



2012 Kansas County-Level Land Values and Cash Rents for Non-Irrigated Cropland and Pasture

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The value of Kansas cropland and pasture land has been changing rapidly over the past few years. As a result, many people are interested in current estimates of the value of an average parcel of ground for their individual locations. Currently, the Kansas Agricultural Statistics Service (KAS) reports only state average values for irrigated, non-irrigated, and pasture land. These values are based upon an annual survey of agricultural producers and landowners asking for their estimate of the value of cropland and pasture land they own or operate. Historically, the survey was conducted such that values could be reported at the crop reporting district (CRD) level, of which there are nine in the state. While many people want values at a more disaggregated level than the CRD (e.g., county-level), this historical information did allow regional values and trends to be identified. Unfortunately, the CRD-level estimates reported by KAS were discontinued in 2009 and thus, no official government reported data exist of regional values.

In an effort to maintain information at the CRD-level, Dhuyvetter and Taylor have used historical relationships between the CRD and state averages to generate an estimate of CRD values from the currently reported KAS state-level estimate (see MF-1100 available at: <http://www.agmanager.info/farmmgt/fmg/land>). There are several potential problems with this method (referred to as KAS/KSU) of estimating land values. First, if the price relationship between CRD's has changed in recent years, relative to the past, the estimates will no longer accurately reflect current market conditions. Second, the source data for these estimates is a survey of people's opinions, which may not be highly attuned to the current land market. For example, the KAS data have typically lagged behind estimates based on market data, suggesting that changes in land values are moving faster than people not actively engaged in the land markets realize.

The current growth in land values and the many business and personal decisions affected by these values warrants more extensive analysis to obtain estimates that are less aggregated than either the state or CRD-level values available. To this end, sales transaction data were obtained

from the Kansas Property Valuation Department (PVD).¹ These data reflect agricultural land sales in Kansas from 2010 through 2012. To obtain estimates that reflect land sold for agricultural purposes in an “arm’s length” transaction, some observations were removed from the original dataset.² The sales data used in the analysis were limited to bare land (undeveloped) parcels of at least 40 acres in size. These filtered data were used in a regression analysis, referred to as PVD/KSU, to estimate county-specific values for non-irrigated cropland and pasture. The land value model used characteristics of the parcels sold to determine impacts on price. Characteristics such as parcel size, soil quality rating, percent of pasture and cropland within a parcel, and when a parcel was sold were all used to estimate county-level land values.

The county-level estimates and the average for each of the CRD’s are shown in table 1, where the CRD average is a simple average of the counties that fall within the region. Table 2 provides a comparison between the CRD values using the KAS/KSU data and the estimates using PVD transactions data (PVD/KSU). In all but one case (East Central region), the survey-based estimates are lower than the market-based estimates. For non-irrigated cropland, the analysis using PVD transactions data estimates a state-level average value of \$2,312/acre, 36.0% higher than the 2012 KAS reported value of \$1,700/acre. Across the nine CRD regions, the differences range from a 0.3% decrease from the KAS values in the East Central CRD to a 63.2% increase in the Northwest CRD. Pasture values are similarly understated by the survey method, with the transactions data estimate of \$1,497/acre for the state average. This estimate is 57.9% higher than the KAS reported value for pasture in 2012. Regional differences range from an increase of 20.2% in the Southeast to an increase of 133.3% over the KAS pasture value estimate for the Northwest CRD.

¹ The authors would like to thank Leah Tsoodle and Mike Dahlman for their assistance with data collection.

² “Arm’s length” refers to land sold through typical market channels and does not include intra-family transactions, court-ordered sales, or other transactions that may keep the sale from being considered a market-based transaction.

