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Analysis of Kansas' Economic Losses Caused by Nebraska's Overuse of Water in the Republican River Basin in 2005 and 2006

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1. Summary of Opinions

Between 2005 and 2006 Nebraska allegedly used water above the terms agreed upon in the Final Settlement Stipulation (FSS) of the Republican River Compact (Compact). The loss allegedly resulted in decreased surface water diversions to the Kansas Bostwick Irrigation District (KBID) and return flows below KBID. KBID receives natural water flows from the Republican River and storage flows from Harlan County Reservoir in Nebraska.[1]

This report evaluates the approach taken by the State of Kansas' economic experts in their attempt to quantify damages allegedly suffered by Kansas as a result of Nebraska's overuse of water. I conclude that their method suffers from numerous conceptual and empirical defects, and should not be used as the basis for a damage calculation. A more realistic approach to damages, one rooted in market data and observed behavior, shows that **Kansas' actual damages resulting from Nebraska's overuse of water in 2005 and 2006 are between $614,872 and $1,234,542**. Precisely where, within this range, the true damage figures lies depends on the volume of water Kansas actually lost as a result of Nebraska's alleged overuse. Taking the Kansas assessment of this volume at face value (Spronk 2009) yields, at most, the higher damage figure of $1,234,542. Applying my analysis to the Nebraska assessment (The Flatwater Group, 2009) yields, at most, the lower $614,872.[2]

Access to irrigation water is a characteristic of land, and land with this feature typically rents at a modest premium in North-Central Kansas. Comparing land rents for irrigated and non-irrigated land is a valid way to measure the extra profit earned by farmers from being able to irrigate their crops. The market price for irrigation water in the area of KBID is less than $30 per acre-foot, yet Kansas advances a theory that irrigation water is worth several times that amount. Their assertions are inconsistent with market data and should be discounted.

Similarly, Kansas has made a number of overstated assertions about the impact of water shortage on irrigated acreage and yields in KBID. I use historical information from KBID to demonstrate that while surface water is valuable, it does not produce anywhere near

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[1] US Bureau of Reclamation, Kansas Bostwick Irrigation District Information Sheet.

[2] In addition, as noted by The Flatwater Group, its calculation of the volume of water lost as a result of Nebraska overuse is a maximum potential value, The Flatwater Group indicates that the actual volume may be even lower than The Flatwater Group projects. As a result, the $614,872 figure would need to be adjusted downward to accommodate additional reductions in the volume as ultimately determined by The Flatwater Group.

the economic benefits claimed in Kansas' analysis. My findings regarding acreage and yield are consistent with the small premium for irrigated land paid by farmers in the region of KBID.

Kansas' assertions regarding indirect impacts account for almost half of all damages claimed. Indirect impacts are those resulting from economic linkages between the farm economy and other sectors. Reductions in farm output can cause negative effects in other, related industries. While indirect effects are well known to economists and are commonly included in public policy analyses, they are not an appropriate basis for a damage calculation because any damage payment from Nebraska to Kansas will generate its own multiplier effects, and a damage payment that compensates for direct losses should result in indirect benefits that compensate for indirect losses. Thus, the only proper basis for a damage calculation is based on Kansas' direct losses.

2. Description of Kansas' Analysis

Several agricultural economists from Kansas State University have proffered an economic analysis purporting to measure damages resulting from Nebraska's noncompliance with the terms of the Final Settlement Stipulation approved by the May 19, 2003 Supreme Court Decree in *Kansas v. Nebraska and Colorado*.[3] The Kansas analysis used a mathematical model to simulate production decisions, behavior and output within the affected region of Kansas. The model was first run using observed or estimated parameters specific to the study area. The model was then used to estimate agricultural productivity under the relevant water-availability scenarios. Finally, these estimates were used to compute the value of lost economic output proceeding from Decree noncompliance. After direct losses are calculated by this method, the Kansas analysis then calculates indirect impacts resulting from the change in economic activity associated with the water shortage. I will review each of these elements in turn.

A. IPYSim

The Kansas analysis used an agronomic modeling tool called IPYsim ("irrigation and precipitation yield simulator") to estimate KBID agricultural productivity as a function of water availability. IPYsim belongs to a broader class of "water response" models that transform estimates of the quantity of available irrigation water into per-acre predictions of agricultural productivity. These predictions internalize a number of outside factors affecting productivity, such as the prices of farm inputs and outputs, and precipitation. Additionally, they assume that decisions made which affect crop yields are made by a rational, optimizing agent.

B. Parameter Estimation

Numerous parameters characterize IPYsim. Those which are invariant to the actions disputed in the case, such as crop prices, land/labor/irrigation costs, non-irrigated crop

[3] Golden, W., T. Kastens, K. Dhuyvetter, J. Leatherman, A. Featherstone and T. Johnson, "Economic Impacts on Kansas of Diminished Surface Water Supplies to the Lower Republican River Basin Caused by Nebraska in 2005 and 2006, January 20, 2009.

yields, and precipitation, are derived from a variety of sources including KBID records, academic literature, and data provided by the federal agencies. They are summarized in Table 1: Invariant Parameters. In some instances, invariant parameters were estimated using data from 1994-2000 instead of more recent years. According to the Kansas analisis, years 2001-present were treated as anomalous because of the ongoing water shortage.

Some parameters used in Kansas' analysis were unobservable. For example, in order to calculate total output assuming Decree compliance (hereafter and in the Kansas analysis, the "full irrigation scenario"), it is necessary to know how many acres would have been irrigated in the absence of Nebraska's over-diversion. To calculate this quantity, the Kansas analysis estimated the average number of irrigated acres for the years 1994-2000. Parameters that required hypothetical estimation are summarized separately in Table 2: Unobservable Parameters, along with their estimation procedure.

C. Model Parameterization

The equations comprising Kansas' model are defined in part using parameters specific to the area and time frame in study. In the case of Kansas' analysis, this procedure required the authors to transform values for the input parameters into historically accurate output predictions.

Parameterization of Kansas' model entailed comparing model output that was derived from the parameters described above, with historical trends in KBID productivity. For each relevant crop, the report calculated the long-term (1962-2006) time trend in yield both including and omitting dry years, and retained the maximum estimate. These estimates were then treated as "targets": the model was adjusted so that, given long-term estimates of the cost, revenue, precipitation parameters, predicted output equaled the observed long-term yield. These calibrated settings were then retained for use in later stages of the estimation.

D. Model Estimation

The Kansas analysis used the calibrated model to estimate aggregate KBID productivity under various irrigation scenarios. Full irrigation yields were computed by assuming that KBID farmers received the full allotment specified under the decree. However, these do not comprise the report's ultimate estimates of hypothetical productivity in the full-irrigation scenario. Instead, they are used to adjust observed yields using model output as a guide: observed yields in 2005-2006 are inflated proportional to the ratio of modeled yields in the full- and partial-irrigation scenarios.

For example:

- Recorded corn productivity in the below-Lovewell region in 2005 was 187 bu/acre.
- IPYsim predicted productivity under those conditions was 150.5 bu/acre.
- In the full-irrigation scenario, IPYsim predicted that productivity would have been 165bu/acre.

- The expected productivity adopted by the analysis is therefore $187 \times \frac{165.9}{150.5} = 206.1 \text{bu/acre}$.

These calculations are summarized in Table 10 of the Kansas report.

E. Damage Calculation

Finally, the Kansas analysis combines results from the previous steps to calculate total damages. Crop prices, crop productivity, and total acreage can be multiplied and weighted using the appropriate crop shares to determine total revenues. Total costs include the combined unit costs of labor, irrigation, fertilizer, energy; subtracting yields profit. Comparing the full- and limited-irrigation scenarios yields total lost profit.

The damage calculation also was based on Kansas' estimation of indirect impacts of water shortage in KBID. Estimation of indirect impacts was done using a standard model known as IMPLAN. While the method is standard, the use of IMPLAN to assess indirect impacts resulting from changes in water availability is fraught with problems relating to the generally poor quality of the input purchase and consumer expenditure data, including information on "export" coefficients, for rural areas in the United States. More importantly, as I explain below, indirect impacts are not a legitimate consideration in a proceeding of this type.

Table 1: Invariant Parameters

Parameter	Description	Value	Source(s)	Notes
Irrigation Efficiency	Percent of water at farm headgate that is used beneficially in crop production	Flood: 0.65 Center Pivot: 0.90	Rogers et al. (1997) KSU Crop Water Allocator UNL Water Optimizer	
Irrigation Technology Mix	Relative usage of irrigation technology within KBID	Flood: .571 Center Pivot: .429	KBID quadrennial survey	Above and below Lovewell assumed equal
Precipitation	Annual precipitation within KBID	2005: 31.97 2006: 26.18	KBID annual reports	Estimates are adjusted by crop to reflect specific growing season. 1962-2006 averages used to calibrate model.
Crop Prices	Unit market prices	Varies; cf. report Table 7	NASS KBID FSA	1994-2000 average used to calibrate model; 2005 and 2006 prices used to calculate damages
Non-Irrigated Crop Mix	Relative shares of non-irrigated crops grown in KBID	Varies; cf. report Table 9	NASS	
Irrigation Cost	Unit cost of applied irrigation water	2005: $0.902/ac-in 2006: $1.0236/ac-in		Blended estimate based on irrigation technology mix. Incorporates energy costs.
Fertilizer Cost	Unit cost of nitrogen fertilizer	2005: $0.3267/lb 2006: $0.3740/lb	NASS	
Miscellaneous Costs	Labor, depreciation, taxes	Variable		Cf. §II.L of report

Table 2: Unobservable Parameters

Parameter	Description	Value	Estimation Procedure
Total Irrigated Acres	Total area that would have been irrigated	2005: 38,436 ac. 2006: 38,398 ac.	1994-2000 average share of irrigated acres in KBID times total classified KBID acres
Crop Yields	Unit yields by crop assuming full irrigation	Varies; cf. report Table 10.	Long-term trend in yields used to calibrate model; model output then used to estimate damages.
Irrigated Crop Mix	Relative shares of irrigated crops grown in KBID	Varies; cf. report Table 8	2005 and 2006 assumed equal to 1994-2000 average.

3. Assessment of Kansas' Approach to Damages

Kansas' analysis is inadequate as a basis for a damage calculation. The Kansas model is a stylized representation of farm-level production decisions and does not correspond well with real-world data. In part, this discrepancy can be traced to a series of unfounded assumptions that, taken together, lead to an overestimate of actual losses. Moreover, the Kansas analysis misses a number of important factors that determine the productivity of irrigation water in the region.

A. Direct Effects

Serious flaws plague Kansas' assessment of direct losses resulting from Nebraska's overuse of water in 2005 and 2006. In particular, Kansas' estimates of the value of irrigation water in KBID are far in excess of observed market prices for water in the region. The reasons for this overestimation of the value of water are twofold. First, the Kansas analysis is based on a farm-level optimization model that is largely theoretical. Second, in nearly every reported instance, Kansas' analysis applies the model using data that bias estimated damages upward.

An electronic copy of the version of IPYsim used in Kansas' analysis was not made available to me for examination. Therefore, I must rely on the authors' description of the steps they followed in their analysis. Based on my review of the literature, IPYsim does not appear to have been peer-reviewed in a refereed journal. To that extent, it has not been scrutinized by the agricultural economics profession.

A fundamental error in Kansas' approach to damages important is that their report ignores the possibility of groundwater substitution. "Commingled" acres, where both ground- and surface-water irrigation are utilized, represent a significant fraction of the total area in KBID, yet Kansas' analysis makes no mention of the possibility of groundwater substitution. Instead, it treats irrigation and surface water as if they were synonymous. This omission causes Kansas' simulated damages to be greater than their actual level.

In reality, factors such as soil quality are expected to have an impact on farm-level production and profits. It does not appear that differences in environmental conditions among farms in KBID have been factored into Kansas' analysis. Moreover, it is not clear whether Kansas' analysis accurately accounts for the additional labor expenses associated with crop irrigation. This omission will lead to an overstatement of the marginal profit from irrigation as opposed to dryland production, and of the marginal cost of a water shortage in KBID.

There is ample reason to be suspicious of the crop-water relationships embedded in IPYsim. For example, the yield estimates produced by IPYsim are not close to real-world levels. The Kansas analysis provides an example in this regard. Table 10 of the Kansas analysis displays IPYsim results for a variety of years and scenarios. Of note are rows 8 through 15 ("Model Yield (actual irr.)" and "Actual Reported Yield"), which compare IPYsim's predictions for 2005 and 2006 with what actually occurred in those years.

Surprisingly, **the IPYsim estimates vary from the true values by as much as 85%**.[4] As a result of this discrepancy, Kansas' analysts adjusted the IPYsim outputs in the manner described in section 2.4 of this report.

Kansas' analysis uses parameter values for IPYsim that lead to an overestimation of damages from water shortage. The values for crop prices, irrigation efficiency, and fully-irrigated crop yields used in Kansas' analysis are all calculated in a manner that maximizes damages by selecting the highest observed value instead of averaging. Other parameters appear to have been chosen arbitrarily. For example, fertilizer prices were were inflated 25% for irrigated acreage; for non-irrigated crops, an additional cost equaling 33% of the fuel charge for irrigated crops was added to the final calculations; 50% of the irrigated equipment repair cost was added to non-irrigated crop costs. No accompanying calculations are provided to justify these values.[5]

Several parameters were estimated by discarding more recent data in favor if that which pertains to the time period 1994-2000, the most recent for which there was no water shortage. Fully-irrigated crop mix, prices, and yields as well as fully-irrigated KBID classified acres and irrigation technology mix were all estimated as a function of 1994-2000 data. This approach is valid only insofar as it accurately describes the change in farmer behavior that would have resulted from increased surface water diversions in 2005 and 2006.

B. Indirect Effects

Nearly half of Kansas' claimed damages stem from so-called "indirect" effects. These refer to damages which are not incident on the farmers themselves, but rather on businesses and individuals in the region, who suffered as a result of the farmers' loss of income and corresponding reduction in spending. These effects are real, and have a sound basis in economic theory, but the Kansas analysis misses a key point: indirect losses will be offset by indirect gains when Kansas receives Nebraska's payment for direct losses.

The ultimate magnitude of indirect benefits of Nebraska's damage payment to Kansas depends, of course, on how it is spent. Kansas has indicated that any monies received from Nebraska would be spent on water planning activities, rather than returned to KBID. To the extent that these planning activities would have occurred in the absence of receiving a damage payment from Nebraska, the proper way to consider such payments is as a reduction in taxes (or, equivalently, an increase in household income). It is well known that tax reductions generate large indirect benefits.

One of the reasons indirect impacts are not typically considered in damage proceedings is that Nebraska has no control over how its payments are redistributed within Kansas. Recipients of Nebraska's payment could take a cruise to Hawaii, or purchase a car made in Japan, thereby providing little indirect benefit to the Kansas economy. Yet, under

[4] The Kansas report also notes that IPYsim incorrectly estimates relative water usage compared to observed data. Again, no effort is made to analyze the source of these discrepancies; the authors simply posit a correction.

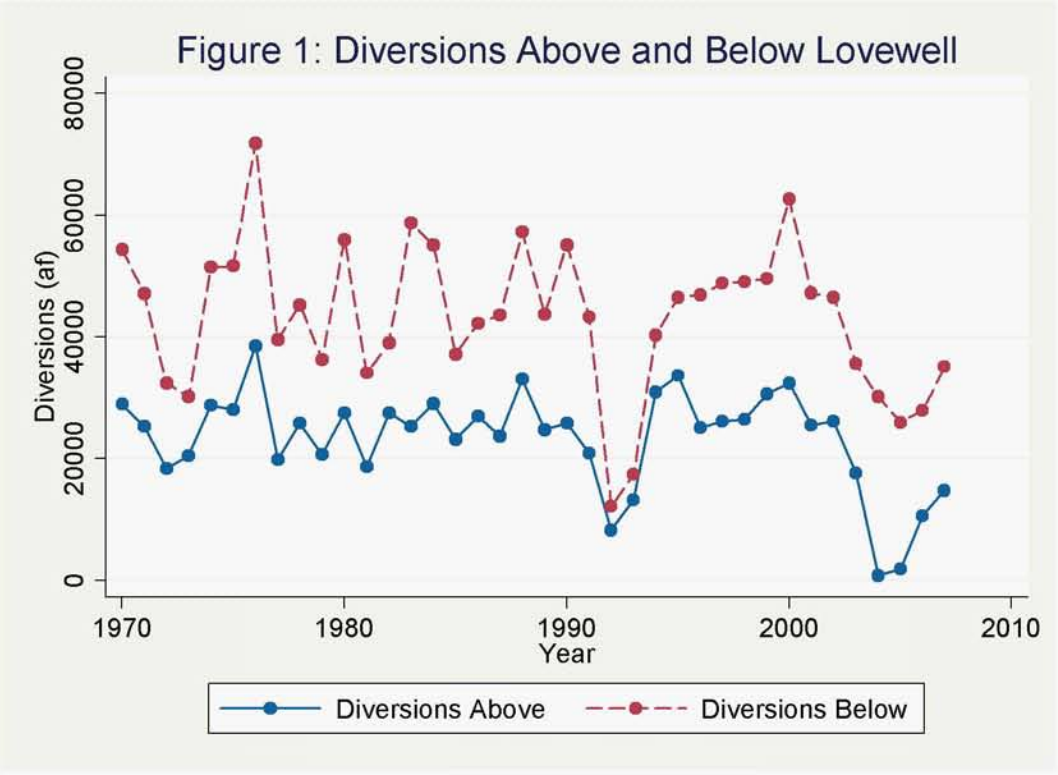
[5] Report, p. 8

Kansas' theory, Nebraska should be held accountable for indirect impacts. Such a circumstance would be highly unusual, and grossly unfair.

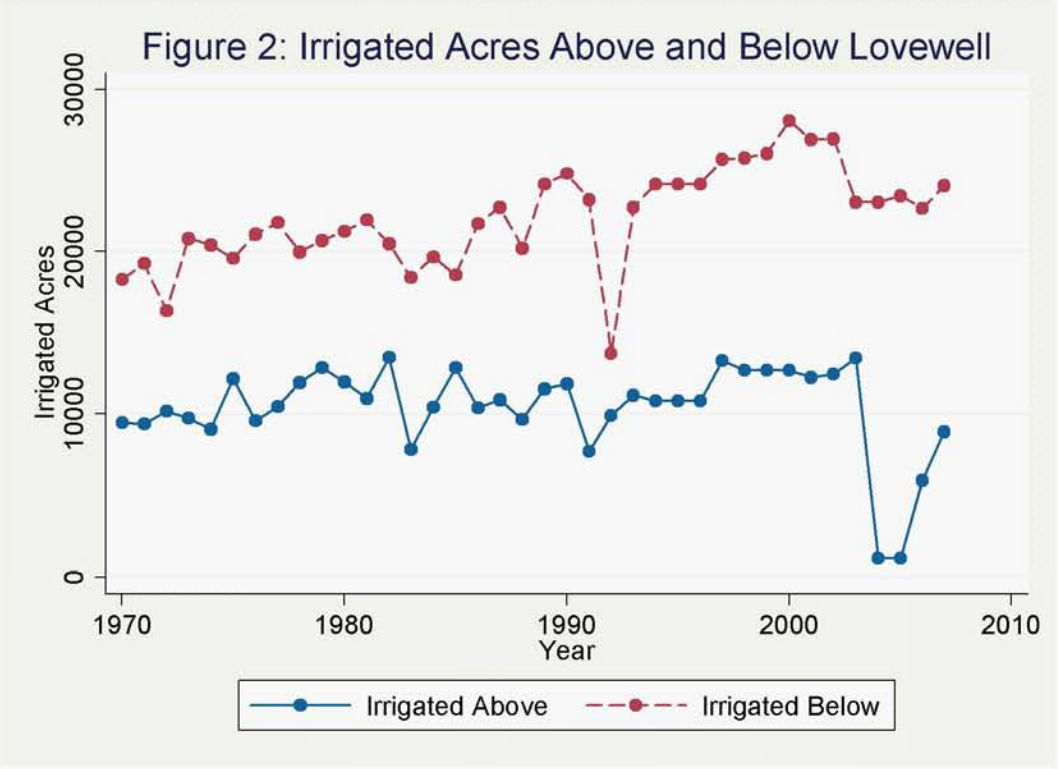
4. Market Data

To assess the response of Kansas farmers to water shortages in 2005 and 2006, it is useful to examine available information on behavior before, during and after that period. Historical data for KBID are made available by the Bureau of Reclamation. Some of the KBID data are available at a more refined level, with separate data for the area above and below Lovewell Reservoir. Annual data on irrigated acres, quantities of diversions and delivery (loss) are available for KBID as a whole, and for the areas above and below Lovewell, from 1958-2007.

Water diversions are not distributed equally within KBID. The area above Lovewell Reservoir receives substantially less water and the deliveries are more variable than the area below. While it is clear that water diversions in 2005 and 2006 were historically low, in neither area were water diversions in 2005 and 2006 at the absolute lowest of the period between 1970 and 2007. The figure below shows water diversions in acre-feet (af) above and below Lovewell Reservoir between 1970 and 2007. This observation is significant since it implies that whatever happened in 2005 and 2006, diversions to KBID farmers in these years were within historical ranges. Thus, historical relationships between, say, diversions and irrigated acres can be used to assess the acreage that would have been planted in KBID if Nebraska had not overused water in those years.



A similar picture emerges when plotting the number of acres irrigated above and below Lovewell. Figure 2 shows irrigated acres above and below Lovewell between 1970 and 2007. **Notice that irrigated acres below Lovewell are greater than average in 2005 and 2006**.



Data are available at the level of KBID for precipitation and corn yields. Corn is the crop that is the most widely grown in KBID and had the greatest value to district farmers in 2005-2006.[6] As the precipitation data are available on a quarterly basis and the decisive month of precipitation for corn production is July, I use the July-September annual precipitation totals from 1970-2007. I use annual data on corn yields for the same time period.

