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# COMPARISON OF 2002 CENSUS AND KFMA FARMS

by Michael R. Langemeier

December 2005
Staff Paper No. 06-01

Department of Agricultural Economics
Kansas State University

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# COMPARISON OF 2002 CENSUS AND KFMA FARMS

**by Michael R. Langemeier**

**December 2005**
**Staff Paper No. 06-01**

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## Introduction

Data from the Kansas Farm Management Association (KFMA) is frequently used for extension, research, and teaching purposes in the Department of Agricultural Economics at Kansas State University. When using the KFMA data, it is often important to understand how the KFMA data compares to the data collected by the periodic United States Census of Agriculture (Census).

The purpose of this paper is to compare the size of farms in the Kansas Farm Management Association with farms represented in the 2002 Census. Farm size is measured using total acres operated and the market value of agricultural products sold. The primary data sources for the comparisons presented in this paper were the 2002 Census and the 2002 KFMA databank. Data from the 1997 Census and the 1997 KFMA databank were also used to make state level comparisons.

In addition to comparing the farm size of Census and KFMA farms, this paper estimates the percentage of total agricultural land and crop land in Kansas operated by farms participating in the KFMA program in 2002. The percentage of Census wheat acres operated and beef cows handled by KFMA farms is also presented in this paper.

## Variable Definitions

KFMA data used in this paper represents the farms that processed whole-farm analysis data in 1997 or 2002.[1] Approximately 20% of the farms that participate in the KFMA program do not process a whole-farm summary in any given year. Data for these farms obviously could not be included in the comparisons.

[1] See Langemeier (2003) for a description of the variables represented in the annual KFMA databank.

The 2002 Census defined a farm as a business that would normally sell at least $1,000 or more of agricultural products.[2] It is important to note that in terms of the Census, a farm did not actually have to have sales in 2002 to be considered a farm. Any business that could have potentially sold $1,000 of agricultural products was included in the Census.

One of variables used in the discussion of size category comparisons below is the market value of agricultural products sold (referred to as sales in the comparisons below). This variable is one of the primary variables collected in the Census. Market value of agricultural products sold represents the gross market value before taxes and production expenses of all agricultural products sold in 2002 regardless of who received the payment. This variable includes sales by the operator, partner, and landlord of a farm, but does not include payments received for participation in federal farm programs or income from custom work and other agricultural services provided by the operator. The market value of crops, included in the market value of agricultural products sold, due to sales of stored crops, does not necessarily equal the value of crops produced in 2002.

Because the KFMA whole-farm analysis program focuses on operator income and does not include landlord income, it is not possible to compute the Census equivalent market value of agricultural products sold using KFMA data. Instead, a readily available variable, total cash farm receipts, is used to categorize KFMA farms by sales size categories. Total cash farm receipts include cash sales of crops, livestock, government payments, and income from miscellaneous sources such as custom work and patronage dividends. Given the fact that most KFMA farms rent, on a crop share basis, at least a

[2] The following web site contains the Census data and describes the variables examined in the Census: www.nass.usda.gov/census/.

portion of their land, total cash farm receipts is likely to be lower than the market value of agricultural products sold as defined by the Census.

Size comparisons between Census and KFMA farms are also made using total acres operated. Total acres operated included owned and rented acres. Because the sales figures between the Census and the KFMA program are not directly comparable, the discussion below will focus on total acre comparisons.

**State Level Comparisons**

Table 1 presents a comparison between Census farms and KFMA farms for both 1997 and 2002. In 1997, approximately 3.3% of the Census farms participated in the KFMA program and processed a whole-farm analysis. In 2002, this percentage declined to 3.1%. The average KFMA farm was considerably larger than the average Census farm. In 2002, the average KFMA farm had 1,831 acres while the average Census farm had only 733 acres. The percentage of total agricultural land reported in the Census that was operated by KFMA members was approximately 7.9% in 1997 and 7.6% in 2002. The percentage of crop land reported in the Census that was operated by KFMA members was approximately 7.8% in 2002, an increase of 0.5% from 1997.

Because the average KFMA farm was larger than the average Census farm, the percentage of farms in the largest size categories that were KFMA members was substantially higher than the overall percentage of Census farms that were KFMA members. Less than 1.0% of the Census farms with total acres below 10 acres, with total acres between 10 and 50, or with total acres between 50 and 180 acres participated in the KFMA program and processed a whole-farm analysis in 2002. Only 1.3% of the Census farms with 180 to 500 acres participated in the KFMA program. In contrast,

approximately 9.5% and 10.5% of the Census farms with 1,000 to 2,000 acres and over 2,000 acres participated in the KFMA program in 2002. Approximately 13.0% and 16.4% of the Census farms with $100,000 to $500,000 in sales and over $500,000 in sales participated in the KFMA program and processed an analysis in 2002.

In addition to comparing farm size, Table 1 presents information on winter wheat and beef cow production for Census and KFMA farms. A substantially higher percent of the KFMA farms have wheat. The percentage of KFMA farms with a beef cow operation is slightly higher than the percentage of Census farms with a beef cow operation. Farms participating in the KFMA program operated approximately 9.1% of the wheat acres and handled approximately 6.0% of the cows in Kansas.

