , - ,
Northwest	. 18	40	5	-	5	32	100
North	. 18	32	9	, , 5 ,	27	9.	100
Northeast	32	24	14	2 2 2	14	, _{1,1,1} 14 ,	100
Central	. 33	23	14	: * .	20	10	100
East	40	26	14		9.	11	1,00
Southwest	• ; · · 36 · · · · · ; ;	31	5	7 :	18	10	100
South	• , 50,0	32	4 _{1,1}	: . ₹ 1.		7	100
Southeast	. 36	29 L	9, 1	.	15	. 11	100
STATE	. 35	28	10 1		14	12	, 100

 $[\]underline{a}$ / Source: 1981 Nebraska Farm Real Estate Market Survey.

Farmland Sales in Nebraska During 1980

The Federal Land Bank of Omaha maintains a comprehensive data series on farmland and ranchland sales for their entire four-state district. All federal land bank associations and their respective branch offices complete a land sale data reporting sheet for each bona fide land sale in their area. Using this procedure, information on nearly 1000 land sales in Nebraska was collected for 1980. Several interesting aspects from these sales can be identified from Table 10.

The average size of land tract sold varied widely among the crop reporting districts for Nebraska as shown in Table 10. For example, the 127 acre average for the East District suggests that most sales of land tracts were between 80 and 160 acres in size. In contrast, land tracts sold in the northern and western areas of Nebraska were considerably larger in size. The average size (225 acres) of all land tracts sold for 1980 in Nebraska was clearly smaller than the 307 acre average reported in 1979.

As reported in previous survey reports, the average size of each land tract sold is smaller than the average size of a farming operation. This implies that most sales in the Nebraska farm real estate market consist of land parcels rather than whole unit farms being sold. With larger capital outlays required for buying a farmland tract and record high interest rates for financing an increasingly larger share of the purchase cost, there are more potential buyers in the market for smaller size land tracts offered for sale. Thus sellers often receive a higher per acre selling price by dividing up a complete farming unit and selling the farm as parcels.

Results presented in Table 10 further show that 58 percent of all farm acreage sold during 1980 was cropland while the remaining 42 percent of the land sold in Nebraska was pasture. This is in sharp contrast to

Table 10. Characteristics of Bona Fide Farmland Sales by Crop Reporting Districts in Nebraska, $1980.\overline{a}^{/}$

2		Perce	Percent of	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Crop Keporting	Average Size	Acre	Acreage:	Avera	Average rrice	rercent or	it of sales:
DISCL	or react sora	Cropland	Pasture	Per Acre	Per Tract	For Cash	Where Debt Was Incurred
	Acres	Percent	Percent	Dollars	Dollars	Percent	Percent
Northwest	379	56	44	507	192,000	13	87
North	610	17	83	337	205,400	∞	92
Northeast	159	85	15	1,084	172,400	H	91
Central	246	. 45	. 55	758	186,400	12	88
East	128	88	12	1,457	186,500	9	76
Southwest	426	41	29	210	217,300	7	63
South	176	. 62	38	1,000	175,800	14	98
Southeast	144	83	17	1,215	175,000	8	92
State	225	58	42	822	185,000	6	91

Sales data for 1980 collected by the Federal Land Bank Associations in Nebraska of the Federal Land Bank of Omaha. a/ Source:

1979 when 43 percent of all land sold was cropland. As would be expected, these proportions of cropland and pasture varied widely among the crop reporting districts across Nebraska.

Nearly all sales of farmland during 1980 involved the use of credit in the purchase transaction. Only 9 percent of all sales reported were cash purchases. This compares to 8 percent and 10 percent of all sales reported respectively for 1979 and 1978.

Although the average selling price (\$822 per acre) for 1980 was 31 percent higher than the average selling price of \$627 per acre reported for 1979, the total selling price per tract (\$185,000) was 4 percent less than the total selling price of \$192,600 per tract in 1979.

1981 Cash Rental Market Situation

In analyzing the farm real estate situation, it is important to consider the farmland rental market for two reasons. First, the incidence of farmland leasing is significant. In Nebraska, about two out of every five acres of farmland is rented. Consequently, active farmers often view the rental market as a companion to the transfer market, since both can be viable alternatives for acquiring the necessary land base. Secondly, rental returns (either crop-share or cash) represent a reasonable measure of returns to farmland investment. Since farmland is a productive asset whose value is tied closely to expected earnings, rental rates are a key variable in analyzing land values trends.

In light of the above, several questions pertaining to cash rental rates were asked in the 1981 Nebraska Farm Real Estate Market Survey.

Reporters were asked to estimate 1981 cash rental rates for various types of land use in their area. These average rates and ranges are presented in Table 11.

Estimated 1981 Cash Rental Rates of Nebraska Farmland For Different Types of Land by Crop Reporting District, Feb. 1, $1981.\overline{a}/$ Table 11.

			v.					
	-		Crop	p Reporting	District	1.1		
Type of Land	North- west	North	North- east	Central	East	South- west	South	South- east
	1	1	Q 1	Dollars Per	Acre	1	 	1
Dryland Cropland				. •				
Average Rate	/q	/وآ آ	09	43	89	35	38	55
Range	/ <u>Q</u>	/q	25–80	20-75	40-100	20-60	25-40	40-85
Gravity Irrigated Cropland								
Average Rate	/q	ر ا م	107	117	114	67	117	115
Range	<u>ا</u> م	<u> p</u>	100-120	80-150	90-135	65-120	75-135	75-150
Center Pivot Irrigated Cropland			+ + 	. s		,		
Average Rate	/q.	71	117	102	118	91	126	119
Range	<u>P</u> /	90 - 105	100-135	/5-150	90-145	/5-120	T00-T40	85-150
Dryland Alfalfa								
Average Rate	<u>ل</u> م/	<u>م</u>	53	47	26	31	45	45
Range	/ 미	<u>P</u> /	30-80	35-75	35-80	25-40	09-07	30-60
Irrigated Alfalfa								
Average Rate	/q	رم.	88	92	96	/q	06	<u>م</u> /
Range	[م	/q	50-120	65-110	60-125	<u>م</u>	50-110	<u> </u>
Other Hayland			•					
Average Rate	<u>ا</u> کا	21	<u>/وˈ</u>	37	39	34	<u>, a</u>	35
Range	<u>,</u>	18-25	/ <u>Q</u>	30-40	25-65	20-40	/ <u>q</u>	25-45
Pastureland (Per Acre)								
Average Rate	9	∞	33	16	78	10	14	26
Range	4-8	5-13	20-45	12-25	12-45	7-15	12-17	15-50
	! ! !	1 1	Q-	Dollars Per	Animal Un	Unit/Mo	1	1 1
Pastureland (Per Animal Unit/Mo.)2/								
Average Rate	13.00	13.30	12.85	15.80	12.65	14.40	13.75	12.90
Kange	77-77	77_7	OT-IO	01171	77_07	OTLOT	77-77	/T_OT

a/ Reporters' estimated cash rental rates for the 1981 season, 1981 Nebraska Farm Real Estate Market Survey.

A cow and calf combination is assumed to be 1% animal units.

 $[\]frac{b}{}$ Insufficient number of reports. \c)

In most regions, 1981 rents on irrigated cropland are in excess of \$100 per acre. Rates of \$115 to \$135 per acre were commonly reported. Generally, cash rents on center pivot irrigated tracts were slightly above those for gravity irrigated cropland. The labor savings with center pivot systems may encourage tenants to bid higher cash rents for these tracts. In the Central District, however, rates on center pivot systems were lower than gravity rates. This probably reflects a land quality differential between the two types of systems for this area.

Irrigated land cash rents are up slightly in 1981, but certainly showing a more moderate increase than those of recent years. $\frac{4}{}$ One apparent exception to this upward movement is the North District. Returns to irrigation in this area were down in 1980, resulting in cash rental rates being lower in 1981.

