

South Dakota

Agricultural Land Market Trends 1991–2007

The 2007 SDSU South Dakota Farm Real Estate Survey

South Dakota State University
Agricultural Experiment Station
U.S. Department of Agriculture

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Dr. Larry Janssen, Dr. Burton Pflueger, and Tyler Ahrendt¹

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FOREWORD

Agricultural land values and cash rental rates in South Dakota, by region and by state, are the primary topics of this report. The target audiences for this report are farmers and ranchers, landowners, agricultural professionals (lenders, rural appraisers, professional farm managers), and policy makers interested in agricultural land market trends. This report contains the results of the 2007 SDSU South Dakota Farm Real Estate Market Survey, the 17th annual SDSU survey developed to estimate agricultural land values and cash rental rates by land use in different regions of South Dakota.

We wish to thank our reviewers for their constructive comments on an earlier draft of this report. The reviewers are Dr. Richard Shane, Economics Department head, and Dr. Gerald Warmann, Extension economics specialist.

Mr. Tyler Ahrendt, graduate student in economics and co-author, also handled many of the daily tasks during the survey period and updating of tables and charts. We also wish to thank Janet Wilson for developing and maintaining the mailing lists and Penny Stover for assistance with various survey and publication related tasks. Janet Wilson and Penny Stover are secretaries in the Economics Department.

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Finally, we wish to thank all of the 214 respondents who participated in the 2007 South Dakota Farm Real Estate Market Survey. Many have also participated in one or more past annual land market surveys. Without their responses, this report would not be possible.

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SUMMARY

The 2007 SDSU Farm Real Estate Market Survey report contains information on current agricultural land values and cash rental rates by land use in different regions of South Dakota, with comparisons to values from earlier years. Key findings are highlighted below.

- **The most recent annual change** (2006 to 2007) in South Dakota agricultural land values of 14.4% is almost the same as the average annual percentage increase from 2001 to 2007. These rates of annual increase are considerably higher than the annual increases of 4% to 10% during the 1990s.

Land value increases from 2006 to 2007 are the third highest annual rate of change in the past 16 years, exceeded only by higher annual percentage rates of change from 2003 to 2005. From 2006 to 2007, annual rates of increase for rangeland exceeded 10% in all regions of the state, while cropland values increased 10% or more in all regions except the north-central and northwest regions.

- **Cash rental rates** per acre for cropland, hayland, and rangeland/pasture increased statewide and in most regions from 2006 to 2007.

Statewide average cash rental rates increased \$3.85 per acre for cropland, \$1.55 per acre for hayland, and \$0.60 per acre for rangeland. In general, cash rental rate increases were strongest in the more crop-intensive regions east of the Missouri River. Some weaknesses in cash rental rates are noted in the south-central and southwest regions.

- Statewide, **cropland and rangeland values** per acre have doubled since 2002 and tripled since 1996. Cash rental rates have nearly doubled since 1993.

Increases in agricultural land values were largely

supported by increases in cash rental rates during the 1990s but only partially supported by cash rental rate increases after 2000. During most of the 1990s, land values increased at only slightly higher rates than cash rents. However, from 2001 to 2007 land values have generally increased at more than twice the rate of increase in cash rents. Thus, cash rates of return to farmland declined slowly during the 1990s and more rapidly from 2001 to 2007.

- Current **average rates of cash return** on agricultural land are lower in 2007 than in any previous year since the survey was started.

For 2007 the average ratio of gross cash rent to current land value was 4.4% for all agricultural land, 4.9% for nonirrigated cropland, and 4.0% for rangeland. Net rates of return to farmland, given current land values, averaged 3.8% for all agricultural land, 4.2% for nonirrigated cropland, and 3.4% for rangeland.

- **Longer-term trends** in land values, cash rental rates, and cash rates of return are closely related to key economic factors including:

- (1) sharp declines in farm mortgage interest rates from early 2001 to late 2004;
- (2) federal farm program provisions of the 1996 and 2002 farm bills, especially the level of crop subsidies and removal of planting restrictions; and
- (3) general economic conditions of low inflation rates. For 1991–2007, the average annual inflation rate in the U.S. was less than 2.5%

From 1991 to 2007, farmland values increased more rapidly than the rate of general price inflation in all regions of South Dakota. Cash rental rate increases provided underlying support for increases in land values. These two basic economic factors, along with declining mortgage

interest rates, attracted interest in farmland purchases by investors and by farmers expanding their operations.

However, gross and net cash rates of return are approaching the lower end of historical rates of return to agricultural land in South Dakota. At current market conditions, most of expected total returns from agricultural land investment are from anticipated capital appreciation instead of current cash returns. This pattern of declining rates of cash return to land historically has occurred during the latter stages of land market price booms.

• **Agricultural land values and average cash rental rates** differ greatly by region and land use.

In each region per-acre values and cash rental rates are highest for irrigated land, followed in descending order by nonirrigated cropland, hayland, tame pasture, and native rangeland. For each land use, per-acre land values and cash rental rates are highest in the east-central or southeast region and lowest in the western regions of South Dakota.

The average value of nonirrigated agricultural land (as of February 2007) in South Dakota is \$850 per acre. Nonirrigated agricultural land values vary from \$1,946 per acre in the east-central to \$285 per acre in the northwest region. Average nonirrigated cropland values vary from \$2,244 in the east-central to \$1,086 in the central region and \$367 per acre in the northwest. Average rangeland values vary from \$1,293 in the east-central to \$265 per acre in the northwest.

Within each region, differences in land productivity and land use account for substantial differences in per-acre values.

In 2007 the average value of nonirrigated cropland exceeds \$2,500 per acre and average cash rental rates exceed \$110 per acre in two county clusters (Minnehaha-Moody and Clay-Lincoln-Turner-Union) in eastern South Dakota. These are the highest average land values and cash rental rates reported during the past 17 years of the SDSU Farm Real Estate Market Survey.

At the regional level average cash rental rates per acre for cropland in 2007 vary from \$92.30 in the southeast region to \$21.80 in the northwest region. Average rangeland and pasture rental rates vary from \$44 in the southeast region to \$9.95 in the northwest region.

• **Farm expansion, investment potential, and hunting/recreation** continue as the major reasons for purchasing farmland, while favorable market conditions (seller's market), retirement from farming, and settling estates are the three major reasons for selling farmland.

Strong farm profits, crop yields, higher crop prices, good livestock prices, and markets were most frequently listed as positive factors in the farmland market, followed by hunting/recreation demand and investor purchase of farmland. Drought conditions, higher input costs, and increased interest rates were most often listed as negative factors.

South Dakota

Agricultural Land Market Trends 1991–2007

Dr. Larry Janssen, Dr. Burton Pflueger, and Tyler Ahrendt¹

The 2007 SDSU Farm Real Estate Market Survey is the 17th annual survey of agricultural land values and cash rental rates by land use and quality in different regions of South Dakota. We report on the results of the survey and also include a discussion of factors influencing buyer/seller decisions and of positive/negative factors impacting farmland markets. Publication of survey findings is a response to numerous requests by farmland owners, renters, appraisers, lenders, potential buyers, and others for detailed information on farmland markets in South Dakota.

The 2007 estimates are based on reports from 214 respondents to the 2007 SDSU survey. Respondents are agricultural lenders, Farm Service Agency officials, rural appraisers, assessors, realtors, professional farm managers, and Extension agricultural educators. All are familiar with farmland market trends in their localities.

Copies of the survey were mailed in February and March 2007 and requested information on cash rental rates and agricultural land values as of February 2007. Response rates, respondent characteristics, and estimation procedures are in Appendix I.

Results are presented in a format similar to surveys published by Janssen and Pflueger from 1991 through 2006. Regional information on land values and cash rents by land use (crop, hay, range, pasture, and irrigated crop/hay)² is emphasized in each of these reports. Current year findings are compared to those of earlier years.

This report contains an overview and may or may not reflect actual land values or cash rental rates unique to specific localities or properties. Readers should use this report as a general reference and rely on local sources for more specific details.

¹ Janssen and Pflueger are professors of economics, SDSU. Dr. Janssen has teaching and research responsibilities in agricultural finance, farmland markets, economic development, and research methodology. Dr. Pflueger is Extension farm financial management specialist and also teaches an undergraduate course on agricultural cooperatives. Mr. Ahrendt is a graduate student in the Economics Department.

² A major purpose of this survey is to report land values and cash rental rates by major uses of privately owned agricultural land, excluding farm building sites. The major nonirrigated land uses reported are crops, hay, tame pasture, and rangeland. Rangeland is native grass pasture while tame pasture is seeded to introduced grasses. Agricultural land typically used for production of alfalfa hay, other tame hay, or native hay is considered hayland in this report. Cropland is agricultural land typically used for crop production other than hay production. Since most irrigated land in South Dakota is used for crop or hay production, we report the value and rental rates of irrigated land used for these purposes. These major land uses comprise nearly 98% of privately owned land in farms in South Dakota (Janssen 1999).

County data on cropland and pasture land rents and values are provided by the South Dakota Agricultural Statistics Service (SDASS) in their report: *South Dakota 2007 County Level Land Rents and Values*.³ This SDASS report is based on a telephone survey of South Dakota farm/ranch producers and is the 13th annual survey of county level land rents and values. Major trends in per-acre cash rental rates and land values over time are similar in both the SDASS and SDSU surveys. A comparison of trends from 1995 to 2007 from both surveys will be made available later in 2007.

Changing economic conditions in South Dakota agriculture

Most renters, buyers, and sellers of farmland continue to be local area residents, although there is greater outside interest in recent years. Consequently, land market participants are influenced by many social, financial, and economic factors in their localities. Many of the influential factors are related to changing economic conditions in agriculture. Land markets tend to reflect these changing economic conditions as land market participants adjust over time to current and prospective conditions.

Land market trends usually lag behind changing conditions in the general and agricultural economies and are strongly influenced by expectations of future trends and the availability of debt or equity financing.

Most of the 1990s were characterized by low inflation rates, declining-to-stable interest rates, and increasing export markets for grains, oilseeds, livestock, and meat products. The amount of farm debt, including farm real estate debt, gradually increased, and interest expense averaged between 9–11% of South Dakota farm production expenses.

Net farm income has been very unstable but trended slightly upward from 1990 to 2003 and

increased substantially in 2004, 2005, and 2006.

Average prices of principal crops (feed grains, wheat, and soybeans) rebounded considerably in 2002 and 2003 from the marketing years of 1998 through 2001, which had seen the lowest average prices recorded in the past 15–20 years. Cattle and calf prices generally increased since 1996, resulting in improved profit margins.

By early 2006, crop prices had generally declined from the levels of the previous 3 years. Calf prices also declined.

Since September 2006, corn prices have climbed to levels higher than previous price spikes in 1995 or 1996. Soybean and wheat prices have also rebounded but not as much as corn. Strong demand for ethanol production has been a major factor contributing to higher crop prices, especially corn. Current price projections suggest crop prices will be at a higher level than realized in the past 10 years. This is a major factor leading to upward pressures on land values and cash rents.

Farm real estate mortgage interest rates dropped substantially from 2001 through 2003 to their lowest levels in more than 35 years. Rates annually averaged between 8% and 10% from 1991 to 2000 but declined to around 5.5% in 2002 and approached 6.75–8.0% in late 2006. Greatly reduced mortgage interest rates and relatively low inflation rates for several years have had major positive impacts on real estate values, including farmland values.

Farmland values became more dependent on government farm program payments from 1999 to 2001 and in 2005. Federal farm program payments in South Dakota increased from a range of \$230 million to \$268 million annually during the 1995–1997 period to more than \$700 million annually from 1999–2001. Farm program payments were 25% to 50% lower in 2002–2004 but spiked to more

³ The SDASS report on county level rents and values can be obtained from the Sioux Falls office, phone 605-323-6500 or South Dakota Agricultural Statistics Service / PO Box 5068 / Sioux Falls SD 57117-5068. The report also can be accessed at <http://www.nass.usda.gov/sd/>

than \$800 million in 2005. Lower loan deficiency and countercyclical payments produced lower farm program payments in 2006.

Federal farm payments increased from 5–7% of total value of production in 1995–1997 to 16–20% of total production value in South Dakota in 1999–2001 and 14% in 2005. Market participants generally expect federal program benefits to continue, when needed by the farm sector, into the indefinite future although the rationale for payments may change. A USDA-ERS study of farm program impacts estimated that 22% to 24% of cropland values in 2000 in the Northern Plains, which includes South Dakota, were attributed to commodity program payments (Barnard et al. 2001). This upward pressure of farm program payments on cropland values has continued.

After several years of relatively stable production costs, South Dakota farm production expenses for purchased inputs increased by at least 20–25% from 2003 to 2006, with further increases projected for 2007. Most of the increase has been in fertilizer and energy-related costs.

The strong employment base in many South Dakota trade centers provides off-farm employment for increasing numbers of farm families. This permits greater economic stability and opportunities for many persons involved in land market decisions. Many investors, including farmland owners, have received capital gains from sale of stocks, land, or other investments that can be used for purchasing agricultural land for a variety of purposes. Credit has been readily available at greatly reduced interest rates in the past 6 years to help finance land purchases and farm operating expenses.

Finally, strong ethanol demand and growth in ethanol production facilities in South Dakota and surrounding states has been another factor leading to substantially higher prices for 2006 crop production. This also places upward pressure on land values and cash rental rates, especially in eastern and north-central regions of South Dakota.

South Dakota agricultural land values, 2007

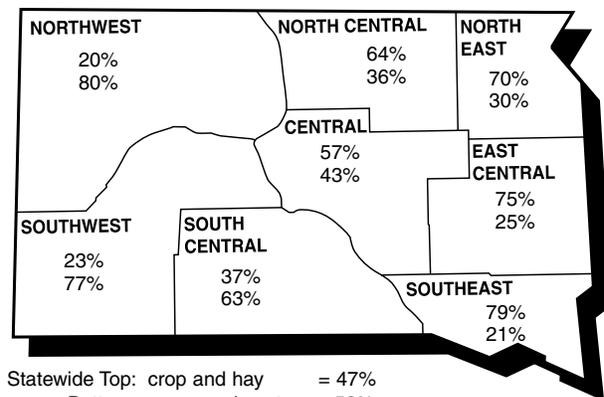
Procedures to estimate and report land values

Respondents to the 2007 South Dakota Farm Real Estate Market Survey estimated the per-acre value of nonirrigated cropland, hayland, rangeland, tame pasture land, and irrigated land in their counties and the percent change in value from one year earlier. Responses for nonirrigated land uses are grouped into eight agricultural regions (Fig 1). The six regions in eastern and central South Dakota correspond with USDA Agricultural Statistics Districts. In western South Dakota, farmland values and cash rental rates are reported for the northwest and southwest regions. Land values and cash rental rates are reported only for privately owned land and should not be considered as estimated values for tribal lands or federal lands.