Table 1. Estimated Agricultural Land Values for 2012 using PVD Transactions Data

| CRD | County | Non-Irrigated, \$/ac | Pasture, \$/ac | CRD | County | Non-Irrigated, \$/ac | Pasture, \$/ac | CRD | County | Non-Irrigated, \$/ac | Pasture, \$/ac |
|--------------|-----------------|-------------------------|-------------------|---------------|-----------------|-------------------------|-------------------|--------------|-----------------|-------------------------|-------------------|
| Northwest | Cheyenne | 1,517 | 985 | North Central | Clay | 3,578 | 2,322 | Northeast | Atchison | 4,427 | 2,871 |
| | Decatur | 1,803 | 1,171 | | Cloud | 3,248 | 2,111 | | Brown | 5,546 | 3,601 |
| | Graham | 1,158 | 752 | | Jewell | 2,558 | 1,663 | | Doniphan | 4,929 | 3,198 |
| | Norton | 1,874 | 1,217 | | Mitchell | 2,231 | 1,448 | | Jackson | 3,089 | 2,005 |
| | Rawlins | 1,811 | 1,175 | | Osborne | 1,892 | 1,228 | | Jefferson | 3,567 | 2,312 |
| | Sheridan | 2,167 | 1,409 | | Ottawa | 2,414 | 1,567 | | Leavenworth | 4,512 | 2,923 |
| | Sherman | 1,484 | 964 | | Phillips | 1,296 | 841 | | Marshall | 3,956 | 2,571 |
| | Thomas | 2,284 | 1,484 | | Republic | 3,683 | 2,392 | | Nemaha | 3,994 | 2,595 |
| | | | | Rooks | 1,382 | 895 | Pottawatomie | 2,909 | 1,889 | | |
| | | | | Smith | 1,937 | 1,256 | Riley | 4,432 | 2,879 | | |
| | | | | Washington | 3,193 | 2,074 | Wyandotte* | -- | -- | | |
| | Average: | 1,762 | 1,145 | | Average: | 2,492 | 1,618 | | Average: | 4,136 | 2,684 |
| West Central | Gove | 1,534 | 997 | Central | Barton | 2,084 | 1,353 | East Central | Anderson | 2,417 | 1,566 |
| | Greeley | 1,530 | 992 | | Dickinson | 2,813 | 1,828 | | Chase | 1,695 | 1,100 |
| | Lane | 1,534 | 996 | | Ellis | 2,204 | 1,432 | | Coffey | 2,438 | 1,581 |
| | Logan | 1,462 | 950 | | Ellsworth | 1,194 | 775 | | Douglas | 5,284 | 3,430 |
| | Ness | 1,374 | 891 | | Lincoln | 1,763 | 1,144 | | Franklin | 3,385 | 2,196 |
| | Scott | 2,247 | 1,458 | | Marian | 2,528 | 1,642 | | Geary | 1,951 | 1,265 |
| | Trego | 1,308 | 849 | | McPherson | 2,617 | 1,697 | | Johnson* | -- | -- |
| | Wallace | 1,230 | 799 | | Rice | 2,198 | 1,428 | | Linn | 2,658 | 1,725 |
| Wichita | 1,851 | 1,201 | Rush | 1,220 | 791 | Lyon | 2,327 | 1,511 | | | |
| | | | | Russell | 1,828 | 1,186 | Miami | 6,298 | 4,089 | | |
| | | | | Saline | 3,379 | 2,193 | Morris | 2,335 | 1,514 | | |
| | Average: | 1,563 | 1,015 | | Average: | 2,166 | 1,406 | | Average: | 3,075 | 1,995 |
| Southwest | Clark | 1,751 | 1,134 | South Central | Barber | 2,626 | 1,707 | Southeast | Allen | 2,158 | 1,398 |
| | Finney | 1,257 | 816 | | Comanche | 1,897 | 1,230 | | Bourbon | 2,569 | 1,667 |
| | Ford | 1,707 | 1,108 | | Edwards | 1,884 | 1,223 | | Butler | 3,140 | 2,039 |
| | Grant | 1,057 | 687 | | Harper | 2,282 | 1,483 | | Chautauqua | 2,252 | 1,462 |
| | Gray | 1,371 | 890 | | Harvey | 2,826 | 1,836 | | Cherokee | 2,383 | 1,548 |
| | Hamilton | 927 | 602 | | Kingman | 2,122 | 1,378 | | Cowley | 2,068 | 1,343 |
| | Haskell | 1,175 | 763 | | Kiowa | 1,806 | 1,172 | | Crawford | 1,896 | 1,231 |
| | Hodgeman | 1,013 | 657 | | Pawnee | 1,816 | 1,180 | | Elk | 2,140 | 1,388 |
| | Kearny | 911 | 591 | | Pratt | 1,600 | 1,038 | | Greenwood | 2,434 | 1,581 |
| | Meade | 1,212 | 787 | | Reno | 2,131 | 1,385 | | Labette | 2,444 | 1,589 |
| | Morton | 895 | 581 | | Sedgwick | 3,688 | 2,390 | | Montgomery | 2,174 | 1,412 |
| | Seward | 1,519 | 985 | | Stafford | 1,747 | 1,136 | | Neosho | 2,333 | 1,514 |
| | Stanton | 754 | 489 | | Sumner | 1,883 | 1,221 | | Wilson | 2,090 | 1,356 |
| Stevens | 895 | 579 | | | | Woodson | 2,512 | 1,631 | | | |
| | Average: | 1,175 | 762 | | Average: | 2,178 | 1,414 | | Average: | 2,328 | 1,511 |

* Land value for these counties were not estimated due to insufficient data available meeting the selection criteria of parcel sizes above 40 acres and bare ground.