**Association Level Comparisons**

Table 2 presents a comparison between KFMA and Census farms for eastern Kansas.[3] Approximately 3.1% of the Census farms in northeast Kansas and approximately 3.5% of the Census farms in southeast Kansas were KFMA members that processed a whole-farm analysis in 2002. The average KFMA farm, in terms of total acres operated, was over three and one-half times larger than the average Census farm in eastern Kansas. Approximately 11.4% and 12.9% of the acres in northeast and southeast Kansas, respectively, were operated by KFMA members. Approximately 17.6% of the Census farms with over 1,000 acres in northeast Kansas were KFMA members. For southeast Kansas, approximately 18.6% of the Census farms with over 1,000 acres were KFMA members. Over 20% of the Census farms in eastern Kansas with sales above $100,000 in 2002 were KFMA members.

[3] This paper uses the six Kansas Farm Management Associations to depict regions within Kansas. For a graphical representation of the Association boundaries see the annual KFMA Profitlink Summary (Funk, 2004). A list of the counties in each Association is provided in Tables 5-7.

Table 3 presents a comparison between KFMA and Census farms for central Kansas. Approximately 2.7% of the Census farms in north central Kansas and 3.5% of the Census farms in south central Kansas were KFMA members that processed a whole-farm analysis in 2002. Average KFMA farm size, in terms of total acres operated, was 2.2 times larger than the average Census farm in north central Kansas and 2.8 times larger than the average Census farm in south central Kansas. KFMA farms operated approximately 5.9% of the land in north central Kansas and approximately 9.7% of the land in south central Kansas. Approximately 7.5% of the Census farms with 1,000 or more acres in north central Kansas were KFMA members. For south central Kansas, approximately 13.2% of the farms with 1,000 or more acres were KFMA members. Over 10% of the Census farms in central Kansas with sales above $100,000 in 2002 were KFMA members.

Table 4 presents a comparison between KFMA and Census farms for western Kansas. Approximately 2.9% of the Census farms in northwest Kansas and approximately 2.2% of the Census farms in southwest Kansas were KFMA members that processed a whole-farm analysis in 2002. The average KFMA farm, in terms of total acres operated, was 2.2 times larger than the average Census farm in northwest Kansas and 1.7 times larger than the average Census farm in southwest Kansas. KFMA farms operated approximately 6.3% of the land in northwest Kansas and approximately 3.8% of the land in southwest Kansas. Approximately 6.7% and 4.8% of the Census farms with 1,000 or more acres in northwest and southwest Kansas, respectively, were KFMA members. The average market value of sales per farm for the Census was higher than the average market value of sales per farm for farms participating in the KFMA program in

southwest Kansas. Moreover, the percentage of KFMA farms with over $100,000 sales at 6.6% was lower in southwest Kansas than it was for any other region in the state. These phenomena are at least partially due to inclusion of large fed cattle feedlots in the Census information for counties in southwest Kansas. These large fed cattle feedlots have historically not participated in the KFMA program. The percentage of farms with over $100,000 in sales in northwest Kansas was similar to the percentage in north central Kansas, but was lower than the percentages in the south central, northeast, and southeast regions.

**County Level Comparisons**

Table 5 presents a comparison between KFMA and Census farms for counties in eastern Kansas. The percent columns represent the percentage of Census farms with KFMA databank information. Of the counties with over 10 farms with a KFMA whole-farm analysis in northeast Kansas, 20% or more of the Census farms with 1,000 or more acres in Shawnee, Douglas, Leavenworth, and Morris counties are represented in the KFMA databank. For southeast Kansas, over 20% of the largest farms in Woodson, Montgomery, Franklin, Neosho, Allen, Wilson, and Crawford are represented in the KFMA databank. For many of the summaries processed by the KFMA, a county would need to have five or more farms in the KFMA databank before data for that county would be published. With this in mind, it is important to note the counties where this criterion is not met. Wyandotte is the only county in eastern Kansas that is represented by less than five farms in the KFMA databank. However, it is noteworthy that 100% of the farms with over 1,000 acres in Wyandotte are KFMA members receiving a whole-farm analysis.

Table 6 presents a comparison between KFMA and Census farms for counties in central Kansas. Of the counties with over 10 farms in north central Kansas, 20% or more of the Census farms with 1,000 or more acres in Geary and Marion are represented in the KFMA databank. For south central Kansas, over 20% of the largest farms in Rice and Sedgwick are represented in the KFMA databank. It is also noteworthy that Marion in north central Kansas, and Reno and Rice in south central Kansas are represented by over 50 farms in the KFMA databank. Cloud and Russell in north central Kansas, on the other hand, are represented by less than five farms in the KFMA databank. In fact, Russell was the only county in Kansas without a farm in the 2002 KFMA databank.

Table 7 presents a comparison between KFMA and Census farms for counties in western Kansas. Of the counties with over 10 farms in northwest Kansas, 20% or more of the Census farms with 1,000 or more acres in Wallace are represented in the KFMA databank. None of the counties in southwest Kansas have 20% or more of their largest farms represented in the KFMA databank. It is important to note that many of the counties in western Kansas are represented by less than five farms in the KFMA databank.