The National Agricultural Statistics Service (NASS) maintains regional crop statistics data for north-central Kansas (the region in which KBID is located). I use regional data on planted acres and corn yield between 1970 and 2007. Planted acres are estimated as the annual sum of all acres planted in north-central Kansas for all crop commodities. Corn yield is calculated to be the annual total yield of corn for grain in the region. Figure 4 shows the total planted acres in north-central Kansas.

[6] Kansas Bostwick Bulletin, April-May-June 2007.

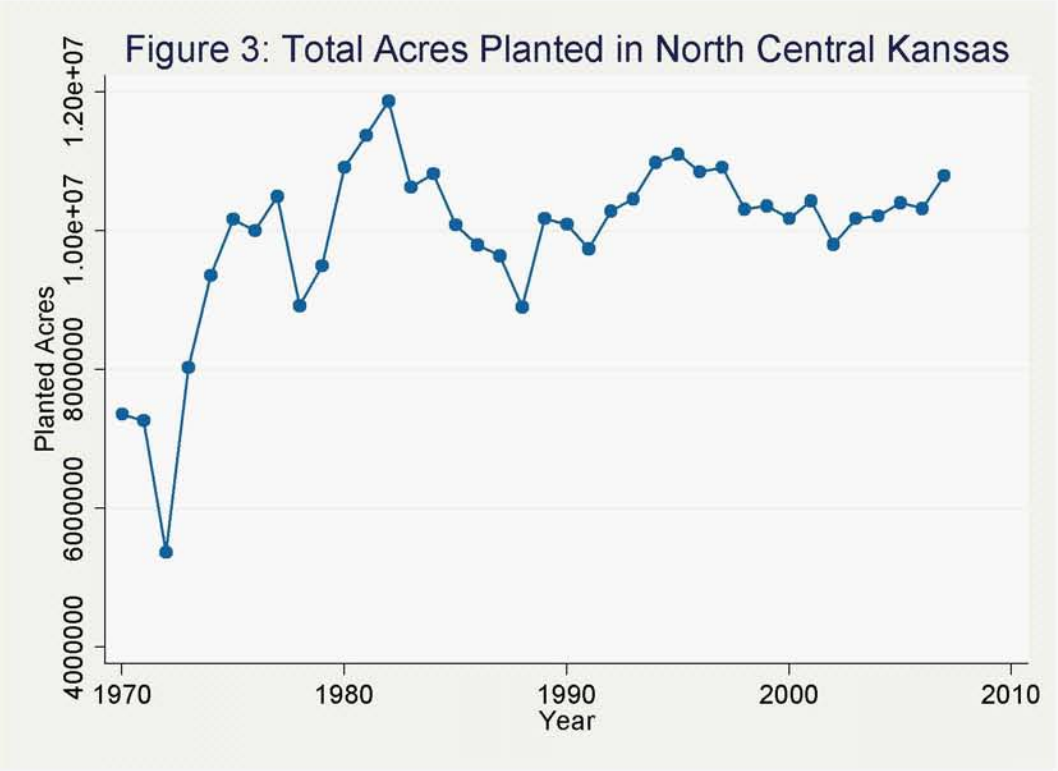
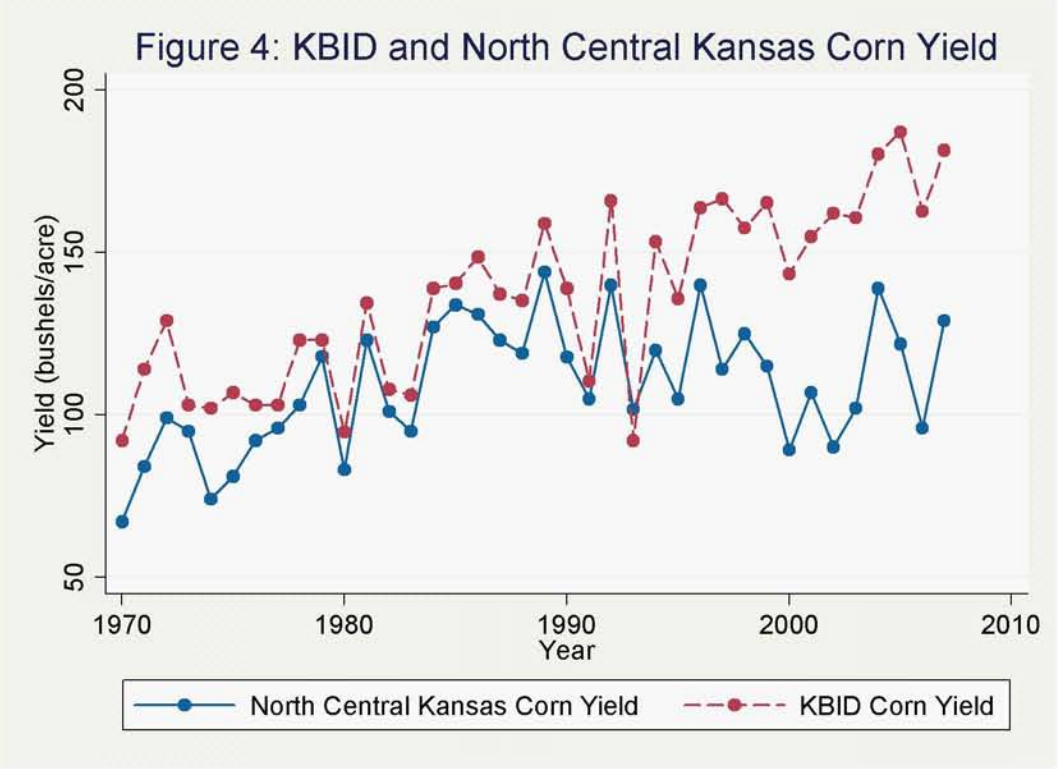
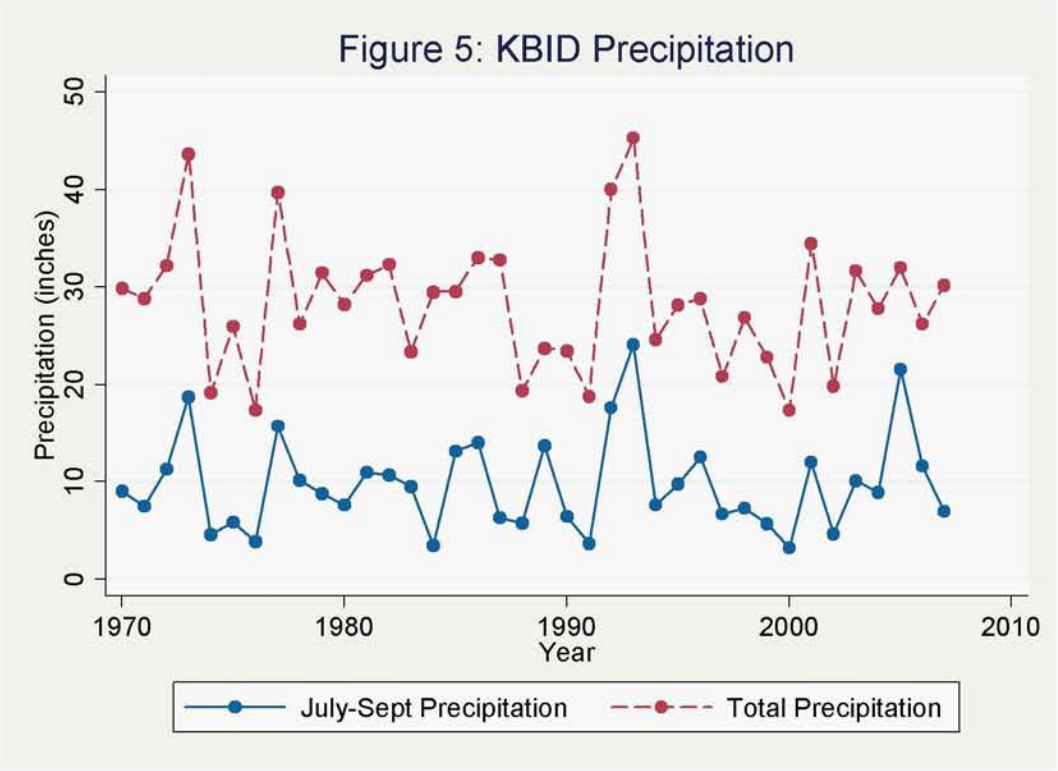


Figure 4 shows KBID and north-central Kansas corn yields (bushels per acre) between 1970 and 2007. **Despite the decrease in water diversions to KBID, and despite the predictions of the IPYsim model, corn yields actually peaked in KBID in 2005**. Additionally, for the past 15 years, and in every year since 2001, KBID corn yields exceeded those in the rest of the region.



The figure below shows total yearly precipitation and precipitation between July and September in KBID between 1970 and 2007. The relatively high total precipitation in 2005 and 2006 as well as the high July-September precipitation in 2005, may explain in part the large yields in KBID in those years.



The foregoing series of figures demonstrates that, at least in the relevant period 2005-2006, there was little direct correlation between the amount of Republican River water available to KBID and the crop yield within KBID. As a practical matter, the available data indicate that irrigation water from the Republican River had little marginal value as compared to the same volume of water, say, in the more arid regions of western Kansas and Nebraska. This circumstance may be due, in some measure, to the relatively wet conditions experienced during the period in question. At base, however, and as articulated further below, it is apparent that any shortage of water experienced as a result of Nebraska's overuse was of far less significance to KBID irrigators than Kansas assumes.

5. Analysis of Market Data

Whereas the Kansas approach relies heavily on untested assumptions and modeled scenarios, a more realistic approach utilizes actual market data to better define the true value of water in North-Central Kansas. Market data also provide a way to test the validity of the predictions of the IPYsim framework. These data also suggest an alternative approach to damages that is both more straightforward and more accurate than Kansas' complicated method.

A. Land Rents

Access to water is a characteristic of land. In a competitive land market, farmers may be willing to pay more for irrigated land than non-irrigated land. Importantly, the price difference between irrigated and non-irrigated land will measure the implicit value of irrigation, otherwise, the market price of land would adjust up or down to equate demand and supply for that characteristic.

This line of reasoning is fundamental to what economists refer to as hedonic analysis, which is one of the most important techniques of environmental and resource economics. Hedonic analysis is frequently used to measure willingness to pay for various characteristics of land such as access to transportation infrastructure, local weather conditions, and soil quality. Differences in the price of land between, say, good and poor soils allows the economist to infer farmers' willingness to pay to farm on good soil as opposed to poor soil. In a competitive market, this willingness to pay should be equal to incremental profit. In this way, comparing Kansas' claims regarding the marginal value of irrigation water to market data on land price differentials is a good way to assess their validity.[7]

Kansas State University publishes market rental rates for cropland in Kansas, including the north-central region where KBID is located.[8] The difference between rental rates for irrigated and non-irrigated cropland was $34 per acre in 2005 and $33 per acre in 2006. The average difference in land rents for these two years was $33.50 per acre. To express these values in units of water, it is necessary to divide the price difference by the amount of irrigation water used per acre. At a long-run average of 15 inches per acre in KBID, the implicit price of irrigation water in the region is an average of $26.8 per acre-foot across the two years.

Comparing the market price of irrigation water to Kansas' analysis shows that their theoretical estimates of the value of water are severely overstated (by approximately 200% and 400%). Table 14 of Kansas' analysis indicates that their optimization model predicts a water value of $85.27 in KBID in 2005 and $121.35 in 2006. These values are well in excess of what farmers actually pay for access to water in the North-Central region of Kansas, and thus should be viewed with skepticism.

B. Irrigated Acres

Other aspects of Kansas' analysis can be evaluated by examining market data. In this section, I consider the relationship between KBID irrigated acres and diversions, modeling the area above and below Lovewell separately. I specify a relationship between irrigated acres and water diversions and control for any fixed effects by adding a variable for the total number of acres planted in north-central Kansas. This variable should capture any general trends in crop production, such as a government subsidy program or a spike in input prices.

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[7] I note that Kansas' analysis contains no such comparison.
[8] Dhuyvetter, K. and T. Kastens, "Kansas Land Prices and Cash Rental Rates," Kansas State University, Farm Management Guide MF-1100, September 2008.

I use the Bayes Information Criterion (BIC) to select between a log-log, loglinear or linear specification. The criterion strongly preferred the log-log specification for both the above and below Lovewell regressions (hereafter I use a natural log). Because it is possible that farmers' irrigation decisions might be influenced by the prior year's irrigation decisions, I test for serial correlation using the Durbin-Watson test. The Durbin-Watson statistic indicated that serial correlation does not exist in the area above Lovewell and that there is evidence of some serial correlation for the regression below Lovewell (statistic of 1.0023), but that it is not below the generally accepted level (less than 1) of significance.

An equation describing the irrigated area above Lovewell can be written as:

$$\ln(I_t) = \alpha + \beta \ln(D_t) + \phi \ln(P_t) + \varepsilon_t$$

Where I_t is the number of irrigated acres above Lovewell in year t, D_t is the acre feet of diversions above Lovewell in year t, P_t is the total number of acres planted in north-central Kansas in year t, and ε_t is the error term. The above equation can be appropriately adjusted for the area below Lovewell.

I use ordinary least squares to estimate a model of the natural log of irrigated acres above Lovewell as a linear function of the natural log of diversions above Lovewell, and the natural log of planted acres in the north-central Kansas region for the years 1970-2007. Table 3: Regression Results for Above Lovewell Model lists the estimation results for the area above Lovewell. Table 4: Regression Results for Below Lovewell Model lists the estimation results for the area below Lovewell.

Table 3: Regression Results for Above Lovewell Model

Regress ln Irrigated Acres Above on ln Diversions Above and ln NC Region Planted Acres						
Source	SS	df	MS		Number of obs = 38	
					F(2, 35) = 72.49	
Model	8.7674	2	4.3837		Prob > F = 0.0000	
Residual	2.1167	35	0.0605		R-squared = 0.8055	
Total	10.8841	37	0.2942		Adj R-squared = 0.7944	
					Root MSE = 0.24592	
ln Irrigated Acres Above	Coefficient	Standard Error	t	P>|t|	[95% Conf.	Interval]
ln Diversions Above	0.652	0.054	12.04	0.000	0.542	0.762
ln NC Region Planted Acres	0.161	0.279	0.58	0.568	-0.406	0.728
Constant	0.106	4.558	0.02	0.982	-9.148	9.360

Table 4: Regression Results for Below Lovewell Model

Regress ln Irrigated Acres Below on ln Diversions Below and ln NC Region Planted Acres

Source	SS	df	MS	Number of obs = 38
				F(2, 35) = 7.81
Model	0.2406	2	0.1203	Prob > F = 0.0016
Residual	0.5390	35	0.0154	R-squared = 0.3086
Total	0.7796	37	0.0211	Adj R-squared = 0.2691
				Root MSE = 0.1241

ln Irrigated Acres Below	Coefficient	Standard Error	t	P>|t|	[95% Conf.	Interval]
ln Diversions Below	0.143	0.060	2.40	0.022	0.022	0.264
ln NC Region Planted Acres	0.441	0.141	3.13	0.003	0.155	0.727
Constant	1.370	2.352	0.58	0.564	-3.405	6.144

Above Lovewell, diversions explain nearly all of the variation in irrigated acreage, whereas regional planting behavior is statistically significant in the area below. Because I specify a log-log model, the estimated coefficients on the variables can be interpreted as elasticities. What the above results reveal is that a one percent increase in the average annual diversions would result in a 0.65% increase in the number of irrigated acres in the area above Lovewell, and only a 0.14% increase in irrigated acres in the area below.

The Kansas analysis contains a claim about the impact of KBID diversions on irrigated acreage. In particular, the analysis states that if Nebraska had complied with the Decree in 2005 and 2006, irrigated acres above Lovewell would have been 13,006 in 2005 and 12,991 in 2006. Below Lovewell, their analysis claims that irrigated acreage would have been 25,429 in 2005 and 25,938 in 2006.

Using the econometric analysis described in this section, it is possible to evaluate these claims using the historic relationship between diversions and acreage in KBID. Using Book's estimate of the reduction in KBID deliveries above and below Lovewell for 2005 and 2006, the statistical model forecasts that irrigated acreage above Lovewell would have been 7,177 in 2005 and 9,394 in 2006. Below Lovewell, the corresponding quantities are 22,087 and 22,069 in 2005 and 2006. Thus, Kansas' claims regarding reductions in irrigated acreage in KBID, particularly for the area above Lovewell, appear to be overstated.

C. Yield

Kansas' analysis makes a series of claims about the loss in yield resulting from water shortage in KBID. Because corn yield data are only available at the KBID level I specify a model where corn yield is a function of total diversions in KBID, a regional variable, corn yield in north-central Kansas (that controls for any general effects such as technological change or weather conditions) and an interaction term with the north-central Kansas corn yield and the KBID diversions. The interaction term controls for any effects that vary in the north-central region with KBID diversions, isolating the effect of

changes in corn yields in north central Kansas that are due to KBID diversions from those that vary generally in the region. I specify the model as:

$$C_t = \alpha + \beta D_t + \gamma NC_{t+} \phi_t NC_t * D_t + \varepsilon_t$$

Where C_t is the KBID corn yield in year t, D_t is the amount of diversions to KBID, NC_t is the north-central region corn yield, and ε_t is the error (where t is 1970-2007). [9] Regional corn yield proxies for weather and other conditions affecting corn yields in the relevant portion of Kansas.

The Durbin-Watson statistic is less than one (0.63) for this model, so I use the Prais-Winsten transformation to correct for autocorrelation. The transformed Durbin-Watson statistic is 2.60. Table 5 lists the estimation results for this model. The estimated effect of KBID diversions on corn yield is positive and significant at the 10% level, indicating that increased water use increases farm-level productivity for this crop. The negative interaction term with regional yield suggests that the marginal productivity of irrigation is highest when weather conditions (including precipitation) are the least favorable. These results are generally consistent with standard results in irrigation economics and with the broad assertions of the Kansas analysts.

Table 5. Regression Results for KBID Corn Yield Model

Prais Regression KBID Corn Yield on KBID Total Diversions and NC Region Corn Yield and Interaction of NC Corn Yield with KBID Diversions

Source	SS	df	MS	Number of obs = 38
Model	12631.097	3	4210.366	Prob > F = 0.0000
Residual	7108.9048	34	209.0854	R-squared = 0.6399
Total	19740.002	37	533.5136	Adj R-squared =0.6081
				Root MSE = 14.46

KBID Corn Yield	Coefficient	Standard Error	t	P>|t|	[95% Conf.	Interval]
KBID Total Diversions	0.00092	0.00054	1.71	0.097	0.000	0.002
NC Region Corn Yield	1.42761	0.32360	4.41	0.000	0.770	2.085
Interaction of NC Corn Yield with KBID Diversions	-0.00001	0.00001	-1.49	0.145	0.000	0.000
Constant	-26.65299	38.87611	-0.69	0.498	-105.659	52.353

Where this statistical analysis diverges from the Kansas modeling approach is in the size of the yield effect. I use the above regression results to predict the reduction in KBID corn yields due to Nebraska's overuse of water. The table below shows the predicted reduction in yields using Book's water shortage estimates (22,384 acre feet in 2005 and

[9] Although the BIC was high for this model (315) I did not use a log specification because of collinearity among the variables in the log form.

18,988 acre feet in 2006). Yield reductions based on the actual relationship between yield and water use are much smaller than those predicted by Kansas optimization model. Table 6: Reductions in KBID Yields Due to Water Shortage indicates that yield loss in 2006 was less than 4 bushels per acre, and was even smaller in 2005 (the year of record corn yields in KBID).

Table 6. Estimated Reduction in KBID Yields Due to Water Shortage

	Diversions	Predicted (bushels/acre)
	2005	
	Actual	147.91
Corn Yield	Actual + Shortfall	148.24
Reduction in Corn Yield		*0.32*
	2006	
	Actual	118.41
Corn Yield	Actual + Shortfall	122.36
Reduction in Corn Yield		*3.96*

One possible explanation for the small estimated effect of surface diversions on KBID corn yields is the ability of some growers to substitute groundwater for lost surface water supplies. As discussed above, there are a substantial number of commingled acres in KBID where farmers can irrigate with groundwater. The availability of groundwater was not mentioned in Kansas' analysis at all.

Another factor contributing to the small estimated yield effect in 2005 and 2006 is the fact that summer precipitation was high in 2005 and roughly average in 2006. Natural precipitation is also a substitute for surface water supplies, a fact reflected in the coefficients of the estimated yield model.

6. Estimated Damages Based on Market Data

As noted above, a more realistic assessment of actual damages would rely less on theoretical model inputs and untested assumptions. The better approach is to review real-life market data to determine the true value of water to farmers in North Central Kansas. The difference in cash rents between irrigated and non-irrigated land provides a valid basis for estimating the direct loss from any perceived water shortage. An implicit market price of $26.80 per acre-foot is observed for irrigation water in North-Central Kansas. **To obtain an estimate of direct loss, this market price is simply multiplied by the number of acre-feet lost at the farm level in Kansas as a result of Nebraska's overuse**.

A. Inside KBID

Book estimates that in 2005 an additional 22,384 acre-feet of water would have been delivered to farms in KBID. In 2006, this figure is 17,734 acre-feet, for a two-year total of 41,372 acre-feet. Multiplying this volume of water lost by farmers' observed willingness to pay for water, I arrive at a damage total of, at most, $1,108,770 for 2005 and 2006 together. Of course, this represents the outer boundary of any actual damage assessment taking Book's analysis at face value.

Due to time constraints associated with this Arbitration and certain information gaps, I could not explore the impact of, among other factors, the availability and use of alternative supplied (e.g., groundwater pumping) or subsidy payments (e.g., CRP, CREP or comparable prevented planting payments) on this maximum damage figure. If those factors are evaluated, I am confident that this maximum damage figure would be reduced, perhaps substantially.

The damage figure is also predicated on expectations with respect to farm-level water use. As described above, I set these expectations equal to the water entitlement in KBID, which is also close to water use per acre over a period of several decades. As described above, 2005 and 2006 were years in which even non-irrigated yields were well above average, and in fact at record levels in 2006. It is likely that the direct losses of $1,108,770 for these years are an overestimate of the lost profits resulting from water shortage in 2005-2006.