Table 2. Comparison of CRD Average KAS/K-State Land Values and PVD Transactions Data Estimates for 2012

| | Northwest | West Central | Southwest | North Central | Central | South Central | Northeast | East Central | Southeast | State |
|----------------------------|-----------|--------------|-----------|------------------|---------|------------------|-----------|--------------|-----------|-------|
| Non-Irrigated Value | | | | | | | | | | |
| KAS/KSU | 1,080 | 1,054 | 1,031 | 1,666 | 1,821 | 1,747 | 2,848 | 3,085 | 2,028 | 1,700 |
| PVD/KSU | 1,762 | 1,563 | 1,175 | 2,492 | 2,166 | 2,178 | 4,136 | 3,075 | 2,328 | 2,312 |
| Difference, \$/ac | 682 | 509 | 144 | 826 | 345 | 431 | 1,288 | -10 | 300 | 612 |
| Difference, % | 63.2 | 48.3 | 13.9 | 49.6 | 19.0 | 24.6 | 45.2 | -0.3 | 14.8 | 36.0 |
| Pasture Value | | | | | | | | | | |
| KAS/KSU | 491 | 531 | 432 | 788 | 907 | 876 | 1,434 | 1,580 | 1,257 | 950 |
| PVD/KSU | 1,145 | 1,015 | 762 | 1,618 | 1,406 | 1,414 | 2,684 | 1,995 | 1,511 | 1,500 |
| Difference, \$/ac | 654 | 484 | 330 | 830 | 499 | 538 | 1,250 | 415 | 254 | 550 |
| Difference, % | 133.1 | 91.1 | 76.4 | 105.3 | 55.0 | 61.4 | 87.2 | 26.3 | 20.2 | 57.9 |

Note: Source of KAS/KSU CRD-level values is MF-1100 available at: <http://www.agmanager.info/farmmgmt/fig/land>

2012 Kansas County-Level Cash Rental Rates for Non-Irrigated Cropland

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In the wake of rapid changes in Kansas agricultural land values, many people are also wondering how rental rates for cropland have been affected. Historically, the ratio of cash rent to land value (i.e., rent-to-value ratio) has been in the range of 5 to 6 percent. This ratio indicates the annual return (before real estate taxes) that landowners can expect on their capital investment from renting the land out excluding capital gains. If that relationship still holds, then a state-level estimate for non-irrigated cropland of \$2,516/acre would imply cash rental rates ranging from approximately \$126 to \$151/acre. This range leaves a large amount of negotiating room for landowners and tenants, which prompts us to apply another method of estimating rental rates. Furthermore, if part of the land value increase in recent years has been due to “non-ag” reasons, then the historical rent-to-value ratio may not be appropriate to use in the current environment.

Rather than targeting a particular rate of return on non-irrigated cropland, which may or may not reflect the productivity of the land or current crop prices, cash rents were estimated employing a method of calculating revenue from a crop share arrangement. The decision aid used to guide these calculations is the *KSU-Lease.xls* Excel spreadsheet available at the AgManager.info website (<http://www.agmanager.info/farmmgmt/land/lease>). The basic premise of the approach in *KSU-Lease* is that a lease is considered to be equitable if the income from the lease is split proportionally to how the inputs (costs) are contributed.³

This spreadsheet requires input of production cost data for a given crop mix and expected commodity prices. The crop enterprise mix for each county was determined using planted acreage estimates for each county from the 2002 and 2007 USDA Census of Agriculture⁴. The crop mix was limited to wheat, corn, soybeans, and grain sorghum, where wheat was either summer-fallow or continuous. Yields for these crops were calculated using an 8-year historic average for each county. Information on costs of production and long-run commodity prices were taken from the 2012 updates of the Farm Management guides

³ For a further discussion of principles behind how leases are determined see publications NCFMEC-01 and NCFMEC-02 also available at AgManager.info

⁴ 2012 Census data is not yet available at time of publication.