## Summary and Conclusions

This paper compared farms in the 2002 United States Census of Agriculture with farms that participated in the Kansas Farm Management Association program in 2002. Approximately 4.1% of the Census farms in Kansas participated in the KFMA program in 2002. In terms of processing a whole-farm analysis, approximately 3.1% of the Census farms processed a KFMA whole-farm analysis in 2002. The KFMA farms were on average larger than the Census farms so the percentage of Census farms that had 1,000

or more acres or sales above $100,000 that participating in the KFMA program was substantially higher than the overall averages. Approximately 10.0% of the Census farms with 1,000 or more acres participated in the KFMA program and processed a whole-farm analysis in 2002. Approximately 69% of the KFMA farms operated 1,000 or more acres in 2002. In contrast, only 21% of the Census farms operated 1,000 or more acres. Approximately 13.7% of the Census farms with over $100,000 in sales participated in the KFMA program and processed a whole-farm analysis in 2002.

The percentage of agricultural land operated by KFMA members in 2002 was larger in eastern Kansas than it was in central or western Kansas. In northeast and southeast Kansas, approximately 11.4% and 12.9% of the land in 2002 was operated by KFMA members. In north central and south central Kansas, approximately 5.9% and 9.7% of the land in 2002 was operated by KFMA members. In northwest and southwest Kansas, approximately 6.3% and 3.8% of the land in 2002 was operated by KFMA members.

Given the comparisons presented in this paper, the farms participating in the KFMA program are more representative of the Census farms in the largest size categories than they are of the Census farms in the smallest size categories. Though specific information on time devoted to farming is not collected, anecdotal evidence suggests that a vast majority of the farms participating in the KFMA program devote most of their time to the farm rather than an off-farm job. To the extent that this is the case, the average KFMA farm more closely reflects the characteristics of full-time commercial farms than the average Census farm.

## References

Funk, S.M. "Kansas Farm Management Association Annual Profitlink Summary." Department of Agricultural Economics, Kansas State University, 2004.

Langemeier, M.R. "Kansas Farm Management SAS Data Bank Documentation." Department of Agricultural Economics, Kansas State University, Staff Paper No. 03-02, June 2003.

Table 1. Comparison of 1997 and 2002 Census of Agriculture with KFMA State Databank Information.

| | 1997 Census | | | 2002 Census | | |
|---|---|---|---|---|---|---|
| | KFMA | Census | Percent | KFMA | Census | Percent |
| Number of Farms | 2,182 | 65,476 | 3.33% | 1,968 | 64,414 | 3.06% |
| Land in Farms | 3,697,246 | 46,650,618 | 7.93% | 3,602,640 | 47,227,944 | 7.63% |
| Average Size of Farms | 1,694 | 712 | 237.82% | 1,831 | 733 | 249.68% |
| Average Market Value of Sales | 285,876 | 142,233 | 200.99% | 302,362 | 135,782 | 222.68% |
| Farms by Size (Number) | | | | | | |
| 1 to 9 acres | 0 | 2,647 | 0.00% | 0 | 1,578 | 0.00% |
| 10 to 49 acres | 7 | 8,438 | 0.08% | 5 | 9,611 | 0.05% |
| 50 to 179 acres | 31 | 17,075 | 0.18% | 34 | 17,300 | 0.20% |
| 180 to 499 acres | 218 | 14,136 | 1.54% | 181 | 13,632 | 1.33% |
| 500 to 999 acres | 491 | 9,468 | 5.19% | 385 | 8,641 | 4.45% |
| 1,000 to 1,999 acres | 789 | 7,765 | 10.16% | 702 | 7,371 | 9.52% |
| 2,000 acres or more | 646 | 5,947 | 10.86% | 661 | 6,281 | 10.52% |
| Farms by Size (Percentages) | | | | | | |
| 1 to 9 acres | 0.00% | 4.04% | | 0.00% | 2.45% | |
| 10 to 49 acres | 0.32% | 12.89% | | 0.25% | 14.92% | |
| 50 to 179 acres | 1.42% | 26.08% | | 1.73% | 26.86% | |
| 180 to 499 acres | 9.99% | 21.59% | | 9.20% | 21.16% | |
| 500 to 999 acres | 22.50% | 14.46% | | 19.56% | 13.41% | |
| 1,000 to 1,999 acres | 36.16% | 11.86% | | 35.67% | 11.44% | |
| 2,000 or more acres | 29.61% | 9.08% | | 33.59% | 9.75% | |
| Total Cropland | | | | | | |
| Farms | 2,137 | 56,967 | 3.75% | 1,939 | 56,703 | 3.42% |
| Acres | 2,271,309 | 31,064,605 | 7.31% | 2,318,855 | 29,542,022 | 7.85% |
| Farms by Value of Sales (Number) | | | | | | |
| Less than $2,500 | 1 | 13,350 | 0.01% | 2 | 20,444 | 0.01% |
| $2,500 to $4,999 | 2 | 5,368 | 0.04% | 5 | 4,594 | 0.11% |
| $5,000 to $9,999 | 6 | 7,283 | 0.08% | 4 | 6,102 | 0.06% |
| $10,000 to $24,999 | 41 | 10,856 | 0.38% | 39 | 9,256 | 0.42% |
| $25,000 to $49,999 | 127 | 7,674 | 1.65% | 130 | 6,717 | 1.94% |
| $50,000 to $99,999 | 356 | 7,497 | 4.75% | 297 | 6,282 | 4.73% |
| $100,000 or $499,999 | 1,353 | 11,437 | 11.83% | 1,194 | 9,205 | 12.97% |
| $500,000 or more | 296 | 2,011 | 14.72% | 297 | 1,814 | 16.37% |
| Farms by Value of Sales (Percentages) | | | | | | |
| Less than $2,500 | 0.05% | 20.39% | | 0.10% | 31.74% | |
| $2,500 to $4,999 | 0.09% | 8.20% | | 0.25% | 7.13% | |
| $5,000 to $9,999 | 0.27% | 11.12% | | 0.20% | 9.47% | |
| $10,000 to $24,999 | 1.88% | 16.58% | | 1.98% | 14.37% | |
| $25,000 to $49,999 | 5.82% | 11.72% | | 6.61% | 10.43% | |
| $50,000 to $99,999 | 16.32% | 11.45% | | 15.09% | 9.75% | |
| $100,000 to $499,999 | 62.01% | 17.47% | | 60.67% | 14.29% | |
| $500,000 or more | 13.57% | 3.07% | | 15.09% | 2.82% | |