For 1981, dryland cropland rates across most of the State are similar to year-earlier levels. Cash leasing, by nature, places the full risk of adverse weather conditions on the tenant. Given last year's short crop and a large moisture deficit entering 1981, many tenants were apparently reluctant to bid aggressively for cash rental land. In contrast to the above, dryland cropland rental rates in Southwestern Nebraska were reportedly about 9 percent above 1980 levels; reflecting a more favorable crop and income situation for that part of the state.

According to survey respondents, pasture rental rates increased slightly in 1981. On an animal unit per month basis, the current rate is generally in the \$13 to \$14 range.

^{4/} For 1980 estimated rents, see Nebraska Farm Real Estate Market Developments in 1979-80, Report No. 105, Department of Agricultural Economics, UNL, June, 1980.

Respondents in the 1981 survey were also asked about characteristics of cash rental contracts in their area. One question asked for an estimate of the relative incidence of written contracts versus oral agreements. On the basis of responses of this question, more than three out of every five cash rental arrangements (63 percent) are written contracts. For those contracts which are written, reporters estimated that more than three-fourths (78 percent) are one-year contracts subject to annual renewal. Also of these written cash leases, about one out of every seven were estimated to have disaster clauses which would alter the negotiated cash rental rate if a crop failure and/or other adverse economic conditions occurred.

Payment patterns for cash rental leases generally involve two payments during the year. Ninety-three percent of the respondents indicated that the two-installment payment scheme is the typical pattern in their area. Most noted that the first payment is due on March 1st of each crop year, with the second payment due at a specified date in the fall (the most frequently-reported date being September 1st).

As previously noted, farmland cash rental rates represent a proxy for earnings. Therefore, some correlation exists between these rates and the market values of farmland. This historical pattern is presented in Table 12 which summarized, in three-year moving averages, the average gross rent and associated rent-to-value ratio for irrigated land, dry cropland, and grazing land in Nebraska. This time series reveals a steady increase in cash rental rates for each type of land. For the past 10-year period, rental rates have more than doubled. However, this upward trend in cash rental rates has not been as dramatic as the value increases. This is evidenced by the gradual decline in the average rent-to-value ratio. This decline is one indication that an expectation of future growth in earnings over time has

Table 12. Reported Cash Rents and Ratios of Rent-To-Value For Various Land Types in Nebraska, 3-Year Moving Averages, 1971-81.4

Time Period	Irriga	ated Land	Dry (Cropland	Graz	ing Land
(3-Yr. Moving	Rent	Rent-To-	Rent	Rent-To-	Rent	Rent-To-
Average)	Per	Value	Per	Value	Per	Value
	Acre	Ratio	Acre	Ratio	Acre	Ratio
	Dollars	Percent	<u>Dollars</u>	Percent	<u>Dollars</u>	Percent
1971-73	42.70	8.7	19.30	7.4	5.00	5.6
1972-74	49.30	8.9	22.20	7.5	5.30	5.2
1973-75	58.30	8.8	25.10	7.3	6.30	5.4
1974-76	69.30	8.2	28.80	6.8	7.30	5.3
1975-77	79.30	7.7	32.40	6.5	8.30	5.1
1976-78	85.30	7.4	35.70	6.3	9.10	5.1
1977-79	89.70	7.3	40.60	6.2	9.70	5.0
1978-80	93.70	6.8	43.80	6.0	10.00	4.8
1979-81	100.70	6.6	47.20	5.8	10.40	4.5

 $[\]underline{a}^{\prime}$ Source: Based upon unpublished data collected annually by the Nebraska Crop and Livestock Reporting Service.

been bid increasingly into land values. In other words, current earnings will not justify today's land values; but apparently in the minds of today's buyers the anticipated growth in earnings will.

The ratio of cash rent to market value can serve as a guideline in the determination of value. Take, for example, dryland cropland. If a particular tract is (or could be) cash rented under competitive conditions for \$75 per acre, then its market value should be approaching \$1,300 per acre (\$75 ÷ .058). Likewise, Nebraska grazing land with a cash rent of \$18 per acre has a market value in the \$400 per acre range (\$18 ÷ .045). Obviously, such an estimate is only an approximation of market value. Nevertheless, it may be an indicator, just as the price-earnings ratio is for stock investments.

Appendix Table 1. Farm Real Estate Values in Nebraska, Historical Series, $1915-1981.\frac{a}{b}$

	Ave. Value of I	Land & Buildings	*7	Ave. Value of Land & Buildings		
Year	Per Acre Per Farm		Year	Per Acre	Per Farm	
	<u>Dollars</u>	1,000 Dollars		<u>Dollars</u>	1,000 Dollars	
1915	50	15.9	1950	58	25.5	
1916	51	16.5	1951	66	29.7	
1917	54	17.8	1952	72	32.9	
1918	62	20.7	1953	75	34.6	
1919	71	23.8	1954	70	33.0	
1717						
1920	88	29.8	1955	73	35.1	
1921	82	27.5	1956	73	35.9	
1922	71	23.7	1957	72	36.5	
1923	68	22.6	1958	79	41.0	
1924	63	20.7	1959	86	45.1	
1925	60	19.8	1960	89	48.3	
1926	60	19.9	1961	90	49.8	
1927	58	19.5	1962	95	54.1	
1928	57	19.5	1963	97	56.2	
1929	57	19.6	1964	105	62.5	
2,2,000			İ			
1930	56	19.3	1965	111	67.2	
1931	52	18.0	1966	120	73.6	
1932	44	15.4	1967	132	81.2	
1933	35	12.2	1968	143	88.8	
1934	35	12.2	1969	150	94.3	
1731111			!			
1935	34	11.9	1970	154	97.9	
1936	34	12.1	1971	157	100.7	
1937	32	11.8	1972	170	115.2	
1938	30	11.3	1973	193	131.2	
1939	28	10.6	1974	242	166.3	
1737				* .		
1940	24	9.4	1975	282	194.1	
1941	22	8.9	1976	355	247.0	
1942	24	9.9	1977	425	300.1	
1943	27	11.1	1978	419	295.8	
	33	13.9	1979	525	392.1	
1944	33					
1945	37	15.8	1980	598	453.8	
1946		17.9	1981	658	499.3	
1947		20.5	1			
1948		24.3	 			
1949		27.1				

a/ Source: Farm Real Estate Historical Series Data: 1850-1970 and Farm Real Estate Market Developments Series, released by the U.S. Department of Agriculture.

 $[\]underline{b}/$ Includes revisions from previously published estimates, based on 1978 Census of Agriculture data.

Appendix Table 2. Deflated Indexes of Nebraska Farmland Values and Percent Changes, 1950-1981.

	Index of	GNP Price,	Deflated	Year-to-Year	
Year	Average	Deflator ^{b/}	Index of	Index of	GNP Price
	Value/Ac. ,		Average ,	Deflated '	Deflator
	(1967=100)a	(1967=100)	Value/Ac.c/	Farmland	
				Values <u>d</u> /	
			(1967=100)	Percent	Percent
1950	46	67.5	68.1	-	_
1951	53	73.1	72.5	6.5	8.3
1952	59	75.7	79.0	8.8	2.2
1953	62	76.2	81.4	3.0	2.0
1954	58	777.1	75.3	-7. 5	1.2
1955	61	77.7	78.5	4.3	0.8
1956	60	79.8	75.2	-4.2	2.7
1957	59	83.1	71.0	-5.6	4.1
1958	63	85.6	73.6	3.7	3.0
1959	67	87.1	76.9	4.5	1.8
1960	69	88.4	78.1	1.6	0.6
1961	70	89.9	77.9	-0.3	1.7
1962	75	90.8	82.6	6.0	1.0
1963	75	91.9	81.6	-1.2	1.2
1964	81	93.4	86.7	0.2	1.6
1965	86	95.0	90.5	4.4	1.7
1966	92	97.0	94.8	4.8	2.1
1967	100	100.0	100.0	5.5	3.1
1968	108	103.4	104.4	4.4	3.4
1969	113	108.4	104.2	-0.2	4.8
1970	115	114.3	100.6	-3.5	5.4
19.71	117	120.6	97.0	-3.5	5.5
1972	127	124.7	101.8	4.9	3.4
1973	145	129.1	112.3	10.3	3.5
1974	183	141.0	129.8	15.6	9.2
1975	215	156.9	137.0	5.5	11.3
1976	271	165.7	163.5	19.3	5.6
1977	307	174.1	176.3	7.9	5.1
1978	295	183.4	160.9	-8.7	5.3
1979	360	200.0	180.0	11.9	9.1
1980	410	217.6	188.4	4.7	8.8
1981	450	238.1	189.0	0.3	9.4

 $[\]underline{a}'$ Refers to year ending March 1, except for 1976-79 which is the year ending February 1.