Irrigated land is only 1% of farmland acres in South Dakota. Due to the small number of irrigated land reports in several regions, responses for irrigated land values and rental rates are regrouped into six regions: western, central/south-central, north-central, northeast, east-central, and southeast.

The average value per acre and percent change in value were obtained for each agricultural land use in each region. Regional and statewide all-land

Fig 1. Nonirrigated agricultural land use patterns in South Dakota, statewide and regional.



Source: Compiled from land use data in 2002 Census of Agriculture and related surveys

(nonirrigated land) value estimates are weighted averages based on the relative acreage and value of each nonirrigated agricultural land use in each region of South Dakota. In this report, land use acreage weights for each region and statewide were developed from data reported in the 2002 Census of Agriculture and related sources (Appendix I). These land use acreage weights have considerable impact on regional and statewide estimates of all nonirrigated land values.

Regional differences in all-agricultural land values are primarily related to major differences in: (1) agricultural land productivity among regions, (2) per-acre values of cropland and rangeland in each region, and (3) the proportion of cropland and rangeland in each region. More than 80% of farmland acres in each region are either cropland or rangeland, with cropland dominant in eastern South Dakota and rangeland dominant in western South Dakota (Fig 1).

Tame pasture and hayland are the remaining major land uses, excluding farm building sites. Tame pasture varies from 5.5% to 9% of farmland acres in each region and is nearly 7% of statewide farmland acres. Hayland varies from 11% to 14% of total farmland acres in each of the six central and eastern regions, but only 3% to 5% of farmland acres in western South Dakota. Statewide, hayland is about 9% of privately owned farmland.

The combined proportion of cropland and hayland in each region varies from 20% of private agricultural land in the northwest region to 79% of farmland acres in the southeast region. The remainder is rangeland or tame (improved) pasture. Statewide, an estimated 47% of private farmland acres are cropland or hayland and 53% is rangeland or tame pasture (Fig 1).

In summary, statewide cropland values are highly influenced by values estimated in the north-central and eastern regions, while statewide rangeland values are greatly influenced by values reported in the western and south-central region.

All-agricultural land value estimates, 2007

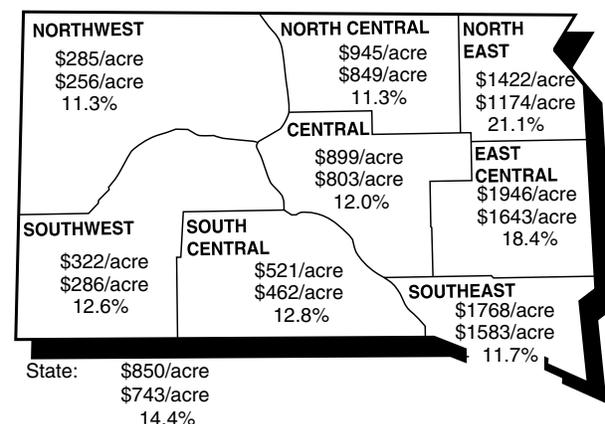
As of February 2007, the average value of all agricultural land in South Dakota was \$850 per acre, a 14.4% increase in value from one year earlier (Fig 2 and Table 1). This rate of increase is the same as reported from 2005 to 2006 and is lower than the record high increase of 20.2% from 2004 to 2005 (Table 1 and Appendix Table 2).

The increase of \$107 per acre in the value of all agricultural land is the second highest annual dollar per-acre increase during the past 17 years. Overall, agricultural land values in South Dakota have doubled since 2002 and tripled since 1996.

Agricultural land values increased at double-digit rates in all regions of South Dakota, with the strongest increase of 21.1% in the northeast and 18.4% in the east-central region. In all other regions, land values increased between 11.3% and 12.8%.

The all-land average values are highest in the three eastern regions with per-acre values, varying from \$1,946 in the east-central region to \$1,768 in the

Fig 2. Average value of South Dakota agricultural land, February 1, 2007 and 2006, and percent change from one year ago.



Regional and statewide average values of agricultural land are the weighted averages of dollar value per acre and percent change by proportion of acres of each nonirrigated land use by region.

Top: Average per-acre value—February 1, 2007
 Middle: Average per-acre value—February 1, 2006
 Bottom: Annual percent change in per-acre land value

Source: 2007 South Dakota Farm Real Estate Market Survey, SDSU.

Table 1. Average reported value and annual percentage change in value of South Dakota agricultural land by type of land by region, 2004–2007.

Type of Land	<i>South-east</i>	<i>East-Central</i>	<i>North-east</i>	<i>North-Central</i>	<i>Central</i>	<i>South-Central</i>	<i>South-west</i>	<i>North-west</i>	<i>STATE</i>
<i>dollars per acre</i>									
All Agricultural Land (nonirrigated)									
Average value, 2007	1768	1946	1422	945	899	521	322	285	850
Average value, 2006	1583	1643	1174	849	803	462	286	256	743
Average value, 2005	1372	1427	1029	736	711	414	275	211	650
Average value, 2004	1147	1162	779	629	594	377	223	192	541
Annual % change 07/06	11.7%	18.4%	21.1%	11.3%	12.0%	12.8%	12.6%	11.3%	14.4%
Nonirrigated Cropland									
Average value, 2007	1999	2244	1762	1187	1086	702	426	367	1375
Average value, 2006	1817	1914	1448	1088	986	612	387	342	1211
Average Value, 2005	1556	1659	1255	967	871	568	383	316	1064
Average Value, 2004	1315	1346	973	822	705	541	318	294	882
Annual % change 07/06	10.0%	17.2%	21.7%	9.1%	10.1%	14.7%	10.1%	7.3%	13.5%
Rangeland (native)									
Average value, 2007	1073	1293	889	634	708	448	295	265	448
Average value, 2006	925	1055	751	548	599	397	255	234	386
Average value, 2005	781	844	667	458	552	346	241	185	332
Average value, 2004	684	764	465	396	456	312	196	167	283
Annual % change 07/06	16.0%	22.6%	18.4%	15.7%	18.2%	12.8%	15.7%	13.2%	16.1%
Pasture (tame, improved)									
Average value, 2007	1167	1461	987	698	760	524	303	297	684
Average value, 2006	1085	1166	843	598	711	425	283	282	596
Average Value, 2005	937	1018	730	465	610	397	291	227	519
Average Value, 2004	754	818	517	424	518	337	217	198	420
Annual % change 07/06	7.6%	25.3%	17.1%	16.7%	6.9%	23.3%	7.1%	5.3%	14.8%
Hayland									
Average value, 2007	1659	1637	1028	750	815	525	356	327	875
Average value, 2006	1383	1371	831	640	758	499	346	300	758
Average value, 2005	1312	1203	780	515	612	451	324	270	675
Average value, 2004	1008	992	586	432	516	391	265	245	549
Annual % change 07/06	20.0%	19.4%	23.7%	17.2%	7.5%	5.2%	2.9%	9.0%	15.4%

Type of Land	<i>South-east</i>	<i>East Central</i>	<i>North-east</i>	<i>North Central</i>	<i>Central/S. Central</i>	<i>Western</i>	<i>STATE</i>
<i>dollars per acre</i>							
Irrigated land							
Average value, 2007	2547	2649	2100	1531	1381	1003	1713
High Productivity	3002	3078	2387	1995	1559	1362	
Low Productivity	2067	2169	1751	1259	1235	784	---
Average value, 2006	2354	2305	1610	1329	1240	931	1533
Average value, 2005	1974	2097	1566	1017	1190	968	1397
Average value, 2004	1793	1678	1259	1210	865	782	1191
Annual % change 07/06	8.2%	14.9%	30.4%	15.2%	11.4%	7.7%	11.7%

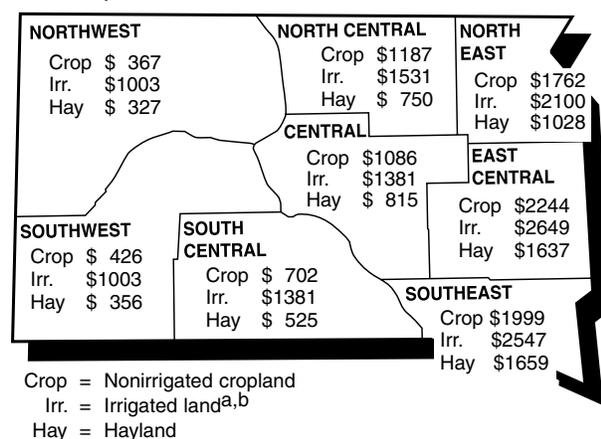
Source: 2007 and earlier South Dakota Farm Real Estate Market Surveys
 Statewide average land values are based on 2002 land use weights

southeast region and \$1,422 in the northeast region. This is the first year that all-land values exceed \$1,350 per acre in the northeast region and the third year in the east-central and southeast regions. The per-acre increase in all-land values from 2006 to 2007 varied from \$303 per acre in the east-central region to \$185 per acre in the southeast region.

These three eastern regions contain the most productive land in South Dakota and benefit from the most rainfall. Cropland and hayland are the dominant agricultural land uses in eastern South Dakota, varying from 70% of farmland acres in the northeast to 79% in the southeast (Fig 1).

Average per-acre agricultural land values in the north-central and central regions are much higher than corresponding land values in western and south-central South Dakota and considerably lower than average land values in the eastern regions. Average land values were \$945 per acre in the north-central region and \$899 per acre in the central region. In both regions, farmland values increased by more than \$95 per acre from 2006 to 2007. Land values are slightly higher in the north-central region due to a greater proportion of crop/hay land, compared to land use in the central region.

Fig 3. Average value of South Dakota cropland, irrigated land, and hayland, by region, February 2007, dollars per acre.



^aIrrigated land values shown for the northwest and southwest regions are based on the average value reported for gravity irrigated land in both western areas.
^bIrrigated land values shown for the central and south-central regions are based on the average value reported in both regions.

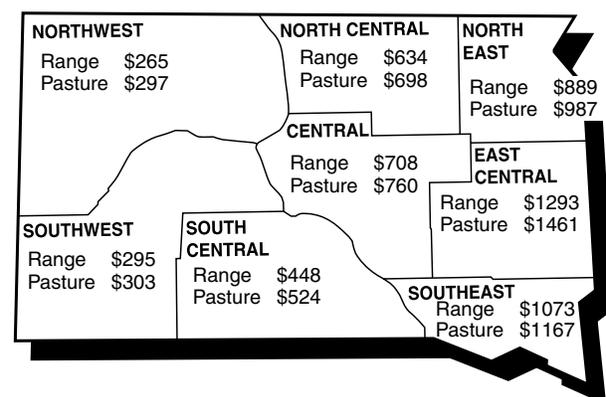
Source: 2007 South Dakota Farm Real Estate Market Survey, SDSU.

Agricultural land values are much lower in regions west of the Missouri River than in the eastern and central regions of South Dakota. The average value per acre ranges from \$521 in the south-central region to \$285 per acre in the northwest region, respectively. Rangeland and pasture are the dominant agricultural land uses in these regions.

Land values and value changes by type of land and region

In each region, per-acre values are highest for irrigated land followed by nonirrigated cropland, hayland, tame pasture, and native rangeland. For each nonirrigated land use, per-acre land values are highest in the three eastern regions and lowest in the northwest, southwest, and south-central regions (Figs 3 and 4; Table 1). In the north-central and central regions, per-acre values of cropland are higher in the north-central region, while per-acre values of hay, pasture, and rangeland are higher in the central region. These regional differences in land values by land use have largely remained consistent over time and are closely related to climate patterns, soil productivity differences, and crop/forage yield differences across the state.

Fig 4. Average value of South Dakota rangeland and tame pasture, by region, February 2007, dollars per acre.



Source: 2007 South Dakota Farm Real Estate Market Survey, SDSU.

Cropland values

The weighted average value of South Dakota's nonirrigated cropland (as of February 2007) is \$1,375 per acre, a 13.5% increase from 2006 (Table 1). This is the third year that the average value of South Dakota's nonirrigated cropland exceeds \$1,000 per acre. Statewide per-acre cropland values have more than doubled since 2002 and have tripled since 1996.

Cropland value increases were strongest (>17%) in the northeast and east-central regions, compared to increases of 10% in the southeast, central, and southwest regions. The northwest and north-central regions were the only locations with single digit increases, varying from 7.3% to 9.1%, respectively.

The east-central and southeast regions have the highest average cropland values of \$2,244 and \$1,999 per acre, respectively. The northeast region ranks third with average cropland values of \$1,762 per acre in 2007. This is the first year that average cropland values exceed \$2,000 per acre in any region of South Dakota (Fig 3, Table 1, Appendix Table 2).

From 2006 to 2007, cropland values increased an average of \$330 per acre in the east-central region and \$314 per acre in the northeast region, compared to \$182 per acre in the southeast region. These three eastern regions contain 45% of South Dakota's cropland. Corn and soybeans are the major crops in most counties.

Wheat, corn, soybeans, sunflower, and some small grains are the predominant cropland uses in most counties of the north-central and central regions of South Dakota. These two regions contain 33% of South Dakota cropland acres. Average cropland values of \$1,187 per acre in the north-central region are higher than the average of \$1,086 per acre in the central region. In both regions, average cropland values increased nearly \$100 per acre. This is the first (second) year that average cropland values exceed \$1,000 per acre in the central (north-central) region.

Cropland values are considerably lower in the three regions west of the Missouri River. As of February 2007, cropland values averaged \$702 per acre in the south-central region compared to \$426 in the southwest and \$367 in the northwest regions. These three regions contain 23% of state cropland acres. Wheat, corn, and grain sorghum are important crops in the south-central region while wheat is the dominant crop in the western regions.