Table 1 (cont'd). Comparison of 1997 and 2002 Census of Agriculture with KFMA State Databank Information.

| | 1997 Census | | | 2002 Census | | |
|---|---|---|---|---|---|---|
| | KFMA | Census | Percent | KFMA | Census | Percent |
| Winter Wheat | | | | | | |
| Acres | 797,543 | 10,884,416 | 7.33% | 735,953 | 8,080,854 | 9.11% |
| Farms | 1,789 | 31,852 | 5.62% | 1,580 | 24,236 | 6.52% |
| Percentage of Farms | 81.99% | 48.65% | | 80.28% | 37.63% | |
| Beef Cows | | | | | | |
| Cows | 91,731 | 1,424,975 | 6.44% | 92,398 | 1,539,636 | 6.00% |
| Farms | 1,031 | 30,218 | 3.41% | 944 | 27,616 | 3.42% |
| Percentage of Farms | 47.25% | 46.15% | | 47.97% | 42.87% | |

Table 2. Comparison of 2002 Census of Agriculture with KFMA Eastern Kansas Databank Information.

| | Northeast Kansas | | | Southeast Kansas | | |
|---|---|---|---|---|---|---|
| | KFMA | Census | Percent | KFMA | Census | Percent |
| Number of Farms | 360 | 11,627 | 3.10% | 552 | 15,689 | 3.52% |
| Land in Farms | 538,682 | 4,738,872 | 11.37% | 989,753 | 7,689,942 | 12.87% |
| Average Size of Farms | 1,496 | 408 | 366.75% | 1,793 | 490 | 365.92% |
| Average Market Value of Sales | 316,808 | 53,172 | 595.82% | 310,710 | 54,532 | 569.78% |
| Farms by Size (Number) | | | | | | |
| 1 to 9 acres | 0 | 419 | 0.00% | 0 | 334 | 0.00% |
| 10 to 49 acres | 1 | 2,469 | 0.04% | 1 | 2,944 | 0.03% |
| 50 to 179 acres | 10 | 3,817 | 0.26% | 11 | 5,098 | 0.22% |
| 180 to 499 acres | 61 | 2,513 | 2.43% | 52 | 3,593 | 1.45% |
| 500 to 999 acres | 76 | 1,202 | 6.32% | 121 | 1,743 | 6.94% |
| 1,000 acres or more | 212 | 1,207 | 17.56% | 367 | 1,977 | 18.56% |
| Farms by Size (Percentages) | | | | | | |
| 1 to 9 acres | 0.00% | 3.60% | | 0.00% | 2.13% | |
| 10 to 49 acres | 0.28% | 21.24% | | 0.18% | 18.76% | |
| 50 to 179 acres | 2.78% | 32.83% | | 1.99% | 32.49% | |
| 180 to 499 acres | 16.94% | 21.61% | | 9.42% | 22.90% | |
| 500 to 999 acres | 21.11% | 10.34% | | 21.92% | 11.11% | |
| 1,000 acres or more | 58.89% | 10.38% | | 66.49% | 12.60% | |
| Total Cropland | | | | | | |
| Farms | 356 | 10,029 | 3.55% | 528 | 12,931 | 4.08% |
| Acres | 298,919 | 2,501,852 | 11.95% | 499,610 | 3,723,310 | 13.42% |
| Farms by Value of Sales (Number) | | | | | | |
| Less than $2,500 | 1 | 3,964 | 0.03% | 0 | 4,952 | 0.00% |
| $2,500 to $4,999 | 4 | 1,156 | 0.35% | 0 | 1,673 | 0.00% |
| $5,000 to $9,999 | 1 | 1,397 | 0.07% | 1 | 2,035 | 0.05% |
| $10,000 to $24,999 | 8 | 1,904 | 0.42% | 13 | 2,647 | 0.49% |
| $25,000 to $49,999 | 35 | 1,123 | 3.12% | 35 | 1,507 | 2.32% |
| $50,000 to $99,999 | 59 | 843 | 7.00% | 100 | 1,185 | 8.44% |
| $100,000 or more | 252 | 1,240 | 20.32% | 403 | 1,690 | 23.85% |
| Farms by Value of Sales (Percentages) | | | | | | |
| Less than $2,500 | 0.28% | 34.09% | | 0.00% | 31.56% | |
| $2,500 to $4,999 | 1.11% | 9.94% | | 0.00% | 10.66% | |
| $5,000 to $9,999 | 0.28% | 12.02% | | 0.18% | 12.97% | |
| $10,000 to $24,999 | 2.22% | 16.38% | | 2.36% | 16.87% | |
| $25,000 to $49,999 | 9.72% | 9.66% | | 6.34% | 9.61% | |
| $50,000 to $99,999 | 16.39% | 7.25% | | 18.12% | 7.55% | |
| $100,000 or more | 70.00% | 10.66% | | 73.01% | 10.77% | |
| Winter Wheat | | | | | | |
| Farms | 188 | 1,755 | 10.71% | 395 | 3,633 | 10.87% |
| Percentage of Farms | 52.22% | 15.09% | | 71.56% | 23.16% | |
| Beef Cows | | | | | | |
| Farms | 193 | 5,320 | 3.63% | 342 | 8,777 | 3.90% |
| Percentage of Farms | 53.61% | 45.76% | | 61.96% | 55.94% | |