 $[\]underline{b}^{\prime}$ U.S. Department of Commerce Implicit Price Deflator for the 1st Quarter.

 $[\]frac{c}{}$ Computed by dividing the Index of Average Value Per Acre by the GNP Price Deflator.

 $[\]underline{d}/$ A positive value entry in this column represents a real increase in asset value for the year (i.e., the rate of land value appreciation exceeded the rate of inflation).

Appendix Table 3. Farm Real Estate Statistics by County and Crop Reporting District as Reported by the 1978 Census of Agriculture. $\underline{a}/$

Country	Nambor	Land	Ave.	Percentage	Ave. Value of	Land & Bldgg
County & Crop Rpt.	Number of	in	Size of	. Cropland	Per Per	Per
District	Farmsb/	Farms	Farm	Cropadia	Farm	Acre
22001100	(No.)	(Acres)	(Acres)	(Percent)	(Dollars)	(Dollars)
D			1 026	42.8	486,984	267
Banner Box Butte	213 564	410,239 658,453	1,926	52.4	•	394
Cheyenne	747	791,959	1,167 1,060	69.2	476,015 352,571	342
Dawes	461	741,622	1,609	23.5	306,890	193
Dawes Deuel	312	316,730	1,015	73.1	467,470	450
Garden	343	1,005,840	2,932	20.4	572,841	201
Kimball	370	560,793	1,516	64.6	412,764	258
Morril	562	757,044	1,347	28.9	495,071	349
Scottsbluff	1,082	461,201	426	48.6	327,776	803
Sheridan	723	1,467,632	2,030	24.8	392,605	185
Sioux	388	1,154,578	2,976	7.8	642,351	228
D104	500	_,,,	_,,,,,		•	
NORTHWEST	5,765	8,326,091	1,444	35.3	458,832	293
Arthur	78	525,344	6,735	9.0	766,467	114
Blaine	121	405,387	3,350	13.1	406,155	125
Boyd	476	292,914	615	46.5	163,160	273
Brown	362	679,150	1,876	22.5	593,000	326
Cherry	674	3,797,034	5,634	12.0	813,510	143
Garfield	263	336,773	1,281	27.7	297,803	210
Grant	82	751,537	9,165	8.5	1,124,945	123
Holt	1,335	1,420,649	1,064	41.3	446,402	424
Hooker	60	330,602	5,510	5.1	531,139	96
Keya Paha	279	500,760	1,795	22.8	430,009	231
Logan	1.62	347,515	2,145	18.7	403,025	187
Loup	1.56	304,773	1,953	16.5	382,637	1.92
McPherson	1.31	402,101	3,207	11.2	386,599	120
· Rock	326	622,814	1,910	57.0	499,274	262
Thomas	91	338,910	3,724	5.1	464,558	125
Wheeler	182	298,396	1,640	29.4	519,072	297
NORTH	4,778	11,354,657	2,376	18.9	501,500	198
Antelope	1,123	506,976	451	70.2	262,812	584
Boone	912	440,604	483	66.9	269,206	556
Burt	847	316,159	373	88.0	408,677	1,145
Cedar	1,194	426,523	357	79.5	239,482	648
Cuming	1,305	355,957	273	87.4	342,830	1,256
Dakota	411	157,445	383	80.0	329,149	896
Dixon	804	266,965	332	79.0	242,390	727
Knox	1,328	665,607	501.	57.1	21.2.817	404
Madison	1,025	345,870	337	81.7	274,147	750
Pierce	932	326,806	351	81.6	284,128	737
Stanton	749	249,362	333	79.8	259.540	763
Thurston	584	214,589	367	84.0	321,596	841
Wayne	852	269,294	316	88.5	296,698	879
NORTHEAST	12,066	4,542,157	376	76.2	282,921	735
Buffalo	1,208	577,504	478	63.0	412,366	831
Custer	1,462	1,529,191	1,046	28.8	372,118	336
Dawson	1,049	731,393	697	45.7	509,336	758
Greeley	458	315,629	689	46.5	332,208	401
Hall	859	326,140	380	77.4	-	
Howard	721	314,044	436	63.3	430,609	1,162
Sherman	569	294,590	518	51.0	269,353 275,788	612
Valley	562	335,717	597	47.5	273,494	464 471
-						
CENTRAL	6,888	4,424,208	642	46.2	377,953	574