(<http://www.agmanager.info/farmmgmt/fmg/nonirrigated>). The expected commodity prices, crop acreage mix, historic yields, and landowner's crop share percentage averaged to the regional level are presented in table 3. From the *KSU-Lease* spreadsheet, an estimate of the expected revenue to the landowner from an equitable crop share arrangement was obtained. The estimated crop share percentages used in the analysis range from 28.9% in the South Central region of the state to 41.9% in the Northeast region. The difference in crop share splits across the regions reflects the relative productivity, costs, and revenue potential of the farmland.

The estimated crop share split was applied to historical county-level yields as reported by KAS and the long-run commodity price forecasts shown in table 3 to determine an estimate of crop share revenue at the county level. Finally, the crop share revenue was discounted by a 20 percent risk premium to arrive at a cash rent estimate. The 20 percent discount reflects the lower risk faced by a landowner when they enter into a cash rent contract. Crop share revenues, while higher, are also more variable or risky than fixed cash rents. This is especially true in recent years with large fluctuations in commodity prices. In more stable years, the risk percentage may be lower. It should be noted that risk premiums were routinely close to zero, and negative in some cases, in the early in the late 1990's and early 2000's and thus this 20 percent risk premium is quite high by historical standards.

The county-level estimates of non-irrigated cropland cash rental rates are given in table 4. The first column of rental rates contains the survey-based values reported by USDA-KAS for 2012 (KAS). They are obtained in a similar fashion to the land values, via survey. A comparison of the rental rates from USDA-KAS and those estimated using the *KSU-Lease.xls* crop share approach adjusted for risk (KSU) reveals the USDA-KAS estimates are significantly lower, as was the case with the land value data.

Why would rental rates collected via survey be so much lower than risk-adjusted crop share estimates? The cost of production and commodity price information used in the KSU crop share lease method reflect the most current information available about what returns to non-irrigated farming would be under prices projected for the next 3-5 years (values would be even higher if they were based on expected prices for 2013). Therefore, if a contract between a landowner and

Table 3. Prices and Acreages Used to Estimate Cash Rental Rates

| Region | Price, \$/bu | Crop Enterprise Mix, % of acres | 8-Year Historic Average Yields* | Landowner's Crop Share |
|----------------------|--------------|------------------------------------|------------------------------------|---------------------------|
| West | | | | 37.3% |
| Wheat | 6.36 | 65.4 | 31.0 | |
| Corn | 5.17 | 9.4 | 55.2 | |
| Soybeans | n/a | 0.0 | n/a | |
| Grain Sorghum | 4.62 | 24.7 | 53.6 | |
| North Central | | | | 34.6% |
| Wheat | 6.05 | 63.2 | 36.7 | |
| Corn | 4.86 | 3.5 | 84.1 | |
| Soybeans | 10.48 | 10.7 | 29.6 | |
| Grain Sorghum | 4.68 | 22.6 | 80.2 | |
| South Central | | | | 28.9% |
| Wheat | 6.64 | 74.5 | 33.8 | |
| Corn | 5.00 | 2.9 | 71.2 | |
| Soybeans | 10.69 | 4.6 | 24.9 | |
| Grain Sorghum | 4.89 | 18.0 | 63.0 | |
| Northeast | | | | 41.9% |
| Wheat | 6.35 | 17.0 | 34.5 | |
| Corn | 5.03 | 29.3 | 106.1 | |
| Soybeans | 10.83 | 46.5 | 34.2 | |
| Grain Sorghum | 4.82 | 7.2 | 69.9 | |
| Southeast | | | | 29.7% |
| Wheat | 6.42 | 33.4 | 31.7 | |
| Corn | 4.94 | 17.4 | 97.8 | |
| Soybeans | 10.55 | 40.8 | 30.2 | |
| Grain Sorghum | 4.54 | 8.4 | 68.3 | |

* The yields and crop enterprise mix values presented here are averaged across the region. However, county-level values for both of these variables were used to calculate the county-level rental rates.

tenant were being negotiated today for the next 3-5 years, these rates should be very close to negotiated rates. If the lease was being negotiated for the 2013 season only, the rates likely would be higher yet. A potential problem with the USDA-KAS survey values is that they do not reveal the year in which the rental rate being reported was negotiated. If a contract has been in place for several years, with no change in the rental rate, then it is likely to be lower than a current contract reflecting higher crop prices. Another possible explanation for lower rental rates being reported on surveys is that not all contracts are negotiated solely based on returns to farming. If there are other aspects to the contract that provide value to the landowner, then perhaps the rental rate is reduced to reflect that non-pecuniary value. Finally, it is possible that the rates are simply being understated due to bias in the survey respondents.