Nebraska's hydrology experts (The Flatwater Group), whose report I have reviewed, have advanced somewhat lower figures for the reduction in farm level water use in 2005 and 2006. Nebraska's estimates of farm-level water losses are 11,559 in 2005 and 9,015 in 2006. Using these shortage estimates and the same market price of irrigation water produces a damage estimate of $551,383. Again, it is likely that this figure overestimates actual losses inside KBID.

B. Outside KBID

In addition to these losses experienced by KBID farmers, there is some dispute about losses resulting from reductions in return flows caused by Nebraska's overuse of water. Kansas' economic experts addressed this issue by prorating their damage calculation to account for water shortages outside of KBID. Adopting the same procedure, I can also calculate losses from reduced return flows.

Kansas has asserted that losses outside of KBID totaled 4,693 acre-feet in 2005 and 2006. Nebraska's view is that these losses are 2,369 acre-feet. Using the same value of irrigation water, I conclude that return flow losses are between $69,489 and $125,772.

Totaling the losses in and outside of KBID, I conclude that Kansas' direct losses from Nebraska's overuse of water in 2005 and 2006 are between $614,872 and $1,234,542.

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Non-Binding Arbitration Initiated 10/21/08
Pursuant to
Decree of May 19, 2003, 538 U.S. 720
Kansas v. Nebraska & Colorado
No. 126, Orig., U.S. Supreme Court

Economic Impacts on Kansas of Diminished Surface Water Supplies to the Lower Republican River Basin Caused by Nebraska in 2005 and 2006

by

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January 20, 2009

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Economic Impacts on Kansas of Diminished Surface Water Supplies to the Lower Republican River Basin Caused by Nebraska in 2005 and 2006

Executive Summary

This report provides methods, assumptions, and estimates related to the economic losses to Kansas resulting from the state of Nebraska's being out of compliance with the terms of the Final Settlement Stipulation approved by the May 19, 2003 Supreme Court Decree in *Kansas v Nebraska & Colorado*, No. 126, Orig. (the Decree). Irrigated crop producers with classified irrigated acreage within the Kansas Bostwick Irrigation District (KBID) incurred losses in crop revenues and profits. The analysis considered losses that irrigated crop producers incurred in 2005 and 2006 due to violations of the Decree by Nebraska. The analysis took into account location (above and below Lovewell Reservoir), irrigation technology (flood and center pivot), as well as the impact of expected crop mix changes in the face of expectations of reduced water availability.

Although a smaller number than those within KBID, irrigators outside of KBID also suffered economic damages by reduced flows in the Republican River. To derive an estimate of these damages this analysis assumed non-KBID irrigators had irrigation cost structures similar to the KBID irrigators. Finally, in addition to the direct economic impacts to producers of irrigated crops, this report also estimated the indirect economic impacts to the Kansas economy.

This report used water quantity shortages experienced by Kansas irrigators due to Nebraska being out of compliance with the Decree. The estimated water shortage quantities were based on Book (2009) and were evaluated at the farm headgate. The shortages to KBID irrigators were 22,384 acre feet in 2005 and 18,988 in 2006. For non-KBID Kansas irrigators the quantities were 4,432 acre feet in 2005 and 4,693 in 2006.

This analysis relied heavily upon information provided by KBID in its annual reports. Where such data were not available to develop the required estimates we used data from the USDA's National Agricultural Statistics Service (NASS) for either the north-central crop reporting district of Kansas or for the three counties most directly associated with KBID: Cloud, Jewell, and Republic. We analyzed all major crops considered for irrigation in KBID: wheat, corn, milo (grain sorghum), soybeans, sunflowers, ensilage, and alfalfa.

This analysis answers the question, How would crop yields, revenues, costs, water use, etc. have differed had water been available to KBID and other Kansas water users in 2005 and 2006 as required by the Decree? As such, our study relied on models of crop yield response to irrigation water. Our models were based on Kansas State University (KSU) research and developed using expected yield response to water data reported in Stone et al., 2006.

This study estimated not only the value of irrigation water where it was not available but also the value of additional quantities of irrigation water where only limited amounts might otherwise be available. Therefore, an expected crop yield at differing quantities of irrigation water was estimated. The estimated yields were then used to develop an estimate of what irrigated yields would have been had water been available as per the Decree.

Differences in actual and/or expected crop yields were multiplied by crop price to obtain the additional revenue that would have been obtained had water been available as per the Decree. For establishing expected crop production costs associated with different water availability scenarios, Kansas State University (KSU) crop- and region-specific crop budgets were used. Most fixed costs for non-irrigated production were estimated to be the same as for irrigated production – since producers are severely limited in the short run from making changes to these inputs across different amounts of irrigation water availability.

To make clear our analytical procedures, we first estimated the value of Kansas' water shortage by assuming irrigators could get all the irrigation water they economically desired. This analysis was one that compared KBID producers having optimal (profit-maximizing) irrigation water in 2005 and 2006 to the amounts they actually received from KBID in those years. But, since expectations of all desired water is probably optimistic, we next considered the case where the optimal water quantity desired by KBID irrigators exactly matched what would have been available to them under the Decree, i.e., what they actually received plus the estimated shortage as reported by Book (2009), for each of 2005 and 2006. In this latter analysis, the lost profit for the KBID producers is $85.27 per acre-foot in 2005 and $121.35 in 2006. The water shortages caused by Nebraska resulted in a direct loss to Kansas irrigators of $2,286,708 in 2005 and $2,873,784 in 2006.

Economic impacts emanate beyond the direct economic impacts to producers of irrigated crops (Supalla et al., 2006). This is due to the interconnected nature of the economy. Businesses buy from and sell to other businesses. Labor earns wages and salaries that are used to purchase household goods and services. Thus, when an economic impact occurs on the farm, it sets in motion a "ripple" effect that impacts interlinked economic sectors elsewhere in the economy. The Kansas state economy was modeled in a detailed accounting system called a Social Accounting Matrix (SAM), which estimates the indirect economic effects that are known to accompany the observable direct economic changes.

It was estimated that the initial impact of the total gross income losses reduced Kansas household disposable income by $1,727,587 in 2005 and $2,171,117 in 2006. These values, when applied to the Kansas SAM, resulted in an indirect economic impact of $1,019,625 in 2005 and $1,276,281 in 2006. Evaluated at the vantage point of December 31, 2008, the total impact to the state of Kansas sums the total gross income loss (i.e., the direct loss to irrigators) with the indirect economic impacts and appropriate interest charges to yield the total economic damages to the state of Kansas. These were estimated to be $4,221,672 for 2005 and $4,858,780 for 2006, which sums to a total of $9,080,452 in 2008 dollars.

The estimation of the direct profit loss to producers was based on assumptions relative to the producers' response to diminished water supplies, the response of crop yield to applied irrigation water, crop revenues, and measures of variable and fixed expenses. The estimation of indirect impacts was based on assumptions pertaining to the income distribution of impacted producers and their purchasing patterns.

Economic Impacts on Kansas of Diminished Surface Water Supplies to the Lower Republican River Basin Caused by Nebraska in 2005 and 2006

I. Economic Impacts Associated with Reduced Water Supplies

When agricultural water use is restricted, crop production, in all likelihood, will be reduced and producers and local communities will incur negative economic impacts. These direct economic impacts ripple through the economy, creating additional indirect impacts. The short term magnitude of these impacts depends upon the magnitude of the water use reductions and the relative economic importance of agriculture to the affected communities.

II. Estimating the Reduction in Agricultural Output

A reduction in agricultural output results in a direct negative economic impact to the regional economy. The magnitude of the reduction in agricultural profits defines the farm level economic impact (*EI*), which is simply the difference between the estimated profits that were actually observed (P_A) and the expected profits (P_E) had water been available as required by the Final Settlement Stipulation approved by the May 19, 2003 Supreme Court Decree in *Kansas v Nebraska & Colorado*, No. 126, Orig. (the Decree). The direct economic impact (*EI*) can be defined as

$$EI = P_E - P_A,$$

where P_A designates actual observed profit when water is restricted and P_E designates the profit when water is available under the Decree. The magnitude of the economic impact depends on several factors: 1) the magnitude of the water use reduction, 2) the current level of water use efficiency in the production process, 3) the number of acres involved, 4) the precipitation that occurred during the period, 5) the crop mix for the area, 6) crop yields that depend on crop-specific production functions, and 7) prices and costs. The data and assumptions associated with these factors, as well as their impact on the final economic estimate, are documented in the following sections.

What previously was called actual observed profit (P_A) consists of two components, the profit derived from limited irrigation crop production on the classified (as irrigable) acres that received water ($P_{A,I}$), and the profit derived from non-irrigated production on the classified (as irrigable) acres that did not receive water ($P_{A,N}$), but which would be irrigated if water were available. The profit when water is available (P_E) also has two components, the profit derived from fully irrigated production using center pivot technology ($P_{E,CP}$) and the profit derived from fully irrigated production using flood technology ($P_{E,F}$). The economic impact (*EI*) then can be redefined as

$$EI = (P_{E,CP} + P_{E,F}) - (P_{A,I} + P_{A,N}).$$

To a large extent, the economic impact will be determined by the crop choices made by producers, which are determined by their expectations of irrigation water availability. Since these expectations may vary within KBID, for the area above Lovewell Reservoir and the area below Lovewell Reservoir, the economic impacts (*EI*) were calculated separately for each area.

Profit (P) for a crop can be defined as

$$P = PR * Y - VC - FC,$$

where PR is the crop price, Y is the crop yield, VC are variable costs (fertilizer, fuel, etc.) associated with the crop's production, and FC are the fixed costs (land, equipment, etc.).

Losses associated with reduced irrigation water are greater in short-run economic settings (e.g., consider a farmer planning for an expected full-irrigation corn crop and finding that he has no water) than in long run economic settings (e.g., the farmer plans around an expectation of reduced water for the year, adjusting crop mixes and crop inputs accordingly).

A. Water Response Functions

This analysis answers the question, How would crop yields, revenues, costs, water use, etc. have differed had water been available to KBID and other Kansas water users in 2005 and 2006 as required by the Decree? As such, our study fundamentally depended upon models of crop yield response to irrigation water. But, since our analysis was specific to 2005 and 2006, the water response functions must also incorporate actual precipitation (we use the words precipitation and rainfall interchangeably in this report). Otherwise, we would not have been able to account for whether 2005 or 2006 were years that required more or less irrigation water than normal. Also, and this is especially true in years like 2005 and 2006 when fertilizer prices were historically high, care should be taken to account for meaningful economic interactions between the price of nitrogen fertilizer and irrigation water, at least for crops that depend heavily upon nitrogen, such as corn. In particular, the economic optimal input levels for nitrogen fertilizer and irrigation water are lower than for either input when it is considered by itself. Put another way, in areas where natural precipitation sufficiently substitutes for irrigation water, producers optimally apply higher rates of nitrogen fertilizer (and achieve higher crop yields) than in areas dependent upon irrigation to meet part of crops' water needs.

In 2005, Kansas State University (KSU) developed a water response function that incorporates each of the requirements noted above. We refer to this model as IPYsim (for irrigation and precipitation yield simulation). IPYsim was developed using expected yield response to water data reported in Stone et al., 2006, which were the same data underlying KSU's Crop Water Allocator (KSU-CWA). But, unlike KSU-CWA, IPYsim brought in the needed nitrogen information to better depict the economic optimal producer irrigation decision.[1]

B. Water Shortage

The purpose of this analysis was to place a value on water that was not delivered as required by the Decree. The quantities of water valued were taken from Book (2009) and were the result of estimations from a hydrological model as described in that report. These data are summarized in Table 1. This analysis valued only 50,497 acre feet of the total two-year state-line shortage of 78,960 acre feet. The difference between these

[1] Although it is not labeled as such, the IPYsim model is what underlies the Excel spreadsheet referred to as KSU-NPI_CropBudgets.xls, which can be found at http://www.agmanager.info/crops/budgets/proj_budget/decisions/, along with a paper that documents the associated techniques.

two numbers was not valued because a) it would be Kansas' part of the additional evaporation from Harlan County Reservoir and transportation losses that would have occurred had there been adequate water, or b) additional evaporative losses in Kansas, or c) return flows that would end up downstream in Kansas, for example, in Milford Reservoir. A water shortage of 41,372 acre feet to farms in KBID was valued, along with a shortage of 9,125 acre feet to non-KBID farms in the area, which used less irrigation water than they would have had it been available.

C. Acres

Irrigated acreage in KBID has varied over the years. The estimation of damages for KBID requires an estimation of the expected number of acres that would have been irrigated had water been available as per the Decree. This report estimated that 13,006 and 12,991 acres would have been irrigated in the KBID area above Lovewell Reservoir in 2005 and 2006, respectively. Likewise, it estimated that 25,429 (2005) and 25,398 (2006) acres would have been irrigated in the KBID area below Lovewell Reservoir. These estimates were based on the seven-year average proportion of the classified acres irrigated in the 1994 to 2000 crop years (Table 2). The KBID annual reports suggest that at the start of the crop season for these years there were no expected water use restrictions and, as such, these years represent the expected percent of classified acres (89.2%) that would have been irrigated had water use not been restricted. So, as an example, we estimated that 38,436 acres would have been irrigated in KBID in 2005 had water been fully available (i.e., 89.2% of the 2005 43,100 classified acres). Then, Table 2 shows that the estimate for the area below Lovewell would comprise 66.2% of these irrigated acres, and hence the 25,429 acres noted as an expectation of 2005 irrigated acres below Lovewell.

D. Irrigation Efficiency

Rogers et al. (1997) defines irrigation efficiency (E_I) as the percent of water that reaches the farm headgate *and* is used beneficially in crop production. Irrigation efficiency (E_I) can be defined as

$$E_I = 100(W_B / W_F),$$

where W_F is the water delivered to farm headgate, and W_B is the amount of water that is beneficially used in crop production. Season-long irrigation efficiency depends upon the coefficient of water application uniformity, water application rate, water delivery system capacity and length, sprinkler package if a sprinkler, soil type, field slope, irrigation timing, and individual management practices. Due to the variability in observed irrigation efficiencies, ranges of efficiencies are often reported (Table 3).

The estimation of expected water use requires a point estimate of irrigation efficiency for the different irrigation technologies. The irrigation technology survey, reported in KBID's annual report, indicates that there were 45.8 acres irrigated with subsurface drip technology (SDI) in 2006. Since the acreage irrigated with SDI is small and since reported efficiencies for SDI are comparable to those reported for center pivots, the SDI acres were considered center pivot acres in our analysis. For this report it was assumed

that flood irrigation technology has a season-long irrigation efficiency of 65%.[2] It was assumed that center pivot technology has a season-long irrigation efficiency of 90%.[3]

E. Irrigation Technology Mix

Center pivot technology has higher irrigation efficiency than flood technology. As such, an acre-inch of water used in the production of an irrigated crop would have a higher value when it is applied with center pivot technology than when applied with flood technology. KBID conducts a survey of irrigation technology every four years. At the present time, the KBID data are not available separately by location (above or below Lovewell Reservoir). This report assumed that the technology mix was the same for the area above Lovewell Reservoir as the area below Lovewell Reservoir. Additionally, it assumed that the percent of land irrigated with center pivot technology grew in a linear fashion between the 2002 and 2006 irrigation technology surveys (Table 4).

The irrigation technology survey included all classified acres in KBID. Based on previous assumptions, all classified acres would not have been irrigated had irrigation water been available as per the Decree (Table 2 shows irrigated percent of classified acres to be 89.2% during the 1994-2000 period). Additionally, we know that all classified acres were not irrigated in 2005 and 2006. This raises the question, What percent of the observed and expected irrigated acres was irrigated with center pivots? The assumption we used was that, because center pivot irrigation is associated with greater fixed costs than is flood irrigation, when producers decide to leave some land un-irrigated, they abandon flood acres before pivot acres. Thus, we estimated that any irrigated acreage is irrigated with center pivot technology up to the maximum available. As an example, Table 2 shows there to be 43,048 classified acres in KBID in 2006 (actual computations consider location-specific potential pivot acres). Table 4 shows that 42.0% of these acres could be pivot irrigated (i.e., 18,080 acres). We would expect a total of 38,389 irrigated acres in 2006 if water were available as per the Decree (i.e., 43,048 x 89.2%). So, in the irrigation cost and water efficiency calculations we use in our analysis, we assumed 47.1% center pivot and 52.9% flood in 2006. Comparable values for 2005 were 42.9% pivot and 57.1% flood. Finally, to ensure equal treatment of the fixed costs of ownership for irrigation equipment whether it was used or not, we used these pivot percentage breakouts against actual reported irrigated acres as well as the acreage presumed to be irrigated if water were available as per the Decree.

F. Precipitation

The amount of precipitation varies from year to year and has an impact on crop production and profitability. As growing season precipitation increases, non-irrigated crop yields are expected to increase and the variable cost of irrigated production should decrease because less irrigation water is required to get optimal yields. Both factors influence the economic impacts that occurred in 2005 and 2006. Growing season precipitation for 2005 and 2006 was used in models of crop yield.

[2] The point estimate for flood technology is the approximate midpoint of the ranges referenced in Table 3.
[3] The point estimate for center pivot technology is set above the midpoint of the ranges referenced in Table 3. The irrigation technology survey, reported in KBID's annual report, suggests that the population of center pivots in KBID is relatively new, which would suggest a higher efficiency than average.

Growing season precipitation can be defined as the precipitation that occurs prior to and during the growing season that can possibly be of beneficial use to crop production.[4] Table 5 reports the time frames used to calculate growing season precipitation by crop.

Monthly precipitation was obtained from the KBID annual reports. Based on these data, Table 6 reports the annual and calculated crop-specific growing season precipitation used in this report.

G. Crop Prices

Table 7 depicts crop price information used in this analysis. The loan-adjusted 2005 and 2006 crop prices were used in computing expected crop revenue in those years. The 1994-2000 averages only were used in model calibration, as described later.

H. Irrigated Crop Mix

This analysis depends on estimates of irrigated and non-irrigated crop mix, both above and below Lovewell, for each of the two study years 2005 and 2006, as well as for a scenario that likely would have played out had water been available as per the Decree in those years. KBID annually collects and reports information on irrigated crop mix across years, both above and below Lovewell, but it does not collect non-irrigated crop mix information. For that we used National Agricultural Statistics Service (NASS) data for the three counties most directly associated with KBID: Cloud, Jewell, and Republic. For the "Decree water available" scenario we assumed that KBID producers in 2005 and 2006 would have selected crops similar to the way they did in years 1994-2000.

Table 8 depicts the irrigated crop mix information used in this analysis. The zeroes in the above-Lovewell 2005 row indicate that the observed irrigated crop mix in 2005-2006 would have been different had adequate water been available as per the Decree. Thus, we used the 1994-2000 average for that scenario.

I. Non-Irrigated Crop Mix

During the 2005 and 2006 crop years, had water been available as per the Decree there would have been 13,006 (2005) and 12,991 (2006) acres irrigated in the KBID area above Lovewell Reservoir. Likewise, there would have been 25,429 (2005) and 25,398 (2006) acres irrigated in the KBID area below Lovewell Reservoir. But, a portion of these acres was irrigated and a portion was not irrigated in 2005 and 2006 (the portion above Lovewell in 2005 was 0). In order to calculate lost profits, it was necessary to develop estimates of the non-irrigated crop mix that was actually planted in 2005 and 2006. For that, we used NASS data for 2005 and 2006 associated with Cloud, Jewell, and Republic counties. To segregate irrigated from non-irrigated data when NASS reported only "total," Table 9 shows the non-irrigated crop mix information for this analysis. The 94-00 row in Table 9 is included only for comparison purposes.

[4] While the National Engineering Handbook applies the concept of growing season precipitation, it does not provide a formal definition. The National Engineering Handbook is published by the USDA Soil Conservation Service and is available at: http://www.info.usda.gov/CED/ftp/CED/neh15-02.pdf

J. Irrigated Crop Yield

Importantly, our analysis depended upon determining irrigated and non-irrigated crop yields in 2005 and 2006. Besides knowing what irrigated yields were in KBID during 2005 and 2006, we determined what irrigated yields would have been had water been available as per the Decree (referred to as fully irrigated). We started by establishing expected yields in 2006 given a simple linear time trend of yields observed in KBID during the period 1962-2006. Because some of the years had missing yields, especially for crops such as alfalfa and sunflowers, we computed the trend two ways. First, we used all observed data for a crop. Secondly, we used all observed data for a crop but dropped out observations associated with water-short years (i.e., 1991-1993, 2001-2006). Then, by crop, we used the maximum yield from the two methods as our expected fully-irrigated yield for 2006. We call these trend yields and use the same trend yield for 2005 as that determined for 2006. These trend yields are reported in Table 10.

Like many water response models, IPYsim depends on establishing a yield goal. As defined here, the yield goal is the expected crop yield given that neither nitrogen fertilizer nor water is limiting. Yield goals were calibrated so that, given long run nitrogen fertilizer and crop prices, and long run annual precipitation, IPYsim will simulate economically optimal yields equal to the trend yields already discussed. We used the 1962-2006 average annual precipitation of 28.22 inches (Table 6) as the expected annual precipitation. We used the average nitrogen fertilizer to crop price ratio (by crop) observed over the 1994-2000 time period for calibration, as well as a water cost also associated with that same time period. We used a nitrogen fertilizer price of $0.2162 per pound and the 1994-2000 crop prices reported in Table 7.[5] Water cost (a composite of center pivot and flood technology) for the 1994-2000 time period was estimated to be $0.3166 per net acre-inch applied (net is defined as after delivery efficiency is accounted for – see Table 3).[6] The calibrated yield goals are reported along with the targeted trend yields in Table 10.