Appendix Table 3 continued

District Farms Varms Farm Care Cho-) (No-) (Acres) (Acres) (Percent) (Dollars) (Dollars)	County &	Number	Land	Ave.	Percentage		Land & Bldgs.
No. (Acres)	Crop Rpt.	of	, in	Size of	Cropland		
Butler 1,067 367,152 344 85.1 367,100 1,053 Cass 976 324,088 332 80.5 340,124 954 Colfax 872 258,479 296 81.8 279,638 940 Dodge 1,075 321,469 299 89.7 375,795 1,222 Douglas 518 131,258 253 83.2 383,777 1,504 Hamilton 864 339,794 393 71.2 572,732 1,504 Hamilton 864 339,794 393 71.2 572,732 1,504 Hamilton 864 339,794 393 71.2 572,732 454 Lancaster 1,510 473,310 313 83.8 314,906 1,000 Merrick 708 278,679 394 80.0 411,090 1,024 Nance 519 248,568 479 69.0 316,963 642 Platte 1,326 403,765 304 84.8 288,626 926 Polk 797 279,548 351 85.0 455,088 1,215 Sawnders 1,471 449,200 305 84.2 311,428 1,045 Saward 1,038 340,715 308 85.9 408,319 1,122 Washington 851 228,466 268 83.9 397,971 1,325 Vork 978 350,762 359 88.1 464,731 1,270 EAST 15,030 4,926,362 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 487 Dundy 396 542,713 1,370 39.7 462,021 314 Frontier 531 549,137 1,034 43.6 399,588 396 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54.7 338,822 352 Keith 410 687,815 1,678 39.8 745,945 440,622 711 Frontier 531 59,54,411 1,451 27.2 439,830 304 Perkins 566 595,231 1,052 74.5 587,716 556 Red Willow 506 441,597 873 54.6 400,158 468 SOUTHWEST 4,732 5,786,153 1,223 43.8 482,003 391 Franklin 569 352,787 620 55.2 440,622 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 36 48,204 739 57.7 484,178 556 SOUTHWEST 4,732 5,786,153 1,223 43.8 482,003 391 Franklin 569 352,787 620 55.2 440,622 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 366 483,374,04 441 89.0 527,507 1,144 Gosper 366 542,625 801 60.5 379,969 509 Gosper 366 483,374,04 441 89.0 527,507 1,144 Gosper 366 542,625 801 60.5 379,969 509 Gosper 366 483,374,044 441 89.0 527,507 1,144 Gosper 366 542,625 801 60.5 379,969 509 Gosper 366 483,374,044 441 89.0 527,507 1,144 Gosper 366 542,625 801 60.5 379,969 509 Gosper 366 483,374,044 441 89.0 527,507 1,144 Gosper 366 542,625 801 60.5 379,969 509 Gosper 366 483,374,044 441 89.0 527,507 1,144 Gosper 366 542,625 801 60.5 379,507 1,231 Fillmore 843 371,404 444 441 89.0 527,507 1,231 Fillmore 863 371,535	District						
Cass 976 324,088 332 80.5 340,124 954 Colfax 872 258,479 296 81.8 279,638 940 Dodge 1,075 321,469 299 89.7 375,795 1,222 Douglas 518 131,258 253 83.2 383.77 1,504 Hamilton 864 339,794 393 71.2 572,732 454 Lancaster 1,510 473,310 313 83.8 314,906 1,000 Merrick 708 278,679 394 80.0 411,090 1,024 Nance 519 248,568 479 69.0 316,963 642 Platte 1,326 403,765 304 84.8 288,626 926 Folk 797 279,548 351 85.0 455,088 1,215 Samper 460 131,109 285 81.9 384,120 1,387 Saunders 1,471 449,200 305 84.2 311,428 1,045 Seward 1,038 340,715 308 85.9 408,319 1,122 Washington 851 228,466 268 83.9 397,971 1,325 York 978 350,762 339 88.1 464,731 1,270 York 978 350,762 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 487 Dundy 396 542,713 1,370 39.7 462,021 314 Frontier 531 549,137 1,034 43.6 399,588 396 Hayes 337 440,676 1,308 42.1 403,422 300 Weithcock 462 414,445 897 54.7 38,892 329 Weith 410 687,815 1,678 39.8 745,945 39.9 88 Weith 410 687,815 1,678 39.8 7445,945 39.9 87 Frenkins 566 595,231 1,052 74.5 587,716 556 Red Willow 506 441,597 873 54.6 406,158 468 SOUTHNEST 4,732 5,786,153 1,223 43.8 482,003 391 Franklin 569 352,787 620 55.2 440,622 711 Furnas 565 422,625 801 60.5 379,969 509 Cosper 336 248,004 739 57.7 484,178 556 SOUTHHEST 4,732 5,786,153 1,223 43.8 482,003 397 Franklin 569 352,787 620 55.2 440,622 711 Furnas 565 422,625 801 60.5 379,969 509 Cosper 336 248,004 739 57.7 484,178 654 Harlan 451 329,883 731 61.4 360,137 798 Clay 719 365,346 508 79.4 664,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 Gage 1,411 530,210 376 83.4 350,355 896 Harlan 451 329,883 731 61.4 360,137 798 Clay 719 365,346 508 79.4 669,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 Gage 1,411 530,210 376 83.4 350,355 896 Burchardson 603 203,432 337 70.9 258,917 667 Roman 790 335,523 400,435 342 81.0 294,581 808 Fillmore 843 371,404 441 89.0 527,507 1,144 Gage 1,411 530,210 376 83.4 350,355 896 Burchardson 603 203,432 337 70.9 258,917 667 Roman 790 365,346 508 398 67.6 257,879 688 Rollane 994 340,435 342 81.0 294,581 808 Burchard		(No.)	(Acres)	(Acres)	~ (Percent)	(Dollars)	(Dollars)
Cass 976 324,088 332 80.5 340,124 954 Dodge 1,075 321,469 299 89.7 375,795 1,222 Douglas 518 131,258 253 83.2 383.777 1,504 Hamilton 864 339,794 393 71.2 572,732 454 Lancaster 1,510 473,310 313 83.8 314,906 1,000 Merrick 708 278,679 394 80.0 411,090 1,024 Nance 519 248,568 479 69.0 316,963 642 Platte 1,326 403,765 304 84.8 288,626 926 Polk 797 279,548 351 85.0 455,088 1,215 Sawpar 1,471 449,200 305 84.2 311,428 1,045 Saward 1,038 340,715 308 85.9 408,319 1,122 Washington 851 228,466 268 83.9 397,971 1,325 York 978 350,762 359 88.1 466,731 1,270 Washington 851 228,466 268 83.9 397,971 1,325 York 978 350,762 359 88.1 466,731 1,270 Chase 453 560,128 1,236 53.5 613,948 487 Dundy 396 542,713 1,370 39.7 462,021 314 Frontier 531 549,137 1,034 43.6 399,588 396 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54,7 38,892 352 Keith 410 687,815 1,678 39.8 745,945 442 Lincoln 1,071 1,554,411 1,451 27.2 439,830 304 Ferkins 566 599,231 1,052 74.5 587,716 556 Red Willow 506 441,597 873 54.6 406,158 464 Willow 506 441,597 873 54.6 406,137 798 Adam 797 355,023 445 81.5 468,347 1,099 Franklin 569 352,787 620 55.2 440,622 711 Furnas 565 422,625 801 60.5 379,969 509 Cosper 336 428,204 739 57.7 484,178 556 Red Willow 506 441,597 873 54.6 406,158 464 Willow 506 441,597 873 54.6 406,158 464 Willow 506 441,597 873 54.6 406,158 464 Willow 506 441,597 873 54.6 406,137 798 Clay 719 365,346 508 79.4 6694,737 1,231 Furnas 565 422,625 801 60.5 379,969 509 Cosper 336 428,204 739 57.7 484,178 654 Harlan 451 329,883 731 61.4 360,137 798 Clay 719 365,346 508 79.4 6694,737 1,231 Furnas 565 422,625 801 60.5 379,969 509 Cosper 336 440,435 342 81.0 294,581 808 Furnas 565 422,625 801 60.5 379,969 509 Cosper 336 440,435 342 81.0 294,581 808 Furnas 565 422,625 801 60.5 379,969 509 Cosper 346 423,444 441 89.0 527,507 1,144 Cosper 346 444 444 89 80 527,507 1,144 Cosper 346	Butler	1,067	367,152	344	. 85.1	367,100	1,053