Cropland values have been increasing at a much slower rate in the western and south-central regions compared to the more crop-intensive regions east of the Missouri River. For example, cropland values in the northwest and southwest regions doubled from 1995 to 2007 while cropland values more than tripled during the same period in all five regions east of the Missouri River.

Hayland values

South Dakota hayland values averaged \$875 per acre as of February 2007, a 15.4% increase from one year earlier (Table 1). Very strong annual increases in hayland values (from 17.2% to 23.7%) occurred in the north-central region and in all eastern regions, while the other regions had single-digit annual rates of increase. The lowest annual increases occurred in the southwest and south-central regions. Statewide, hayland values have almost doubled since 2002 and tripled from 1996.

Average hayland values are highest (\$1,659 and \$1,637 per acre) in the southeast and east-central regions, respectively, while hayland values in the northeast region average \$1,028 per acre. This is the first year that average hayland values are above \$1,600 per acre in any region.

Hayland values are considerably lower (\$815 and \$750 per acre, respectively) in the central and north-central region, but remain fairly close to the statewide average value of \$875 per acre. Considerably lower values for hayland are found in all regions west of the Missouri River, varying from \$525 in the south-central region to \$327 per acre in the northwest region (Fig 3 and Table 1). Alfalfa

hay is the most common hay in the eastern regions, while native hay is more common in the central and western regions.

Pasture and rangeland values

In February 2007, the value of South Dakota native rangeland averaged \$448 per acre, while the average value of tame pasture was \$684 per acre (Table 1). Native rangeland is concentrated in the western and central regions of South Dakota, while tame pasture is concentrated in the central and eastern regions.

The statewide average values of rangeland and tame pasture increased 16.1% and 14.8%, respectively, during the past year (February 2006 to February 2007). This is the fifth consecutive year that double-digit (>10%) increases in both pasture and rangeland values occurred in South Dakota. Statewide, rangeland and tame pasture land values have more than doubled since 2002 and tripled in per-acre value from 1996.

Average rangeland values are highest in the east-central and southeast regions (\$1,293 and \$1,073 per acre) and lowest in the southwest and northwest regions, with average values of \$295 and \$265 per acre, respectively. In other regions, average rangeland values vary from the statewide average of \$448 per acre in the south-central region to \$987 per acre in the northeast region (Fig 4 and Table 1).

In most regions, average values of tame pasture exceed rangeland values by 8% to 12%. However, the statewide average value of tame pasture was 52% higher than the average value of rangeland due to differences in regional concentration. Three-fourths of rangeland acres are located in counties west of the Missouri River while less than half of tame (improved) pasture acres are located in these counties.

In the crop-intensive regions of eastern South Dakota and in the north-central region, the average per-acre value of nonirrigated cropland varies from 1.85 to 2.0 times the average value of native rangeland. In the more rangeland-intensive

central and western regions, the average per-acre value of cropland varies from 1.38 to 1.58 times the average value of rangeland. Tame pasture land values are in between rangeland and hayland values in all regions. Also, pasture and hayland values are considerably lower than cropland values in all regions of South Dakota.

The relative variation in rangeland and cropland values across South Dakota is lower than reported for all-agricultural land values. In 2007, average per-acre values of cropland and rangeland in the northwest region are between 16% and 20% of per-acre values for the same land uses in the east-central region. However, due to the changing proportion of crop/hay land and pasture/range land across the state, the average value of all-agricultural land in the northwest is only 15% of all-agricultural land values in the east-central region (Table 1).

Irrigated land values

Irrigated land value reports are consolidated into six regions (Fig 3 and Table 1). Very few irrigated land reports were received from respondents in the central and south-central regions, which made it necessary to combine the reports from these two regions. The northwest and southwest regions are combined into a western region because almost all irrigated land reports are for gravity-irrigated cropland in counties adjacent to the Black Hills. In all other regions, the value of irrigated land was reported for center pivot irrigation systems, excluding the value of the center pivot equipment.

We continue to caution readers that irrigated land value data are less reliable than data for other agricultural land uses. Irrigated land is not common (less than 1% of total acres) in most regions, and there are few sales of irrigated land tracts. Consequently, only 37% of all respondents were familiar with and able to provide information on irrigated land values.

Based on 79 responses, irrigated land value increases from 2006 to 2007 occurred in all regions. Statewide average irrigated land values

are \$1,713 per acre, a 11.7% increase from a year earlier. Regional average irrigated land values are considerably above the statewide average in the eastern regions and considerably below the statewide average in the central and western regions of South Dakota. Irrigated land values vary from an average of \$2,649 and \$2,547 per acre, respectively, in the east-central and southeast regions to \$1,003 per acre in the western regions (Fig 3 and Table 1). This is the first year that average irrigated land values exceed \$1,000 in all regions of South Dakota.

Variation in land values by land productivity and county clusters

Within each region and for each nonirrigated agricultural land use, there is considerable variation in land values. In this section, we report the February 2007 per-acre values of average quality, high-productivity, and low-productivity land by agricultural land use by region and by county clusters within several regions (Table 2).

A county cluster is a group of counties within the same region that have similar agricultural land use and value characteristics. Three clusters are identified in each of the following regions: southeast, east-central, northeast, north-central, and central. Land values are not reported for county clusters in regions west of the Missouri River because there are too few reports for most county groupings. This survey is not designed to reflect the substantially higher land values in or near the Black Hills.

Substantial variation in per-acre land value occurs by degree of land productivity for each land use in each region. For example, 2007 cropland values in the east-central region vary from an average of \$1,771 per acre for low-productivity cropland to \$2,865 per acre for high-productivity cropland. At the other extreme, the average value of low- (high-) productivity cropland values is \$295 (\$453) per acre in the northwest region. Across regions, average values of low-productivity cropland were 53% to 68% of the average values of high-productivity cropland.

Rangeland values in the east-central region vary from an average of \$1,048 per acre for low-productivity rangeland to \$1,575 per acre for high-productivity rangeland. In the northwest region, at the other extreme, the average value of low- (high-) productivity rangeland is \$203 (\$324) per acre. The average value of low-productivity rangeland varies from 58% to 72% of the average value of high-productivity rangeland (Table 2).

In 2007, average nonirrigated cropland values were above \$2,000 per acre in three county clusters: Minnehaha-Moody; Clay-Lincoln-Turner-Union (CLTU), and Brookings-Lake-McCook. Cropland values were above \$1,500 per acre in six additional county clusters of eastern and north-central South Dakota including all county clusters in the northeast region (Table 2). As recently as 2004, average cropland values exceeded \$1,500 per acre in only two county clusters, Minnehaha-Moody and CLTU.

In 2007, average cropland values in the east-central and southeast regions varied from \$2,892 per acre in the Minnehaha-Moody cluster to \$1,253 per acre in the Charles Mix-Douglas cluster. Average hayland values varied from \$2,265 per acre in the Minnehaha-Moody cluster to \$1,000 per acre in the Charles Mix-Douglas cluster.

Similar patterns of land values also occur for rangeland and pasture in these two eastern regions. For example, rangeland values varied from an average of \$1,547 per acre in Minnehaha-Moody to \$870 per acre in Charles Mix-Douglas (Table 2).

In the northeast region, the average values of cropland in 2007 were nearly \$1,860 per acre in the Codington-Deuel-Hamlin and Grant-Roberts clusters and about \$1,560 per acre in the Clark-Day-Marshall cluster. Average per-acre values of other land uses were much lower than per-acre cropland values in each cluster. For each remaining land use, per-acre values were similar (within 5–6%) across all county clusters in this region.

Table 2. Average reported value per acre of agricultural land by South Dakota region, county clusters, type of land, and land productivity, February 1, 2007, 2006, 2005, and 2004.

Agricultural Land Type and Productivity	Southeast				East-Central			
	All	Clay Lincoln Turner Union	Bon Homme Hutchinson Yankton	Charles Mix Douglas	All	Minnehaha Moody	Brookings Lake McCook	Sanborn Davison Hanson Kingsbury Miner
	<i>dollars per acre</i>							
Nonirrigated Cropland								
Average 2007	1999	2527	1881	1253	2242	2892	2288	1874
High Productivity	2532	3255	2405	1457	2865	3740	3042	2290
Low Productivity	1551	1962	1423	1026	1771	2330	1722	1514
Average 2006	1817	2266	1603	1219	1914	2595	2019	1434
Average 2005	1556	2021	1283	1042	1659	2196	1665	1307
Average 2004	1315	1652	1150	937	1346	1822	1207	1088
Rangeland (native)								
Average 2007	1073	1264	1032	870	1293	1547	1292	1204
High Productivity	1265	1484	1209	1044	1575	1996	1583	1420
Low Productivity	865	1016	813	732	1048	1275	949	1034
Average 2006	925	1047	881	791	1055	1432	1041	973
Average 2005	781	851	778	686	844	910	810	838
Average 2004	684	785	629	599	764	936	689	706
Pastureland (tame, improved)								
Average 2007	1167	1389	1085	927	1461	1703	1440	1403
High Productivity	1374	1658	1264	1076	1728	2181	1700	1614
Low Productivity	985	1184	900	785	1227	1419	1089	1250
Average 2006	1085	1242	986	933	1166	1453	1134	1063
Average 2005	937	1108	839	771	1018	1156	936	1007
Average 2004	754	820	728	703	818	923	786	796
Hayland								
Average 2007	1659	2084	1669	1000	1637	2265	1685	1328
High Productivity	2087	2691	2095	1156	1982	2835	2093	1527
Low Productivity	1316	1716	1225	830	1293	1748	1254	1125
Average 2006	1383	1700	1312	932	1371	2250	1315	1037
Average 2005	1312	1759	1111	805	1203	1716	1149	904
Average 2004	1008	1218	919	717	992	1300	902	855

Source: 2007, 2006, 2005, and 2004 South Dakota Farm Real Estate Market Survey, SDSU.

Irrigation land values are not reported in this table, due to insufficient number of reports in most county clusters.

** Insufficient number of reports to make estimates by county cluster.

Table 2. (continued)

Agricultural Land Type and Productivity	Northeast				North Central			
	<i>All</i>	<i>Codington Deuel Hamlin</i>	<i>Grant Roberts</i>	<i>Clark Day Marshall</i>	<i>All</i>	<i>Brown Spink</i>	<i>Edmund Faulk</i>	<i>Campbell Potter Walworth</i>
	<i>dollars per acre</i>							
Nonirrigated Cropland								
Average 2007	1762	1856	1866	1558	1187	1691	951	814
High Productivity	2308	2417	2346	2132	1676	2575	1264	996
Low Productivity	1246	1325	1254	1133	895	1233	724	664
Average 2006	1448	1541	1557	1298	1088	1498	818	775
Average 2005	1255	1308	1349	1104	967	1342	766	683
Average 2004	973	1059	1054	775	822	1094	552	653
Rangeland (native)								
Average 2007	889	937	912	808	634	798	611	400
High Productivity	1035	1080	1032	974	768	947	761	481
Low Productivity	732	797	734	641	517	649	509	311
Average 2006	751	763	771	728	548	704	489	422
Average 2005	667	654	673	678	458	580	459	292
Average 2004	465	505	468	403	396	498	341	294
Pastureland (tame,improved)								
Average 2007	987	1027	1000	908	698	910	694	408
High Productivity	1181	1220	1155	1136	845	1088	867	467
Low Productivity	846	926	850	706	568	734	584	307
Average 2006	843	834	860	847	598	760	537	437
Average 2005	730	744	720	721	465	605	454	290
Average 2004	517	516	565	479	424	535	391	267
Hayland								
Average 2007	1028	1084	1013	964	749	1020	663	474
High Productivity	1260	1284	1150	1282	925	1282	816	553
Low Productivity	737	790	750	663	584	763	547	367
Average 2006	831	924	844	736	640	814	591	477
Average 2005	780	809	743	776	515	678	521	326
Average 2004	586	654	510	524	432	554	369	306

Table 2. (continued)

Agricultural Land Type and Productivity	Central				South Central	South West	North West
	<i>All</i>	<i>Aurora Beadle Jerauld</i>	<i>Buffalo Brule Hand Hyde</i>	<i>Hughes Sully</i>	<i>All</i>	<i>All</i>	<i>All</i>
	<i>dollars per acre</i>						
Nonirrigated Cropland							
Average 2007	1086	1110	1139	977	702	426	368
High Productivity	1418	1514	1409	1295	900	509	453
Low Productivity	826	867	873	701	557	321	295
Average 2006	986	1068	994	858	612	387	342
Average 2005	871	873	888	846	568	383	316
Average 2004	705	785	603	710	541	318	294
Rangeland (native)							
Average 2007	708	780	821	459	448	295	265
High Productivity	834	955	913	575	533	395	324
Low Productivity	537	572	649	335	355	237	203
Average 2006	599	677	611	450	397	255	234
Average 2005	552	608	590	388	346	241	185
Average 2004	456	530	409	384	312	196	167
Pastureland (tame, improved)							
Average 2007	760	854	854	481	524	303	297
High Productivity	913	1022	984	638	583	396	379
Low Productivity	600	619	765	363	405	221	235
Average 2006	711	771	728	531	425	283	282
Average 2005	610	683	606	411	397	291	227
Average 2004	518	586	463	450	337	217	198
Hayland							
Average 2007	815	931	876	560	526	356	327
High Productivity	992	1129	1021	760	612	414	393
Low Productivity	629	693	739	365	446	278	254
Average 2006	758	812	767	558	498	346	300
Average 2005	612	674	599	470	451	324	270
Average 2004	516	581	461	433	391	265	245

In the north-central region, average land values in Brown and Spink counties were much higher than those found in other counties, especially for cropland. Most cropland in Brown and Spink counties is located in the James River valley and is more productive than other land in this region. As an example, nonirrigated cropland values averaged \$1,691 per acre in the Brown-Spink county cluster compared to only \$814 per acre in the Campbell-Potter-Walworth cluster.