Table 3. Comparison of 2002 Census of Agriculture with KFMA Central Kansas Databank Information.

| | North Central Kansas | | | South Central Kansas | | |
|---|---|---|---|---|---|---|
| | KFMA | Census | Percent | KFMA | Census | Percent |
| Number of Farms | 299 | 11,056 | 2.70% | 341 | 9,747 | 3.50% |
| Land in Farms | 472,928 | 8,024,294 | 5.89% | 581,286 | 5,993,490 | 9.70% |
| Average Size of Farms | 1,582 | 726 | 217.93% | 1,705 | 615 | 277.22% |
| Average Market Value of Sales | 288,862 | 82,880 | 348.53% | 273,174 | 106,154 | 257.34% |
| Farms by Size (Number) | | | | | | |
| 1 to 9 acres | 0 | 235 | 0.00% | 0 | 288 | 0.00% |
| 10 to 49 acres | 2 | 1,380 | 0.14% | 0 | 1,561 | 0.00% |
| 50 to 179 acres | 0 | 2,596 | 0.00% | 9 | 2,629 | 0.34% |
| 180 to 499 acres | 24 | 2,356 | 1.02% | 26 | 2,031 | 1.28% |
| 500 to 999 acres | 71 | 1,813 | 3.92% | 61 | 1,384 | 4.41% |
| 1,000 acres or more | 202 | 2,676 | 7.55% | 245 | 1,854 | 13.21% |
| Farms by Size (Percentages) | | | | | | |
| 1 to 9 acres | 0.00% | 2.13% | | 0.00% | 2.95% | |
| 10 to 49 acres | 0.67% | 12.48% | | 0.00% | 16.02% | |
| 50 to 179 acres | 0.00% | 23.48% | | 2.64% | 26.97% | |
| 180 to 499 acres | 8.03% | 21.31% | | 7.62% | 20.84% | |
| 500 to 999 acres | 23.75% | 16.40% | | 17.89% | 14.20% | |
| 1,000 acres or more | 67.56% | 24.20% | | 71.85% | 19.02% | |
| Total Cropland | | | | | | |
| Farms | 299 | 10,081 | 2.97% | 341 | 8,901 | 3.83% |
| Acres | 310,054 | 4,961,249 | 6.25% | 480,520 | 4,462,806 | 10.77% |
| Farms by Value of Sales (Number) | | | | | | |
| Less than $2,500 | 0 | 3,010 | 0.00% | 0 | 3,059 | 0.00% |
| $2,500 to $4,999 | 0 | 564 | 0.00% | 0 | 606 | 0.00% |
| $5,000 to $9,999 | 0 | 900 | 0.00% | 1 | 801 | 0.12% |
| $10,000 to $24,999 | 4 | 1,561 | 0.26% | 5 | 1,319 | 0.38% |
| $25,000 to $49,999 | 9 | 1,360 | 0.66% | 27 | 1,023 | 2.64% |
| $50,000 to $99,999 | 45 | 1,433 | 3.14% | 41 | 1,039 | 3.95% |
| $100,000 or more | 241 | 2,228 | 10.82% | 267 | 1,900 | 14.05% |
| Farms by Value of Sales (Percentages) | | | | | | |
| Less than $2,500 | 0.00% | 27.23% | | 0.00% | 31.38% | |
| $2,500 to $4,999 | 0.00% | 5.10% | | 0.00% | 6.22% | |
| $5,000 to $9,999 | 0.00% | 8.14% | | 0.29% | 8.22% | |
| $10,000 to $24,999 | 1.34% | 14.12% | | 1.47% | 13.53% | |
| $25,000 to $49,999 | 3.01% | 12.30% | | 7.92% | 10.50% | |
| $50,000 to $99,999 | 15.05% | 12.96% | | 12.02% | 10.66% | |
| $100,000 or more | 80.60% | 20.15% | | 78.30% | 19.49% | |
| Winter Wheat | | | | | | |
| Farms | 284 | 5,895 | 4.82% | 328 | 5,082 | 6.45% |
| Percentage of Farms | 94.98% | 53.32% | | 96.19% | 52.14% | |
| Beef Cows | | | | | | |
| Farms | 146 | 4,912 | 2.97% | 124 | 3,262 | 3.80% |
| Percentage of Farms | 48.83% | 44.43% | | 36.36% | 33.47% | |

Table 4. Comparison of 2002 Census of Agriculture with KFMA Western Kansas Databank Information.