Colfax 872 258,479 296 81.8 279,638 940 Dodge 1,075 321,469 299 89.7 375,795 1,222 Douglas 518 131,258 253 83.2 383.777 1,504 Hamilton 864 339,794 393 71.2 572,732 454 Lancaster 1,510 473,310 313 83.8 314,906 1,000 Merrick 708 278,679 394 80.0 411,090 1,024 Nance 519 248,568 479 69.0 316,963 642 Platte 1,326 403,765 304 84.8 288,626 926 Folk 797 279,548 351 85.0 455,088 1,215 Sarpy 460 131,109 285 81.9 384,120 1,387 Saunders 1,471 449,200 305 84.2 311,428 1,045 Seward 1,038 340,715 308 85.9 408,319 1,122 Washington 851 228,466 268 83.9 397,971 1,325 York 978 350,762 359 88.1 464,731 1,270 EAST 15,030 4,926,362 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 467 Dundy 396 542,713 1,370 39.7 462,021 314 Frontier 531 549,137 1,034 43.6 399,588 366 Hitchcock 462 414,445 897 54.7 338,892 352 Keith 410 687,815 1,678 39.8 745,945 442 Lincoln 1,071 1,554,411 1,451 27.2 439,830 30 Adam 797 355,023 445 81.5 468,347 1,099 Franklin 566 595,231 1,052 74.5 587,716 556 SOUTHWEST 4,732 5,786,153 1,223 43.8 482,003 391 Kearney 624 319,366 512 82.2 565,200 1,121 Frunts 565 452,625 801 60.5 379,969 509 Cosper 336 248,204 739 57.7 484,178 654 Barlan 451 329,883 731 61.4 360,137 1,199 Franklin 569 352,787 620 55.2 440,622 711 Furnas 565 452,625 801 60.5 379,969 509 Cosper 336 248,204 739 57.7 484,178 654 Barlan 451 329,883 731 61.4 360,137 519 Kearney 624 319,366 512 82.2 565,200 1,121 Fhelps 623 402,961 647 72.8 77.9 57.9 77.9 1,190 Clay 719 365,346 508 79.4 6694,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 Colfay 719 365,346 508 79.4 6694,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 Colfay 719 365,346 508 79.4 6694,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 Colfay 719 365,346 508 79.4 6694,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 Colfay 719 365,346 508 79.4 6694,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 Colfay 719 365,346 508 79.4 6694,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 Colfay 719 365,346 508 79.4 6694,737 1,231 Fillmore 858 322,668 388 67.6 257,	Cass	976	324,088	332	80.5	•	
Dodge 1,075 321,469 299 89.7 375,795 1,222 Douglas 518 131,258 253 83.2 383.777 1,504 Hamilton 864 339,794 393 71.2 572,732 1,504 Hamilton 864 339,794 393 71.2 572,732 454 Lancaster 1,510 473,310 313 83.8 314,906 1,000 Merrick 708 278,679 334 80.0 411,090 1,024 Nance 519 248,568 479 69.0 316,963 642 Platte 1,326 403,765 304 84.8 288,626 926 Folk 797 279,548 351 85.0 455,088 1,215 Sarpy 460 131,109 285 81.9 384,120 1,387 Saunders 1,471 449,200 305 84.2 311,428 1,045 Seward 1,038 340,715 308 85.9 408,319 1,122 Washington 851 228,466 268 83.9 397,971 1,325 York 978 350,762 359 88.1 464,731 1,270 York 978 350,762 359 88.1 464,731 1,270 Dundy 396 542,713 1,370 39.7 462,021 314 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54.7 338,892 352 Keith 410 687,815 1,678 39.8 745,945 Lincoln 1,071 1,554,411 1,451 27.2 439,830 304 Hitchcock 462 414,445 897 54.7 338,892 352 Keith 410 687,815 1,678 39.8 745,945 Edithou 506 595,231 1,052 74.5 587,716 556 Red Willow 506 595,231 1,052 74.5 587,716 556 Red Willow 506 441,597 873 54.6 406,158 464 SOUTHWEST 4,732 5,786,153 1,223 43.8 482,003 391 Adam 797 355,023 445 81.5 468,347 1,099 Franklin 569 352,876 620 55.2 440,622 711 Franklin 569 352,876 620 55.2 565,200 1,121 Gage 1,411 390,346 512 82.2 565,200 1,121 Gage 1,411 590,210 376 83 79,969 509 Gosper 336 248,204 739 57.7 484,178 654 Harlan 451 329,883 731 61.4 360,137 799 Franklin 668 353,535 529 72.0 388,150 709 Gosper 366,342,668 398 73.5 66.6 257,879 688 Nuckolls 668 353,535 529 72.0 388,150 709 Good 304,484 304,353 342 310 294,581 808 SouthHarlan 944 340,435 342 310 294,581 808 SouthHarlan 949 340,435 342 310 294,581 808 SouthHarlan 949 340,435 342 310 294,581 808	Colfax	872	258,479	296	81.8		
Douglas 518 131,258 253 83.2 383.777 1,5004 14maltton 864 339,794 393 71.2 572,732 454 Lancaster 1,510 473,310 313 83.8 314,906 1,000 Merrick 708 278,679 394 80.0 411,090 1,024 Nance 519 248,568 479 69.0 316,963 642 Platte 1,326 403,765 304 84.8 288,626 926 Polk 797 279,548 351 85.0 455,088 1,215 Sarpy 460 131,109 285 81.9 384,120 1,387 Saunders 1,471 449,200 305 84.2 311,428 1,045 Seward 1,038 340,715 308 85.9 408,319 1,122 Washington 851 228,466 268 83.9 397,971 1,325 York 978 350,762 359 88.1 464,731 1,270 EAST 15,030 4,926,362 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 487 Frontier 531 549,137 1,034 43.6 399,588 396 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54.7 338,892 352 Ketth 410 687,815 1,678 39.8 745,945 442 11.ncoln 1,071 1,554,411 1,451 27.2 439,830 304 Perkins 566 595,231 1,052 74.5 587,716 556 S002 441,597 873 550,23 445 81.5 468,347 1,099 Franklin 569 352,787 620 55.2 440,622 711 1,099 620 620 620 620 620 620 620 620 620 620	Dodge	1,075	321,469	299	89.7		
Hamilton	Douglas	518	131,258	253 .	83.2		
Lancaster 1,510 473,310 313 83.8 314,906 1,000 Merrick 708 278,679 394 80.0 411,090 1,024 Nance 519 248,568 479 69.0 316,963 642 Platte 1,326 403,765 304 84.8 288,626 926 Polk 797 279,548 351 85.0 455,088 1,215 Sarpy 460 131,109 285 81.9 384,120 1,387 Saunders 1,471 449,200 305 84.2 311,428 1,045 Seward 1,038 340,715 308 85.9 408,319 1,122 Washington 851 228,466 268 83.9 397,971 1,325 York 978 350,762 359 88.1 464,731 1,270 EAST 15,030 4,926,362 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 467 Dundy 396 542,713 1,370 39.7 462,021 314 Prontier 531 549,137 1,034 43.6 399,588 396 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54.7 338,892 352 Keith 410 687,815 1,678 39.8 745,945 442 Lincoln 1,071 1,554,411 1,451 27.2 439,830 304 Perkins 566 595,231 1,052 74.5 587,716 556 Red Willow 506 441,597 873 54.6 406,158 464 SOUTHWEST 4,732 5,786,153 1,223 43.8 882,003 391 Adam 797 355,023 445 81.5 468,347 1,099 Franklin 569 352,787 620 55.2 440,622 711 Furnas 565 452,625 801 60.5 379,969 509 Cosper 336 248,204 739 57.7 484,178 654 Harlan 451 329,883 731 61.4 360,137 519 Kearney 624 402,961 647 72.8 771,957 1,190 Webster 519 313,267 604 62.0 308,685 545 SOUTH 4,484 2,774,116 619 66.9 481,177 798 CLay 719 365,346 508 39.8 79.4 694,737 1,231 Chay 719 365,346 508 79.4 694,737 1,201 Clay	Hamilton	864	339,794	393	71.2		
Merrick 708 278,679 394 80.0 411,090 1,024 Nance 519 248,568 479 69.0 316,963 642 Platte 1,326 403,765 304 84.8 288,626 926 Polk 797 279,548 351 85.0 455,088 1,215 Sarpy 460 131,109 285 81.9 384,120 1,387 Saunders 1,471 449,200 305 84.2 311,428 1,045 Scward 1,038 340,715 308 85.9 408,319 1,122 Washington 851 228,466 268 83.9 397,971 1,325 York 978 350,762 359 88.1 464,731 1,270 EAST 15,030 4,926,362 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 487 Dundy 396 542,713 1,370 39.7 462,021 314 Prontier 531 549,137 1,034 43.6 399,588 396 Histochock 462 414,445 897 54.7 338,892 352 Keth 410 687,815 1,678 39.8 745,945 442 Lincoln 1,071 1,554,411 1,451 27.2 439,830 304 Perkins 566 595,231 1,052 74.5 587,716 556 Red Willow 506 441,597 873 54.6 406,158 464 SOUTHWEST 4,732 5,786,153 1,223 43.8 482,003 391 Pruntier 4,732 5,786,153 1,223 43.8 482,003 391 Pruntier 51 329,833 731 61.4 360,137 519 Frunta 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 484,178 654 464 1814 329,838 731 61.4 360,137 519 Frunta 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 484,178 654 464 1814 329,838 731 61.4 360,137 519 Frunta 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 484,178 654 464 1814 329,838 731 61.4 360,137 519 Frunta 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 484,178 654 464 1814 329,838 731 61.4 360,137 519 Gosper 519 313,267 604 62.0 308,685 545 500 1,121 Flulps 623 402,961 647 72.8 771,957 1,190 Webster 519 313,267 604 62.0 308,685 545 500 1,121 Flulps 623 402,961 647 72.8 771,957 1,190 Webster 519 313,267 604 62.0 308,685 545 800 500 74.2 376,737 913 Johnson 603 203,432 337 70.9 258,917 667 808 814 89.0 527,507 1,144 636 636 814 89.0 527,507 1,144 636 636 814 89.0 527,507 1,144 636 636 814 89.0 527,507 1,144 636 636 814 89.0 527,507 1,144 636 636 814 89.0 527,507 1,144 636 81 81 81 81 81 81 81 81 81 81 81 81 81	Lancaster	1,510	473,310	313	83.8		