The final piece of information that can be obtained from a comparison of non-irrigated rental rate estimates is a check of the consistency of historical rent-to-value rates across different information sources. Calculation of the rent-to-value ratio using the risk-adjusted crop share based rental rates (KSU) and the PVD/KSU land values for non-irrigated land result in a state-level estimate of 3.6%. The ratio suggests that even though land values have been increasing rapidly, returns to farming are expected to support returns of 3.6% over the next few years. The ratio is lower than the historic range of 5 to 6 percent, based on KAS data over the past 10 years. However, as compared to the historically low interest rates we are currently experiencing, a 3.6% rate of return is appealing and suggests that land markets could continue to be strong in the near future.

Table 5 reports the KAS survey values for pasture rental rates at the county level. There is not a comparable approach, as was done for non-irrigated crop rental rates (i.e., the risk-adjusted crop share approach), to estimate a “KSU” pasture rental rate. This is because stocking rate data, the parallel to crop yields, is not available at the county level. However, producers and landowners wanting another estimate of pasture rental rates for their unique situation can do so with the *KSU-Graze.xls* Excel spreadsheet or web dashboard available at the AgManager.info website (<http://www.agmanager.info/farmmgmt/land/lease>).

Table 4. Estimated Cash Rental Rates for Non-Irrigated Cropland in 2012

| CRD | County | KAS Rental | KSU Rental | Difference, | CRD | County | KAS Rental | KSU Rental | Difference, | CRD | County | KAS Rental | KSU Rental | Difference, |
|--------------|-----------------|--------------|---------------|-------------|---------------|-----------------|--------------|---------------|-------------|--------------|-----------------|--------------|---------------|-------------|
| | | Rate, \$/ac* | Rate, \$/ac** | % | | | Rate, \$/ac* | Rate, \$/ac** | % | | | Rate, \$/ac* | Rate, \$/ac** | % |
| Northwest | Cheyenne | 47.50 | 66.00 | 38.9 | North Central | Clay | 67.00 | 94.60 | 41.2 | Northeast | Atchison | 98.50 | 172.50 | 75.1 |
| | Decatur | 49.00 | 88.20 | 80.0 | | Cloud | 60.00 | 89.20 | 48.7 | | Brown | 160.00 | 202.90 | 26.8 |
| | Graham | 38.50 | 71.60 | 86.0 | | Jewell | 56.50 | 92.40 | 63.5 | | Doniphan | 143.00 | 229.60 | 60.6 |
| | Norton | 40.50 | 81.50 | 101.2 | | Mitchell | 58.50 | 87.30 | 49.2 | | Jackson | 59.50 | 150.20 | 152.4 |
| | Rawlins | 51.00 | 73.40 | 43.9 | | Osborne | 50.50 | 76.90 | 52.3 | | Jefferson | 51.00 | 161.80 | 217.3 |
| | Sheridan | 47.50 | 78.70 | 65.7 | | Ottawa | 59.50 | 74.70 | 25.5 | | Leavenworth | 61.50 | 149.20 | 142.6 |
| | Sherman | 41.00 | 64.80 | 58.0 | | Phillips | 44.00 | 77.70 | 76.6 | | Marshall | 87.00 | 143.20 | 64.6 |
| | Thomas | 52.50 | 70.00 | 33.3 | | Republic | 73.50 | 95.50 | 29.9 | | Nemaha | 119.00 | 164.00 | 37.8 |