| | Northwest Kansas | | | Southwest Kansas | | |
|---|---|---|---|---|---|---|
| | KFMA | Census | Percent | KFMA | Census | Percent |
| Number of Farms | 222 | 7,683 | 2.89% | 194 | 8,612 | 2.25% |
| Land in Farms | 589,350 | 9,408,963 | 6.26% | 430,645 | 11,372,423 | 3.79% |
| Average Size of Farms | 2,655 | 1,225 | 216.78% | 2,220 | 1,321 | 168.10% |
| Average Market Value of Sales | 308,790 | 130,320 | 236.95% | 316,560 | 498,961 | 63.44% |
| Farms by Size (Number) | | | | | | |
| 1 to 9 acres | 0 | 125 | 0.00% | 0 | 177 | 0.00% |
| 10 to 49 acres | 0 | 691 | 0.00% | 1 | 566 | 0.18% |
| 50 to 179 acres | 2 | 1,432 | 0.14% | 2 | 1,728 | 0.12% |
| 180 to 499 acres | 8 | 1,421 | 0.56% | 10 | 1,718 | 0.58% |
| 500 to 999 acres | 24 | 1,196 | 2.01% | 32 | 1,303 | 2.46% |
| 1,000 acres or more | 188 | 2,818 | 6.67% | 149 | 3,120 | 4.78% |
| Farms by Size (Percentages) | | | | | | |
| 1 to 9 acres | 0.00% | 1.63% | | 0.00% | 2.06% | |
| 10 to 49 acres | 0.00% | 8.99% | | 0.52% | 6.57% | |
| 50 to 179 acres | 0.90% | 18.64% | | 1.03% | 20.07% | |
| 180 to 499 acres | 3.60% | 18.50% | | 5.15% | 19.95% | |
| 500 to 999 acres | 10.81% | 15.57% | | 16.49% | 15.13% | |
| 1,000 acres or more | 84.68% | 36.68% | | 76.80% | 36.23% | |
| Total Cropland | | | | | | |
| Farms | 221 | 7,062 | 3.13% | 194 | 7,699 | 2.52% |
| Acres | 386,629 | 6,001,365 | 6.44% | 343,114 | 7,891,440 | 4.35% |
| Farms by Value of Sales (Number) | | | | | | |
| Less than $2,500 | 1 | 2,128 | 0.05% | 0 | 3,331 | 0.00% |
| $2,500 to $4,999 | 0 | 314 | 0.00% | 1 | 281 | 0.36% |
| $5,000 to $9,999 | 1 | 558 | 0.18% | 0 | 411 | 0.00% |
| $10,000 to $24,999 | 5 | 1,096 | 0.46% | 4 | 729 | 0.55% |
| $25,000 to $49,999 | 12 | 961 | 1.25% | 12 | 743 | 1.62% |
| $50,000 to $99,999 | 29 | 992 | 2.92% | 23 | 790 | 2.91% |
| $100,000 or more | 174 | 1,634 | 10.65% | 154 | 2,327 | 6.62% |
| Farms by Value of Sales (Percentages) | | | | | | |
| Less than $2,500 | 0.45% | 27.70% | | 0.00% | 38.68% | |
| $2,500 to $4,999 | 0.00% | 4.09% | | 0.52% | 3.26% | |
| $5,000 to $9,999 | 0.45% | 7.26% | | 0.00% | 4.77% | |
| $10,000 to $24,999 | 2.25% | 14.27% | | 2.06% | 8.46% | |
| $25,000 to $49,999 | 5.41% | 12.51% | | 6.19% | 8.63% | |
| $50,000 to $99,999 | 13.06% | 12.91% | | 11.86% | 9.17% | |
| $100,000 or more | 78.38% | 21.27% | | 79.38% | 27.02% | |
| Winter Wheat | | | | | | |
| Farms | 213 | 4,315 | 4.94% | 172 | 3,556 | 4.84% |
| Percentage of Farms | 95.95% | 56.16% | | 88.66% | 41.29% | |
| Beef Cows | | | | | | |
| Farms | 105 | 3,174 | 3.31% | 34 | 2,171 | 1.57% |
| Percentage of Farms | 47.30% | 41.31% | | 17.53% | 25.21% | |

Table 5. County Comparisons Between Census and KFMA Farms in Eastern Kansas.