East of the Missouri River, the lowest per-acre values for each agricultural land use are found in the Campbell-Potter-Walworth cluster. For each land use, per-acre land values in this cluster are about half of corresponding land values in the Brown-Spink cluster and less than 20 to 25% of cropland or rangeland values in the Minnehaha-Moody cluster.

In the central region, land values for each land use were similar in the Aurora-Beadle-Jerauld and Brule-Hand-Hyde clusters and considerably lower in the Hughes-Sully cluster. Land values vary from an average of \$459 per acre for rangeland in the Hughes-Sully cluster to above \$1,100 for cropland in the other clusters of the central region.

Strong increases (often greater than 20%) were reported for land uses in most county clusters in the northeast and east-central regions. Some weaknesses in per-acre value changes were evident for some land uses in county clusters along the Missouri River.

For regions west of the Missouri River, average land values for each land use are highest in the south-central region and lowest in the northwest. Land values increased more rapidly in the south-central region compared to the southwest and northwest regions. Average land values vary from \$265 per acre for rangeland in the northwest region to \$702 per acre for cropland in the south-central region.

Major reasons for purchase and sale of farmland

During each of the 17 years of the SDSU Farm Real Estate Market survey, respondents have been asked to provide major reasons for buying and selling farmland in their locality. Almost 97% of respondents provided one or two reasons in each category.

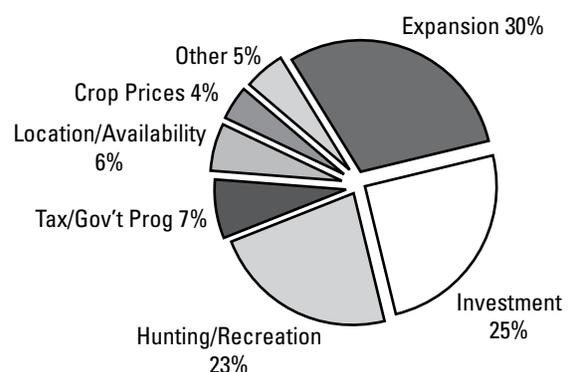
During all of the years this survey has been conducted, the top three or four most commonly cited reasons for purchase or sale of farmland have not changed. However, their relative importance has changed.

Farm expansion and investment purposes were the two most common reasons given for purchasing farmland (Fig 5). Investment purposes varied from purchasing farmland and speculating on further increases in land values (i.e., a potential to obtain large capital gains on investment) to purchasing land and leasing it out to local farmers.

Farmland potential for fee-based hunting and recreation can also influence investment decisions. Twenty-three percent of survey participants indicated hunting/recreation was a major reason for purchasing farmland. Responses indicating investment purposes or hunting/recreation purposes as the major reason(s) for purchasing farmland have increased from 23% of 1994 responses to 45% of responses in 2000 and 48% of responses in 2007.

Conversely, the proportion of responses indicating farm expansion as the major reason for purchasing

Fig 5. Reasons for buying farmland.



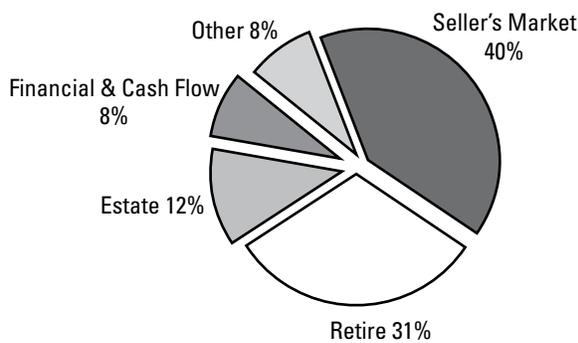
farmland declined from 48% of responses in 1994 to 43% of responses in 2000 and 30% of responses in 2007.

The opportunity to purchase land in advantageous locations or secure land available for sale that had been previously cash rented made up 6% of responses. Another 7% of respondents indicated farmland was purchased primarily for tax purposes (e.g., 1031 exchanges in the federal Internal Revenue Service tax code) or to participate in government farm programs. Four percent of respondents indicated that current high crop prices are enticing individuals to buy farmland.

Retirement, estate settlement, and favorable market conditions continue as the three main reasons for selling farmland. Retirement or settlement of an estate was listed by 43% of respondents as reasons for selling. Forty percent of respondents indicated farmland was sold to capitalize on the current high land prices and demand in the land market. Eight percent listed financial/cash flow pressures as the main reasons for selling farmland (Fig 6).

From 2000 to 2007, the major shift in reasons for selling farmland has been the increase in responses of favorable market conditions for sellers, 40% of responses in 2007 compared to 17% in 2000. The proportion of respondents listing retirement or estate settlement as the major reason for sale declined from 60% to 43% during the same period.

Fig 6. Reasons for selling farmland.



⁴Animal Unit Month (AUM) is defined as the amount of forage required to maintain a mature cow with calf for 30 days. An AUM is somewhat of a "generic" value and should be about equal across regions. Therefore, private cash lease rates quoted on a per-AUM basis should be roughly equivalent in different geographic areas of the state unless there are major differences in forage availability, forage quality, and demand for leased land.

Financial or cash flow pressures as the major reason for sale also declined from 16% to 8% of response in the same 7-year period.

The shift in perception that farmland expansion is no longer the dominant reason for farmland purchases is closely related to the rapid increase of farmland values, especially from 2000 to 2007, and the growth of hunting/recreation activities as a motivation for purchasing farmland in the 1990s and continuing to the present. In most areas of South Dakota, farmers and ranchers expanding their operation are still the principal buyers of agricultural land in their locality. However, their dominance in the land market is challenged by local area investors and nonlocal investors interested in purchasing agricultural land for various reasons including leasing land to local farmers, leasing/developing land for hunting and other recreational opportunities, and other motives. The implication is that farm expansion comes at a higher price than before.

Cash rental rates of South Dakota agricultural land

Three-eighths of South Dakota agricultural land acres are in cash, share, or other lease arrangements (South Dakota Census of Agriculture 2002). The cash rental market provides important information on returns to agricultural land. Three-fourths of South Dakota farmland renters are involved in one or more cash leases for agricultural land. The majority of farmland leases (57%) were cash leases, and five-eighths of cash leases were annual renewable agreements (Janssen and Xu 2003).

Respondents were asked about average cash rental rates per acre for nonirrigated cropland, irrigated land, and hayland in their localities. Cash rental rates for pasture/rangeland were provided on a per-acre basis and, if possible, on an Animal Unit Month (AUM) basis.⁴ Respondents were also asked to report cash rental rates for high-productivity and

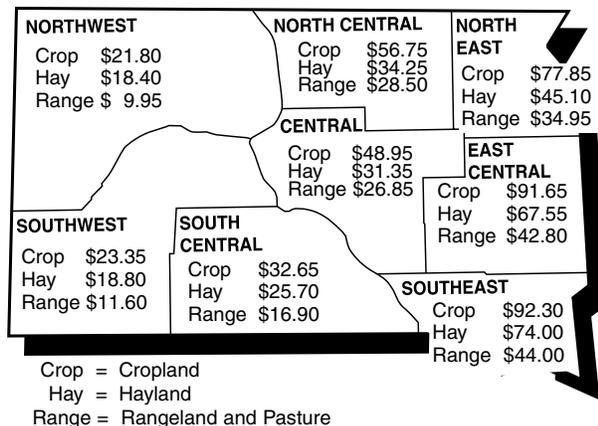
low-productivity land by different land uses in their locality. Cash rental rates by land use by region are summarized in Figure 7 and Table 3. The same information is summarized by region and county cluster in Table 4.

Cash rental rates differ greatly by region and by land use. For nonirrigated land uses, cash rental rates per acre are highest in the southeast and east-central regions and lowest in northwest and southwest South Dakota. In every region, cash rental rates are highest for cropland and lowest for rangeland and pasture (Fig 7 and Table 3).

From 2006 to 2007, statewide average cash rental rates increased \$3.85 per acre for cropland, \$1.55 for hayland, and \$0.60 for pasture/rangeland. The average percentage increase in cash rental rates was 6.3% for cropland, 3.9% for hayland, and 3.6% for rangeland.

Average cash rental rates increased for cropland in all regions except in the south-central and southwest regions. Hayland average cash rental rates increased in all regions except in the south-central, southwest, and central regions. Pasture/rangeland cash rental rates increased in all regions except in the south-central region. In general, cash rental rate increases were greatest in the same regions where the strongest land value increases were reported.

Fig 7. Average cash rental rate of South Dakota non-irrigated cropland, hayland, and rangeland, by region, 2007, dollars per acre.



Source: 2007 South Dakota Farm Real Estate Market Survey, SDSU.

2007 cash rental rates: cropland, hayland, and irrigated land

Average cash rental rates in 2007 for nonirrigated cropland vary from \$21.80 to \$23.35 per acre in the western regions to \$91.65 per acre in the east-central and \$92.30 in the southeast regions (Fig 7 and Table 3). Average cash rental rates for cropland are highest (\$118.60 and \$110.30 per acre, respectively) in the Minnehaha-Moody and Clay-Lincoln-Turner-Union (CLTU) county clusters (Table 4).

This is the fifth year that average cash rental rates exceeded \$100 per acre for high-productivity non-irrigated cropland in both the southeast and east-central regions. Average cash rental rates for high-productivity cropland in the CLTU and Minnehaha-Moody clusters currently exceed \$145 per acre. Cash rental rates for high-productivity cropland currently exceed \$100 per acre in the Brown-Spink county cluster of the north-central region and in all but one county cluster (Charles Mix-Douglas county cluster) located in the three eastern regions of South Dakota.

Within each region and county cluster, cash rental rate averages for low-productivity cropland are considerably lower than those reported for high-productivity cropland. For example, reported average cash rent for nonirrigated cropland in the southeast region is \$67.10 per acre for low-productivity cropland and \$122.10 for high-productivity cropland. In the northwest region, the average cash rent for low-productivity cropland is \$16.70 per acre while cash rental rates for high-productivity cropland average \$26.65 (Table 3).

Hayland cash rental rates in 2007 vary from an average of \$18.40 to \$18.80 per acre in western South Dakota and from \$31.35 to \$34.25 in the central and north-central regions, respectively. In the three regions of eastern South Dakota, hayland cash rental rates vary from an average of \$45.10 in the northeast region to \$74.00 in the southeast region (Fig 7 and Table 3).

Table 3. Reported cash rental rates of South Dakota agricultural land by type of land by region, 2004–2007.

Type of Land	<i>South-east</i>	<i>East Central</i>	<i>North-east</i>	<i>North-Central</i>	<i>Central</i>	<i>South-Central</i>	<i>South-west</i>	<i>North-west</i>	<i>State</i>
<i>dollars per acre</i>									
Nonirrigated Cropland									
Average 2007 rate	92.30	91.65	77.85	56.75	48.95	32.65	23.35	21.80	64.80
High Productivity	122.10	127.70	118.60	82.65	65.90	45.30	29.85	26.65	
Low Productivity	67.10	66.25	56.75	38.80	34.15	19.90	17.15	16.70	
Average 2006 rate	89.25	82.60	70.50	53.85	46.35	34.00	24.70	21.45	60.95
Average 2005 rate	87.20	82.60	65.70	49.40	45.80	31.50	24.90	22.90	58.90
Average 2004 rate	83.70	78.80	64.50	47.60	43.40	34.10	23.10	21.40	56.80
Hayland									
Average 2007 rate	74.00	67.55	45.10	34.25	31.35	25.70	18.80	18.40	41.35
High Productivity	97.70	90.50	65.15	45.35	43.51	32.75	24.25	22.40	
Low Productivity	53.50	47.70	31.65	24.10	21.63	17.15	14.05	13.80	
Average 2006 rate	72.90	60.50	40.20	30.20	34.60	27.30	19.55	18.15	39.80
Average 2005 rate	71.60	56.40	38.70	28.90	29.80	22.20	17.60	18.80	37.20
Average 2004 rate	68.50	53.40	36.80	27.10	28.40	24.80	18.50	17.70	36.05
Pasture/Rangeland									
Average 2007 rate	44.00	42.80	34.95	28.50	26.85	16.90	11.60	9.95	17.10
High Productivity	57.70	58.50	47.65	38.05	37.95	22.45	14.65	13.05	
Low Productivity	28.90	31.30	24.30	20.40	18.70	11.10	7.85	6.70	
Average 2006 rate	42.10	40.00	31.35	25.90	26.30	19.60	10.70	9.25	16.50
Average 2005 rate	40.55	36.05	29.80	24.60	24.95	14.85	10.70	9.75	15.60
Average 2004 rate	37.40	35.90	27.20	22.20	23.90	17.30	10.00	7.90	14.60
<i>dollars per Animal Unit Month</i>									
Average 2007 rate	22.70	***	26.50	27.00	25.35	23.80	24.30	21.95	
High Productivity	29.00	***	32.50	36.10	30.00	29.10	29.55	27.55	
Low Productivity	16.70	***	19.00	20.30	19.10	17.00	18.00	16.90	
Average 2006 rate	25.15	26.00	25.25	23.10	24.45	24.45	24.15	20.85	
Average 2005 rate	21.45	21.10	23.75	22.40	20.60	23.20	22.30	19.45	
Average 2004 rate	21.30	**	**	21.10	24.00	23.60	21.90	19.80	
<hr/>									
Type of Land	<i>South-east</i>	<i>East-Central</i>	<i>North-east</i>	<i>North-Central</i>	<i>Central/S. Central</i>	<i>Western</i>	<i>State</i>		
<i>dollars per acre</i>									
Irrigated land									
Average 2007 rate	131.65	113.80	98.70	89.65	86.20	67.00	94.70		
High Productivity	158.10	145.35	141.40	109.75	106.45	84.15			
Low Productivity	106.10	92.65	76.50	73.65	68.05	51.35			
Average 2006 rate	121.20	109.50	96.25	84.75	81.25	62.85	88.90		
Average 2005 rate	118.30	109.30	84.45	80.95	73.10	60.50	84.50		
Average 2004 rate	118.80	103.80	97.50	75.00	73.20	56.90	83.85		

** Insufficient number of reports to make regional estimates.

Source: South Dakota Farm Real Estate Market Surveys, SDSU, 2007 and earlier year reports.

Statewide average rental rates are based on 2002 regional land use weights.