| | Average: | 45.94 | 74.28 | 61.7 | | Average: | 58.09 | 85.87 | 47.8 | | Average: | 90.90 | 164.66 | 81.1 |
| West Central | Gove | 40.50 | 75.20 | 85.7 | Central | Barton | 40.00 | 60.40 | 51.0 | East Central | Anderson | 63.00 | 72.90 | 15.7 |
| | Greeley | 42.50 | 59.80 | 40.7 | | Dickinson | 49.00 | 79.70 | 62.7 | | Chase | 54.00 | 70.80 | 31.1 |
| | Lane | 35.00 | 60.60 | 73.1 | | Ellis | 39.50 | 63.70 | 61.3 | | Coffey | 57.50 | 71.30 | 24.0 |
| | Logan | 39.50 | 70.90 | 79.5 | | Ellsworth | 39.50 | 70.80 | 79.2 | | Douglas | 61.00 | 138.10 | 126.4 |
| | Ness | 27.00 | 63.50 | 135.2 | | Lincoln | 49.50 | 75.60 | 52.7 | | Franklin | 55.00 | 114.90 | 108.9 |
| | Scott | 54.50 | 79.80 | 46.4 | | Marian | 44.50 | 64.10 | 44.0 | | Geary | 50.50 | 117.90 | 133.5 |
| | Trego | 34.00 | 65.30 | 92.1 | | McPherson | 54.50 | 67.80 | 24.4 | | Johnson | 70.00 | 123.20 | 76.0 |
| | Wallace | 42.50 | 64.20 | 51.1 | | Rice | 57.50 | 69.50 | 20.9 | | Linn | 50.50 | 69.10 | 36.8 |
| Wichita | 41.50 | 74.50 | 79.5 | Rush | 34.00 | 58.70 | 72.6 | Lyon | 59.50 | 70.20 | 18.0 | | | |
| | Average: | 39.67 | 68.20 | 71.9 | | Average: | 46.05 | 68.51 | 48.8 | | Average: | 58.07 | 103.34 | 78.0 |
| Southwest | Clark | 30.50 | 54.10 | 77.4 | South Central | Barber | 43.00 | 44.50 | 3.5 | Southeast | Allen | 43.50 | 64.70 | 48.7 |
| | Finney | 30.50 | 70.50 | 131.1 | | Comanche | 32.00 | 39.90 | 24.7 | | Bourbon | 47.50 | 64.80 | 36.4 |
| | Ford | 32.00 | 72.20 | 125.6 | | Edwards | 45.00 | 53.00 | 17.8 | | Butler | 42.00 | 70.30 | 67.4 |
| | Grant | 30.50 | 48.60 | 59.3 | | Harper | 38.00 | 42.40 | 11.6 | | Chautauqua | 35.50 | 51.20 | 44.2 |
| | Gray | 39.50 | 73.00 | 84.8 | | Harvey | 54.50 | 66.90 | 22.8 | | Cherokee | 58.50 | 69.20 | 18.3 |
| | Hamilton | 30.50 | 51.70 | 69.5 | | Kingman | 44.50 | 45.90 | 3.1 | | Cowley | 35.50 | 55.40 | 56.1 |
| | Haskell | 30.50 | 57.00 | 86.9 | | Kiowa | 32.00 | 52.00 | 62.5 | | Crawford | 59.00 | 71.50 | 21.2 |
| | Hodgeman | 32.00 | 65.00 | 103.1 | | Pawnee | 43.50 | 61.80 | 42.1 | | Elk | 41.00 | 63.60 | 55.1 |
| | Kearny | 30.50 | 61.60 | 102.0 | | Pratt | 32.00 | 55.20 | 72.5 | | Greenwood | 47.50 | 72.70 | 53.1 |
| | Meade | 33.00 | 56.60 | 71.5 | | Reno | 51.00 | 56.40 | 10.6 | | Labette | 47.50 | 59.00 | 24.2 |
| | Morton | 26.00 | 46.90 | 80.4 | | Sedgwick | 52.00 | 56.00 | 7.7 | | Mongtomery | 54.50 | 61.20 | 12.3 |
| | Seward | 30.50 | 56.50 | 85.2 | | Stafford | 45.50 | 56.50 | 24.2 | | Neosho | 39.50 | 60.10 | 52.2 |
| | Stanton | 35.00 | 59.30 | 69.4 | | Sumner | 44.50 | 50.70 | 13.9 | | Wilson | 55.50 | 64.30 | 15.9 |
| Stevens | 27.50 | 53.50 | 94.5 | | | | | Woodson | 46.50 | 65.40 | 40.6 | | | |
| | Average: | 31.32 | 59.04 | 88.5 | | Average: | 42.88 | 52.40 | 22.2 | | Average: | 46.68 | 63.81 | 36.7 |

* KAS rental rates available at http://www.nass.usda.gov/Statistics_by_State/Kansas/index.asp

** KSU Rental Rate is based on using *KSU-Lease* and a risk-adjusted equitable crop share approach. *KSU-Lease.xls* is available at <http://www.agmanager.info/farmmg/land/lease/default.asp>