Nance 519 248,568 479 69.0 316,963 642 Platte 1,326 403,765 304 84.8 288,665 926 Polk 797 279,548 351 85.0 455,088 1,215 Sarpy 460 131,109 285 81.9 384,120 1,387 Saunders 1,471 449,200 305 84.2 311,428 1,045 Seward 1,038 340,715 308 85.9 408,319 1,122 Washington 851 228,466 268 83.9 397,971 1,325 York 978 350,762 359 88.1 464,731 1,270 EAST 15,030 4,926,362 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 487 Dundy 396 542,713 1,370 39.7 462,021 314 Frontier 531 549,137 1,034 43.6 399,588 396 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54.7 338,892 352 Keith 410 687,815 1,678 39.8 745,945 Keith 410 68,7815 1,678 39.8 745,945 Keith 410 687,815 1,678 39.8 745,945 Keith 410	Merrick	708	278,679	394	80.0		
Platte 1,326 403,765 304 84.8 288,626 926 Polk 797 279,548 351 85.0 455,088 1,215 Sarpy 460 131,109 285 81.9 384,120 1,387 Saunders 1,471 449,200 305 84.2 311,428 1,045 Seward 1,038 340,715 308 85.9 408,319 1,122 Washington 851 228,466 268 83.9 397,971 1,325 York 978 350,762 359 88.1 464,731 1,270 EAST 15,030 4,926,362 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 487 Dundy 396 542,713 1,370 39.7 462,021 314 Frontier 531 549,137 1,034 43.6 399,588 396 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54.7 338,892 352 Keith 410 687,815 1,678 39.8 745,945 442 Lincoln 1,071 1,554,411 1,451 27.2 439,830 304 Perkins 566 595,231 1,052 74.5 587,716 556 Red Willow 506 441,597 873 54.6 406,158 464 SOUTHWEST 4,732 5,786,153 1,223 43.8 482,003 391 Adam 797 355,023 445 81.5 468,347 1,099 Franklin 569 352,787 620 55.2 440,622 711 Furnas 565 452,625 801 60.5 50.2 440,622 711 Furnas 565 452,625 801 60.5 50.2 440,622 711 Furnas 563 424,204 739 57.7 484,178 654 Harlan 451 329,883 731 61.4 360,137 319 Kebater 519 313,267 604 62.0 308,685 545 SOUTH 4,484 2,774,116 619 66.9 481,177 798 Clay 719 365,346 508 79.4 694,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 Gage 1,411 530,210 376 83.4 350,355 896 Helps 623 402,961 647 72.8 771,957 1,190 Webster 519 313,267 604 62.0 308,685 545 SOUTH 4,484 2,774,116 619 66.9 481,177 798 Clay 719 365,346 508 79.4 694,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 Gage 1,411 530,210 376 83.4 350,355 896 Helps 623 402,961 647 72.8 771,957 1,190 Webster 519 313,267 604 62.0 308,685 545 SOUTH 4,484 2,774,116 619 66.9 481,177 798 Clay 719 365,346 508 79.4 694,737 1,231 Fillmore 863 351,555 529 72.0 388,150 704 Nemaha 705 245,989 349 78.5 276,931 813 Nuckol11s 688 353,555 529 72.0 388,150 704 Nuckol11s 688 335,555 529 72.0 388,150 704 Nuckol11s 688 339,7813 398 78,8 363,801 867	Nance	519	248,568	479	69.0		
Polk 797 279,548 351 85.0 455,088 1,215 Sarpy 460 131,109 285 81.9 384,120 1,387 Saunders 1,471 449,200 305 84.2 311,428 1,045 Seward 1,038 340,715 308 85.9 408,319 1,122 Washington 851 228,466 268 83.9 397,971 1,325 York 978 350,762 359 88.1 464,731 1,270 EAST 15,030 4,926,362 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 487 Dundy 396 542,713 1,370 39.7 462,021 314 Frontier 531 549,137 1,034 43.6 399,588 396 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54.7 338,892 352 Keith 410 687,815 1,678 39.8 745,945 442 Lincoln 1,071 1,554,411 1,451 27.2 439,830 304 Perkins 566 595,231 1,052 74.5 587,716 556 Red Willow 506 441,597 873 54.6 406,158 464 SOUTHWEST 4,732 5,786,153 1,223 43.8 482,003 391 Adam 797 355,023 445 81.5 468,347 1,099 Franklin 569 352,787 620 55.2 440,622 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 484,178 654 Harlan 451 329,883 731 61.4 360,137 519 Kearney 624 319,366 512 82.2 565,200 1,121 Phelps 623 402,961 647 72.8 771,957 1,190 Webster 519 313,267 604 62.0 308,685 545 SOUTH 4,484 2,774,116 619 66.9 481,177 798 Chapter 199 340,435 342 349 78.5 276,931 813 Johnson 603 203,432 337 70.9 258,917 667 Nematics 199 340,435 342 81.9 276,931 813 Johnson 603 203,432 337 70.9 258,917 667 Nematics 199 340,435 342 81.9 276,931 813 Johnson 603 203,432 337 70.9 258,917 667 Nematics 199 340,435 342 81.0 294,581 808 Thayer 760 360,476 474 78.5 510, 294,581 808 Thayer 760 360,476 474 78.5 451,038 920 SOUTHEAST 10,036 3,997,813 398 78.8 363,801 867	Platte	1,326	403,765	304	84.8	•	
Sarpy 460 131,109 285 81.9 384,120 1,387 Saunders 1,471 449,200 305 84.2 311,428 1,045 Seward 1,038 340,715 308 85.9 408,319 1,122 Washington 851 228,466 268 83.9 397,971 1,325 York 978 350,762 359 88.1 464,731 1,270 EAST 15,030 4,926,362 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 467 Throntier 531 549,137 1,034 43.6 399,588 396 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54.7 338,892 352 Keith 410 687,815 1,678 39.8 745,945 442 Lincoln 1,071 1,554,411 1,451 27.2 439,830 304 Perkins 566 595,231 1,052 74.5 587,716 556 Red Willow 506 441,597 873 54.6 406,158 464 SOUTHWEST 4,732 5,786,153 1,223 43.8 482,003 391 Adam 797 355,023 445 81.5 468,347 1,099 Franklin 569 352,787 620 55.2 440,622 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 486,178 654 1421 A03,422 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 486,178 654 1421 A03,402 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 486,178 654 1421 A03,402 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 486,178 654 1421 A03,402 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 486,178 654 1421 A03,402 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 486,178 654 1421 A03,402 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 486,178 654 1421 A03,402 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 486,178 654 1421 A03,402 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 486,178 654 1421 A03,402 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 486,178 654 1421 A03,402 711 Furnas 565 452,625 801 60.5 379,969 509 509 509 500 500 500 500 500 500 50	Polk	797	279,548	351	85.0	·	