Table 4. Reported cash rental rates of South Dakota agricultural land by region and county clusters, 2007, 2006, 2005, and 2004 rates.

	<i>Southeast</i>				<i>East-Central</i>			<i>Sanborn Davison Hanson Kingsbury Miner</i>
	<i>All</i>	<i>Clay Lincoln Turner Union</i>	<i>Bon Homme Hutchinson Yankton</i>	<i>Charles Mix Douglas</i>	<i>All</i>	<i>Minnehaha Moody</i>	<i>Brookings Lake McCook</i>	
	<i>dollars per acre</i>							
Nonirrigated Cropland								
Average 2007 rate	92.30	110.30	88.70	64.20	91.65	118.60	96.00	75.05
High Productivity	122.10	147.85	116.95	81.80	127.70	163.10	136.95	103.35
Low Productivity	67.10	83.00	62.30	44.75	66.25	86.55	72.15	51.90
Average 2006 rate	89.25	106.15	82.85	59.65	82.60	109.30	85.75	67.00
Average 2005 rate	87.20	106.70	76.70	59.10	82.60	102.10	89.10	65.50
Average 2004 rate	83.70	99.30	77.50	58.10	78.80	100.20	80.60	62.50
Hayland								
Average 2007 rate	74.00	88.50	77.90	46.25	67.55	94.15	75.90	52.00
High Productivity	97.70	115.50	102.40	63.75	90.50	123.90	103.20	69.45
Low Productivity	53.50	66.20	55.95	30.55	47.70	65.45	57.85	34.15
Average 2006 rate	72.90	85.50	72.55	47.45	60.50	94.15	57.95	48.05
Average 2005 rate	71.60	91.30	68.10	43.50	56.40	80.10	57.60	41.70
Average 2004 rate	68.50	81.90	68.20	40.70	53.40	67.10	51.10	46.80
Pasture/Rangeland								
Average 2007 rate	44.00	48.00	43.00	39.30	42.80	48.40	43.00	40.10
High Productivity	57.70	61.92	56.60	52.85	58.50	66.30	62.25	52.15
Low Productivity	28.90	31.10	28.85	25.80	31.30	35.00	31.65	29.35
Average 2006 rate	42.10	47.70	38.40	36.55	40.00	51.50	41.60	35.65
Average 2005 rate	40.55	48.65	38.40	30.50	36.05	42.05	34.70	34.10
Average 2004 rate	37.40	44.70	33.20	30.00	35.90	38.80	35.40	34.80

Irrigated cropland rental rates per acre and rangeland rental rates per AUM are not reported in this table, due to insufficient number of reports in most county clusters.

Source: South Dakota Farm Real Estate Market Surveys, SDSU, 2007, 2006, 2005, and 2004.

Table 4. (continued)

	Northeast				North-Central			
	<i>All</i>	<i>Codington Deuel Hamlin</i>	<i>Grant Roberts</i>	<i>Clark Day Marshall</i>	<i>All</i>	<i>Brown Spink</i>	<i>Edmund Faulk McPherson</i>	<i>Campbell Potter Walworth</i>
	<i>dollars per acre</i>							
Nonirrigated Cropland								
Average 2007 rate	77.85	84.20	80.00	67.70	56.75	76.30	48.05	39.25
High Productivity	118.60	123.15	117.55	113.10	82.65	114.10	68.90	54.10
Low Productivity	56.75	64.35	55.95	47.00	38.80	53.00	32.50	26.20
Average 2006 rate	70.50	77.00	73.55	63.05	53.85	68.85	46.60	40.35
Average 2005 rate	65.70	71.90	68.40	57.30	49.40	64.80	42.50	38.70
Average 2004 rate	64.50	70.80	68.70	54.40	47.60	56.90	38.90	39.10
Hayland								
Average 2007 rate	45.10	51.30	45.00	38.25	34.25	44.55	33.00	22.20
High Productivity	65.15	68.55	60.00	64.40	45.35	57.35	44.50	30.15
Low Productivity	31.60	38.95	31.25	23.70	24.10	31.55	22.90	15.80
Average 2006 rate	40.20	50.70	33.00	31.45	30.20	34.20	30.75	24.70
Average 2005 rate	38.70	41.40	41.60	31.40	28.90	35.40	28.20	21.20
Average 2004 rate	36.80	43.30	29.80	30.70	27.10	31.10	26.10	20.30
Pasture/Rangeland								
Average 2007 rate	34.95	40.35	31.45	29.70	28.50	33.70	29.65	18.15
High Productivity	47.65	55.90	39.30	41.90	38.05	43.35	40.10	26.10
Low Productivity	24.30	29.65	22.15	18.20	20.40	25.00	20.85	12.20
Average 2006 rate	31.35	36.80	29.45	27.75	25.90	31.60	27.25	16.90
Average 2005 rate	29.80	34.05	28.35	26.35	24.60	29.60	25.15	17.10
Average 2004 rate	27.20	29.80	26.90	24.20	22.20	25.60	22.70	15.40

Table 4. (continued)

	<i>Central</i>				<i>South-Central</i>	<i>South-West</i>	<i>North-West</i>
	<i>Aurora</i>	<i>Beadle</i>	<i>Buffalo</i>	<i>Brule</i>			
	<i>Jerauld</i>	<i>Hyde</i>	<i>Hand</i>	<i>Hughes</i>			
	<i>All</i>			<i>Sully</i>	<i>All</i>	<i>All</i>	<i>All</i>
	<i>dollars per acre</i>						
Nonirrigated Cropland							
Average 2007 rate	48.95	58.00	45.40	43.75	32.65	23.35	21.80
High Productivity	65.90	78.60	61.00	58.40	45.30	29.85	26.65
Low Productivity	34.15	39.15	31.50	32.50	19.90	17.15	16.70
Average 2006 rate	46.35	53.40	42.10	42.40	34.00	24.70	21.45
Average 2005 rate	45.80	49.50	41.50	45.00	31.50	24.90	22.90
Average 2004 rate	43.40	47.10	38.20	44.80	34.10	23.10	21.40
Hayland							
Average 2007 rate	31.35	38.70	30.95	21.00	25.70	18.80	18.40
High Productivity	43.51	58.40	40.80	27.25	32.75	24.25	22.40
Low Productivity	21.63	27.60	21.20	13.50	17.15	14.05	13.80
Average 2006 rate	34.60	37.90	31.95	**	27.30	19.55	18.15
Average 2005 rate	29.80	36.50	26.50	17.50	22.20	17.60	18.80
Average 2004 rate	28.40	31.90	28.40	23.60	24.80	18.50	17.70
Pasture/Rangeland							
Average 2007 rate	26.85	33.20	27.10	19.45	16.90	11.60	9.95
High Productivity	37.95	48.40	37.45	27.15	22.45	14.65	13.05
Low Productivity	18.70	22.75	19.65	12.75	11.10	7.85	6.70
Average 2006 rate	26.30	30.10	25.80	20.20	19.60	10.70	9.25
Average 2005 rate	24.95	29.30	23.80	18.70	14.85	10.70	9.75
Average 2004 rate	23.90	28.60	22.00	19.10	17.30	9.90	7.90

** insufficient number of reports to make estimates at the regional level

In eastern South Dakota, average cash rental rates for hayland vary from \$94.15 in the Minnehaha-Moody cluster to \$75.90 per acre in the Brookings-Lake-McCook cluster to \$38.25 in the Clark-Day-Marshall cluster. For several counties in each eastern region, average cash rental rates for hayland are between \$45.00 and \$55.00 per acre (Table 4).

Within each region and county cluster, there are considerable differences in average cash rental rates of low-productivity and high-productivity hayland. For example, the average rental rates for high- and low-productivity hayland in the CLTU county cluster are \$115.50 and \$66.20 per acre, respectively. In many regions, the lower cash rental rates are reported for native hayland, while the higher rates are quoted for alfalfa or other tame hayland.

Cash rental rates for irrigated land vary from an average of \$67.00 per acre in western South Dakota to \$113.80 in the east-central region and \$131.65 in the southeast region (Table 3).

2007 cash rental rates: rangeland and pasture

Nearly three-eighths of South Dakota's 26.2 million acres of range and pasture acres are leased to farmers and ranchers. Several million acres of rangeland in western and central South Dakota are controlled by federal, state, or tribal agencies and are leased to ranchers using cash leases or grazing permits. A majority of leased rangeland and almost all leased pasture are cash rented from private landlords (Janssen and Xu 2003). Respondents were asked to report 2007 cash rental rates per acre and per AUM (Animal Unit Month) on privately owned rangeland and pastureland in their localities.

Average cash rental rates per acre reflect regional differences in productivity and carrying capacity of pasture and rangeland tracts. Average cash rental rates vary from \$9.95 to \$11.60 per acre in western South Dakota to \$44.00 in the southeast region. Typical cash rental rates for low-productivity and high-productivity rangeland vary from \$6.70 to \$13.05 in the northwest region and from \$28.90 to \$57.70 in the southeast region (Fig 7 and Table 3).

In counties east of the Missouri River, average cash rental rates for rangeland and pasture vary from a high of \$48.40 per acre in the Minnehaha-Moody cluster to a low of \$18.15 in the Campbell-Potter-Walworth county cluster (Table 4).

Rangeland rates per AUM in 2007 vary from an average of \$21.95 per AUM in the northwest region to \$27.00 per AUM in the north-central region. Rental rates per AUM increased in all regions from 2006 to 2007 except in the southeast and south-central regions.

New publications on agricultural land rental arrangements in South Dakota

There are several new publications available from the SDSU Extension Economics Department that address issues for both landlords and tenants and summarize some issues that should be considered when entering into lease agreements. Also available through these publications are worksheets that can be used to assist in the determination of equitable lease rates. These publications listed are only a few of the available resources. Additional publications and related decision aid resources are available at <http://econ.sdstate.edu>.

SDSU Extension Extra 5063, Crop cash lease agreements, is available online at: <http://agbiopubs.sdstate.edu/articles/ExEx5063.pdf>

SDSU Extension Extra 5064, the short version of a cash farm lease, is available online at: <http://agbiopubs.sdstate.edu/articles/ExEx5064.pdf>

SDSU Extension Extra 5065, Crop share lease agreements, is available online at: <http://agbiopubs.sdstate.edu/articles/ExEx5065.pdf>

SDSU Extension Extra 5066, the short version of a crop share farm lease, is available online at: <http://agbiopubs.sdstate.edu/articles/ExEx5066.pdf>

SDSU Extension Extra 5067, Flexible-cash lease agreements, is available online at: <http://agbiopubs.sdstate.edu/articles/ExEx5067.pdf>

SDSU Extension Extra 5068, the short version of a flexible-cash farm lease, is available online at: <http://agbiopubs.sdstate.edu/articles/ExEx5068.pdf>

SDSU Extension Extra 5071, Pasture lease agreements, is available online at: <http://agbiopubs.sdstate.edu/articles/ExEx5071.pdf>

SDSU Extension Extra 5072, the short version of a pasture lease, is available online at: <http://agbiopubs.sdstate.edu/articles/ExEx5072.pdf>

Rates of return to South Dakota agricultural land

Two approaches (gross rates of return and net rates of return) are used in each annual survey to obtain information on current rates of return to agricultural land.^{5,6} The 1991 to 2007 trend of gross rent-to-value ratio by land use and net rate of return by land use is depicted in Figs 8a and 8b respectively.

First, gross rent-to-value ratios (gross cash rent as a percent of land value) are calculated from respondents' reported cash rental rates and estimated values of leased land. This is a measure of the **gross rate of return** obtained by landlords **before** deduction of property taxes and other landlord expenses.

In 2007, the statewide average gross rate of return (rent-to-value ratio) is 4.9% for nonirrigated cropland, 4.8% for hayland, 4.0% for rangeland, and 4.4% for all agricultural land. This is the second year in the 17 years of this annual survey that the statewide average gross rates of return to all nonirrigated agricultural land is lower than 5%. Regional average rent-to-value ratios in 2007 vary from 3.8% in the southwest to 4.9% in the north-central region (Table 5).

Next, respondents were asked to estimate the current **net rate of return** (percent) that landowners in their locality could expect given current land values. Appraisers refer to the current annual net

rate of return as the market-derived capitalization rate, which is widely used in the income approach to farmland appraisal. The net rate of return is a return to agricultural land ownership **after** deducting property taxes, real estate maintenance, and other ownership expenses.⁷

Average net rates of return for 2007 varied from 4.2% for nonirrigated cropland to 3.9% for rangeland and pasture and averaged 3.8% for all agricultural land.

Fig 8a : Gross rent to value ratio by land use, 1991–2007

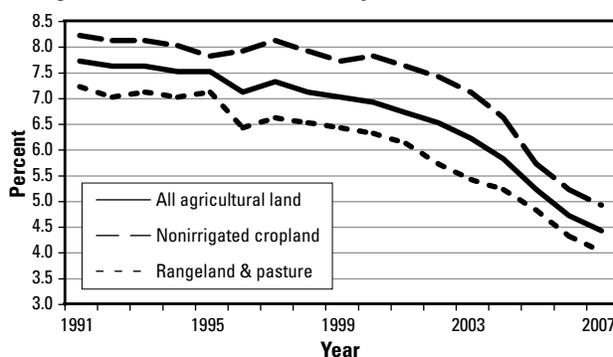
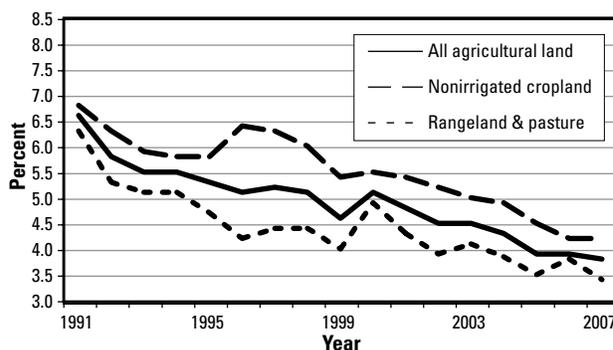


Fig 8b : Net rate of return by land use 1991–2007



Source: 2007 SDSU Farm Real Estate Market Survey and earlier publications

⁵The range of reported rates of return and calculated rent-to-value ratios is obtained for the middle 90% of responses for each land use. For most respondents, the estimated gross rate of return (rent-to-value ratio) varies from 3.1% to 7.5% for cropland, from 3.0% to 7.5% for hayland, and 2.5% to 6.5% for rangeland. For most respondents, the reported net rate of return varies from 2% to 8% for cropland and hayland and from 1.5% to 7.5% for rangeland. This represents the practical range of reported rates of return and rent-to-value ratios.