Once IPYsim is calibrated for yield goals, the relevant annual precipitation (IPYsim depends upon annual, not growing season precipitation), crop prices, and nitrogen fertilizer prices can be applied, for each of 2005 and 2006, to derive model-expected crop yields given different water availability scenarios. Relevant annual precipitation was determined by adding to the 1962-2006 measure of 28.22 inches the difference between the year- and crop-specific growing season precipitation shown in Table 6. For example, the relevant 2005 annual precipitation for corn is 28.22 + (20.25 – 16.73), or 31.74 inches. Using the procedures already noted for price establishment, nitrogen fertilizer price was estimated to be $0.3267/lb in 2005 and $0.3740/lb in 2006. Similarly, water cost was estimated to be $0.9020 per net applied acre-inch in 2005 and $1.0236 in 2006.

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[5] NASS, in its Agricultural Prices Summary, reports spring-time annual prices for the nitrogen sources of anhydrous ammonia (82% N), urea (45% N), urea ammonium nitrate or UAN (28% nitrogen) and UAN (32% nitrogen). In our calculations we estimated the nitrogen fertilizer product mix to be 40% anhydrous ammonia, 35% urea, 12.5% UAN-28% and 12.5% UAN-32%.

[6] For estimating irrigation water costs we assume total head feet to be 79.3 for pivots (i.e., 10 feet of lift and 30 psi (pounds per square inch) at the sprinkler-pressurizing pump) and 23.1 head feet for flood (i.e., 0 feet of lift and 10 psi to pressurize the delivery lines). We compute an average cost across natural gas, diesel, and electricity fuel sources. We assume 0.885 water horsepower-hours (whph) per kilowatt-hours of electricity, 61.7 whph per 1000 cu feet (mcf) of natural gas, and 12.5 whph per gal of diesel. We assume 90% efficiency in conversion of engine hp to whph. Finally, for computing our water costs we use energy prices from the Energy Information Administration (http://tonto.eia.doe.gov/).

It is important to note that yield goals are not the maximum possible yields that can occur in any given year. Rather, they are merely expected yields given non-limiting irrigation water and nitrogen fertilizer (i.e., yields expected if irrigation water and nitrogen fertilizer were free). Also, model-expected yields from particular levels of crop inputs should be used as relative measures rather than as direct yield estimates. An especially good or bad year weather-wise likely would lead to higher or lower yields, respectively, regardless of crop input quantities. Accordingly, to derive the fully irrigated crop yield we expect in some year, say 2005, we multiplied the actual observed yield in that year times the ratio of the model-predicted yield when all desired irrigation water is available to the model-predicted yield when less than the desired amount of irrigation water is available (i.e., when the actual amount of water applied in 2005 is used).

The base yield modeling framework just described is most appropriate for corn since it is the crop where yield-response-to-irrigation data are most prevalent and the crop most frequently managed in an irrigation setting. Although agronomically and economically defensible, it is possible that this framework may not adequately capture certain aspects of producer behavior given unaccounted-for farm level decisions, especially for crops other than corn, and thus might predict desired crop-specific irrigation quantities that are not consistant relative to corn. In particular, 1994-2000 data from the Water Right Information System (WRIS) of the Division of Water Resources of Kansas suggest the following percentages of irrigation water for north-central Kansas, by crop relative to corn: milo 69.5%, soybeans 90.1%, alfalfa 75.1%, sunflowers 53.4%, and wheat 57.5%.[7]

Despite the historical values noted above for irrigation water use relative to corn, our models estimated slightly higher desired irrigation water quantities for soybeans than for corn and considerably higher desired irrigation water quantities for alfalfa than for corn. These differences could be due to various factors that are not accounted for in our profit-maximizing framework. For example, producers may not fully account for differences in optimal irrigation water associated with nitrogen fertilizer costs (soybeans and alfalfa generally require no nitrogen fertilizer). Or, producers may see higher costs (than we have estimated) associated with irrigating alfalfa relative to corn, especially with flood irrigation since alfalfa does not lend itself very well to furrow irrigation. Regardless of the reasons for the differences between our base models' expectations and historical other-crop-to-corn water use information, we estimated that our corn model was appropriate. Then, we adjusted water use for the other crops according to the percentages reported above. These amounts of irrigation water were then applied to the associated crop models to derive fully-irrigated yields. Finally, as described earlier, observed irrigated yields were multiplied by the ratio of model-expected yields under full irrigation to model-expected yields under partial irrigation to arrive at the crop yields we would expect to observe in 2005 and 2006 given that water were available as per the Decree (reported in Table 10 as expected yields, fully-irrigated). The various estimates of irrigation water amounts actually applied or desired to be applied, and consistent with the estimated crop yields shown in Table 10, are reported in Table 11.

[7] WRIS data are annual water use at the individual producer water right scale. To derive these suggested values, WRIS data were first cleaned by discarding observations reporting less than 0.1 acre feet of usage and above 5 acre feet of usage. An acres-weighted average (i.e., across water right owners) was developed for each county, followed by an acres-weighted average (across counties) to the north central crop reporting district, followed by an acres-weighted average (across year) to the 1994-2000 time period.

K. Non-Irrigated Crop Yield

Non-irrigated crop yields are reported in Table 12. They were taken from NASS-reported yields for Cloud, Jewell, and Republic counties. For a given year, the non-irrigated yields were assumed to be the same for below and above Lovewell.

L. Other Relevant Costs

We have already discussed fertilizer and irrigation water costs. Other relevant costs were taken from KSU-reported crop budgets, with some adjustments. For example, we estimated one hour of labor per acre of flood irrigated land, which compares to 0.5 hours for center-pivot-irrigated land. Annual depreciation and interest were computed separately for pivot and flood irrigation delivery systems.

In our analysis, some costs for non-irrigated crops were adjusted upwards from their typical non-irrigated crop budgets to reflect the fact that water shortages induced some acres to be non-irrigated when they otherwise would be irrigated. For example, we assigned the same land charge to non-irrigated crops as we did to irrigated crops, which is consistent with the fact that cash rents do not immediately adjust downwards to reflect anticipated water shortages. Moreover, the water tax was paid either way. Similarly, we assigned the same per-acre irrigation equipment charge, farm machinery depreciation, and interest charge to non-irrigated crops as we did to irrigated crops. Also, we assumed labor costs for non-irrigated production were the same as for irrigated production, which is consistent with the fact that farmers in this region of Kansas do not have outlets for their excess labor in the short run. We added 25% of the difference between irrigated and non-irrigated fertilizer charges to the non-irrigated crops to reflect the likelihood that extra fertilizer was applied in anticipation of additional water receipts. We added 33% of the irrigation fuel charges to non-irrigated crops to reflect the fact that irrigators are required to pay a demand charge. Finally, we added 50% of the expected irrigation equipment repairs to non-irrigated crops to reflect the fact that weather can cause unused irrigation equipment to deteriorate and be in need of repairs due to non-use.

M. Deriving the Value of Undelivered Water to KBID

The first valuation considered all desired water, valuing that total additional water on a "per-acre-foot at the farm headgate" basis. Then, we multiplied that per-acre-foot value by the 22,384 acre-feet in 2005 and the 18,988 acre-feet in 2006, which were the shortages at the farm headgates according to Table 1. This valuation is reported in Table 13.

Table 13 suggests that more than the Table-1 acre-feet shortages were desired at the farm headgates each year in order for KBID to receive its desired irrigation amounts. So, the per-acre foot lost profit value is merely multiplied by the Table-1 shortage to derive a value for the water shortage as per the Decree.

Our analysis depends upon estimating an average *per-unit* value of irrigation water. But, with diminishing returns to irrigation water, the first inch of water is worth more than the next, and so on. So, an average per-unit value of water depends critically upon the range of water quantities considered. As a top end to that range, Table 13 assumed all water economically desired by KBID irrigators. But, this is probably optimistic given the

water shortage quantities reported in Table 1. In particular, even if Nebraska were in compliance with the Decree, KBID irrigators would not expect to get all the water they desired. Rather, their water quantity expectation would be what they received plus what Table 1 says they were short. So, the appropriate top end of the water quantity range to use for computing an average per-unit value of water was less than that implied by Table 13, causing the appropriate average value per acre-foot to be higher than that reported in Table 13.

To appropriately estimate the average value per acre-foot of water we adjusted downwards the desired net irrigation amount and made corresponding reductions to nitrogen fertilizer (i.e., if less water were applied, nitrogen requirements also would decrease), until the adjusted *desired* additional (beyond what was received) irrigation water was exactly the amount that equates to the Table-1-reported shortage each year across KBID. Note that we performed this analysis at the aggregated above- and below-Lovewell scale since KBID could have re-allocated this additional water as desired. Table 14 reports the results of this analysis. This table shows that, for all Kansas irrigators impacted, the 2005 cost was **$2,286,708**, the 2006 cost was **$2,873,784**. We used these values as our measures of the direct economic impacts to Kansas irrigators.

III. Indirect and Total Economic Impacts of Reduced Water Supplies

A. Introduction

It is generally understood that economic impacts occur beyond those that can be observed directly. This is due to the interconnected nature of the economy. Businesses buy from and sell to other businesses. Labor earns wages and salaries that are used to purchase household goods and services. Thus, when an economic loss occurs, it sets in motion a "ripple" effect that impacts interlinked economic sectors elsewhere in the economy. The overall effect is typically greater than the direct effect by some increment of value. In this section, we estimated the value of the Kansas statewide indirect effects associated with diminished water supplies to the Lower Republican River Basin. Additionally, we combined the direct and indirect impacts and made adjustments for the time value of money.

To estimate the economic impacts, the Kansas state economy was modeled in a detailed accounting system called a Social Accounting Matrix (SAM). The SAM uses published government economic data to comprehensively account for all financial transactions occurring in the region at a point in time. The accounts show how all industry sectors, households, and other institutions are financially linked one to another. The accounting system provides a rich and detailed description of the economy. Economic changes can be tracked throughout the economy as the impact "ripples" through the various interconnected economic sectors, households, etc. This is more commonly known as the multiplier effect. By estimating the size of the multiplier effect, it becomes possible to determine the size and direction of the indirect economic effects that are known to accompany the observable direct economic changes.

B. Analysis Method

Social Accounting Matrix analysis is a system of accounting for the economic transactions occurring in a national, state, or regional economy over a period of one year. SAM analysis is an extension of input-output (I-O) analysis in that it accounts for a

wider variety of financial flows in the economy. A SAM model creates a computerized spreadsheet, charting the flow of dollars between local business sectors, households, government, and other non-local consumers of locally-produced goods and services. SAM analysis enables estimates of how spending in one area of the economy "ripples" through the economy to other sectors.

Consistent with the methods approved in the *Kansas vs. Colorado* case concerning the Arkansas River Compact (Whittlesey et. al., 1998), the SAM modeling system used for this analysis is the Micro-IMPLAN (IMpact analysis for PLANing) system developed by the U.S. Forest Service (Minnesota IMPLAN Group, Inc.). The IMPLAN system consists of the software necessary to construct economic accounts, an impact analysis routine, and national, state, and county-level data files containing information related to economic activity.

C. Geographic Scope of the Analysis

The geographic scope of the analysis was the state of Kansas. While the scope of the direct impacts analysis was confined to the area comprising and surrounding KBID, the indirect economic impacts are not limited thereto. This is because all of the indirect impact is associated with changes in household income levels. Household spending is most certainly not confined to a narrow geographic area as households travel significant distances to purchase needed household goods and services. Subsequent rounds of spending and re-spending spreads the impacts even more broadly. Thus, the indirect economic impacts were most appropriately modeled at the broadest geographic scale. Given that our interest was estimating damages to Kansas, the appropriate scale was the state of Kansas.

D. Timeframe of the Analysis

Our impact analysis was confined to 2005 and 2006. Specification of the timeframe is important insofar as it influences the nature of the direct and indirect economic impacts, explained further below. Data for the year 2004 were chosen to build the model used in this analysis. This year was chosen because of our extensive use of and confidence in these data. Absent any major structural change in the economy, the differences observed from year to year are generally small. Thus, a 2004 model was constructed and used to determine economic impacts for 2005 and 2006.

E. The Kansas IMPLAN Model

The Kansas IMPLAN model was constructed using standard procedures and solving for Type SAM multipliers. The multipliers constructed to measure the impacts associated with household spending were of primary interest (Type SAM). The Type SAM multiplier uses all of the information in the social accounting matrix to capture the effects of inter-institutional transfers. For households, the Type SAM multipliers use information about inter-institutional transfers to account for commuting, Social Security tax payments, as well as household income taxes and savings.

F. Analysis of the Direct Effects

To assess the indirect effects for 2005 and 2006, we assume an uncertainty in farmers' minds around the availability of water across years (long run) and for the season (short

run). As described earlier, this uncertainty would lead to some adjustments in farmers' production processes being made to mitigate the expected loss in profit associated with diminished water availability. But, in the face of such uncertainty, many such profit-protecting adjustments cannot be made, leaving the farmers with what effectively can be referred to as sunk costs that cannot be recouped. The value of water shortage numbers reported in Table 14 incorporate our estimates of such sunk costs and thus these were the direct impacts used to estimate the indirect effects.

Production expenses that are sunk cannot be reversed. Thus, there is little change in regional input purchases. There only is one place to absorb the losses in the near-term, which is through a reduction in farm profitability. The only economic sector available to adjust to this shock in the short term is household consumption. In the short term, there is nothing to offset this effect. Thus, 100 percent of the shock accrues to net household income change. In Table 14, it was estimated that net farm profits (farmers' household income) declined by $2,286,708 in 2005 and $2,873,784 in 2006 due to water shortages. This is the value of the direct economic impact to farm profitability and, thus, farm household income.

This scenario related to the direct effects is offered with one important caveat. The assumption is that there were no short term local market effects (local commodity price changes) associated with lower levels of commodity production. We do not believe any such market effects occurred.

G. Modeling Household Spending Changes

To model household spending changes, assumptions were made about which households were changing their spending behavior. IMPLAN has the capacity to model nine separate household income classes. No data are available showing household income distribution of Bostwick irrigators. It was assumed that one-third of the total income loss accrued to each of three income classes bracketed by $50,000 and $150,000 as shown in Table 15.

The first step required estimating disposable income for each household income class. We did this using information available in the SAM. Agricultural producers' profits are considered proprietary income. We took the proportion of proprietary income going to households to total proprietary income. This nets out employee contributions to social insurance as a leakage of household income. Then, for each household income class, we sum total commodity purchases. Dividing total commodity purchases by household proprietary income (net of social insurance contributions) yields the disposable income to proprietary income ratio. This process removed the proportion of household income used to pay taxes and savings. This ratio is shown for the three income classes in Table 15 together with the resulting values representing the decline of household disposable income spending. As a result, household disposable income spending declined by an estimated $1,727,587 in 2005 and $2,171,117 in 2006.

H. Indirect Impacts

Given the assumptions of the direct economic impacts, analysis of total impacts was straightforward. In the IMPLAN impact analysis, each of the three household income classes was shocked by its respective reduction in disposable income. IMPLAN uses a

national expenditure profile for each of the income classes and permits the value of imported commodity purchases to leak from the region (Kansas).

Shown in Table 16 are total indirect impacts to the state, as measured by value added. Value added is essentially equivalent to Gross Domestic Product which is the standard measure of economic performance at the national level. It consists of four components: employee compensation (wage and salary payments together with certain fringe benefits), proprietary income (payments received by self-employed individuals), other property type income (interest, rents, royalties, dividends and corporate profits), and indirect business taxes (primarily excise and sales taxes). This is a very broad measure of income and the best indicator of the change in the economic welfare of both the Kansas private and public sectors. In Table 16, the impacts distributed to Kansas industries are shown using a standard two digit North American Industry Classification System (NAICS) aggregation. The indirect impacts to Kansas were $1,019,625 in 2005 and $1,276,281 in 2006.

I. Adjusting Losses to Present Value

This report first estimates economic impacts for the years 2005 and 2006 without accounting for the time lag between when the economic impacts occurred and the present. For this computation we use the interest rate series reported by the Federal Reserve Bank of Kansas City for agricultural operating loans in the Tenth District, which encompasses both Kansas and Nebraska. The average quarterly-reported annual rates for 2006, 2007, and 2008 (only first three quarters) are 9.06%, 8.98%, and 7.43%, respectively. Table 17 summarizes the economic impacts in 2005 and 2006 and adds the interest necessary to bring them to present value as of December 31, 2008. At the time of ultimate settlement, appropriate interest charges would need to be added to the bottom line in Table 17 to account for interest due from December 31, 2008 to the date of payment.

IV. Summary

We estimated the direct loss suffered by Kansas farmers due to Nebraska's overuse of irrigation water to be $2,286,708 in 2005 and $2,873,784 in 2006. To estimate the indirect impacts associated with the direct losses to Kansas farmers in the area of the Kansas Bostwick Irrigation District in 2005 and 2006, we assumed, in the short term, that 100 percent of the direct impact accrued to household income. This direct loss to household income affected a wide variety of household goods and service purchases, requiring a state-wide perspective in assessing the indirect effects.

An IMPLAN state-scale model was used to assess the impact of changes associated with reduced household spending. After calculating the proportion of disposable income for three household income classes, we estimated that in-state household spending declined by $1,727,587 in 2005 and $2,171,117 in 2006. We estimated the indirect loss to the Kansas economy to be $1,019,625 in 2005 and $1,276,281 in 2006.

To account for the fact that economic losses to Kansas accrued before they will be compensated, an interest charge was added to the economic losses to bring them up to present value as of December 31, 2008. Total indirect impacts, together with the direct impacts and interest, account for all of the impacts to Kansas's private and public

sectors. The loss to the Kansas economy was estimated to be $4,221,672 for 2005, and $4,858,780 for 2006, which sum to a total of $9,080,452 as of December 31, 2008.

V. Tables

Table 1. Water Shortage Information (acre-feet).[a]

	2005	2006	Total
A. Water shortage at state line	42,860	36,100	78,960
B. Evaporation from Harlan County Reservoir[b]	1,341	2,717	4,058
C. Transportation loss in Nebraska	968	778	1,746
D. Adjusted water shortage at state line (A-B-C)	40,551	32,605	73,156
E. Water shortage at above-Lovewell farm headgates	10,947	8,801	19,748
F. Water shortage at below-Lovewell farm headgates	11,437	10,187	21,624
G. Total water shortage to KBID farms (E+F)	22,384	18,988	41,372
H. Evaporation and return flow part of shortage (D-G)	18,167	13,617	31,784
I. Return flows used outside of KBID	4,432	4,693	9,125
J. Total water shortage valued in this report (G+I)	26,816	23,681	50,497

[a] Table information was obtained or computed from Book (2009)
[b] Only Kansas' portion of evaporation

Table 2. Irrigated Acres in Kansas Bostwick Irrigation District.

Year	KBID Classified	KBID Irrigated	Above Lovewell	Below Lovewell	Irrigated, % of Classified	KBID Irrigated Acres,% Above	Below
1991[a]	42,488	30,881	7,680	23,201	72.7%	24.9%	75.1%
1992[a]	42,458	23,589	9,880	13,709	55.6%	41.9%	58.1%
1993[a]	42,537	33,858	11,153	22,705	79.6%	32.9%	67.1%
1994	42,523	34,933	10,792	24,141	82.2%	30.9%	69.1%
1995	42,523	38,485	12,357	26,128	90.5%	32.1%	67.9%
1996	42,574	35,431	15,188	20,243	83.2%	42.9%	57.1%
1997	42,574	38,985	13,282	25,703	91.6%	34.1%	65.9%
1998	42,574	38,486	12,702	25,784	90.4%	33.0%	67.0%
1999	42,650	38,788	12,708	26,080	90.9%	32.8%	67.2%
2000	42,650	40,711	12,691	28,020	95.5%	31.2%	68.8%
2001[a]	42,805	39,186	12,261	26,925	91.5%	31.3%	68.7%
2002[a]	42,922	39,442	12,451	26,991	91.9%	31.6%	68.4%
2003[a]	43,021	36,460	13,433	23,027	84.7%	36.8%	63.2%
2004[a]	43,114	23,035	0	23,035	53.4%	0.0%	100.0%
2005[a]	43,100	23,439	0	23,439	54.4%	0.0%	100.0%
2006[a]	43,048	28,579	5,925	22,654	66.4%	20.7%	79.3%
Average[b]	42,581	37,974	12,817	25,157	89.2%	33.8%	66.2%

[a] Years of short supply; start season with restrictions.
[b] Average is based on the years when water was not in short supply. Data are based on KBID annual reports. Minor modifications have been made to ensure total irrigated acres balances with the acreage above and below Lovewell.

Table 3. Ranges of Irrigation Efficiency for Center Pivot and Flood Technology.

Source	Flood	Center Pivot	Subsurface Drip
Rogers et al. (1997)	50% - 90%	70% - 95%	70% - 95%
KSU-CWA[a]	50% - 80%	85% - 90%	95%
UNL-WO[b]	50% - 75%	70% - 80%	NR[c]

[a] KSU-CWA: Kansas State University's Crop Water Allocator
[b] UNL-WO: University of Nebraska at Lincoln's Water Optimizer
[c] NR: not reported

Table 4. Historical Irrigation Technology Mix in KBID.

Year	Center Pivot	Flood[a]
1994[b]	4.0%	96.0%
1995	6.0%	94.0%
1996	8.0%	92.0%
1997	10.0%	90.0%
1998[b]	12.0%	88.0%
1999	15.8%	84.3%
2000	19.5%	80.5%
2001	23.3%	76.8%
2002[b]	27.0%	73.0%
2003	30.8%	69.3%
2004	34.5%	65.5%
2005	38.3%	61.8%
2006[b]	42.0%	58.0%

[a] Ditch and Pipe reported together as Flood
[b] Surveyed years; other years have been interpolated

Table 5. Periods Used in Growing Season Precipitation Calculations.[a]

Crop	Beginning Date	Ending date
Alfalfa	Apr 1	Sep 30
Corn	Apr 15	Aug 31
Ensilage	Apr 15	Aug 31
Milo	May 1	Sep 15
Soybeans	May 1	Sep 15
Sunflower	Jun 1	Sep 15
Wheat	Sep 15	May 15

[a] Kansas Crop Planting Guides (http://www.oznet.ksu.edu/library/crpsl2/l818.pdf) were used as guide for the starting dates and expert opinions were used as ending date.