Saunders 1,471 449,200 305 84.2 311,428 1,045 Seward 1,038 340,715 308 85.9 408,319 1,122 Washington 851 228,466 268 83.9 397,971 1,325 York 978 350,762 359 88.1 464,731 1,270 EAST 15,030 4,926,362 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 487 Frontier 531 549,137 1,034 43.6 399,588 396 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54.7 338,892 352 Keith 410 687,815 1,678 39.8 745,945 442 Lincoln 1,071 1,554,411 1,451 27.2 439,830 304 Perkins 566 595,231 1,052 74.5 587,716 556 Red Willow 506 441,597 873 54.6 406,158 464 SOUTHWEST 4,732 5,786,153 1,223 43.8 482,003 391 Adam 797 355,023 445 81.5 468,347 1,099 509 Gosper 336 248,204 739 57.7 484,178 654 Furnas 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 484,178 654 Harlan 451 329,883 731 61.4 360,137 519 Kearney 624 319,366 512 82.2 565,200 1,221 Flurnas 563 428,204 739 57.7 484,178 654 Flarlan 451 329,883 731 61.4 360,137 519 Kearney 624 319,366 512 82.2 565,200 1,221 Flurnas 519 313,267 604 62.0 308,685 545 SOUTH 4,484 2,774,116 619 66.9 481,177 798 Chay 719 365,346 508 79.4 694,737 1,331 Fillmore 843 371,404 441 89.0 527,507 1,144 636, 137 519 313,267 604 62.0 308,685 545 SOUTH 4,484 2,774,116 619 66.9 481,177 798 Chay 719 365,346 508 79.4 694,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 636, 137 519 313,267 604 62.0 308,685 545 SOUTH 4,484 2,774,116 619 66.9 481,177 798 Chay 719 365,346 508 79.4 694,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 636, 137 519 313,267 604 62.0 308,685 545 SOUTH 4,484 2,774,116 619 66.9 481,177 798 Chay 719 365,346 508 79.4 694,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 636, 137 519 313,267 604 62.0 308,685 545 SOUTH 4,484 2,774,116 619 66.9 481,177 798 Chay 719 365,346 508 79.4 694,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 636 843 371,404 441 89.0 527,507 1,144 636 843 371,404 441 89.0 527,507 1,144 636 843 371,404 441 89.0 527,507 1,144 636 843 371,404 441 89.0 527,507 1,144 636 843 371,404 441 89.0 527,507 1,144 636 843 371,404 844 8	Sarpy	460	131,109	285	81.9		
Seward 1,038 340,715 308 85.9 408,319 1,122 Washington 851 228,466 268 83.9 397,971 1,325 York 978 350,762 359 88.1 464,731 1,270 EAST 15,030 4,926,362 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 467 Dundy 396 542,713 1,370 39.7 462,021 314 Frontier 531 549,137 1,034 43.6 399,588 396 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54.7 338,892 352 Keith 410 687,815 1,678 39.8 745,945 442 Lincoln 1,071 1,554,411 1,451 27.2 439,830 304 Perkins 566 <td>Saunders</td> <td>1,471</td> <td>449,200</td> <td>305</td> <td>84.2</td> <td>•</td> <td></td>	Saunders	1,471	449,200	305	84.2	•	
Washington 851 228,466 268 83.9 397,971 1,325 EAST 15,030 4,926,362 359 88.1 464,731 1,270 EAST 15,030 4,926,362 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 467 Dundy 396 542,713 1,370 39.7 462,021 314 Frontier 531 549,137 1,034 43.6 399,583 396 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54.7 338,892 352 Keith 410 687,815 1,678 39.8 745,945 442 Lincoln 1,071 1,554,411 1,451 27.2 439,830 304 Perkins 566 595,231 1,052 74.5 587,716 556 Red Willow	Seward	1,038		308		•	
York 978 350,762 359 88.1 464,731 1,270 EAST 15,030 4,926,362 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 487 Dundy 396 542,713 1,370 39.7 462,021 314 Frontier 531 549,137 1,034 43.6 399,588 396 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54.7 338,892 352 Keith 410 687,815 1,678 39.8 745,945 442 Lincoln 1,071 1,554,411 1,451 27.2 439,830 304 Perkins 566 595,231 1,052 74.5 587,716 556 Red Willow 506 441,597 873 54.6 68,347 1,099 Franklin 569	Washington	851	228,466	268	83.9		
EAST 15,030 4,926,362 328 84.2 372,151 1,063 Chase 453 560,128 1,236 53.5 613,948 487 Dundy 396 542,713 1,370 39.7 462,021 314 Frontier 531 549,137 1,034 43.6 399,588 396 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54.7 338,892 352 Keith 410 687,815 1,678 39.8 745,945 442 Lincoln 1,071 1,554,411 1,451 27.2 439,830 304 Perkins 566 595,231 1,052 74.5 587,716 556 Red Willow 506 441,597 873 54.6 406,158 464 SOUTHWEST 4,732 5,786,153 1,223 43.8 482,003 391 Adam 797 355,023 445 81.5 468,347 1,099 Franklin 569 352,787 620 55.2 440,622 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 484,178 654 Harlam 451 329,883 731 61.4 360,137 519 Kearney 624 319,366 512 82.2 565,200 1,121 Phelps 623 402,961 647 72.8 771,957 1,190 Kebster 519 313,267 604 62.0 308,685 545 SOUTH 4,484 2,774,116 619 66.9 481,177 798 Clay 719 365,346 508 79.4 694,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 Gage 1,411 530,210 376 83.4 350,335 896 Jefferson 790 331,453 420 74.2 376,737 913 Johnson 603 203,432 337 70.9 258,917 667 Nemaha 705 245,989 349 78.5 276,931 813 Nuckolls 668 353,535 529 72.0 388,150 704 Otoe 1,082 356,785 330 81.9 272,596 809 Pawnee 585 232,668 398 67.6 257,879 668 Richardson 876 306,080 349 76.9 254,415 782 SOUTHEAST 10,036 3,997,813 398 78,8 363,801 867		978	350,762	359			
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Dundy 396 542,713 1,370 39.7 462,021 314 Frontier 531 549,137 1,034 43.6 399,588 396 Hayes 337 440,676 1,308 42.1 403,422 300 Hitchcock 462 414,445 897 54.7 338,892 352 Keith 410 687,815 1,678 39.8 745,945 442 Lincoln 1,071 1,554,411 1,451 27.2 439,830 304 Perkins 566 595,231 1,052 74.5 587,716 556 Red Willow 506 441,597 873 54.6 406,158 464 SOUTHWEST 4,732 5,786,153 1,223 43.8 482,003 391 Adam 797 355,023 445 81.5 668,347 1,099 Franklin 569 352,787 620 55.2 440,622 711 Furnas 565 452,625 801 60.5 379,969 509 Gosper 336 248,204 739 57.7 484,178 654 Harlan 451 329,883 731 61.4 360,137 519 Kearney 624 319,366 512 82.2 565,200 1,121 Phelps 623 402,961 647 72.8 771,957 1,190 Webster 519 313,267 604 62.0 308,685 545 SOUTH 4,484 2,774,116 619 66.9 481,177 798 Clay 719 365,346 508 79.4 694,737 1,231 Fillmore 843 371,404 441 89.0 527,507 1,144 Gage 1,411 530,210 376 83.4 350,355 896 Jefferson 790 331,453 420 74.2 376,737 913 Johnson 603 203,432 337 70.9 258,917 667 Nemaha 705 245,989 349 78.5 276,931 813 Nuckolls 668 353,535 529 72.0 388,150 704 Otoe 1,082 356,785 330 81.9 272,596 809 Pawnee 585 232,668 398 67.6 257,879 668 Richardson 876 306,080 349 76.9 254,415 782 SOUTHEAST 10,036 3,997,813 398 78,8 363,801 867	Chase	453	560 128	1 226	53 5	612 0/0	
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Johnson 603 203,432 337 70.9 258,917 667 Nemaha 705 245,989 349 78.5 276,931 813 Nuckolls 668 353,535 529 72.0 388,150 704 Otoe 1,082 356,785 330 81.9 272,596 809 Pawnee 585 232,668 398 67.6 257,879 668 Richardson 876 306,080 349 76.9 254,415 782 Saline 994 340,435 342 81.0 294,581 808 Thayer 760 360,476 474 78.5 451,038 920 SOUTHEAST 10,036 3,997,813 398 78,8 363,801 867	Jefferson	790					
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51A1L= 63,//9 46,131,559 /23 48.3 387,923 525	cmampc/	(2.770	// 103 550	700	——————————————————————————————————————		
	9 TATP=.	03,779	40,131,559	/23	48.3	387,923	525