⁶The median rent-to-value ratio (gross rate of return) on 2007 is 4.75% for cropland, 4.45% for hayland, and 3.75% for rangeland. The median net rate of return is 4.0% for cropland, 3.75% for hayland, and 3.25% for rangeland.

⁷The market-derived income capitalization rate used by appraisers is equal to net returns to land divided by its current market value. One widely used method of estimating net return to agricultural land is subtracting property taxes, land maintenance expense, and other land ownership expenses from the gross cash rental rate for the same land. In each SDSU farmland market survey, respondents were requested to estimate this net rate of return by land use for agricultural land in their localities.

Table 5. Estimated rates of return to South Dakota agricultural land by type of land and by region, 1991–2007.

Type of land-statewide	GROSS rate of return (%)						NET rate of return (%) ^b					
	2007	2006	2005	2004	Average 2000–2003	Average 1991–1999	2007	2006	2005	2004	Average 2000–2003	Average 1991–1999
All agricultural land	4.4	4.7	5.2	5.8	6.6	7.4	3.8	3.9	3.9	4.3	4.7	5.4
Nonirrigated cropland	4.9	5.2	5.7	6.6	7.5	8.0	4.2	4.2	4.5	4.9	5.3	6.1
Rangeland & pasture	4.0	4.3	4.8	5.2	5.9	6.8	3.4	3.8	3.5	3.9	4.3	4.8
Hayland	4.8	5.2	5.7	6.5	7.3	8.0	3.9	4.0	4.0	4.4	4.9	5.6
Region ^d	GROSS rate of return (%)						NET rate of return (%)					
Southeast	4.7	5.0	5.5	6.2	7.0	7.4	4.4	4.1	4.5	4.9	5.1	5.9
East-Central	3.8	4.4	4.9	5.6	6.9	7.6	3.8	4.1	4.7	4.7	5.2	5.5
Northeast	4.6	4.9	5.1	6.8	7.6	8.1	3.8	3.9	4.3	4.8	5.5	6.2
North-Central	4.9	5.2	5.8	6.2	6.9	7.9	4.4	4.4	4.4	4.6	5.8	6.1
Central	4.2	4.6	4.9	6.0	6.9	7.7	4.2	4.1	4.1	4.4	4.5	5.3
South-Central	4.5	5.1	4.9	6.2	6.3	6.9	3.8	4.0	4.0	4.2	4.7	5.2
Southwest	4.3	4.2	4.7	5.4	6.1	6.7	3.0	3.1	3.2	4.0	3.8	4.4
Northwest	4.4	4.7	5.5	5.2	6.1	7.1	3.4	4.0	3.4	3.7	4.4	5.1

^aGROSS rate of return (percent) is calculated by dividing the average gross cash rental rate by reported value of rental land.

^bNET rate return is the reporter's estimate of the percentage rate of cash return to ownership given current land values. Appraisers often refer to this measure as the market capitalization rate.

^cState level GROSS and NET rate of return estimates are calculated by weighting regional estimates by proportion of acres of each land use by region.

^dRegional level GROSS and NET rate of return estimates are calculated by weighting the rate of return estimates for each land use by proportion of the region agricultural acres in each land use.

Source: 2007 South Dakota Farm Real Estate Survey, SDSU and earlier reports.

This is the third consecutive year during the past 17 years that average net rates of return for all agricultural land were below 4%. Also, average net rates of return in 2007 are below 4.5% for each agricultural land use and for all regions of South Dakota.

Average net rates of return by region in 2007 varied from 3.0% in the southwest region to 4.4% in the north-central and southeast regions. In all other regions, the average net rate of return was between 3.4% and 4.2%. The regional differences in rates of return reflect the consistent pattern of cropland rates of return (both gross and net) exceeding rates of return to rangeland in each of the past 17 years.

The calculated difference between gross and net rates of return to agricultural land ownership in 2007 is 0.6 percentage points for all agricultural land and varies somewhat across regions and agricultural land uses (Table 5). Most of the difference between gross returns and net returns is caused by property tax levies.

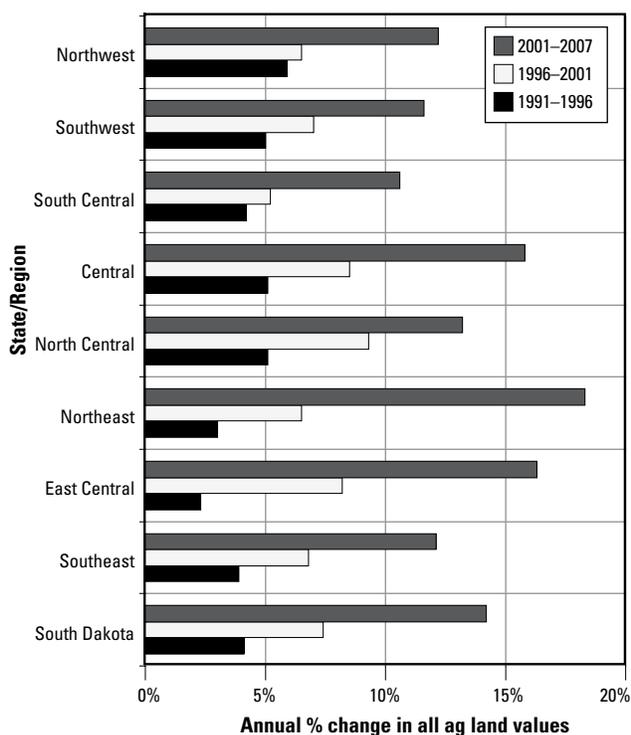
Longer-term perspective on farmland market changes, 1991–2007

Longer-term historical data from annual SDSU surveys of agricultural land values and cash rental rates in South Dakota from 1991 to 2007 are located in Appendix Tables 2 and 3 of this report. Long-term trends in average annual cash rates of return are shown in Fig 8a and Fig 8b. Regional and statewide comparisons of annual percentage changes in all agricultural land values in three periods (1991–1996, 1996–2001, and 2001–2007) are shown in Fig 9.

Based on 17 years of examining trends in rates of return to agricultural land and trends in land values and cash rental rates by agricultural land use across regions and county clusters, a few key observations are offered.

First, gross rates of return (cash rent to land value ratio) for cropland, rangeland, and all agricultural land declined slowly from 1991 to 2000 and more

Fig 9. Annual percentage change in all ag land values, 1991–1996, 1996–2001, and 2001–2007.



rapidly each year from 2001 to 2007. In all 17 years, average rates of return to cropland exceeded average rates of return to rangeland (Fig 8a and 8b). During the same time period, trends for net rates of return were similar, but more erratic, than trends in gross cash rates of return to land.

Second, considerable insight about impacts of federal policies on land values is gained by comparing annual rates of land value increases for the three time periods. The first period, 1991 to 1996, reflects the impacts of the 1990 farm bill, continued recovery of the farm sector from the farm financial crisis of the mid-1980s, and long-term farm mortgage interest rates averaging 8–10%. The second period, 1996 to 2001, reflects the impacts of the 1996 farm bill and subsequent increases in federal farm program spending. However, there were no major changes in farm mortgage interest rates from the earlier period. The third period, 2001–2007, reflects the impacts of major reductions in farm mortgage interest rates, continued farm program support, and relatively low rates of inflation.

Agricultural land values increased more rapidly in the 2001 to 2007 period than in the earlier periods (Fig 9). From 2001 to 2007, average annual increases in land values exceeded 10% in all regions of the state. From 1996 to 2001, average annual increases in land values were between 5% and 9%. They were generally less than 5% in the 1991 to 1996 period. The impacts of lower interest rates along with relatively low inflation rates overwhelmed the considerable impacts of federal farm programs on land values. Also, rapid adoption of biotechnology, reduced tillage, and development of soybean meal plants and ethanol plants in the past 10 years have also increased per-acre returns to farming and enhanced land values.

Third, increases in agricultural land values from 1991 to 2000 were strongly supported by increases in cash rental rates. However, the declining rates of return from 2001 to 2007 indicate that cash rental rates have increased at a slower rate than land values in this period.

For example, South Dakota cropland cash rental rates increased an annual average rate of 5.8% from 1996 to 2001 and 5.5% from 2001 to 2007. However, cropland values increased at a similar rate to cropland cash rents (+6.6%) from 1996 to 2001 and accelerated to an annual average of 14.1% from 2001 to 2007.

The earlier time period (1996 to 2001) reflects the major impacts of farm program benefits on both cash rental rates and land values, while the latter time period shows the much greater positive impact of reduced interest rates on land values compared to the impact on cash rental rates. During this latter period of 2001 to 2007, the real estate market (including farmland) has been in a speculative boom fueled by low interest rates and relatively low rates of general price inflation.

The rapid increase in South Dakota ethanol production has been a contributing factor to rising farmland values and helps to explain why cropland values in eastern and central regions have been

increasing at a faster rate than cropland values in western South Dakota.

Gross and net cash rates of cash return have reached the lower end of historical rates of return to agricultural land in South Dakota. Farmland investors find market conditions where most of the total returns are from expectations of capital appreciation instead of current cash returns. This pattern of declining rates of cash return to land also occurs during the latter stages of land market price booms.

Fourth, the more rapid increases in cash rental rates and land values since 1996 were directly related to crop price or government payment benefits that became quickly capitalized into land rents and values. More recent increases in land values from 2001 to 2006 were strongly related to sharp declines in costs of borrowing money and to many investors (including farmers) shifting some funds into real estate from stocks and bonds. These factors remain important, but the recent surge in crop prices, if maintained for a few years, may lead to sharp increases in cash rental rates.

Fifth, regional and county cluster rankings in per-acre land values are very stable for most land uses, reflecting fundamental differences in soil productivity, long-term weather patterns, and relatively slow shifts in the economic structure of most counties in South Dakota. The greatest changes in land values are generally occurring near growing urban centers, in localities where commercial (fee) hunting has greatly increased, and in areas shifting from wheat and small grains to corn and soybeans.

Sixth, land values across counties and regions tend to move together over time but not at exactly the same time or at the same pace. A typical pattern is three to four years of rapid increases in land values followed by one or two years of consolidation (or even declines) before the next surge in land values. The timing of the growth and consolidation phases are not identical across all regions and counties.

Thus, a long-term perspective on land value changes is warranted.

Finally, agricultural land values show increases above the rate of price inflation in all regions. From 1991 to 2007, the average annual rate of general price inflation has been less than 2.5%. The statewide average annual rate of increase for all agricultural land was 8.2% during this period, with regional variation from 6.6% in the south-central region to 9.1% in the north-central region (Appendix Table 2). Trends in land value changes by land use followed similar patterns.

Additional information and numerous charts on longer-term trends in South Dakota agricultural land values and cash rental rates, statewide and regional, can be obtained in a recent electronic publication, "Historical and recent trends in South Dakota's agricultural land market," at <http://agbiopubs.sdstate.edu/articles/EC918.pdf> (Hamda et al 2003). An update is planned.

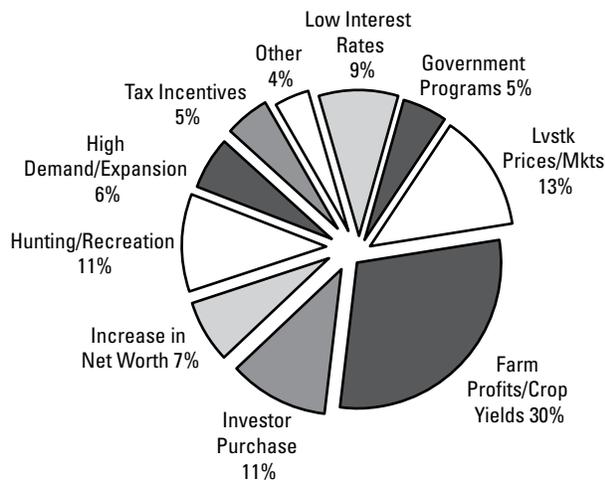
Respondents' assessment of factors influencing farmland markets in South Dakota

Respondents were asked to list major positive and negative factors affecting the farm real estate market in their localities. These factors help explain changes in the amount of farmland for sale, sale prices, and rental rates. Eighty-seven percent of respondents listed one or two positive reasons and 80% listed one or two negative reasons.

This year 30% of respondents indicated farm profits/crop yields as positive factors in the farm real estate market. Thirteen percent of respondents indicated livestock and commodity prices as positive factors (Fig 10). Drought/weather conditions and higher input costs (especially fuel, energy, and fertilizer costs) were the two most common responses cited as negative factors (Fig 11).

From 2002 to 2005, low interest rates were cited as the principal positive factor in the farmland market.

Fig 10. Positive factors in the farm real estate market



In 2006 and 2007, relatively low interest rates were still cited as a positive factor, but increasing interest rates were cited nearly as often as a negative factor in the farmland market.

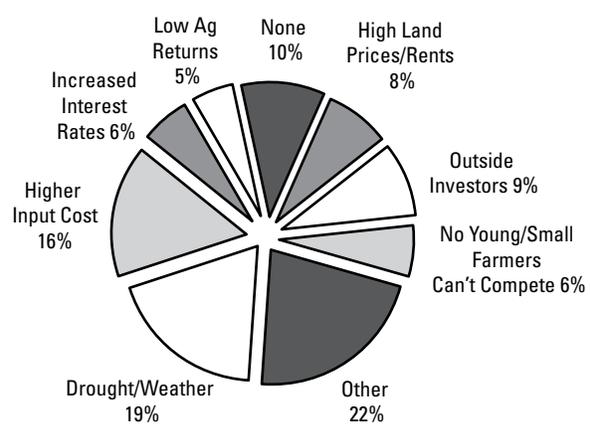
Government programs, tax incentives, and increase in net worth were frequently cited as positive factors, while low agricultural returns, few young farmers, and small farmers' inability to compete with large operations were often cited as negative factors. Other listed negative factors included farm program uncertainty, competition for nonagricultural uses of farmland, and taxes.