Table 6. KBID Annual and Growing Season (by Crop) Precipitation in Inches.

	Annual	Growing Season Precipitation						
Time Period	Precipitation	Corn	Milo	Soybean	Alfalfa	Sunflower	Ensilage	Wheat
Normal[a]	28.22	16.73	16.73	17.03	12.82	13.37	16.73	13.37
2005	31.97	20.25	19.27	19.27	22.69	17.53	20.25	12.14
2006	26.18	15.34	15.84	15.84	19.56	12.42	15.34	10.37

[a] Normal is considered to be the 1962–2006 average.

Table 7. Crop Prices Used in Analysis.

Source	Year	Corn	Milo	Soybean	Alfalfa	Sunflower	Ensilage	Wheat
NASS District Level[a]	94-00	$2.18	$1.91	$5.40	$74.57	$0.0908	$17.12	$3.30
KBID Values for Crop Census[b]	2005	$1.50	$1.40	$5.00	$70.00	$0.1000	$20.00	$3.12
NASS District Level[a]	2005	$1.94	$1.55	$5.36	$74.00	$0.0865	$15.21	$3.12
FSA Loan Rates for KBID**	2005	$1.97	$1.81	$4.86	NA	$0.0911	NA	$2.77
KBID Values for Crop Census[b]	2006	$3.00	$3.00	$5.70	$100.00	$0.1000	$25.00	$4.19
NASS District Level[a]	2006	$2.62	$2.95	$5.20	$104.00	$0.1000	$20.54	$4.19
FSA Loan Rates for KBID[c]	2006	$1.95	$1.81	$4.85	NA	$0.0912	NA	$2.79
Price used in calibration[d]	94-00	$2.29	$2.06	$5.54	$74.57	$0.1004	$17.12	$3.41
Price used in analysis[e]	2005	$1.97	$1.81	$5.00	$70.00	$0.1000	$20.00	$3.12
Price used in analysis[e]	2006	$3.00	$3.00	$5.70	$100.00	$0.1000	$25.00	$4.19

Prices for alfalfa and ensilage, $/T; sunflowers, $/lb; others, $/bu
NASS ensilage prices based on 0.90*(8.0*corn price) +0.10*(8.0*corn price *0.8)
[a] Monthly average -- Oct price for corn, milo, soybeans; Jun price for wheat; Jul price for alfalfa; market year average for sunflowers (statewide price substituted for district prices for alfalfa and sunflowers)
[b] KBID did not report a wheat price; the NASS District price was substituted.
[c] FSA loan prices were the average for Cloud, Jewell, and Republic County, Kansas, for the stated year.
[d] Price used was the average of the greater of the NASS District prices and the average 2005-2006 loan prices.
[e] Price used was the greater of the KBID and associated loan prices.

Table 8. Irrigated Crop Mix.

Source	Year	Corn	Milo	Soybean	Alfalfa	Sunflower	Ensilage	Wheat
KBID above Lovewell	2005	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
KBID above Lovewell	2006	51.1%	8.0%	28.8%	11.9%	0.0%	0.2%	0.0%
KBID above Lovewell	94-00[a]	75.1%	0.3%	22.3%	2.2%	0.0%	0.1%	0.0%
KBID below Lovewell	2005	53.6%	5.1%	32.8%	7.2%	1.0%	0.2%	0.0%
KBID below Lovewell	2006	46.1%	1.4%	43.3%	9.2%	0.0%	0.1%	0.0%
KBID below Lovewell	94-00[a]	71.7%	0.5%	26.4%	1.3%	0.2%	0.0%	0.0%

[a] 94-00 is used to represent crop mix if water were available as per the Decree.

Table 9. Non-Irrigated Crop Mix.

Source	Year	Corn	Milo	Soybean	Alfalfa[a]	Sunflower[a]	Ensilage[b]	Wheat
KBID Counties (NASS)	2005	7.3%	20.7%	13.3%	3.9%	2.6%	0.4%	51.6%
KBID Counties (NASS)	2006	6.7%	17.9%	18.2%	4.0%	1.3%	0.5%	51.5%
KBID Counties (NASS)	94-00[c]	6.2%	26.6%	8.6%	4.3%	1.4%	0.4%	52.5%

[a] NASS-reported "all alfalfa" assumed to be 75% non-irrigated; "all sunflowers" assumed to be 100% non-irrigated
[b] Ensilage comprised of corn silage (assumed 33% non-irrigated) plus sorghum silage (assumed 90% non-irrigated)
[c] 94-00 is used to represent crop mix if water were available as per the Decree.

Table 10. Irrigated Yield Information.

	Year	Corn bu/ac	Milo bu/ac	Soybean bu/ac	Alfalfa T/ac	Sunflower lb/ac	Ensilage T/ac	Wheat bu/ac
Trend Yield[a]	for 2005-2006	169.7	110.1	61.1	6.2	2626.9		69.3
Yield Goal[b]	for 2005-2006	171.1	111.4	61.2	6.2	2654.9		70.0
Model Yield (fully irr.)[c]	2005	165.9	106.5	58.1	5.1	2458.8		65.0
Model Yield (fully irr.)[c]	2006	168.3	108.8	59.6	5.2	2406.3		66.4
Model Yield (actual irr.)[c]								
Below Lovewell	2005	150.5	105.1	53.6	4.9	2458.8		64.5
Above Lovewell	2005	120.3	90.3	43.1	4.2	2121.2		54.0
Below Lovewell	2006	142.6	103.7	52.5	4.7	2373.3		64.8
Above Lovewell	2006	133.9	99.9	49.7	4.5	2275.1		62.4
Actual Reported Yield								
Below Lovewell	2005	187.0	119.7	58.0	7.6	1330.2	14.3	62.1
Above Lovewell	2005	187.0	119.7	58.0	7.6	1330.2	14.3	62.1
Below Lovewell	2006	167.1	93.0	55.6	6.4	2205.9	23.9	60.9
Above Lovewell	2006	146.9	122.0	51.0	5.9	2107.2	19.9	58.1
Expected Yield (fully irr.)[d]								
Below Lovewell	2005	206.1	121.3	63.0	8.0	1330.2	29.6	65.0
Above Lovewell	2005	206.1	121.3	63.0	8.0	1330.2	29.6	65.0
Below Lovewell	2006	197.2	97.6	63.1	7.0	2406.3	28.4	66.4
Above Lovewell	2006	184.7	132.9	61.2	6.8	2406.3	26.6	66.4

[a] Trend yield is the expected yield in 2005-2006 given water is not limiting; wheat is based on a pre-determined yield goal of 70.
[b] Yield goal is selected in IPYsim to generate economically optimal yields equal to trend yields at long-run (1994-2000) fertilizer N and crop prices; wheat is arbitrarily set at 70.
[c] These model-expected yields are directly from IPYsim and take no account of actual yields observed in these years.
[d] Expected yields are derived by multiplying observed yield times the ratio of fully-irrigated to actual irrigated model yields.
General notes: Above Lovewell yields in 2005 assumed to be same as below Lovewell. Ensilage yields are assumed to be corn yields/6.9527.

Table 11. Inches of Water Applied Information.

	Year	Corn	Milo	Soybean	Alfalfa	Sunflower	Ensilage	Wheat
Water Delivered to Farm Gate[a]								
Below Lovewell	2005	5.78	5.78	5.78	5.78	5.78	5.78	5.78
Above Lovewell	2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Net Water to Crop[b]								
Below Lovewell	2005	4.38	4.38	4.38	4.38	4.38	4.38	4.38
Above Lovewell	2005	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Delivered to Farm Gate[a]								
Below Lovewell	2006	7.79	7.79	7.79	7.79	7.79	7.79	7.79
Above Lovewell	2006	6.12	6.12	6.12	6.12	6.12	6.12	6.12
Net Water to Crop[b]								
Below Lovewell	2006	5.98	5.98	5.98	5.98	5.98	5.98	5.98
Above Lovewell	2006	4.70	4.70	4.70	4.70	4.70	4.70	4.70
Desired Irrigation Water Delivered to Farm Gate								
Below Lovewell pivot	2005	9.11	6.33	8.21	6.84	4.87	9.11	5.24
Below Lovewell flood	2005	12.62	8.76	11.37	9.47	6.74	12.62	7.26
Above Lovewell pivot	2005	9.11	6.33	8.21	6.84	4.87	9.11	5.24
Above Lovewell flood	2005	12.62	8.76	11.37	9.47	6.74	12.62	7.26
Desired Net Irrigation Water to Crop[b]								
Below Lovewell	2005	8.20	5.70	7.39	6.16	4.38	8.20	4.72
Above Lovewell	2005	8.20	5.70	7.39	6.16	4.38	8.20	4.72
Desired Irrigation Water Delivered to Farm Gate								
Below Lovewell pivot	2006	13.44	9.34	12.12	10.09	7.18	13.44	7.73
Below Lovewell flood	2006	18.62	12.93	16.78	13.97	9.94	18.62	10.71
Above Lovewell pivot	2006	13.44	9.34	12.12	10.09	7.18	13.44	7.73
Above Lovewell flood	2006	18.62	12.93	16.78	13.97	9.94	18.62	10.71
Desired Net Irrigation Water to Crop[b]								
Below Lovewell	2006	12.10	8.40	10.91	9.08	6.46	12.10	6.96
Above Lovewell	2006	12.10	8.40	10.91	9.08	6.46	12.10	6.96

[a] Prorates KBID-reported water use over KBID-reported irrigated acres using same amount for each crop
[b] Assumes irrigation-technology-specific water delivery efficiencies and a blend of pivot and flood
Note that wheat is not particularly relevant because KBID reports no irrigated wheat.

Table 12. Non-Irrigated Crop Yield Information.

	Year	Corn bu/ac	Milo bu/ac	Soybean bu/ac	Alfalfa T/ac	Sunflower lb/ac	Ensilage T/ac	Wheat bu/ac
KBID Counties (NASS)	2005	94.6	86.1	38.8	3.1	1490.0	10.1	40.3
KBID Counties (NASS)	2006	67.3	73.8	29.9	2.7	1252.2	9.7	46.5

NASS-reported yields for Cloud, Jewell, and Republic counties helped derive these estimates.
Crop-mix estimates reported in Table 9 were used to fill in unreported-by-NASS information, along with an estimate that irrigated alfalfa, silage, and sunflower yields are double those of their non-irrigated counterparts.

Table 13. Value Based on All Desired Water.

	Below Lovewell	Above Lovewell	Total
2005			
In Kansas Bostwick Irrigation District (KBID):			
A. Total water desired at farm gate, ac-ft (C+D)	22,689	11,821	34,510
B. Desired inches per acre classified	9.20	10.51	9.61
C. Water delivered to farm gate, ac-ft	11,299	0	11,299
D. Additional water desired at farm gate, ac-ft	11,390	11,821	23,211
E. Lost profit from this water shortage	$465,152	$1,471,146	$1,936,298
F. Lost profit per acre-foot at farm gate (E/D)	$40.84	$124.45	$83.42
G. Water shortage at farm gate, ac-ft (Table 1)			22,384
H. Water quantity valued (min{D,G})			22,384
I. Value of water shortage at farm gate (FxH)			$1,867,345
Outside of KBID:			
J. Water shortage at farm gate, ac-ft (Table 1)			4,432
K. Value of water shortage at farm gate (FxJ)			$369,732
Value of water shortage, KBID + non-KBID (I+K)			**$2,237,077**
2006			
In Kansas Bostwick Irrigation District (KBID):			
A. Total water desired at farm gate, ac-ft (C+D)	32,955	17,232	50,187
B. Desired inches per acre classified	13.32	15.48	13.99
C. Water delivered to farm gate, ac-ft	14,711	3,023	17,734
D. Additional water desired at farm gate, ac-ft	18,244	14,209	32,453
E. Lost profit from this water shortage	$1,576,283	$1,546,160	$3,122,444
F. Lost profit per acre-foot at farm gate (E/D)	$86.40	$108.82	$96.21
G. Water shortage at farm gate, ac-ft (Table 1)			18,988
H. Water quantity valued (min{D,G})			18,988
I. Value of water shortage at farm gate (FxH)			$1,826,930
Outside of KBID:			
J. Water shortage at farm gate, ac-ft (Table 1)			4,693
K. Value of water shortage at farm gate (FxJ)			$451,537
Value of water shortage, KBID + non-KBID (I+K)			**$2,278,467**

Table 14. Value Based on Only Water Due.

	Below Lovewell	Above Lovewell	Total
2005			
In Kansas Bostwick Irrigation District (KBID):			
A. Total water desired at farm gate, ac-ft (C+D)	22,145	11,538	33,683
B. Desired inches per acre classified	8.98	10.26	9.38
C. Water delivered to farm gate, ac-ft	11,299	0	11,299
D. Additional water desired at farm gate, ac-ft	10,846	11,538	22,384
E. Lost profit from this water shortage	$445,564	$1,463,209	$1,908,773
F. Lost profit per acre-foot at farm gate (E/D)	$41.08	$126.82	$85.27
G. Water shortage at farm gate, ac-ft (Table 1)			22,384
H. Water quantity valued (min{D,G})			22,384
I. Value of water shortage at farm gate (FxH)			$1,908,773
Outside of KBID:			
J. Water shortage at farm gate, ac-ft (Table 1)			4,432
K. Value of water shortage at farm gate (FxJ)			$377,934
Value of water shortage, KBID + non-KBID (I+K)			**$2,286,708**
2006			
In Kansas Bostwick Irrigation District (KBID):			
A. Total water desired at farm gate, ac-ft (C+D)	24,113	12,609	36,722
B. Desired inches per acre classified	9.75	11.32	10.24
C. Water delivered to farm gate, ac-ft	14,711	3,023	17,734
D. Additional water desired at farm gate, ac-ft	9,402	9,586	18,988
E. Lost profit from this water shortage	$1,019,366	$1,284,904	$2,304,270
F. Lost profit per acre-foot at farm gate (E/D)	$108.42	$134.04	$121.35
G. Water shortage at farm gate, ac-ft (Table 1)			18,988
H. Water quantity valued (min{D,G})			18,988
I. Value of water shortage at farm gate (FxH)			$2,304,270
Outside of KBID:			
J. Water shortage at farm gate, ac-ft (Table 1)			4,693
K. Value of water shortage at farm gate (FxJ)			$569,514
Value of water shortage, KBID + non-KBID (I+K)			**$2,873,784**

Table 15. Annual Household Spending Changes.

Household Income Group	2005 Gross Income Loss	Disposable Income Factor	2005 Commodity Purchase Decline	2006 Gross Income Loss	Disposable Income Factor	2006 Commodity Purchase Decline
$50,000-$75,000	-$762,236	76.40%	-$582,357	-$957,928	76.40%	-$731,867
$75,000-$100,000	-$762,236	77.51%	-$590,784	-$957,928	77.51%	-$742,458
$100,000-$150,000	-$762,236	72.74%	-$554,446	-$957,928	72.74%	-$696,792
Total	-$2,286,708		-$1,727,587	-$2,873,784		-$2,171,117

Table 16. Kansas Value Added Impact Associated with Reduced Household Spending.

Industry	2005	2006
Ag, Forestry, Fish & Hunting	-$4,494	-$5,604
Mining	-$10,553	-$13,554
Utilities	-$24,165	-$30,434
Construction	-$5,294	-$6,616
Manufacturing	-$37,907	-$47,650
Wholesale Trade	-$64,310	-$80,946
Transportation & Warehousing	-$24,701	-$31,017
Retail Trade	-$127,242	-$161,080
Information	-$21,510	-$26,978
Finance & Insurance	-$80,241	-$101,114
Real Estate & Rental	-$51,082	-$64,310
Professional- Scientific & Technical Services	-$29,620	-$37,378
Management of Companies	-$7,230	-$9,260
Administrative & Waste Services	-$19,179	-$24,115
Educational Services	-$12,542	-$15,813
Health & Social Services	-$164,170	-$209,021
Arts- Entertainment & Recreation	-$13,665	-$17,072
Accommodation & Food Services	-$49,385	-$62,165
Other Services	-$52,180	-$65,581
Government & Non-NAICs	-$220,155	-$266,573
Indirect Value Added Impact Subtotal	-$1,019,625	-$1,276,281

Table 17. Summary of Economic Impacts.[a]

	2005	2006	Combined
Direct Gross Income Loss (Table 14)	$2,286,708	$2,873,784	N/A
Indirect Value Added Loss (Table 16)	$1,019,625	$1,276,281	N/A
Total Impact Before Interest	$3,306,333	$4,150,065	N/A
Interest	$915,339	$708,715	$1,624,054
Total Impact Evaluated at 12/31/2008	**$4,221,672**	**$4,858,780**	**$9,080,452**

[a] Interest compounded annually from end of years designated; interest rates are average quarterly rates for farm operating loans as reported by the Kansas City Federal Reserve Bank for the 10th District (only first three quarters in 2008). Rates used are 9.06% (2006), 8.98% (2007), and 7.43% (2008).

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Kansas Bostwick Bulletin

April – May – June 2007

SUPERINTENDENT'S SUMMARY

There has been much speculation about additional water for the 2007 season. Possible deals in Nebraska could provide additional water. A tremendous moisture event in late December and early January throughout the western part of the basin gave us a snow cover throughout the basin. Harlan County remains a wild card. The inflows to Harlan were very good during the snowmelt. However, the large inflows over 1,000 cfs only lasted a few days, dropping back to below average flows. In years past with that amount of snow cover, the river would have run bank full for weeks. Harry Strunk Reservoir north of Cambridge, Nebraska, is nearing the full stage, which would provide additional flows to Harlan County. Lovewell should be in shape to fill but is not there yet.

This Bulletin contains an article regarding the 1982 Reclamation Reform Act (RRA) reporting requirements, which will soon need to be completed. Please read the article and respond to us if necessary. Don Lieb would also very much appreciate anyone with a change in address (911 or other) to let us know so we can correct our mailing list.

It is burn and spray time of the year for our crew. Our regulations require all gates across patrol roads to be open or removed after the 1st of March. Your cooperation is greatly appreciated.

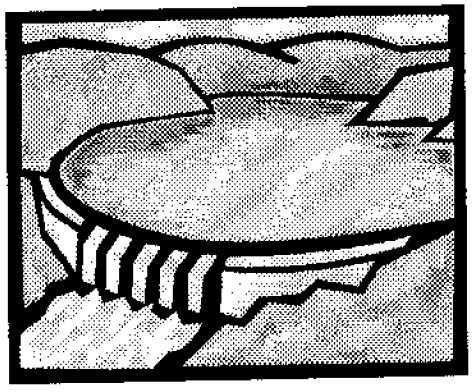
I have included a couple of pages from our Annual Report that I thought you would find interesting. One is on crop census and water use for 2006 and the other are the results of our 4-year survey of ditch – pipe – pivot irrigation in Kansas Bostwick.

ELECTION HELD IN MARCH

On March 6, an election for Director from Voting Area #1 was held at the Republic Community Center. Gary Housholder was reelected to serve as Director. Congratulations, Gary!

RECLAMATION REFORM ACT

It is that time of the year again to report changes in landholdings. We are required to keep records and report annually on all landholdings over 240 acres. If you have had changes to your operation since this time last year, and have not reported them to us, please do so immediately so the correct material may be mailed to you. Landholdings include landowners and or tenants. Changes in your own ownership, such as individual ownership to trust or other entity even though you control the trust or entity, must be reported. Correct RRA reporting is a requirement for receiving water from the district. Your help and cooperation is greatly appreciated.



2007 WATER SUPPLY

We have once again requested the Bureau of Reclamation to approach the Corps of Engineers to grant us a deviation allowing some additional storage in Lovewell. As of this writing, we remain lower in Lovewell than last year. However, under normal inflow conditions, Lovewell should fill to the same point as last year. It is too early to set restrictions, but the 5-6"/acre range seems reachable below Lovewell.

Harlan County has reached a point where irrigation water is being stored. At this time, no arrangements for additional water from Nebraska are in place. The amount of storage for Kansas Bostwick at this time or the estimate for this spring would not be enough to consider releasing. One could easily see supply increases above the estimate from additional rainfall, especially once Harry Strunk Reservoir fills. If this happens and a releasable supply is reached, we will inform you of the 2007 operating plan to deliver the water.

FROM THE FIELD

Some minor dirt work remains to be finished on one lateral project on the North Canal from last fall's work. A pipeline correcting the operation of 54.5-2.0 headgate will be installed and plans continue to bury the Miller 8.3 lateral this spring. With the more normal winter this year, fieldwork was very limited during January and February. We are busy preparing for our burn and spray operations throughout the district.

Some EQIP pivots and others have been added to KBID for the 2007 season. Changes to turnouts and other structures, may be required at the owner's expense to accommodate these pivots.

WHITE ROCK EXTENSION TUBE

In the July – December Bulletin, you were informed of problems with the White Rock Extension tube which crosses the Republican River near the Pawnee Indian Village. Field men from the Bureau of Reclamation reviewed the tube with Kansas Bostwick A few seams were in need of repair while the entire tube needs to be recoated on the inside. The tube was installed in 1960 and remains in good shape all in all. The recoating of the inside of the tube and repairing the seams has been contracted to Hess Services of Hays, Kansas. The tube will be sandblasted and painted with epoxy paint. The cost of this contract will be in the $70,000 range, depending upon how many seams have to be repaired.

DITCH PIPE PIVOT SURVEY

This survey was first run in 1990. Pivot acres were counted as pipe and the results was 54% pipe and 46% open ditch.