 $[\]frac{a}{}$ Derived from Preliminary County Reports, 1978 Census of Agriculture, U.S. Department of Commerce, Bureau of the Census.

 $[\]frac{b}{}$ A farm, for statistical purposes is any place from which \$1,000 or more of agricultural products were sold, or normally would have been sold, during the census year.

 $[\]underline{c}'$ State totals represent aggregated county data and differ slightly from Preliminary State Totals published by the Department of Commerce.

Appendix Table 4. Average Reported Value of Nebraska Farmland For Different Types of Land by Crop Reporting District, 1978,1981.a/

Type of	T		(Crop Reportir	ng District			
Land &	North-	Nonth	North-	Central	East	South-	South	South-
Year	west	North	east	Centrar	East	west	South	east
			I	Oollars Per A	lcre			
Dryland Cro	opland (No	Irrigation	Potential)	i				
1978	-	253	648	319	817	360	468	660
1979		319	813	397	1,061	387	541	808
1980		340	920	471	1,296	454	626	971
1981		346	1,009	519	1,409	546	754	1,060
Dryland Cro	and Turn	ination Dat	tontiol					
		387	741	590	1,128	471	873	953
1978					1,411	520	1,102	1,152
1979		514	930	708			1,282	1,352
1980		565	1,132	767	1,733	628		
1981	. 680	533	1,225	880	1,785	733	1,432	1,402
	nd (Tillabl							
1978		191	433	299	549	21.5	465	433
1979	. 186	229	521	347	701	259	479	574
1980	. 200	261	583	395	760	307	621	643
1981	. 251	257	622	435	881	332	697	636
Grazing La	nd (Nontill	able)						
1978		126	308	216	384	119	268	315
1979		156	340	267	486	148	309	417
1980		169	394	304	549	190	346	473
1981		182	418	339		217	398	474
Hayland								
1978	. 232	266	370	372	477	231	298	371
1979		308	436	397	593	281	345	509
		338	506	441	699	349	402	554
1980				482	738	368	417	532
1981	. 323	331	558	402	730	300	417))2
	rigated Cro							1 101
1978		796	1,030	1,545	1,624	1,134	1,412	1,404
1979		964	1,289	1,705	1,910	1,197	1,746	1,772
1980	. 1,369	1,020	1,547	1,976	2,317	1,329	2,046	2,026
1981	. 1,555	1,054	1,781	2,088	2,403	1,493	2,230	2,026
Center Piv	ot Irrigate	d Cropland	<u>b</u> /					
1978		678	956	877	1,484	813	1,023	1,236
1979		770	1,164	1,076	1,690	895	1,291	1,590
1980		886	1,372	1,223	2,043	971	1,535	1,795
1981		816	1,456	1,312	2,110	1,105	1,732	1,900
1701.	• ,,,	020	,	,	-,	,	,	,

 $[\]underline{a}^{\prime}$ February 1st estimates reported in the Annual Nebraska Farm Real Estate Market Surveys.

 $[\]underline{b}/$ Pivot not included in per acre value.

Appendix Table 5. Farm Real Estate: Indexes of Average Value Per Acre of Irrigated Land, Dry Cropland, and Grazing Land in Nebraska, 1960-1981 (1967=100).a/b/

b/	Inde	x of Average Val	ue Per Acre:	
Year <u>b</u> /	Irrigated	Dry	Grazing	A11
	Land	Cropland	Land	Land
1960	66	71	67	69
1961	67	71	67	70
1962	71	75	77	75
1963	73	75	75	75
1964	79	80	85	81
-065	0.7		88	86
1965	84	85	94	92
1966	93	91		100
1967	100	100	100	100
1968	110	108	109	
1969	117	112	113	113
1970	122	114	114	115
1971	123	116	117	117
1972	132	127	125	127
1973	146	144	147	145
1974	192	184	178	183
1975	238	214	207	215
1976	293	273	256	271
1977	345	306	290	307
1978	324	300	271	295
	324 395	366	333	360
1979	37.)	300	222	200
1980	450	428	360	410
1981	485	474	398	450

 $[\]underline{a}^{\prime}$ Includes improvements. Published in Farm Real Estate Market Developments Series, Economics & Statistics Service, USDA.

 $[\]frac{b}{}$ March 1 indexes of value for 1960-1975 and February 1 indexes of value for 1976-1981.

A Comment on Index Numbers of Nebraska Farmland Values

The U.S. Department of Agriculture prepares and publishes periodically an index of farmland values for each state. In states where irrigation is important, an index of value change is calculated separately for three basic types of farmland: (1) irrigated land with improvements, (2) dry cropland with improvements, and (3) grazing land with improvements. These series by type of land have been published annually for Nebraska since 1960 (See Appendix Table 5). The all-land index has been maintained for Nebraska and other states since 1912.

An index of farmland value is very similar to the Consumer Price Index. Quite simply, it is a measure of percentage change relative to a base period. It is calculated by dividing the average value for a reporting date by the average value in the base period. When that answer is multiplied by 100, the result is the index number for that reporting date. If the base period is March, 1967 (as used in Appendix Table 5) the index for that date is 100. For example, the February, 1981 index for Nebraska irrigated land is 485. This means that irrigated values as of February, 1981, were 485 percent of the 1967 index, an increase of 385 percent (485-100). What about the value change since February, 1980? The February, 1981 index is 7.8 percent larger than the February, 1980 index (485 ÷ 450), indicating irrigated land values rose an average of 7.8 percent during that period.

There are several practical applications of these farmland index series.* Here are three important ones:

1. TO SHOW RELATIVE CHANGES IN FARMLAND VALUES.

We have already presented an illustration of determining change in value from the previous period. However, a measure of percentage change can be determined for any time period within the index series. If one were interested in the change in grazing land value during the 1970 decade, you would divide the February, 1980 index (360) by the March, 1970 index (114). This indicates that at the end of the decade, average grazing land values were 316 percent of beginning decade levels -- or an increase of 216 percent (316 - 100).

^{*} Based upon: 1) Reiss, Franklin J., "Index Numbers of Illinois Farmland Values," Farm Economics Facts and Opinions, Illinois Cooperative Extension Service, April, 1980, and 2) Johnson, Bruce B., "Farm Real Estate Market," NebGuide, G77-332, Cooperative Extension Service, Institute of Agriculture and Natural Resources, University of Nebraska-Lincoln.

2. TO INDICATE APPROXIMATE CURRENT VALUE FROM AN EARLIER PURCHASE PRICE.

The procedure is one of using the appropriate index series to determine the percentage change in average value since purchase. The purchase price is then multiplied by this percentage change. For example, assume dry cropland were purchased in the Spring of 1975 for \$600 per acre. The February, 1981 index of dry cropland is 222 percent of the March, 1975 index (474 ÷ 214). Thus, current estimated value is \$1,332 (2.22 x \$600).

 TO APPROXIMATE A VALUE AT SOME POINT IN THE PAST FROM A CURRENT KNOWN VALUE.

Retrospective appraisal of this type may be necessary in an estate settlement where the cost basis or the price paid for the land is unknown. Likewise, the determination of capital gains (or losses) on which taxes are based cannot be calculated unless both the cost basis and market price are known. For illustration purposes, assume a seller sold a farm in early 1981 for \$1,100 per acre. The seller inherited the farm in 1960 but does not know what it was worth at that time. We can approximate a value by reversing the procedure used in No. 2. The all land index in 1960 is 15.3 percent of the February, 1981 index (69 ÷ 450). Taking 15.3 percent of \$1,100 gives \$168, the indicated value in 1960.

While these are important uses of the index series for farmland values, one must always remember the associated limitations. First, the USDA index series represent changes in value for the State as a whole. For numerous reasons areas of the State may historically be experiencing land value trends considerably different from the state trend. Second, when evaluating a specific property, the use of a state-level index assumes there has been little or no physical change in the property over the time period. If such changes have occurred, then values must be adjusted to reflect them. Third, the known value of a property, either present or in retrospect, must be a reasonably good measure of its true value. If there is either upward or downward bias in the dollar this will be directly carried over to the calculated value when the index change is applied.