Respondents continue to be divided in their assessment of investor interest in farm real estate and continued escalation of farmland prices. High demand for farmland was listed as a positive factor (6% of responses), while high land prices and cash rental rates were also cited as a negative factor (8% of responses). Investors (mostly nonlocal) were often listed as a positive factor and as a negative factor (Fig 10 and 11). Some respondents stated that outside investors are raising land prices to levels that are becoming out of reach for local farmers.

Agricultural land market expectations: past and prospective

In each survey, respondents were asked to estimate the percentage change in land values during the

Fig 11. Negative factors in the farm real estate market



previous year and to forecast percentage changes in land values for the following year. Nearly 80% of respondents provided their perception of previous year land value changes, but only 60% provided forecasts for next year.

During the past year, respondents' estimated percentage increases in land values averaged 9–10% for rangeland and pasture and 12–13% for cropland or hayland and were a little lower than rates of land value increase estimated in the 2006 and 2005 surveys. The median increase was 10% for all land uses in all 3 years. Most respondents (93% to 97%, depending on land use) reported increases in land values during the previous 12 months and no one indicated farmland values had declined.

Ninety percent of respondents providing forecasts expect land values to increase in the next 12 months, the highest proportion of respondents forecasting land value increases in the 17 years of survey reports.

Most other respondents expect no change in land values, and only 1% of respondents forecast a decline in land values for next year. The median forecast percentage increase is 8% for pasture/rangeland and 10% for cropland, compared to average (mean) forecasted increases varying from 7.2% for rangeland to 8.3% for cropland.

In summary, respondents to the 2007 survey are optimistic about further increases in farmland values, with very few predicting declines in land prices or cash rental rates. Prospects of continued increases in input expenses, possible increases in long-term interest rates, and growing concerns about future federal farm program legislation are not sufficient to change their optimistic outlook. Major increases in 2006 crop prices and prospects for continued higher crop prices for the next few years are fueling this optimism.

Prospective buyers and investors, enamored with low interest rates and often perceiving higher prospective cash returns from crop/forage production for bioenergy sources, are investing in farmland. In this speculative market situation, it may take considerable increases in general price inflation and interest rates and farm price/production declines to take the “steam” out of continued upward pressures on land values.

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** Reference citations for annual SDSU farm real estate survey reports for 1991 through 2002 are not listed above but can be found in the following reports. The annual reports for 1991 and 1992 were published as SDSU Economic Research Reports 91-3 and 92-1. The annual reports from 1993 to 2002 were published as SDSU AES Circulars 256, 257, 258, 259, 260, 262, 263, 264, 266, 267, and 268. Dr. Janssen and Dr. Pflueger, often in collaboration with an SDSU economics student, were co-authors of each annual report.

*** An electronic version of C 271 for 2006 can be accessed at <http://agbiopubs.sdstate.edu/articles/C271.pdf>

To obtain previous land market circulars change the circular number from C271 to the appropriate number for the desired year (example C270.pdf for the 2005 circular).

Electronic versions of the Extension Extra series on farmland rental arrangements authored by Dr. Burton Pflueger can be accessed at <http://agbiopubs.sdstate.edu/articles/ExEX50xx.pdf> where xx equal the last two digits of the desired publication.

Appendix I: Survey methods and respondent characteristics

The primary purpose of the 2007 South Dakota Farm Real Estate Market Survey was to obtain regional and statewide information on: (1) 2007 per-acre agricultural land values by land use and land productivity, and (2) 2007 cash rental rates by agricultural land use and land productivity. In addition, we obtained respondents' assessment of positive and negative factors influencing their local farm real estate market and motivations for buyer/seller decisions.

Copies of this survey were mailed to potential respondents on February 15 with a follow-up mailing on March 6. Potential respondents were persons employed in one of the following occupations: (1) agricultural lenders (senior agricultural loan officers of commercial banks or Farm Credit Service), (2) loan officer or county directors of the USDA Farm Service Agency (FSA), (3) Cooperative Extension Service agricultural educators and area farm management specialists, and (4) licensed appraisers and assessors. Some appraisers were also realtors or professional farm managers, while some lenders were also appraisers.

Respondents were asked to report land values and cash rental rate information for nonirrigated cropland, hayland, rangeland, improved pasture, and irrigated land in their locality. About one-third of respondents provided information for two or more counties, while two-thirds reported information for one county.

The total response rate was 39% of 624 persons contacted. The usable survey response rate was 34%. The distribution of 214 respondents by location and reported occupation is shown in Appendix Table 1. Two-thirds of Farm Service Agency officials, 49% of licensed appraisers, 39% of Extension educators, 35% of assessors, and 25% of agricultural lenders contacted provided usable responses. Fifty-seven percent of respondents are agricultural lenders or FSA officials.

Fifty percent of the respondents were from the three eastern regions of South Dakota, 33% were from the three regions of central South Dakota, and 17% were from western South Dakota. Most respondents were able to supply land value and cash rental rate information for nonirrigated cropland, hayland, and rangeland in their localities. Less than three-eighths of respondents provided information on irrigated land values and cash rental rates and only 28% reported cash rental rates per AUM on rangeland.

Regional average land values by land use are simple average (mean) values of usable responses. Statewide average land values by land use are weighted by the relative number of acres in each region in the same land use. All-agricultural land values, regional and statewide, are weighted by the proportion of acres in each agricultural land use. Thus, all-agricultural land values in this report are weighted average values by region and land use. This weighted average approach is analogous to the cost (inventory) approach of estimating farmland values in rural land appraisal.

This approach has important implications in the derivation of statewide average land values and regional all-land values. For example, the two western regions of South Dakota with the lowest average land values have nearly 60% of the state's rangeland acres, 39% of all-agricultural land acres, and only 16% of cropland acres. Our approach increases the relative importance of western South Dakota land values in the final computations and results in lower statewide average land values.

The weighting factors used to develop statewide average land values were based on estimates of agricultural land use for privately owned nonirrigated farmland in South Dakota. It excludes agricultural land (mostly rangeland) leased from tribal or federal agencies, which is mostly located in the western and central regions of the state. Irrigated land is also excluded from regional and statewide all-land values. The land use weighting factors were developed from county level data in the

2002 South Dakota Census of Agriculture and other sources.

Regional average rental rates by land use are simple average (mean) values of usable responses. Statewide average cash rental rates for each land use are weighted by: (1) the relative number of acres in each land use, and (2) the proportion of farmland acres leased in each region.

This is the first SDSU report that uses 2002 land use weighting factors for estimating statewide values by land use and regional or statewide land values for

all nonirrigated agricultural land. Previous reports have used data from the 1992 census for land use weighting factors. Updating land use weights from 1992 to 2002 increases all land values by nearly 3%, primarily due to the higher proportion of cropland and hayland reported for eastern and central regions of South Dakota in the 2002 census. Regional average rental rates by land use are simple average (mean) values of usable responses. Statewide average cash rental rates for each land use are weighted by: (1) the relative number of acres in each land use, and (2) the proportion of farmland acres leased in each region.

Appendix Table 1. Selected characteristics of respondents, 2007.

Number of respondents = 214

Respondents:

<i>Reporting location</i>	<i>N</i>	<i>%</i>	<i>Primary Occupation</i>	<i>N</i>	<i>%</i>
Southeast	40	18.7%	Banker/loan officer	84	39.3%
East-Central	37	17.3%	Farm Service Agency	39	18.2%
Northeast	31	14.5%	Assessor	23	10.7%
North-Central	30	14.0%	Appraiser/realtor	43	20.1%
Central	26	12.1%	Extension educators	25	11.7%
South-Central	15	7.0%		214	100.0%
Southwest	14	6.5%			
Northwest	21	9.8%			
	214	100.0%			

Response rates:

<i>Land values</i>	<i>N</i>	<i>%</i>	<i>Cash Rental Rates</i>	<i>N</i>	<i>%</i>
Nonirrigated cropland	202	94.4%	Nonirrigated cropland	200	93.5%
Irrigated cropland	79	36.9%	Irrigated cropland	75	35.1%
Hayland	184	86.0%	Hayland	169	79.0%
Rangeland (native)	189	88.3%	Rangeland (acre)	183	85.5%
Pastureland (tame)	152	71.0%	Rangeland (AUM)	61	28.5%

Appendix II. Historical data on agricultural land values and cash rental rates by land use by region, South Dakota, 1991 – 2007

Appendix Table 2. Average reported value and annual percentage change in value of South Dakota agricultural land by type of land by region, 1991-2007.

Type of Land	South-east	East-Central	North-east	North-Central	Central	South-Central	South-west	North-west	STATE
All Agricultural Land (nonirrigated)									
	<i>dollars per acre</i>								
Average value, 2007	1768	1946	1422	945	899	521	322	285	850
Average value, 2006	1583	1643	1174	849	803	462	286	256	743
Average value, 2005	1372	1427	1029	736	711	414	275	211	650
Average value, 2004	1147	1162	779	629	594	377	223	192	541
Average value, 2003	1017	903	641	549	522	309	200	177	461
Average value, 2002	930	875	560	501	424	313	202	150	421
Average value, 2001	893	785	519	450	373	284	167	143	384
Average value, 2000	794	673	492	404	352	286	167	131	352
Average value, 1999	740	644	452	378	345	273	166	122	331
Average value, 1998	772	610	452	353	346	280	155	117	328
Average value, 1997	665	591	432	323	302	241	139	111	298
Average value, 1996	643	522	414	294	296	217	126	115	280
Average value, 1995	633	473	419	279	264	222	130	103	268
Average value, 1994	567	497	393	293	255	191	112	94	250
Average value, 1993	548	498	399	254	233	199	111	90	241
Average value, 1992	519	474	368	259	223	186	104	89	231
Average value, 1991	526	466	362	227	225	177	97	84	223
Av annual % change 07/91	7.9%	9.3%	8.9%	9.3%	9.0%	7.0%	7.8%	7.9%	8.7%
Annual % change 07/06	11.7%	18.4%	21.1%	11.3%	12.0%	12.8%	12.6%	11.3%	14.4%
Nonirrigated Cropland									
	<i>dollars per acre</i>								
Average value, 2007	1999	2244	1762	1187	1086	702	426	367	1375
Average value, 2006	1817	1914	1448	1088	986	612	387	342	1211
Average Value, 2005	1556	1659	1255	967	871	568	383	316	1064
Average Value, 2004	1315	1346	973	822	705	541	318	294	882
Average value, 2003	1156	1040	793	716	631	443	290	281	743
Average value, 2002	1057	1019	691	665	524	445	311	244	684
Average value, 2001	1023	911	652	592	456	423	245	223	626
Average value, 2000	910	785	620	520	436	417	248	208	567
Average value, 1999	866	756	565	488	435	402	246	202	534
Average value, 1998	903	728	564	452	434	399	241	200	534
Average value, 1997	777	699	535	412	386	348	217	188	486
Average value, 1996	751	613	514	372	371	317	214	191	455
Average value, 1995	732	555	522	353	332	326	237	185	437
Average value, 1994	661	590	488	382	331	289	218	169	426
Average value, 1993	655	595	497	326	305	302	197	163	412
Average value, 1992	616	574	460	342	300	287	196	167	400
Average value, 1991	623	554	450	294	300	272	185	153	384
Av annual % change 07/91	7.6%	9.1%	8.9%	9.1%	8.4%	6.1%	5.4%	5.6%	8.3%
Annual % change 07/06	10.0%	17.2%	21.7%	9.1%	10.1%	14.7%	10.1%	7.3%	13.5%

Source: South Dakota Farm Real Estate Market Surveys, SDSU, 2007 and earlier.
Statewide values by land use are based on 2002 regional land use weights

Appendix Table 2. (continued)

Type of Land	<i>South- east</i>	<i>East- Central</i>	<i>North- east</i>	<i>North- Central</i>	<i>Central</i>	<i>South- Central</i>	<i>South- west</i>	<i>North- west</i>	<i>STATE</i>
Rangeland (native)	<i>dollars per acre</i>								
Average value, 2007	1073	1293	889	634	708	448	295	265	448
Average value, 2006	925	1055	751	548	599	397	255	234	386
Average value, 2005	781	844	667	458	552	346	241	185	332
Average value, 2004	684	764	465	396	456	312	196	167	283
Average value, 2003	609	580	389	345	397	257	176	153	246
Average value, 2002	538	543	353	297	325	260	172	127	221
Average value, 2001	488	478	315	270	284	232	143	124	198
Average value, 2000	456	417	297	253	265	235	143	111	187
Average value, 1999	405	386	276	241	255	220	143	102	177
Average value, 1998	408	346	274	226	256	231	130	98	172
Average value, 1997	364	354	268	204	214	197	116	92	155
Average value, 1996	336	311	250	194	214	177	100	97	147
Average value, 1995	354	303	247	184	197	180	101	83	140
Average value, 1994	319	283	228	184	190	149	85	80	128
Average value, 1993	283	276	232	169	175	157	89	76	125
Average value, 1992	271	267	209	163	159	145	80	74	117
Average value, 1991	268	271	205	147	163	137	74	69	112
Av annual % change 07/91	9.1%	10.3%	9.6%	9.6%	9.6%	7.7%	9.0%	8.8%	9.1%
Annual % change 07/06	16.0%	22.6%	18.4%	15.7%	18.2%	12.8%	15.7%	13.2%	16.1%
Pasture (tame, improved)	<i>dollars per acre</i>								
Average value, 2007	1167	1461	987	698	760	524	303	297	684
Average value, 2006	1085	1166	843	598	711	425	283	282	596
Average Value, 2005	937	1018	730	465	610	397	291	227	519
Average Value, 2004	754	818	517	424	518	337	217	198	420
Average value, 2003	683	710	448	389	493	294	191	163	372
Average value, 2002	639	607	391	327	345	287	193	156	327
Average value, 2001	564	522	342	301	332	258	176	153	297
Average value, 2000	516	481	334	289	303	268	167	144	279
Average value, 1999	453	437	314	266	290	240	161	125	256
Average value, 1998	461	406	297	264	302	272	161	120	254
Average value, 1997	416	373	299	236	265	222	138	114	230
Average value, 1996	379	358	279	231	258	188	127	115	217
Average value, 1995	385	346	262	218	214	214	117	102	206
Average value, 1994	371	335	251	200	224	194	109	93	196
Average value, 1993	326	333	249	194	194	193	104	98	188
Average value, 1992	328	306	257	194	190	176	100	88	182
Average value, 1991	315	325	252	170	199	163	92	94	179
Av annual % change 07/91	8.5%	9.8%	8.9%	9.2%	8.7%	7.6%	7.7%	7.5%	8.7%
Annual % change 07/06	7.6%	25.3%	17.1%	16.7%	6.9%	23.3%	7.1%	5.3%	14.8%