YEAR	OPEN DITCH	PIPE	PIVOT	DRIP	ACRES
2006	13%	45%	42%	0.0009	43,072
2002	17%	56%	27%		42,921
1998	29%	59%	12%		42,421
1994	38%	58%	4%		42,531
1990	46%	54%	0%		42,462

2006 CROP CENSUS – WATER USE

Above Lovewell delivered 3,023 af to 13,361 total irrigable acres = 2.7"/acre

corn – 3,028 acres actually irrigated	146.9 bu acre	value $1,334,883
sorghum- 474 acres actually irrigated	122.0 bu acre	value $ 173,718
alfalfa-705 acres actually irrigated	5.9 ton acre	value $ 414,800
silage - 13.5 acres actually irrigated	19.9 ton acre	value $ 6,680
soybeans-1,704 acres actually irrigated	51.0 bu acre	value $ 495,737

Total 5,925 acres **(44%)** per acre value $409 Total $2,425,818

3,023 af delivered to 5,925 acres = 6.1"/acre

Scattered deliveries were made from May 23rd to September 9th with Harlan County releases being made from June 22nd through July 16th for 25 days of release. It took six days for the first release to reach the state line and another day to build and make controlled releases. The influence of the Harlan County release lasted about five days after releases were shut off at Harlan to July 30th when the State of Nebraska ordered Guide Rock shut off. There were deliveries from draining the canal and an August 17th rain, which allowed us to make hit and miss deliveries until September 9th. Deliveries were made here and there during a span of 111 days. The Harlan County releases were made over a span of 25 days with the largest deliveries made in about a 14-day period.

Below Lovewell delivered 14,711 af to 29,687 total acres = 5.9"/acre

corn-10,434 acres actually irrigated	167.1 bu acre	value $5,231,156
sorghum-310 acres actually irrigated	93.0 bu acre	value $ 86,598
alfalfa-2,092 acres actually irrigated	6.4 ton acre	value $1,334,830
silage-14.4 acres actually irrigated	23.9 ton acre	value $ 8,625
soybeans-9,803 acres actually irrigated	55.6 bu acre	value $3,105,627

Total 22,654 **(76%)** per acre value $432 Total $9,775,783

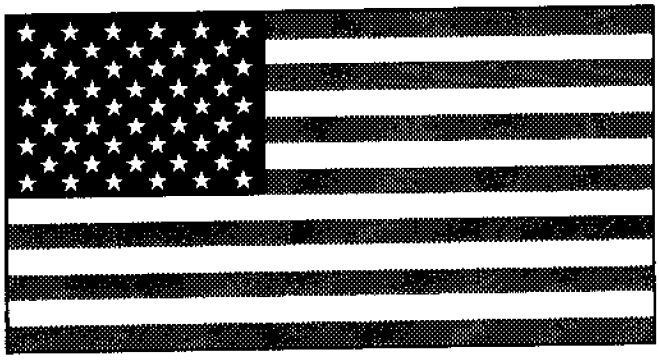
14,711 af delivered to 22,654 acres = 7.8"/acre

First deliveries below Lovewell were June 23rd and the last on August 17th for a total of 57 days.

District Total

corn-13,462 acres actually irrigated	162.6 bu acre	value $6,566,039
sorghum 785 acres actually irrigated	110.5 bu acre	value $ 260,317
alfalfa-2,797 acres actually irrigated	6.3 ton acre	value $1,749,670
silage-27.8 acres actually irrigated	22.0 ton acre	value $ 15,305
soybeans-11,507 acres actually irrigated	54.9 bu acre	value $3,601,364
animal units		value $ 8,946

Total 28,580 – 66% of total acres per acre value $427 value $12,201,642



THIS OFFICE WILL BE CLOSED ON
GOOD FRIDAY APRIL 6th AND
MEMORIAL DAY MAY 28th.

KANSAS

BOSTWICK IRRIGATION

DISTRICT

PERTINENT INFORMATION ABOUT KANSAS BOSTWICK

In 1958, the Kansas Bostwick Irrigation District #2 had 5 employees and delivered water to 10,043 acres.

In 2008 the Kansas Bostwick Irrigation District #2 will deliver water to over 43,000 acres serving approximately 350 landholders and employs 16 persons.

A 3 person elected Board of Directors governs the district.

The District is a Political subdivision of the State of Kansas and under contract with the United States Bureau of Reclamation for water service and repayment as part of the Pick-Sloan Missouri Basin Plan.

Kansas Bostwick Irrigation District #2 holds Kansas water right # 385 granted in 1948 for flows from the Republican River and water right # 4673 granted in 1955 for flows from White Rock Creek.

Kansas Bostwick Irrigation District #2 receives Republican River natural flows and storage flows from Harlan County Reservoir in Nebraska. When irrigation water is released from Harlan County to the river, it travels 60 river miles to the Guide Rock Diversion Dam where it is diverted into the Courtland Canal traveling 15.1 miles to the Kansas State line where diversions to Kansas Bostwick Irrigators begins. Water from the state line continues to flow 19.7 miles or 34.8 miles from Guide Rock to Lovewell Reservoir where it is mixed with flows of the White Rock Creek and diverted back to the Courtland Canal below Lovewell traveling an additional 24 miles to the terminal waste-way north of Norway, Kansas.

The district's delivery system consists of approximately 100 miles of main canals and 150 miles of laterals.

Of the 150 miles of laterals, approximately 60 miles have been converted to buried pipe laterals and 50 waste ways have been eliminated.

Six miles of the Courtland Canal in Nebraska have been converted from earth lined to PVC lined canal to control seepage.

In addition to the canal and lateral system, there are approximately 250 miles of open and buried tile drains which the district operates and maintains to eliminate high water table.

In 1990, the district had 3 pivots in operation and in 2008 it will have 185.

TIME LINE OF EVENTS

1902 Reclamation Act created the Bureau of Reclamation

1931 Corps of Engineers released a report outlining plans for irrigation in the Bostwick Division from proposed Harlan County Dam to Concordia, Ks.

1935 Flood on the Republican caused 110 deaths and $9 million in damages. Local citizens organize and request assistance of the Federal Government

1939 Bureau of Reclamation started working on plan

1941 Harlan County Dam authorized under existing Flood Control Act

1943 Republican River Compact ratified to divide river flows between States

1943 Bureau of Reclamation releases Comprehensive plan for flood control and irrigation

1944 Passage of the 1944 Flood Control Act – Harlan County came under control of Pick-Sloan Missouri Basin Projects development adding irrigation and power uses.

1948 Kansas Bostwick Irrigation District #2 was organized and incorporated in the State of Kansas.

1948 State of Ks issues Water Right #385 from the Republican River to Kansas Bostwick

1949 Supreme Court of Kansas upholds validity of Kansas Bostwick

1952 Original Water Service Contract approved

1952 Dedication of Harlan County Dam

1953 Bureau of Reclamation produces a Definite Plan Report of the Bostwick Division

1954 Supreme Court of the United States upholds validity of Contract

1955 First deliveries to Kansas Bostwick Block I above Lovewell

1955 Appropriations granted and construction started on Lovewell Dam

1955 State of Ks issues Water Right # 4673 for flows from the White Rock Creek

1956 Forty year Repayment and Water Service Contract approved and signed. Contract was amended 12 times up to 1996 for various reasons. The principle reasons were addition drainage construction to deal with high water table problems. The last

amendment in 1996 was a 4-year extension of the contract while a new one was being negotiated

1957 Development block I above Lovewell consider complete for irrigation

1958 Board of Directors hires the 1st Superintendent Orvin Marquardt in February

1958 District Office, Shop, and Storage yard completed and occupied

1958 Lovewell Dam dedication service below Lovewell begins

1960 Development Block II below Lovewell completed

1961 Development Block III White Rock Canal and Pump #4 completed

1966 Development Block IV White Rock Extension and Pump #1 completed

1966 First contracted drainage work begins

1967 Repayment for construction of canal and lateral system begins

1969 Development Block V Pump 3-A and 3-B completed

1981 Repayment of 1st additional drainage funds begins

1982 Reclamation Reform Act requires landholdings to be reported

1982 Last contracted drains installed

1986 Repayment of 2nd additional drainage funds begins

1993 Board of Directors develop Transfer Acre Policy clears way for pivot development

1994 Irrigation Projects Reauthorization Council (10 Irrigation Districts) form to work on contract renewal and or title transfers.

1998 State of Kansas files suit in US Supreme Court to enforce terms of Republican River Compact

1999 Bureau of Reclamation cooperates on purchase of trencher to bury laterals

2000 New Repayment Contract assures: 1. District's share of Current debt will end in 40 years; Assures District a Right to a Water Supply; Assures District a long term supply.

2002 Settlement between States is reached in US Supreme Court over compact suit

2004 Contract Amendment #1 defers repayment charges due to short or no water supply.

2005 Contract Amendment #2 defers repayment charges due to short or no water supply.

2006 HR 4000 is passed clearing way to restructure repayment debt by amending contract.

2007 Contract Amendment #3 restructures debt over remaining years of contract.

2007 Approved for funds under the Interior Departments 2025 challenge grant program to bury laterals.

RAINFALL DATA

YEAR	JAN-MAR	APR-JUNE	JULY-SEPT.	OCT-DEC	TOTAL
59	N/A	12.82	4.83	2.46	N/A
60	N/A	11.05	8.40	2.46	N/A
61	4.09	15.17	19.59	3.94	42.79
62	2.84	10.24	11.62	3.29	27.99
63	2.28	7.81	6.86	1.73	18.68
64	1.62	8.60	9.84	1.21	21.27
65	5.10	12.5	10.40	1.12	29.12
66	1.89	6.98	11.88	2.33	23.08
67	.64	15.84	11.87	2.86	31.18
68	.58	11.19	19.39	6.18	37.34
69	3.92	9.84	13.15	4.36	31.28
70	1.27	15.27	9.01	3.79	29.86
71	4.30	10.00	7.47	7.04	28.81
72	1.00	13.38	11.23	6.53	32.14
73	7.13	8.35	18.72	9.46	43.66
74	.97	9.91	4.59	3.71	19.18
75	3.36	13.06	5.82	3.73	25.97
76	4.73	7.81	3.81	1.03	17.38
77	3.99	16.61	15.72	3.41	39.73
78	2.21	10.23	10.13	3.66	26.23
79	7.74	8.50	8.75	6.43	31.42
80	6.47	7.39	7.56	2.85	28.24
81	1.64	14.09	10.93	4.54	31.20
82	4.04	12.48	10.69	5.06	32.27
83	3.95	8.74	9.5	4.17	23.36
84	3.38	14.77	3.45	7.90	29.50
85	2.10	12.03	13.06	2.37	29.56
86	1.84	10.67	14.01	6.53	33.05
87	8.19	15.48	6.26	2.81	32.74
88	1.31	10.27	5.76	2.03	19.37
89	1.68	7.30	13.70	1.05	23.73
90	4.15	10.82	6.38	2.10	23.45
91	1.98	8.99	3.66	4.19	18.82
92	4.34	8.92	17.61	9.14	40.01
93	5.90	12.62	24.07	2.67	45.26
94	1.64	10.92	7.55	4.49	24.60
95	2.32	14.69	9.74	1.40	28.15

RAINFALL DATA CONTINUED

YEAR	JAN-MAR	APR-JUNE	JULY-SEPT.	OCT-DEC	TOTAL
96	0.85	9.45	12.49	6.04	28.83
97	1.27	6.54	6.64	6.40	20.85
98	4.81	7.99	7.26	6.82	26.88
99	2.18	13.49	5.65	1.46	22.78
00	4.60	5.18	3.20	4.40	17.38
01	4.96	15.12	11.99	2.41	34.48
02	2.18	8.05	4.61	5.02	19.86
03	2.89	15.7	10.04	3.03	31.66
04	6.41	10.74	8.89	1.71	27.75
05	5.52	10.14	12.55	3.76	31.97
06	2.26	7.98	11.58	4.36	26.18
07	4.05	13.55	6.89	5.70	30.19

CROP YIELDS

YEAR	CORN	MILO	BEANS	ALFALFA	SUNFLOWERS
1961	84.0	60.0	24.0	0	0
1962	100.0	88.0	30.0	0	0
1963	85.0	73.0	34.0	0	0
1964	95.0	74.0	24.0	0	0
1965	115.0	97.0	24.0	0	0
1966	95.0	91.0	33.0	0	0
1967	120.0	87.0	32.0	0	0
1968	99.0	72.0	25.0	0	0
1969	107.0	84.0	42.0	0	0
1970	92.0	49.0	25.0	0	0
1971	114.0	90.0	10.0	0	0
1972	129.0	101.0	43.0	0	0
1973	103.0	101.0	28.0	0	0
1974	102.0	81.0	30.0	0	0
1975	107.0	78.0	33.0	0	0
1976	103.0	90.0	44.0	0	0
1977	103.0	107.0	43.0	0	0
1978	123.1	103.6	45.8	0	0
1979	123.1	103.6	45.8	0	0
1980	94.7	63.6	45.2	0	0

VALUE OF ACTUAL IRRIGATED CROPS FROM CROP CENSUS

YEAR	$ GROSS	$ PER/ACRE	ACRE
1970	3,882,835.00	140.00	27,736
1971	3,611,674.76	126.15	28,634
1972	5,114,061.00	192.87	26,515
1973	7,006,234.00	229.50	30,528
1974	9,278,426.00	310.24	29,907
1975	8,278,426.00	260.66	31,741
1976	6,846,199.25	222.29	30,798
1977	5,915,316.01	183.43	32,248
1978	7,618,348.80	238.75	31,909
1979	9,690,680.00	289.02	33,529
1980	9,597,194.54	288.79	33,232
1981	9,799,445.00	297.93	32,892
1982	8,313,569.92	244.66	33,980
1983	8,293,717.20	316.29	26,222
1984	9,922,025.00	330.21	30,048
1985	9,081,424.00	289.13	31,410
1986	7,015,931.65	218.67	32,085
1987	7,039,321.40	209.60	33,585
1988	9,938,060.00	332.80	29,762
1989	11,439,457.00	320.46	35,696
1990	10,407,855.94	283.84	36,667
1991	7,712,559.42	249.75	30,881
1992	7,620,389.10	323.05	23,589
1993	7,493,859.30	221.33	33,858
1994	10,636,665.00	304.49	34,933
1995	13,899,728.33	361.17	38,485
1996	13,463,982.00	380.00	35,431
1997	15,349,478.00	393.73	38,985
1998	11,410,761.21	296.49	38,486
1999	11,856,609.01	305.68	38,788
2000	10,666,977.55	262.02	40,711
2001	10,725,896.65	273.81	39,234
2002	14,809,851.00	375.42	39,449
2003	12,308,765.65	337.60	36,460
2004	6,825,529.50	296.32	23,035
2005	6,908,992.63	294.76	23,439
2006	12,201,642.00	427.00	28,580
2007	19,088,431.06	578.81	32,979

YEAR	CLASSIFIED ACRES	IRRIGATED	ACRE FEET DEL'D	IN/AC
1996	42,574	35,431	41,074	13.9
1997	42,574	38,985	40,196	12.4
1998	42,547	38,485	41,279	12.9
1999	42,650	38,788	44,734	13.8
2000	42,863	40,711	58,498	17.2
*2001	42,805	39,173	39,243	12.0
*2002	42,922	39,499	43,576	13.2
*2003	43,021	36,460	29,108	9.6
*2004	43,114	23,035	15,632	8.1
*2005	43,100	23,439	15,632	5.8
*2006	43,048	28,580	20,636	7.4
*2007	43,018	32,979	26,303	6.5

* YEARS OF SHORT SUPPLY, START SEASON WITH RESTRICTIONS
# HIGHEST – LOWEST USE

PIPE – DITCH – PIVOT SURVEY

This survey was first run in 1990. Pivot acres were counted as pipe and the results were 54% pipe and 46% open ditch.

YEAR	OPEN DITCH	PIPE	PIVOT	DRIP	ACRES
2006	13%	45%	42%	.9%	43,072
2002	17%	56%	27%		42,921
1998	29%	59%	12%		42,421
1994	38%	58%	4%		42,531
1990	46%	54%	0%		42,462

2006 SURVEY BY RIDE

RIDE	OPEN DITCH	PIPE	PIVOT	DRIP	ACRES
1	115.3 – 69%	910.3 – 9%	282.2 – 22%		1,307.8
2	308.9 – 9%	1,657.4 49%	1,421.4 – 42%		3,387.7
3	1,053.7 21%	1,580.5 – 32%	2,322.7 – 47%		4,956.9
4	959.2 – 23%	1,577.6 – 38%	1,584.9 39%		4,121.7
5	6.5 – .6%	368.7 – 36%	657.4 64%		1,032.6
6	386.2 – 8%	3,090.4 – 65%	1,270.0 27%		4,746.6
7	760.4 – 15%	2,203.2 – 44%	2,054.2 40%	45.8 – .9%	5,052.9
8	616.9 – 13%	2,815.1 58%	1,401.9 – 29%		4,833.9
9	62.6 – 1%	1,547.4 – 15%	3,056.1 – 65%		4,666.1
10	788.2 – 15%	1,138.9 – 22%	3,217.1 – 63%		5,144.2
11	367.0 – 9%	2,600.2 – 69%	854.7 – 22%		3,821.9
Total	5,424.9 – 13%	19,489.7 – 45%	18,111.9 – 42%	45.8 – .9%	43,072.3

INFORMATION FROM CROP CENSUS

YEAR	CLASSIFIED ACRES	IRRIGATED ACRES	AF DEL'D	INCHES/AC
1958	10,043	N/A	4,383	N/A
1959	30,521	N/A	29,861	N/A
1960	31,979	20,455	27,041	15.8
1961	36,912	21,962	27,051	14.7
1962	36,934	22,395	23,326	12.4
1963	37,206	25,117	36,973	17.6
1964	37,286	22,892	41,948	21.9
1965	37,478	24,118	36,634	18.2
1966	38,386	24,063	38,195	19.0
1967	39,039	28,000	38,418	16.4
1968	40,325	28,000	32,566	13.9
1969	39,565	25,500	23,161	10.8
1970	39,828	27,736	52,959	22.9
1971	39,746	28,634	38,433	16.1
1972	40,120	26,515	26,168	11.8
1973	40,330	30,528	25,394	9.9
1974	40,631	29,907	51,507	20.7
1975	40,947	31,71	49,525	18.7
1976	41,118	30,789	# 69,206	27.0
*1977	41,118	32,248	30,934	11.5
*1978	41,118	33,909	34,335	12.9
*1979	41,468	33,529	29,015	10.4
1980	41,499	33,232	49,626	17.7
*1981	41,893	32,899	22,995	8.3
1982	41,862	33,999	30,963	10.9
1983	41,862	26,222	48,409	22.1
1984	41,883	30,048	48,121	19.2
1985	41,888	31,410	28,224	10.7
1986	41,910	32,085	34,082	12.7
1987	41,945	33,585	36,214	12.9
1988	41,960	29,862	51,016	20.5
*1989	41,987	35,696	39,335	13.2
*1990	41,988	36,667	43,874	14.3
*1991	42,488	30,881	32,621	12.7
*1992	42,458	23,589	4,116	2.1
*1993	42,537	33,858	# 3,326	1.2
1994	42,523	34,933	15,796	5.4
1995	42,523	38,485	42,828	13.4

1981	134.6	68.9	46.2	0	0
1982	108.0	99.0	37.5	0	0
1983	106.2	78.0	43.6	0	0
1984	139.0	85.8	42.5	0	0
1985	140.5	101.1	44.9	0	0
1986	148.7	131.8	50.4	0	0
1987	137.3	103.7	47.4	0	0
1988	135.2	80.5	46.1	0	0
1989	158.8	85.5	49.0	0	0
1990	139.0	99.0	42.0	5.0	0
1991	110.6	*154.0	39.3	4.0	0
1992	166.0	0	45.8	0	0
1993	92.0	0	36.2	0	0
1994	153.4	0	53.7	6.0	0
1995	135.8	72.8	48.1	4.5	2,613.3
1996	163.9	138.6	54.2	4.7	0
1997	166.6	114.7	58.7	5.0	5
1998	157.6	101.3	54.8	5.3	5.3
1999	165.4	0	*58.6	5.6	0
2000	143.4	0	47.6	2.0	0
2001	155.0	92.8	47.7	6.1	0
2002	162.0	102.0	47.0	7.6	0
2003	160.7	124.2	49.9	5.6	1,943.5
2004	180.4	134.2	54.8	*8.9	1,750.0
2005	*187.0	119.7	58.0	7.6	1,330.2
2006	162.6	110.5	54.9	6.3	0
2007	181.6	126.5	55.2	6.8	0

0 may indicate not enough acres reported.
* record, highest year recorded.