Table 5. Pasture Rental Rates Reported by Kansas Agricultural Statistics Service (KAS)

| KAS Rental Rate, | | | KAS Rental Rate, | | | KAS Rental Rate, | | |
|---------------------|-----------------|--------------|----------------------|-----------------|--------------|---------------------|-----------------|--------------|
| CRD | County | \$/ac* | CRD | County | \$/ac* | CRD | County | \$/ac* |
| Northwest | Cheyenne | 11.50 | North Central | Clay | 19.00 | Northeast | Atchison | 22.00 |
| | Decatur | 12.00 | | Cloud | 24.00 | | Brown | 26.50 |
| | Graham | 14.50 | | Jewell | 21.50 | | Doniphan | 38.50 |
| | Norton | 14.50 | | Mitchell | 23.50 | | Jackson | 23.50 |
| | Rawlins | 11.50 | | Osborne | 16.50 | | Jefferson | 23.50 |
| | Sheridan | 13.50 | | Ottawa | 21.50 | | Leavenworth | 21.00 |
| | Sherman | 10.00 | | Phillips | 17.00 | | Marshall | 26.50 |
| | Thomas | 14.00 | | Republic | 19.00 | | Nemaha | 29.00 |
| | | | | Rooks | 14.50 | | Pottawatomie | 18.00 |
| | | | | Smith | 19.00 | | Riley | 17.50 |
| | | | Washington | 21.50 | Wyandotte | 26.50 | | |
| | Average: | 12.69 | | Average: | 19.73 | | Average: | 24.60 |
| West Central | Gove | 12.00 | Central | Barton | 14.00 | East Central | Anderson | 22.50 |
| | Greeley | 10.50 | | Dickinson | 19.00 | | Chase | 21.50 |
| | Lane | 12.00 | | Ellis | 16.00 | | Coffey | 20.00 |
| | Logan | 10.50 | | Ellsworth | 16.00 | | Douglas | 25.00 |
| | Ness | 12.50 | | Lincoln | 17.00 | | Franklin | 21.00 |
| | Scott | 12.50 | | Marian | 18.50 | | Geary | 19.00 |
| | Trego | 12.50 | | McPherson | 19.50 | | Johnson | 23.00 |
| | Wallace | 9.20 | | Rice | 15.50 | | Linn | 23.00 |
| Wichita | 11.00 | Rush | | 13.00 | Lyon | | 23.00 | |
| | | | | Russell | 12.00 | | Miami | 19.00 |
| | | | | Saline | 19.50 | | Morris | 24.00 |
| | | | | | Osage | 20.00 | | |
| | | | | | Shawnee | 17.50 | | |
| | | | | | Wabaunsee | 20.00 | | |
| | Average: | 11.41 | | Average: | 16.36 | | Average: | 21.32 |
| Southwest | Clark | 9.20 | South Central | Barber | 10.50 | Southeast | Allen | 18.50 |
| | Finney | 8.90 | | Comanche | 10.50 | | Bourbon | 21.50 |
| | Ford | 12.00 | | Edwards | 15.50 | | Butler | 21.00 |
| | Grant | 8.90 | | Harper | 14.50 | | Chautauqua | 12.00 |
| | Gray | 12.50 | | Harvey | 11.50 | | Cherokee | 24.00 |
| | Hamilton | 7.60 | | Kingman | 16.00 | | Cowley | 15.00 |
| | Haskell | 8.90 | | Kiowa | 11.50 | | Crawford | 24.50 |
| | Hodgeman | 12.00 | | Pawnee | 14.50 | | Elk | 16.50 |
| | Kearny | 8.00 | | Pratt | 11.50 | | Greenwood | 19.00 |
| | Meade | 11.00 | | Reno | 15.00 | | Labette | 23.00 |
| | Morton | 5.10 | | Sedgwick | 19.00 | | Montgomery | 22.00 |
| | Seward | 5.70 | | Stafford | 15.50 | | Neosho | 26.00 |
| | Stanton | 8.90 | | Sumner | 16.00 | | Wilson | 18.00 |
| Stevens | 8.90 | | | Woodson | 20.50 | | | |
| | Average: | 9.11 | | Average: | 13.96 | | Average: | 20.11 |

* KAS rental rates available at http://www.nass.usda.gov/Statistics_by_State/Kansas/index.asp