| | Number of Farms | | | | 1,000 or More Acres | | |
|---|---|---|---|---|---|---|---|
| | KFMA Farms | Databank Farms | Census Farms | Percent | Databank Farms | Census Farms | Percent |
| Northeast Kansas | | | | | | | |
| Atchison | 12 | 6 | 619 | 0.97% | 3 | 56 | 5.36% |
| Brown | 51 | 24 | 591 | 4.06% | 17 | 102 | 16.67% |
| Chase | 31 | 20 | 260 | 7.69% | 15 | 88 | 17.05% |
| Doniphan | 20 | 8 | 469 | 1.71% | 5 | 63 | 7.94% |
| Douglas | 34 | 30 | 874 | 3.43% | 14 | 45 | 31.11% |
| Jackson | 32 | 20 | 1,099 | 1.82% | 13 | 73 | 17.81% |
| Jefferson | 37 | 23 | 1,041 | 2.21% | 10 | 64 | 15.62% |
| Johnson | 10 | 5 | 659 | 0.76% | 2 | 32 | 6.25% |
| Leavenworth | 32 | 26 | 1,094 | 2.38% | 8 | 32 | 25.00% |
| Lyon | 39 | 32 | 898 | 3.56% | 20 | 146 | 13.70% |
| Morris | 37 | 35 | 466 | 7.51% | 26 | 115 | 22.61% |
| Nemaha | 37 | 29 | 1,020 | 2.84% | 7 | 99 | 7.07% |
| Pottawatomie | 51 | 31 | 842 | 3.68% | 19 | 128 | 14.84% |
| Shawnee | 43 | 37 | 903 | 4.10% | 30 | 48 | 62.50% |
| Wabaunsee | 44 | 31 | 631 | 4.91% | 20 | 113 | 17.70% |
| Wyandotte | 5 | 3 | 161 | 1.86% | 3 | 3 | 100.00% |
| Total | 515 | 360 | 11,627 | 3.10% | 212 | 1,207 | 17.56% |
| Southeast Kansas | | | | | | | |
| Allen | 27 | 24 | 619 | 3.88% | 19 | 81 | 23.46% |
| Anderson | 24 | 24 | 654 | 3.67% | 19 | 110 | 17.27% |
| Bourbon | 30 | 20 | 838 | 2.39% | 14 | 79 | 17.72% |
| Butler | 45 | 30 | 1,309 | 2.29% | 20 | 178 | 11.24% |
| Chautauqua | 23 | 19 | 371 | 5.12% | 16 | 97 | 16.49% |
| Cherokee | 46 | 36 | 746 | 4.83% | 18 | 95 | 18.95% |
| Coffey | 30 | 18 | 607 | 2.97% | 13 | 110 | 11.82% |
| Cowley | 53 | 48 | 1,004 | 4.78% | 27 | 172 | 15.70% |
| Crawford | 32 | 32 | 825 | 3.88% | 18 | 83 | 21.69% |
| Elk | 25 | 19 | 407 | 4.67% | 18 | 96 | 18.75% |
| Franklin | 34 | 28 | 977 | 2.87% | 19 | 77 | 24.68% |
| Greenwood | 34 | 21 | 575 | 3.65% | 14 | 136 | 10.29% |
| Labette | 37 | 32 | 889 | 3.60% | 17 | 97 | 17.53% |
| Linn | 20 | 12 | 903 | 1.33% | 9 | 76 | 11.84% |
| Miami | 26 | 23 | 1,424 | 1.62% | 11 | 61 | 18.03% |
| Montgomery | 31 | 29 | 983 | 2.95% | 23 | 75 | 30.67% |
| Neosho | 39 | 36 | 769 | 4.68% | 22 | 90 | 24.44% |
| Osage | 25 | 22 | 925 | 2.38% | 11 | 85 | 12.94% |
| Wilson | 35 | 32 | 556 | 5.76% | 24 | 105 | 22.86% |
| Woodson | 48 | 47 | 308 | 15.26% | 35 | 74 | 47.30% |
| Total | 664 | 552 | 15,689 | 3.52% | 367 | 1,977 | 18.56% |

Table 6. County Comparisons Between Census and KFMA Farms in Central Kansas.

| | Number of Farms | | | | 1,000 or More Acres | | |
|---|---|---|---|---|---|---|---|
| | KFMA Farms | Databank Farms | Census Farms | Percent | Databank Farms | Census Farms | Percent |
| North Central Kansas | | | | | | | |
| Clay | 31 | 26 | 571 | 4.55% | 18 | 152 | 11.84% |
| Cloud | 4 | 2 | 520 | 0.38% | 1 | 139 | 0.72% |
| Dickinson | 47 | 42 | 976 | 4.30% | 36 | 192 | 18.75% |
| Ellsworth | 13 | 11 | 478 | 2.30% | 8 | 139 | 5.75% |
| Geary | 24 | 22 | 245 | 8.98% | 17 | 61 | 27.87% |
| Jewell | 14 | 11 | 572 | 1.92% | 7 | 172 | 4.07% |
| Lincoln | 10 | 5 | 458 | 1.09% | 4 | 138 | 2.90% |
| Marion | 73 | 71 | 996 | 7.13% | 36 | 179 | 20.11% |
| Marshall | 9 | 8 | 954 | 0.84% | 5 | 203 | 2.46% |
| Mitchell | 26 | 16 | 473 | 3.38% | 8 | 154 | 5.19% |
| Osborne | 14 | 9 | 449 | 2.00% | 8 | 184 | 4.35% |
| Ottawa | 14 | 10 | 512 | 1.95% | 7 | 119 | 5.88% |
| Republic | 7 | 7 | 642 | 1.09% | 5 | 150 | 3.33% |
| Riley | 17 | 11 | 493 | 2.23% | 6 | 60 | 10.00% |
| Russell | 2 | 0 | 617 | 0.00% | 0 | 146 | 0.00% |
| Saline | 29 | 26 | 758 | 3.43% | 18 | 126 | 14.29% |
| Smith | 24 | 15 | 546 | 2.75% | 13 | 197 | 6.60% |
| Washington | 10 | 7 | 796 | 0.88% | 5 | 165 | 3.03% |
| Total | 368 | 299 | 11,056 | 2.70% | 202 | 2,676 | 7.55% |
| South Central Kansas | | | | | | | |
| Barton | 67 | 43 | 772 | 5.57% | 38 | 206 | 18.45% |
| Harper | 20 | 11 | 523 | 2.10% | 8 | 140 | 5.71% |
| Harvey | 27 | 22 | 832 | 2.64% | 13 | 98 | 13.27% |
| Kingman | 15 | 11 | 837 | 1.31% | 6 | 184 | 3.26% |
| McPherson | 36 | 24 | 1,161 | 2.07% | 12 | 155 | 7.74% |
| Pratt | 36 | 23 | 591 | 3.89% | 17 | 148 | 11.49% |
| Reno | 82 | 59 | 1,570 | 3.76% | 38 | 225 | 16.89% |
| Rice | 86 | 58 | 500 | 11.60% | 45 | 143 | 31.47% |
| Sedgwick | 53 | 41 | 1,355 | 3.03% | 29 | 134 | 21.64% |
| Stafford | 21 | 17 | 534 | 3.18% | 16 | 156 | 10.26% |
| Sumner | 42 | 32 | 1,072 | 2.99% | 23 | 265 | 8.68% |
| Total | 485 | 341 | 9,747 | 3.50% | 245 | 1,854 | 13.21% |