KANSAS-BOSTWICK IRRIGATION DISTRICT
NUMBER OF ACRES IRRIGATED

YEAR	COURT. ABOVE Lovewell	COURT. BELOW Lovewell	TOTAL ACRES	COURT. ABOVE Lovewell Acres Permitted	COURT. BELOW Lovewell Acres Permitted
1954	1,109		1,109		
1955	3,768		3,768		
1956	5,347		5,347		
1957	7,272		7,272		
1958	5,845	2,862	8,707		
1959	7,159	9,081	16,240		
1960	7,020	12,935	19,955		
1961	7,910	14,052	21,962		
1962	7,406	14,989	22,395		
1963	10,145	14,972	25,117		
1964	7,884	15,008	22,892		
1965	8,037	16,112	24,149		
1966	10,035	17,733	27,768		
1967	10,025	17,975	28,000		
1968	9,258	18,394	27,652		
1969	8,515	16,918	25,433		
1970	9,456	18,280	27,736		
1971	9,388	19,246	28,634		
1972	10,179	16,336	26,515		
1973	9,722	20,806	30,528		
1974	9,052	20,400	29,452		
1975	12,190	19,587	31,777		
1976	9,594	21,054	30,648		
1977	10,459	21,788	32,247		
1978	11,936	19,973	31,909		
1979	12,858	20,671	33,529		
1980	11,995	21,237	33,232		
1981	10,968	21,924	32,892		
1982	13,481	20,499	33,980		
1983	7,824	18,398	26,222		
1984	10,390	19,658	30,048		
1985	12,861	18,549	31,410		
1986	10,379	21,706	32,085		
1987	10,864	22,721	33,585		
1988	9,660	20,202	29,862		
1989	11,541	24,155	35,696		
1990	11,860	24,805	36,665		
1991	7,680	23,201	30,881		
1992	9,880	13,709	23,589		
1993	11,153	22,705	33,858		
1994	10,792	24,141	34,933		
1995	10,792	24,141	34,933		
1996	10,792	24,141	34,933		
1997	13,282	25,703	38,985		
1998	12,702	25,784	38,486		
1999	12,707	26,080	38,787		
2000	12,691	28,067	40,758	13378	29122
2001	12,248	26,925	39,173	13378	29122
2002	12,458	26,991	39,449	13378	29122
2003	13,433	23,027	36,460	13378	29,122
2004	1,107	23,034	24,141	13378	29,122
2005	1,107	23,439	24,546	13,378	29122
2006	5,925	22,655	28,580	13,378	29122
2007	8,923	24,055	32,978	13,378	29122

Courtland Canal, Kansas
ABOVE LOVEWELL

Monthly Diversions (acre-ft)	
Year	Total
1954	3,914
1955	14,374
1956	20,860
1957	18,238
1958	13,744
1959	23,343
1960	18,592
1961	20,983
1962	19,377
1963	27,115
1964	22,556
1965	25,101
1966	26,622
1967	25,801
1968	24,968
1969	20,762
1970	28,863
1971	25,216
1972	18,343
1973	20,429
1974	28,654
1975	27,919
1976	38,614
1977	19,785
1978	25,712
1979	20,637

Delivery to Farms (acre-feet)	
Year	Total
1954	30
1955	4,203
1956	7,065
1957	10,002
1958	4,383
1959	13,771
1960	10,035
1961	11,522
1962	9,118
1963	13,433
1964	14,754
1965	13,529
1966	13,301
1967	14,534
1968	13,221
1969	7,491
1970	17,909
1971	14,709
1972	9,630
1973	10,351
1974	18,914
1975	17,120
1976	25,387
1977	11,063
1978	13,200
1979	10,247

System Loss (acre-feet)	
Year	Total
1954	3,884
1955	10,171
1956	13,795
1957	8,236
1958	9,361
1959	9,572
1960	8,557
1961	9,461
1962	10,259
1963	13,682
1964	7,802
1965	11,572
1966	13,321
1967	11,267
1968	11,747
1969	13,271
1970	10,954
1971	10,507
1972	8,713
1973	10,078
1974	9,740
1975	10,799
1976	13,227
1977	8,722
1978	12,512
1979	10,390

1980	27,467	1978	16,160	1980	11,307
1981	18,597	1981	8,272	1981	10,325
1982	27,393	1982	11,127	1982	16,266
1983	25,274	1983	14,442	1983	10,832
1984	28,995	1984	15,521	1984	13,474
1985	23,129	1985	10,292	1985	12,837
1986	26,924	1986	12,108	1986	14,816
1987	23,717	1987	11,890	1987	11,827
1988	32,961	1988	17,159	1988	15,802
1989	24,709	1989	13,531	1989	11,178
1990	25,745	1990	13,768	1990	11,977
1991	20,850	1991	10,184	1991	10,666
1992	8,249	1992	1,164	1992	7,085
1993	13,125	1993	1,289	1993	11,836
1994	30,916	1994	11,467	1994	19,449
1995	33,636	1995	15,421	1995	18,215
1996	24,996	1996	13,932	1996	11,064
1997	26,085	1997	11,887	1997	14,198
1998	26,444	1998	12,717	1998	13,727
1999	30,593	1999	14,400	1999	16,193
2000	32,416	2000	18,343	2000	14,073
2001	25,456	2001	11,994	2001	13,462
2002	26,077	2002	13,386	2002	12,691
2003	17,585	2003	8,375	2003	9,210
2004	779	2004	144	2004	635
2005	1,864	2005	561	2005	1,303
2006	10,595	2006	3,353	2006	7,242
2007	14,748	2007	5,789	2,007	8,959

Courtland Canal, Kansas
BELOW LOVEWELL

Monthly Diversions (acre-feet) Year	Total
1958	5,687
1959	26,388
1960	26,529
1961	28,103
1962	26,216
1963	40,322
1964	45,250
1965	39,546
1966	43,564
1967	42,454
1968	35,056
1969	34,036
1970	54,441
1971	47,201
1972	32,358
1973	30,206
1974	51,472
1975	51,655
1976	71,792
1977	39,568
1978	45,297
1979	36,290

Delivery to Farms (acre-feet) Year	Total
1958	2,195
1959	16,090
1960	16,803
1961	15,529
1962	14,859
1963	23,540
1964	27,194
1965	21,784
1966	22,915
1967	23,884
1968	19,349
1969	16,369
1970	34,613
1971	23,406
1972	16,511
1973	14,765
1974	32,067
1975	31,999
1976	43,249
1977	19,625
1978	20,850
1979	18,529

System Loss (acre-feet) Year	Total
1958	3,492
1959	10,298
1960	9,726
1961	12,574
1962	11,357
1963	16,782
1964	18,056
1965	17,762
1966	20,649
1967	18,570
1968	15,707
1969	17,667
1970	19,828
1971	23,795
1972	15,847
1973	15,441
1974	19,405
1975	19,656
1976	28,543
1977	19,943
1978	24,447
1979	17,761

1980	56,023	1980	32,697	1980	23,326
1981	34,064	1981	14,532	1981	19,532
1982	39,043	1982	19,583	1982	19,460
1983	58,690	1983	33,309	1983	25,381
1984	55,097	1984	32,204	1984	22,893
1985	37,202	1985	17,699	1985	19,503
1986	42,209	1986	21,694	1986	20,515
1987	43,617	1987	23,828	1987	19,789
1988	57,246	1988	33,437	1988	23,809
1989	43,705	1989	25,481	1989	18,224
1990	55,164	1990	29,746	1990	25,418
1991	43,260	1991	22,168	1991	21,092
1992	12,074	1992	3,084	1992	8,990
1993	17,417	1993	2,010	1993	15,407
1994	40,361	1994	19,863	1994	20,498
1995	46,493	1995	27,053	1995	19,440
1996	46,946	1996	27,317	1996	19,629
1997	48,831	1997	28,818	1997	20,013
1998	49,058	1998	28,475	1998	20,583
1999	49,570	1999	30,213	1999	19,357
2000	62,745	2000	39,673	2000	23,072
2001	47,244	2001	27,240	2001	20,004
2002	46,557	2002	30,566	2002	15,991
2003	35,606	2003	20,490	2003	15,116
2004	30,134	2004	15,456	2004	14,678
2005	25,916	2005	12,040	2005	13,876
2006	27,851	2006	14,610	2006	13,241
2007	35,101	2007	17,164	2007	13241

Farm Management Guide MF-1100

Kansas Land Prices and Cash Rental Rates

Department of Agricultural Economics — www.agmanager.info

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This Farm Management guide reports Kansas land prices and cash rents for 1989-2008. These data are useful to farm managers in determining cash rental rates, to farmland appraisers in calculating indexes for making time adjustments to land prices, and to landowners and investors who base expectations on historical price and return levels for farmland. The average prices in this guide encompass parcels of land that vary widely in productivity. Thus, these data are more appropriate for analyzing trends than for establishing market value or rental rates for specific tracts of farmland.

Kansas Agricultural Statistics

For reporting purposes, Kansas Agricultural Statistics Service has divided the state into nine agricultural statistical districts. The districts are: Northwest (NW), West Central (WC), Southwest (SW), North Central (NC), Central (C), South Central (SC), Northeast (NE), East Central (EC), and Southeast (SE). Since 1976, Kansas Agricultural Statistics has collected price information on three types of land: nonirrigated cropland, irrigated cropland, and pasture. This information is combined in two additional land groupings: all cropland and all land in farms. While these two groupings do not represent a particular type of land (e.g., nonirrigated cropland), they provide a broader classification of interest.

The land values reported also include the value of any buildings that may be on the land. The value of the buildings represents a small portion of the total value, on average, and thus this reporting method does not significantly affect the accuracy of land values reported.

Kansas Land Prices

Tables 1 through 5 show average prices of land and buildings in each district and an average for the state for the most recent 20 years reported. Data are shown for each of the five land groupings: all land in farms, all cropland, nonirrigated cropland, irrigated cropland, and pasture. The annual data are based on February 1 for 1989 and January 1 for 1990-2008.

Table 1. *Price per acre of all land in farms and buildings, Kansas Agricultural Statistical Districts, 1989-2008.* [a]

Year	NW	WC	SW	NC	C	SC	NE	EC	SE	State
1989 [b]	$384	$339	$441	$417	$461	$530	$484	$405	$384	$429
1990	395	361	440	408	486	556	527	425	400	450
1991	389	363	419	419	474	515	530	439	397	449
1992	378	366	418	465	462	490	534	482	394	460
1993	399	351	412	447	493	540	586	430	407	463
1994	435	386	453	521	488	561	628	487	449	503
1995	491	386	464	527	545	579	800	633	503	535
1996	488	399	469	526	521	554	811	813	548	553
1997	500	410	480	540	540	570	810	790	575	565
1998	490	410	490	550	560	590	830	800	590	577
1999	490	405	500	580	620	590	900	855	615	600
2000	530	435	525	605	610	640	920	850	650	625
2001	555	445	540	625	630	655	945	875	685	645
2002	550	460	550	640	660	685	990	920	690	665
2003	560	470	550	660	670	700	1,005	950	710	685
2004	580	490	590	690	690	725	1,045	985	750	715
2005	650	555	640	845	830	850	1,340	1,210	905	850
2006	670	590	650	915	870	990	1,640	1,370	1,020	940
2007	770	680	730	1,060	1,020	1,090	1,960	1,690	1,160	1,090
2008	840	730	800	1,110	1,130	1,220	1,980	1,740	1,280	1,170

Table 2. *Price per acre of all cropland and buildings, Kansas Agricultural Statistical Districts, 1989-2008.*[a]

Year	NW	WC	SW	NC	C	SC	NE	EC	SE	State
1989[b]	$458	$401	$512	$482	$520	$613	$552	$485	$467	$499
1990	476	429	512	476	554	645	612	517	492	527
1991	460	430	486	476	539	599	614	540	489	524
1992	446	431	487	537	559	600	613	573	467	535
1993	476	412	475	508	557	622	670	510	488	538
1994	517	447	529	600	549	642	713	574	525	606
1995	596	472	544	614	620	684	892	706	603	623
1996	583	451	554	612	583	656	885	990	644	638
1997	595	465	560	620	595	680	905	965	700	649
1998	585	460	560	625	605	695	915	940	735	655
1999	588	467	560	636	628	699	925	946	731	660
2000	589	472	571	647	628	701	945	956	731	666
2001	607	472	575	648	634	715	956	966	726	673
2002	580	481	575	654	654	724	996	979	721	679
2003	580	489	556	665	656	734	998	986	723	684
2004	605	504	585	680	667	749	1,028	1,011	753	705
2005	693	593	655	843	805	861	1,388	1,291	918	849
2006	704	608	673	939	834	979	1,625	1,421	1,053	926
2007	757	652	704	1,040	925	1,021	1,881	1,658	1,183	1,020
2008	910	790	840	1,160	1,120	1,270	1,960	1,860	1,260	1,180

Table 3. *Price per acre of nonirrigated cropland and buildings, Kansas Agricultural Statistical Districts, 1989-2008.*[a]

Year	NW	WC	SW	NC	C	SC	NE	EC	SE	State
1989[b]	$434	$383	$434	$468	$512	$581	$548	$484	$466	$473
1990	448	409	428	462	545	617	607	514	491	501
1991	434	412	411	464	530	569	610	537	488	500
1992	418	411	405	522	550	574	608	571	466	513
1993	442	394	395	492	548	598	667	508	487	516
1994	480	426	445	581	539	610	708	569	524	549
1995	536	438	458	602	563	642	807	777	589	595
1996	526	437	430	588	572	611	890	980	641	607
1997	530	440	430	590	580	630	900	960	700	615
1998	525	435	420	600	590	645	910	935	735	620
1999	525	440	420	610	610	650	920	940	730	625
2000	525	445	425	620	610	650	940	950	730	630
2001	545	445	425	620	615	660	950	960	725	635
2002	515	455	425	625	635	660	990	970	720	640
2003	515	455	425	630	635	665	990	975	720	645
2004	540	470	450	645	645	680	1,020	1,000	750	665
2005	630	555	510	810	775	780	1,380	1,280	915	810
2006	640	560	530	910	810	890	1,615	1,410	1,050	890
2007	680	600	550	1,000	900	920	1,870	1,650	1,180	980
2008	830	730	670	1,110	1,090	1,160	1,950	1,850	1,260	1,130

Table 4. *Price per acre of irrigated cropland and buildings, Kansas Agricultural Statistical Districts, 1989-2008.*[a]

Year	NW	WC	SW	NC	C	SC	NE	EC	SE	State
1989[b]	$716	$623	$759	$908	$886	$928	$1,046	$786	$760	$801
1990	780	690	783	909	922	925	1,193	852	737	833
1991	744	663	725	878	877	902	1,017	859	784	809
1992	747	690	747	1,008	957	863	1,215	891	694	792
1993	829	646	730	1,002	971	865	1,083	865	713	788
1994	889	702	753	1,229	910	938	1,317	979	722	825
1995	1,188	714	772	1,005	948	1,076	1,411	1,098	962	920
1996	1,141	705	884	1,390	960	1,074	1,468	1,194	1,194	966
1997	1,140	775	900	1,360	1,050	1,110	1,380	1,280	1,080	990
1998	1,090	820	930	1,340	1,140	1,130	1,400	1,300	1,100	1,010
1999	1,110	825	935	1,350	1,190	1,140	1,430	1,350	1,130	1,020
2000	1,120	830	960	1,365	1,205	1,160	1,445	1,370	1,130	1,040
2001	1,120	830	975	1,400	1,230	1,210	1,500	1,430	1,150	1,060
2002	1,120	830	975	1,430	1,260	1,300	1,595	1,600	1,160	1,080
2003	1,120	825	945	1,420	1,275	1,300	1,610	1,605	1,155	1,080
2004	1,145	840	985	1,445	1,290	1,320	1,625	1,620	1,175	1,110
2005	1,220	960	1,085	1,550	1,515	1,530	1,955	1,940	1,260	1,240
2006	1,235	1,070	1,100	1,570	1,535	1,710	2,355	2,050	1,400	1,300
2007	1,400	1,160	1,170	1,800	1,650	1,850	2,650	2,150	1,500	1,410
2008	1,600	1,400	1,350	2,300	2,100	2,200	2,960	2,360	1,650	1,660

Table 5. *Price per acre of pastureland and buildings, Kansas Agricultural Statistical Districts, 1989-2008.*[a]

Year	NW	WC	SW	NC	C	SC	NE	EC	SE	State
1989[b]	$189	$184	$222	$259	$300	$308	$322	$315	$303	$274
1990	182	190	216	241	302	319	335	321	312	278
1991	200	196	214	278	298	290	343	326	307	283
1992	198	202	205	290	191	191	354	380	326	292
1993	197	197	217	302	318	324	394	340	328	296
1994	219	236	218	338	327	354	436	378	382	322
1995	208	172	213	329	350	306	592	548	407	343
1996	233	255	204	324	359	293	557	586	450	361
1997	225	240	210	340	370	310	575	575	450	365
1998	230	230	215	340	375	320	575	575	445	367
1999	230	230	220	345	380	320	585	575	450	370
2000	235	230	220	365	390	325	600	575	475	380
2001	240	230	225	380	395	330	615	580	500	390
2002	240	235	230	380	410	330	625	630	505	400
2003	250	240	230	380	410	330	625	630	505	410
2004	240	255	250	410	430	350	650	650	530	430
2005	320	270	265	525	530	455	795	790	670	530
2006	330	350	280	570	610	635	1,140	980	755	640
2007	400	410	340	650	730	710	1,300	1,200	820	740
2008	480	440	380	770	830	800	1,400	1,320	1,090	860

Cash Rental Rates

Average cash rental rates for nonirrigated cropland, irrigated cropland, and pastureland by region are shown in Tables 6 through 8 for 1989-2008. Cash rent for specific tracts of land will be influenced by many factors other than the class of land (e.g., productivity, size of government program payments, location, size of parcel, road access) and thus there will be considerable variability around the average reported rate.

Table 9 shows average price per acre, cash rental rates, and rent as a percentage of price (i.e., rent-to-value) for nonirrigated cropland, irrigated cropland, and pasture in Kansas.

The 5-year average (2004-08) rent-to-value is 4.6 percent, 5.8 percent, and 2.3 percent for nonirrigated cropland, irrigated cropland, and pastureland, respectively. These averages can be useful "rules-of-thumb" for establishing cash rental rates or evaluating land purchase decisions. For example, if the market value of a particular piece of nonirrigated cropland is $1,000 per acre, a reasonable expected cash rent might be $46 per acre ($1,000 × 0.046). Similarly, a person interested in buying pastureland that rents for $15 per acre would expect the land to be valued at about $652 per acre (15 ÷ 0.023). If the actual land value is significantly higher (lower), this suggests the land might be over (under) priced. However, a word of caution when using these rules-of-thumb is that the value of land has been increasing much more rapidly than rents in recent years, due to factors such as urban pressure, recreational use, 1031 tax exchanges, etc. Thus, relationships that were observed in the past may not be appropriate in the current market.

Table 6. *Cash rent per acre for nonirrigated cropland, Kansas Agricultural Statistical Districts, 1989-2008.*[a]

Year	NW	WC	SW	NC	C	SC	NE	EC	SE	State
1989[b]	$23.07	$20.55	$23.48	$31.22	$26.62	$30.59	$43.38	$32.92	$30.59	$30.20
1990	25.20	22.00	25.50	33.60	28.50	33.10	46.40	35.40	33.20	33.10
1991	24.20	22.50	20.90	34.30	29.40	33.30	45.80	33.70	33.60	32.50
1992	27.40	21.50	23.20	37.00	31.90	33.60	53.30	32.90	31.20	31.90
1993	31.60	20.50	25.30	36.80	32.30	32.50	52.10	38.80	35.90	32.80
1994	29.31	24.53	24.46	32.86	29.44	28.60	47.13	32.66	30.91	32.60
1995	28.99	27.20	24.72	34.38	30.80	29.92	50.45	34.96	33.09	35.50
1996	24.00	25.50	21.00	35.00	32.00	30.00	51.20	33.00	32.00	32.70
1997	29.00	26.00	24.00	37.00	34.00	33.00	50.00	36.00	35.00	34.50
1998	31.00	27.00	23.00	40.00	36.00	35.00	55.00	39.00	35.00	35.50
1999	30.00	29.00	26.00	39.00	35.00	32.00	59.00	39.00	37.00	35.00
2000	32.00	29.00	25.00	40.00	35.00	33.00	59.00	42.00	36.00	35.50
2001	32.50	32.00	25.50	39.00	34.00	33.00	62.00	41.00	37.00	36.00
2002	32.50	30.00	25.60	39.00	34.40	32.90	60.00	41.50	36.50	36.00
2003	32.50	29.70	25.60	39.00	34.10	33.00	59.50	41.50	36.40	36.00
2004	34.50	30.50	26.50	40.50	35.50	34.50	62.50	42.50	38.50	37.50
2005	35.00	31.50	26.50	42.00	35.50	35.50	64.50	44.00	38.50	38.50
2006	34.00	30.00	26.00	43.00	36.00	35.50	69.00	50.50	40.00	39.00
2007	35.00	31.00	28.00	47.00	35.00	37.00	70.00	50.00	41.00	41.00
2008	36.00	33.50	33.50	52.00	42.00	41.50	76.50	59.00	46.00	45.00

Table 7. *Cash rent per acre for irrigated cropland, Kansas Agricultural Statistical Districts, 1989-2008.*[a]

Year	NW	WC	SW	NC	C	SC	NE	EC	SE	State
1989[b]	$61.14	$46.42	$64.78	$77.38	$55.61	$65.51	$75.89	$60.55	$53.01	$62.50
1990	59.60	43.40	64.10	76.40	55.40	64.70	74.00	59.30	50.40	61.50
1991	69.00	56.70	56.70	66.90	49.30	65.00	72.10	56.10	53.80	60.60
1992	69.20	63.10	59.60	64.10	61.40	69.10	75.70	61.40	58.00	62.70
1993	76.40	53.50	65.30	67.30	60.50	65.10	67.10	61.00	56.90	65.10
1994	75.50	71.00	75.00	71.70	64.00	67.00	88.30	62.70	59.00	69.20
1995[c]	77.96	73.35	78.81	80.94	69.07	69.00	91.12	68.48	64.74	73.67
1996[c]	68.00	64.00	70.00	77.00	63.00	60.00	79.41	63.19	60.00	66.30
1997[c]	69.00	66.00	72.00	78.00	66.00	64.00	79.94	67.38	65.72	69.00
1998	66.00	65.00	67.00	75.00	65.00	69.00	75.00	67.00	67.00	67.00
1999[c]	67.00	64.00	66.00	75.00	64.00	68.00	80.00	66.00	66.00	66.00
2000[c]	68.00	63.44	66.00	76.00	65.00	68.00	80.32	67.35	66.35	67.00
2001[c]	74.00	68.00	72.00	79.00	65.00	72.00	85.00	71.27	70.21	72.00
2002[c]	67.00	65.00	72.00	76.00	64.00	72.00	83.38	68.97	67.94	70.00
2003	66.00	63.00	69.00	74.00	63.00	69.00	81.00	67.00	66.00	68.00
2004	70.00	65.00	73.00	74.00	65.00	73.00	83.00	71.00	68.00	72.00
2005	72.00	65.00	74.00	76.00	66.00	74.00	83.00	73.00	68.00	73.00
2006	74.00	70.00	75.00	76.00	64.00	74.00	84.00	76.00	69.00	74.00
2007	83.00	78.00	85.00	80.00	67.00	78.00	85.00	78.00	70.00	82.00
2008	87.00	85.00	89.50	90.50	80.00	88.00	88.00	87.00	71.00	88.00

Table 8. *Cash rent per acre for pastureland, Kansas Agricultural Statistical Districts, 1989-2008.*[a]