Appendix Table 2. (continued)

Type of Land	<i>South-east</i>	<i>East Central</i>	<i>North-east</i>	<i>North Central</i>	<i>Central</i>	<i>South-Central</i>	<i>South-west</i>	<i>North-west</i>	<i>STATE</i>
<i>dollars per acre</i>									
Hayland									
Average value, 2007	1659	1637	1028	750	815	525	356	327	875
Average value, 2006	1383	1371	831	640	758	499	346	300	758
Average value, 2005	1312	1203	780	515	612	451	324	270	675
Average value, 2004	1008	992	586	432	516	391	265	245	549
Average value, 2003	932	770	488	379	486	310	228	227	474
Average value, 2002	863	770	412	352	375	325	238	204	439
Average value, 2001	844	735	359	332	337	281	201	181	406
Average value, 2000	722	577	330	317	310	293	203	175	365
Average value, 1999	619	562	317	278	293	294	194	163	340
Average value, 1998	668	504	330	265	295	291	178	149	335
Average value, 1997	553	507	316	262	253	258	169	150	307
Average value, 1996	568	451	314	219	273	232	156	146	293
Average value, 1995	562	365	336	213	229	230	164	145	279
Average value, 1994	489	409	279	235	237	204	137	124	263
Average value, 1993	435	398	275	188	205	204	140	121	244
Average value, 1992	416	336	237	179	197	193	135	119	226
Average value, 1991	461	358	252	169	190	197	126	122	233
Av annual % change 07/91	8.3%	10.0%	9.2%	9.8%	9.5%	6.3%	6.7%	6.4%	8.6%
Annual % change 07/06	20.0%	19.4%	23.7%	17.2%	7.5%	5.2%	2.9%	9.0%	15.4%

Type of Land	<i>South-east</i>	<i>East Central</i>	<i>North-east</i>	<i>North Central</i>	<i>Central/S. Central</i>	<i>Western</i>	<i>STATE</i>
<i>dollars per acre</i>							
Irrigated land							
Average value, 2007	2547	2649	2100	1531	1381	1003	1713
Average value, 2006	2354	2305	1610	1329	1240	931	1533
Average value, 2005	1974	2097	1566	1017	1190	968	1397
Average value, 2004	1793	1678	1259	1210	865	782	1191
Average value, 2003	1629	1085	1034	1032	817	630	1018
Average value, 2002	1613	1228	935	690	639	568	936
Average value, 2001	1425	1069	863	687	630	576	871
Average value, 2000	1358	1036	802	619	593	575	834
Average value, 1999	1351	913	672	625	492	443	752
Average value, 1998	1245	950	686	676	549	508	763
Average value, 1997	1217	769	736	600	502	469	722
Average value, 1996	1083	714	662	504	460	453	657
Average value, 1995	1144	740	793	535	475	411	677
Average value, 1994	1043	790	683	568	520	433	662
Average value, 1993	979	765	583	547	506	491	650
Average value, 1992	985	844	641	450	470	451	635
Average value, 1991	942	665	563	433	460	419	592
Av annual % change 07/91	6.4%	9.0%	8.6%	8.2%	7.1%	5.6%	6.9%
Annual % change 07/06	8.2%	14.9%	30.4%	15.2%	11.4%	7.7%	11.7%

Appendix Table 3. Reported cash rental rates of South Dakota agricultural land by type of land by region, 1991-2007.

Type of Land	<i>South- east</i>	<i>East Central</i>	<i>North- east</i>	<i>North- Central</i>	<i>Central</i>	<i>South- Central</i>	<i>South- west</i>	<i>North- west</i>	<i>State</i>
	<i>dollars per acre</i>								
Nonirrigated Cropland									
Average 2007 rate	92.30	91.65	77.85	56.75	48.95	32.70	23.35	21.80	64.80
Average 2006 rate	89.25	82.60	70.50	53.85	46.35	34.00	24.70	21.45	60.95
Average 2005 rate	87.20	82.6	65.70	49.40	45.80	31.50	24.90	22.90	58.90
Average 2004 rate	83.70	78.80	64.50	47.60	43.40	34.10	23.10	21.40	56.80
Average 2003 rate	78.80	74.70	59.50	44.90	40.60	29.20	22.00	21.00	53.25
Average 2002 rate	76.50	69.80	57.50	42.20	35.95	29.40	22.60	20.40	50.65
Average 2001 rate	72.95	64.60	52.20	37.80	35.30	27.20	20.10	17.50	47.00
Average 2000 rate	67.50	56.40	49.30	36.20	31.90	30.00	18.70	18.70	43.70
Average 1999 rate	63.20	56.00	46.20	36.00	33.20	27.00	19.50	16.90	42.30
Average 1998 rate	65.20	55.00	45.30	34.70	30.90	25.90	19.00	17.90	41.75
Average 1997 rate	57.40	49.20	44.70	32.70	29.30	23.60	19.10	19.30	38.70
Average 1996 rate	54.70	45.30	41.50	28.70	26.30	21.60	17.00	16.00	35.50
Average 1995 rate	52.50	42.10	40.40	27.60	25.10	21.00	17.60	15.90	34.05
Average 1994 rate	51.90	45.10	40.30	29.80	25.00	22.10	17.60	14.90	34.85
Average 1993 rate	51.80	47.10	40.30	26.60	24.20	22.80	16.60	14.60	34.40
Average 1992 rate	48.00	45.70	39.70	25.50	22.70	21.40	17.70	15.10	33.00
Average 1991 rate	49.30	43.20	38.50	24.50	23.20	22.20	15.90	13.50	32.40
Hayland									
Average 2007 rate	74.00	67.55	47.40	34.25	31.35	25.70	18.80	18.40	41.60
Average 2006 rate	72.90	60.50	40.20	30.20	34.60	27.30	19.55	18.15	39.80
Average 2005 rate	71.60	56.40	38.70	28.90	29.80	22.20	17.60	18.80	37.20
Average 2004 rate	68.50	53.40	36.80	27.10	28.40	24.80	18.50	17.70	36.05
Average 2003 rate	67.20	49.40	34.60	26.20	27.50	19.80	17.80	19.80	34.15
Average 2002 rate	63.70	49.20	31.00	23.40	21.10	20.40	15.50	17.50	31.70
Average 2001 rate	61.20	47.60	28.90	21.00	23.30	18.10	15.90	14.70	30.20
Average 2000 rate	57.80	40.10	28.80	20.30	21.10	19.40	15.10	14.30	28.45
Average 1999 rate	48.50	40.10	22.80	20.40	20.60	19.60	14.80	15.40	26.40
Average 1998 rate	51.40	40.50	24.60	19.40	20.90	18.90	14.20	13.60	27.10
Average 1997 rate	46.10	36.80	28.20	18.70	19.90	16.70	14.90	14.60	25.40
Average 1996 rate	41.50	32.30	26.00	17.00	18.60	15.20	12.60	11.20	22.70
Average 1995 rate	43.80	28.20	25.30	16.70	16.10	14.90	11.10	11.10	21.90
Average 1994 rate	39.50	31.40	23.60	17.00	17.80	15.50	11.90	11.30	21.90
Average 1993 rate	35.60	32.10	22.00	14.70	16.40	16.00	11.30	9.50	20.60
Average 1992 rate	33.30	25.90	20.00	14.20	15.60	15.60	11.40	12.10	19.20
Average 1991 rate	38.50	30.90	22.30	14.20	15.70	14.80	12.10	10.40	20.70

Source: South Dakota Farm Real Estate Market Surveys, SDSU, 2007 and earlier year reports.

Statewide rental rates based on 2002 land use weights.

Table 3. (continued)

Type of Land	<i>South-east</i>	<i>East Central</i>	<i>North-east</i>	<i>North-Central</i>	<i>Central</i>	<i>South-Central</i>	<i>South-west</i>	<i>North-west</i>	<i>State</i>
	<i>dollars per acre</i>								
Pasture/Rangeland									
Average 2007 rate	44.00	42.80	34.95	28.50	26.85	16.90	11.60	9.95	17.10
Average 2006 rate	42.10	40.00	31.35	25.90	26.30	19.60	10.70	9.25	16.50
Average 2005 rate	40.55	36.05	29.80	24.60	24.95	14.85	10.70	9.75	15.60
Average 2004 rate	37.40	35.90	27.20	22.20	23.90	17.30	10.00	7.90	14.60
Average 2003 rate	35.20	32.40	25.30	20.30	23.00	16.40	8.60	7.70	13.65
Average 2002 rate	33.70	32.00	23.70	18.70	19.70	15.60	8.90	7.20	12.90
Average 2001 rate	30.90	30.40	21.00	17.50	20.80	12.90	8.60	6.60	11.95
Average 2000 rate	31.00	26.80	20.60	17.40	18.50	15.40	8.00	6.80	11.95
Average 1999 rate	26.80	24.80	19.70	16.60	17.80	14.70	7.70	6.20	11.20
Average 1998 rate	28.10	24.40	19.40	16.40	17.50	14.90	7.30	6.70	11.30
Average 1997 rate	25.70	23.60	19.50	15.20	16.80	13.00	6.60	6.80	10.70
Average 1996 rate	21.20	22.10	18.80	14.70	16.30	12.00	5.60	6.10	9.80
Average 1995 rate	21.90	21.60	18.60	14.90	14.80	11.20	6.10	6.30	9.75
Average 1994 rate	20.30	20.90	18.60	13.40	16.30	11.20	5.40	5.60	9.25
Average 1993 rate	20.30	20.10	17.00	12.70	15.20	10.10	5.60	5.10	8.70
Average 1992 rate	18.00	19.60	16.50	12.00	13.50	9.50	5.30	4.90	8.20
Average 1991 rate	19.20	18.60	16.30	12.50	13.80	9.90	5.30	4.40	8.10
	<i>dollars per Animal Unit Month</i>								
Average 2007 rate	22.70	***	26.50	27.00	25.40	23.80	24.30	21.90	
Average 2006 rate	25.15	26.00	25.25	23.10	24.45	24.45	24.15	20.85	
Average 2005 rate	21.45	21.10	23.75	22.40	20.60	23.20	22.30	19.45	
Average 2004 rate	21.30	***	***	21.10	24.00	23.60	21.90	19.80	
Average 2003 rate	20.30	***	***	20.40	20.40	21.50	19.90	19.30	
Average 2002 rate	20.70	18.00	17.70	16.30	16.30	21.20	19.10	17.60	
Average 2001 rate	20.00	21.00	18.60	16.80	17.40	19.80	17.80	15.75	
Average 2000 rate	18.70	17.90	19.80	15.50	17.40	19.20	16.20	16.70	
Average 1999 rate	18.50	15.80	18.80	15.40	16.30	18.50	16.50	16.40	
Average 1998 rate	16.00	19.00	17.70	15.00	19.80	19.10	16.10	16.30	
Average 1997 rate	17.60	18.00	16.20	13.40	17.00	17.30	15.90	16.10	
Average 1996 rate	17.50	16.70	15.60	14.70	16.30	16.60	16.40	16.20	
Average 1995 rate	17.30	16.70	13.60	15.00	16.10	16.80	16.40	15.50	
Average 1994 rate	15.40	15.00	15.60	14.80	16.50	17.00	15.60	16.50	
Average 1993 rate	15.60	13.90	14.25	13.25	14.90	16.40	15.40	14.50	
Average 1992 rate	15.40	14.50	12.50	13.10	15.50	15.90	14.00	15.00	
Average 1991 rate	13.70	15.90	15.50	12.80	14.80	15.20	14.30	13.00	

Table 3. (continued)

Type of Land	<i>South- east</i>	<i>East- Central</i>	<i>North- east</i>	<i>North- Central</i>	<i>Central/ S.Central</i>	<i>Western</i>	<i>State</i>
	<i>dollars per acre</i>						
Irrigated land							
Average 2007 rate	131.65	113.80	98.70	89.65	86.20	67.00	94.70
Average 2006 rate	121.20	109.50	96.25	84.75	81.25	62.85	88.90
Average 2005 rate	118.30	109.30	84.45	80.95	73.10	60.50	84.50
Average 2004 rate	118.80	103.80	97.50	75.00	73.20	56.90	83.85
Average 2003 rate	119.20	98.00	72.60	75.50	***	58.20	80.00
Average 2002 rate	124.00	98.60	77.40	71.40	52.50	50.20	76.90
Average 2001 rate	106.00	84.40	77.00	65.00	67.10	48.00	72.65
Average 2000 rate	104.80	84.00	75.00	61.80	55.60	46.60	69.40
Average 1999 rate	100.00	63.80	69.50	63.80	45.20	40.00	62.45
Average 1998 rate	99.30	76.10	63.80	70.00	44.30	39.00	62.50
Average 1997 rate	100.20	72.20	63.00	59.30	46.40	42.00	63.00
Average 1996 rate	85.40	61.90	68.70	46.40	43.90	33.80	54.85
Average 1995 rate	89.50	68.00	76.70	65.40	45.80	44.00	61.60
Average 1994 rate	91.90	71.70	66.00	53.80	48.50	***	61.30
Average 1993 rate	87.20	68.60	60.00	57.80	53.40	44.00	60.90
Average 1992 rate	65.20	70.00	69.20	58.50	49.80	47.50	56.70
Average 1991 rate	82.70	69.00	59.00	***	***	37.50	***

*** Insufficient number of reports

Source: South Dakota Farm Real Estate Market Surveys, SDSU, 2007 and earlier year reports.