Table 7. County Comparisons Between Census and KFMA Farms in Western Kansas.

| | Number of Farms | | | | 1,000 or More Acres | | |
|---|---|---|---|---|---|---|---|
| | KFMA Farms | Databank Farms | Census Farms | Percent | Databank Farms | Census Farms | Percent |
| Northwest Kansas | | | | | | | |
| Cheyenne | 19 | 16 | 441 | 3.63% | 12 | 172 | 6.98% |
| Decatur | 10 | 10 | 350 | 2.86% | 7 | 138 | 5.07% |
| Ellis | 4 | 1 | 758 | 0.13% | 1 | 175 | 0.57% |
| Gove | 8 | 5 | 395 | 1.27% | 5 | 177 | 2.82% |
| Graham | 11 | 7 | 431 | 1.62% | 5 | 136 | 3.68% |
| Logan | 22 | 16 | 318 | 5.03% | 14 | 155 | 9.03% |
| Ness | 7 | 5 | 547 | 0.91% | 5 | 202 | 2.48% |
| Norton | 16 | 14 | 482 | 2.90% | 10 | 151 | 6.62% |
| Phillips | 8 | 7 | 531 | 1.32% | 7 | 173 | 4.05% |
| Rawlins | 22 | 20 | 405 | 4.94% | 19 | 203 | 9.36% |
| Rooks | 8 | 7 | 485 | 1.44% | 7 | 161 | 4.35% |
| Rush | 2 | 1 | 504 | 0.20% | 0 | 137 | 0.00% |
| Sheridan | 16 | 14 | 404 | 3.47% | 12 | 187 | 6.42% |
| Sherman | 51 | 31 | 443 | 7.00% | 27 | 189 | 14.29% |
| Thomas | 41 | 25 | 476 | 5.25% | 21 | 196 | 10.71% |
| Trego | 7 | 5 | 423 | 1.18% | 5 | 138 | 3.62% |
| Wallace | 50 | 38 | 290 | 13.10% | 31 | 128 | 24.22% |
| Total | 302 | 222 | 7,683 | 2.89% | 188 | 2,818 | 6.67% |
| Southwest Kansas | | | | | | | |
| Barber | 9 | 3 | 471 | 0.64% | 1 | 180 | 0.56% |
| Clark | 3 | 2 | 302 | 0.66% | 1 | 103 | 0.97% |
| Comanche | 12 | 3 | 274 | 1.09% | 3 | 115 | 2.61% |
| Edwards | 9 | 6 | 353 | 1.70% | 5 | 121 | 4.13% |
| Finney | 20 | 13 | 485 | 2.68% | 8 | 205 | 3.90% |
| Ford | 34 | 20 | 701 | 2.85% | 18 | 194 | 9.28% |
| Grant | 5 | 3 | 304 | 0.99% | 3 | 96 | 3.13% |
| Gray | 35 | 25 | 470 | 5.32% | 17 | 149 | 11.41% |
| Greeley | 11 | 3 | 303 | 0.99% | 2 | 104 | 1.92% |
| Hamilton | 19 | 9 | 393 | 2.29% | 8 | 156 | 5.13% |
| Haskell | 11 | 7 | 227 | 3.08% | 2 | 104 | 1.92% |
| Hodgman | 38 | 28 | 381 | 7.35% | 22 | 158 | 13.92% |
| Kearny | 25 | 17 | 347 | 4.90% | 13 | 118 | 11.02% |
| Kiowa | 16 | 6 | 379 | 1.58% | 4 | 124 | 3.23% |
| Lane | 10 | 4 | 312 | 1.28% | 4 | 142 | 2.82% |
| Meade | 6 | 3 | 454 | 0.66% | 2 | 164 | 1.22% |
| Morton | 14 | 6 | 309 | 1.94% | 6 | 89 | 6.74% |
| Pawnee | 7 | 7 | 430 | 1.63% | 5 | 143 | 3.50% |
| Scott | 2 | 1 | 327 | 0.31% | 1 | 130 | 0.77% |
| Seward | 9 | 7 | 350 | 2.00% | 6 | 108 | 5.56% |
| Stanton | 14 | 8 | 313 | 2.56% | 8 | 128 | 6.25% |
| Stevens | 3 | 1 | 401 | 0.25% | 1 | 138 | 0.72% |
| Wichita | 18 | 12 | 326 | 3.68% | 9 | 151 | 5.96% |
| Total | 330 | 194 | 8,612 | 2.25% | 149 | 3,120 | 4.78% |