Year	NW	WC	SW	NC	C	SC	NE	EC	SE	State
1989[b]	$7.88	$7.76	$7.59	$11.15	$10.61	$10.25	$13.93	$12.44	$12.12	$10.80
1990	8.60	8.40	8.10	11.90	11.60	10.90	14.70	13.00	12.80	11.50
1991	8.60	8.90	8.30	12.80	12.50	11.80	17.00	13.20	13.00	11.60
1992	8.80	8.20	8.50	13.80	12.70	11.40	18.00	14.00	13.80	12.00
1993	9.60	9.10	9.40	14.30	12.60	12.50	18.00	14.70	15.20	12.80
1994[c]	8.91	8.82	8.97	13.54	12.49	10.87	15.87	14.42	14.71	12.20
1995[c]	8.01	7.93	8.06	10.24	9.44	8.22	16.08	14.61	14.90	11.70
1996	8.70	9.00	9.00	13.10	12.60	9.60	14.70	14.90	15.00	11.90
1997	9.00	8.40	8.00	13.00	12.00	9.70	14.70	15.10	14.90	11.60
1998	9.50	9.20	8.60	13.50	12.70	11.80	16.50	16.80	16.50	13.00
1999	10.00	9.00	9.00	14.00	13.00	11.00	16.00	18.00	17.30	13.30
2000	10.00	9.30	8.50	13.50	12.00	10.90	15.40	16.90	16.40	12.80
2001	9.70	9.20	8.50	13.60	12.30	11.10	15.20	17.00	15.50	12.60
2002	9.70	9.30	8.80	13.70	12.40	11.20	15.30	16.80	15.20	12.60
2003	9.70	9.30	8.70	13.70	12.40	11.20	15.20	16.90	15.30	12.60
2004	9.70	9.70	8.70	14.10	13.10	11.30	16.10	17.60	15.40	13.20
2005	9.80	9.80	8.70	14.40	13.30	11.80	17.60	17.90	15.40	13.40
2006	9.60	10.00	8.70	14.90	13.80	11.50	18.10	18.40	16.20	13.70
2007	10.50	10.10	8.70	16.00	14.00	12.40	18.60	19.40	17.60	14.50
2008	11.80	10.50	9.30	16.00	15.70	12.30	20.40	21.20	18.80	15.50

Table 9. *Kansas state average price per acre, cash rent per acre, and rent-to-value percentage for nonirrigated cropland, irrigated cropland, and pastureland, 1989-2008.*[a]

	Nonirrigated cropland			**Irrigated cropland**			**Pastureland**		
Year	Price per acre, $	Cash rent per acre, $	Rent to value, %	Price per acre, $	Cash rent per acre, $	Rent to value, %	Price per acre, $	Cash rent per acre, $	Rent to value, %
1989[b]	473	30.20	6.4	801	62.50	7.8	274	10.80	3.9
1990	501	33.10	6.6	833	61.50	7.4	278	11.50	4.1
1991	500	32.50	6.5	809	60.60	7.5	283	11.60	4.1
1992	513	31.90	6.2	792	62.70	7.9	292	12.00	4.1
1993	516	32.80	6.4	788	65.10	8.3	296	12.80	4.3
1994	549	32.60	5.9	825	69.20	8.4	322	12.20	3.8
1995	595	35.50	6.0	920	73.67	8.0	343	11.70	3.4
1996	607	32.70	5.4	966	66.30	6.9	361	11.90	3.3
1997	615	34.50	5.6	990	69.00	7.0	365	11.60	3.2
1998	620	35.50	5.7	1,010	67.00	6.6	367	13.00	3.5
1999	625	35.00	5.6	1,020	66.00	6.5	370	13.30	3.6
2000	630	35.50	5.6	1,040	67.00	6.4	380	12.80	3.4
2001	635	36.00	5.7	1,060	72.00	6.8	390	12.60	3.2
2002	640	36.00	5.6	1,080	70.00	6.5	400	12.60	3.2
2003	645	36.00	5.6	1,080	68.00	6.3	410	12.60	3.1
2004	665	37.50	5.6	1,110	72.00	6.5	430	13.20	3.1
2005	810	38.50	4.8	1,240	73.00	5.9	530	13.40	2.5
2006	890	39.00	4.4	1,300	74.00	5.7	620	13.70	2.1
2007	980	41.00	4.2	1,410	82.00	5.8	740	14.50	2.0
2008	1,130	45.00	4.0	1,660	88.00	5.3	860	15.50	1.8
04-08 avg.	895	40.20	4.6	1,344	77.80	5.8	640	14.06	2.3
99-08 avg.	765	37.95	5.1	1,200	73.20	6.2	515	13.42	2.8
89-08 avg	657	35.54	5.6	1,037	69.48	6.9	417	12.67	3.3

Footnotes

[a] *Source: Kansas Agricultural Statistics (KAS), Kansas Board of Agriculture, United States Department of Agriculture.*

[b] *District cash rents for 1989 were not available. Values for this year were calculated by KSU to be consistent with KAS reported state level changes during this time period.*

[c] *Data for some of the individual districts were not available. Missing values for these districts were calculated by KSU to be consistent with KAS reported state level changes in those years.*

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Table 6. Monthly and annual price received by U.S. corn producers, marketing years 1975-2007

Marketing year	Marketing year month												
	September	October	November	December	January	February	March	April	May	June	July	August	Annual
	Dollars per bushel												
1975-76	2.76	2.62	2.33	2.37	2.44	2.48	2.50	2.46	2.61	2.74	2.82	2.64	2.54
1976-77	2.60	2.33	2.02	2.24	2.34	2.34	2.35	2.31	2.25	2.12	1.88	1.63	2.15
1977-78	1.60	1.67	1.88	1.97	2.00	2.03	2.15	2.24	2.29	2.28	2.16	2.01	2.02
1978-79	1.98	1.97	2.02	2.09	2.11	2.18	2.22	2.27	2.35	2.49	2.64	2.54	2.25
1979-80	2.51	2.41	2.27	2.38	2.45	2.39	2.40	2.36	2.42	2.49	2.73	2.92	2.52
1980-81	3.01	2.99	3.10	3.19	3.19	3.22	3.25	3.24	3.24	3.17	3.14	2.87	3.11
1981-82	2.55	2.45	2.34	2.39	2.54	2.44	2.46	2.55	2.60	2.57	2.50	2.30	2.50
1982-83	2.15	1.98	2.13	2.26	2.36	2.56	2.71	2.95	3.03	3.04	3.13	3.35	2.55
1983-84	3.32	3.15	3.17	3.15	3.15	3.11	3.21	3.32	3.34	3.36	3.30	3.12	3.21
1984-85	2.90	2.65	2.55	2.56	2.64	2.62	2.67	2.70	2.68	2.64	2.60	2.44	2.63
1985-86	2.29	2.11	2.21	2.29	2.33	2.32	2.29	2.30	2.39	2.32	2.00	1.73	2.23
1986-87	1.45	1.40	1.47	1.50	1.48	1.42	1.47	1.52	1.66	1.69	1.60	1.47	1.50
1987-88	1.49	1.55	1.61	1.72	1.77	1.83	1.86	1.88	1.94	2.41	2.72	2.65	1.94
1988-89	2.60	2.58	2.51	2.53	2.60	2.59	2.60	2.56	2.58	2.52	2.47	2.27	2.54
1989-90	2.29	2.22	2.24	2.27	2.31	2.32	2.37	2.51	2.62	2.63	2.62	2.51	2.36
1990-91	2.32	2.19	2.16	2.22	2.27	2.32	2.39	2.42	2.38	2.31	2.27	2.33	2.28
1991-92	2.33	2.31	2.29	2.33	2.40	2.46	2.49	2.48	2.49	2.47	2.33	2.15	2.37
1992-93	2.16	2.05	1.98	1.97	2.03	2.00	2.10	2.16	2.14	2.09	2.22	2.25	2.07
1993-94	2.21	2.28	2.45	2.67	2.70	2.79	2.74	2.65	2.60	2.61	2.29	2.16	2.50
1994-95	2.19	2.06	1.99	2.13	2.19	2.23	2.30	2.36	2.42	2.51	2.63	2.63	2.26
1995-96	2.69	2.79	2.87	3.07	3.09	3.37	3.51	3.85	4.14	4.20	4.43	4.30	3.24
1996-97	3.56	2.88	2.66	2.63	2.69	2.65	2.79	2.80	2.69	2.56	2.42	2.50	2.71
1997-98	2.52	2.54	2.51	2.52	2.56	2.55	2.55	2.41	2.34	2.28	2.19	1.89	2.43
1998-99	1.84	1.91	1.93	2.00	2.06	2.05	2.06	2.04	1.99	1.97	1.74	1.75	1.94
1999-00	1.75	1.69	1.70	1.82	1.91	1.98	2.03	2.03	2.11	1.91	1.64	1.52	1.82
2000-01	1.61	1.74	1.86	1.97	1.98	1.96	1.96	1.89	1.82	1.76	1.87	1.90	1.85
2001-02	1.91	1.84	1.85	1.98	1.97	1.93	1.94	1.91	1.93	1.97	2.13	2.38	1.97
2002-03	2.47	2.34	2.28	2.32	2.33	2.34	2.33	2.34	2.38	2.34	2.17	2.15	2.32
2003-04	2.20	2.12	2.20	2.31	2.39	2.61	2.75	2.89	2.87	2.79	2.51	2.34	2.42
2004-05	2.20	2.15	2.05	2.04	2.12	1.95	2.02	2.00	1.99	2.03	2.11	1.95	2.06
2005-06	1.90	1.82	1.77	1.92	2.00	2.02	2.06	2.11	2.17	2.14	2.14	2.09	2.00
2006-07	2.20	2.54	2.87	3.01	3.05	3.44	3.43	3.39	3.49	3.51	3.32	3.26	3.04
2007-08	3.29	3.29	3.43	3.76	3.97	4.53	4.70	5.15	5.28	5.48	5.24	5.26	4.20
2008-09	5.02	4.37	4.26	4.05									

Commodity	Practice	Year	State	County	StFips	District	CoFips
Wheat Winter All	Irrigated	1970	Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1970	Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1970	Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1970	Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1970	Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1970	Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1970	Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1970	Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1970	Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1971	Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1971	Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1971	Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1971	Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1971	Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1971	Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1971	Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1971	Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1971	Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1972	Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1972	Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1972	Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1972	Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1972	Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1972	Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1972	Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1972	Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1973	Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1973	Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1973	Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1973	Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1973	Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1973	Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1973	Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1973	Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1973	Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1973	Kansas	State Total	20	99	999

Wheat Winter All	Irrigated	1974 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1974 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1974 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1974 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1974 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1974 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1974 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1974 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1974 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1974 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1975 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1975 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1975 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1975 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1975 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1975 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1975 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1975 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1975 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1975 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1976 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1976 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1976 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1976 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1976 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1976 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1976 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1976 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1976 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1976 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1977 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1977 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1977 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1977 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1977 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1977 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1977 Kansas	D40 North Central	20	40	999

Wheat Winter All	Non Irrigated: Continuous Cropping	1977 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1977 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1977 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1978 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1978 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1978 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1978 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1978 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1978 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1978 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1978 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1978 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1978 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1979 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1979 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1979 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1979 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1979 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1979 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1979 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1979 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1979 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1979 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1980 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1980 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1980 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1980 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1980 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1980 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1980 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1980 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1980 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1980 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1981 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1981 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1981 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1981 Kansas	State Total	20	99	999

Wheat Winter All	Non Irrigated: Following Summer Fallc	1981 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1981 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1981 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1981 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1981 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1981 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1982 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1982 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1982 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1982 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1982 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1982 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1982 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1982 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1982 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1982 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1983 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1983 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1983 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1983 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1983 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1983 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1983 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1983 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1983 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1983 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1984 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1984 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1984 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1984 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1984 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1984 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1984 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1984 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1984 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1984 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1985 Kansas	D40 North Central	20	40	999

Wheat Winter All	Irrigated	1985 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1985 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1985 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1985 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1985 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1985 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1985 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1985 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1985 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1986 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1986 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1986 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1986 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1986 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1986 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1986 Kansas	D40 North Central	20	40	999
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Wheat Winter All	Total For Crop	1986 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1986 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1987 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1987 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1987 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1987 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1987 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1987 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1987 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1987 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1987 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1987 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1988 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1988 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1988 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1988 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1988 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1988 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1988 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1988 Kansas	State Total	20	99	999

Wheat Winter All	Total For Crop	1988 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1988 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1989 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1989 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1989 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1989 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1989 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1989 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1989 Kansas	D40 North Central	20	40	999
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Wheat Winter All	Total For Crop	1989 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1989 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1990 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1990 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1990 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1990 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1990 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1990 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1990 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1990 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1990 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1990 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1991 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1991 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1991 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1991 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1991 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1991 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1991 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1991 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1991 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1991 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1992 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1992 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1992 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1992 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1992 Kansas	D40 North Central	20	40	999

Wheat Winter All	Non Irrigated: Following Summer Fallc	1992 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1992 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1992 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1992 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1992 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1993 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1993 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1993 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1993 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1993 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1993 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1993 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1993 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1993 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1994 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1994 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1994 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1994 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1994 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1994 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1994 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1994 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1994 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1994 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1995 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1995 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1995 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1995 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1995 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1995 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1995 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1995 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1995 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1995 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1996 Kansas	D40 North Central	20	40	999
Wheat Winter All	Irrigated	1996 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1996 Kansas	D40 North Central	20	40	999

Wheat Winter All	Non Irrigated Total	1996 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1996 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1996 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1996 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1996 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1996 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1996 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1997 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1997 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1997 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1997 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1997 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1997 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1997 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1997 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1997 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1998 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1998 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1998 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1998 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1998 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1998 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1998 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1998 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1998 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	1999 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	1999 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	1999 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1999 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	1999 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1999 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	1999 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	1999 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	1999 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	2000 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	2000 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	2000 Kansas	State Total	20	99	999

Wheat Winter All	Non Irrigated: Following Summer Fallc	2000 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	2000 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2000 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2000 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	2000 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	2000 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	2001 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	2001 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	2001 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	2001 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	2001 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2001 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2001 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	2001 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	2001 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	2002 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	2002 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	2002 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	2002 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	2002 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2002 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2002 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	2002 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	2002 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	2003 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	2003 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	2003 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	2003 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	2003 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2003 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2003 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	2003 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	2003 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	2004 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	2004 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	2004 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	2004 Kansas	D40 North Central	20	40	999

Wheat Winter All	Non Irrigated: Following Summer Fallc	2004 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2004 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2004 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	2004 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	2004 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	2005 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	2005 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	2005 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	2005 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	2005 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2005 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2005 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	2005 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	2005 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	2006 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	2006 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	2006 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	2006 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	2006 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2006 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2006 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	2006 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	2006 Kansas	State Total	20	99	999
Wheat Winter All	Irrigated	2007 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated Total	2007 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated Total	2007 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	2007 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Following Summer Fallc	2007 Kansas	State Total	20	99	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2007 Kansas	D40 North Central	20	40	999
Wheat Winter All	Non Irrigated: Continuous Cropping	2007 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	2007 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	2007 Kansas	State Total	20	99	999
Wheat Winter All	Total For Crop	2008 Kansas	D40 North Central	20	40	999
Wheat Winter All	Total For Crop	2008 Kansas	State Total	20	99	999
Wheat All	Irrigated	1970 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1970 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1970 Kansas	State Total	20	99	999

Wheat All	Non Irrigated: Following Summer Fallc	1970 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1970 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1970 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1970 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1970 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1970 Kansas	State Total	20	99	999
Wheat All	Irrigated	1971 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1971 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1971 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1971 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1971 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1971 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1971 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1971 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1971 Kansas	State Total	20	99	999
Wheat All	Irrigated	1972 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1972 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1972 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1972 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1972 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1972 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1972 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1972 Kansas	State Total	20	99	999
Wheat All	Irrigated	1973 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1973 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1973 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1973 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1973 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1973 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1973 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1973 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1973 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1973 Kansas	State Total	20	99	999
Wheat All	Irrigated	1974 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1974 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1974 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1974 Kansas	State Total	20	99	999

Wheat All	Non Irrigated: Following Summer Fallc	1974 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1974 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1974 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1974 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1974 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1974 Kansas	State Total	20	99	999
Wheat All	Irrigated	1975 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1975 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1975 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1975 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1975 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1975 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1975 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1975 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1975 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1975 Kansas	State Total	20	99	999
Wheat All	Irrigated	1976 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1976 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1976 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1976 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1976 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1976 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1976 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1976 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1976 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1976 Kansas	State Total	20	99	999
Wheat All	Irrigated	1977 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1977 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1977 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1977 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1977 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1977 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1977 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1977 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1977 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1977 Kansas	State Total	20	99	999
Wheat All	Irrigated	1978 Kansas	D40 North Central	20	40	999

Wheat All	Irrigated	1978 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1978 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1978 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1978 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1978 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1978 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1978 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1978 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1978 Kansas	State Total	20	99	999
Wheat All	Irrigated	1979 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1979 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1979 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1979 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1979 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1979 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1979 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1979 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1979 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1979 Kansas	State Total	20	99	999
Wheat All	Irrigated	1980 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1980 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1980 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1980 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1980 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1980 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1980 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1980 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1980 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1980 Kansas	State Total	20	99	999
Wheat All	Irrigated	1981 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1981 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1981 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1981 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1981 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1981 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1981 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1981 Kansas	State Total	20	99	999

Wheat All	Total For Crop	1981 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1981 Kansas	State Total	20	99	999
Wheat All	Irrigated	1982 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1982 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1982 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1982 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1982 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1982 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1982 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1982 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1982 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1982 Kansas	State Total	20	99	999
Wheat All	Irrigated	1983 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1983 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1983 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1983 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1983 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1983 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1983 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1983 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1983 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1983 Kansas	State Total	20	99	999
Wheat All	Irrigated	1984 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1984 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1984 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1984 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1984 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1984 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1984 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1984 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1984 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1984 Kansas	State Total	20	99	999
Wheat All	Irrigated	1985 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1985 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1985 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1985 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1985 Kansas	D40 North Central	20	40	999

Wheat All	Non Irrigated: Following Summer Fallc	1985 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1985 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1985 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1985 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1985 Kansas	State Total	20	99	999
Wheat All	Irrigated	1986 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1986 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1986 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1986 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1986 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1986 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1986 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1986 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1986 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1986 Kansas	State Total	20	99	999
Wheat All	Irrigated	1987 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1987 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1987 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1987 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1987 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1987 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1987 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1987 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1987 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1987 Kansas	State Total	20	99	999
Wheat All	Irrigated	1988 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1988 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1988 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1988 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1988 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1988 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1988 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1988 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1988 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1988 Kansas	State Total	20	99	999
Wheat All	Irrigated	1989 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1989 Kansas	State Total	20	99	999

Wheat All	Non Irrigated Total	1989 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1989 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1989 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1989 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1989 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1989 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1989 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1989 Kansas	State Total	20	99	999
Wheat All	Irrigated	1990 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1990 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1990 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1990 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1990 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1990 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1990 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1990 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1990 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1990 Kansas	State Total	20	99	999
Wheat All	Irrigated	1991 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1991 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1991 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1991 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1991 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1991 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1991 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1991 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1991 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1991 Kansas	State Total	20	99	999
Wheat All	Irrigated	1992 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1992 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1992 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1992 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1992 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1992 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1992 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1992 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1992 Kansas	D40 North Central	20	40	999

Wheat All	Total For Crop	1992 Kansas	State Total	20	99	999
Wheat All	Irrigated	1993 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1993 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1993 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1993 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1993 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1993 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1993 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1993 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1993 Kansas	State Total	20	99	999
Wheat All	Irrigated	1994 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1994 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1994 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1994 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1994 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1994 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1994 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1994 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1994 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1994 Kansas	State Total	20	99	999
Wheat All	Irrigated	1995 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1995 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1995 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1995 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1995 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1995 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1995 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1995 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1995 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1995 Kansas	State Total	20	99	999
Wheat All	Irrigated	1996 Kansas	D40 North Central	20	40	999
Wheat All	Irrigated	1996 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1996 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1996 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1996 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1996 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1996 Kansas	D40 North Central	20	40	999

Wheat All	Non Irrigated: Continuous Cropping	1996 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1996 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1996 Kansas	State Total	20	99	999
Wheat All	Irrigated	1997 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1997 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1997 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1997 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1997 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1997 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1997 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1997 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1997 Kansas	State Total	20	99	999
Wheat All	Irrigated	1998 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1998 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1998 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1998 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1998 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1998 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1998 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1998 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1998 Kansas	State Total	20	99	999
Wheat All	Irrigated	1999 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	1999 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	1999 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	1999 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	1999 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	1999 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	1999 Kansas	State Total	20	99	999
Wheat All	Total For Crop	1999 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	1999 Kansas	State Total	20	99	999
Wheat All	Irrigated	2000 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	2000 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	2000 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	2000 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	2000 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	2000 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	2000 Kansas	State Total	20	99	999

Wheat All	Total For Crop	2000 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	2000 Kansas	State Total	20	99	999
Wheat All	Irrigated	2001 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	2001 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	2001 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	2001 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	2001 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	2001 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	2001 Kansas	State Total	20	99	999
Wheat All	Total For Crop	2001 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	2001 Kansas	State Total	20	99	999
Wheat All	Irrigated	2002 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	2002 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	2002 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	2002 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	2002 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	2002 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	2002 Kansas	State Total	20	99	999
Wheat All	Total For Crop	2002 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	2002 Kansas	State Total	20	99	999
Wheat All	Irrigated	2003 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	2003 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	2003 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	2003 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	2003 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	2003 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	2003 Kansas	State Total	20	99	999
Wheat All	Total For Crop	2003 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	2003 Kansas	State Total	20	99	999
Wheat All	Irrigated	2004 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	2004 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	2004 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	2004 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	2004 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	2004 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	2004 Kansas	State Total	20	99	999
Wheat All	Total For Crop	2004 Kansas	D40 North Central	20	40	999

Wheat All	Total For Crop	2004 Kansas	State Total	20	99	999
Wheat All	Irrigated	2005 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	2005 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	2005 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	2005 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	2005 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	2005 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	2005 Kansas	State Total	20	99	999
Wheat All	Total For Crop	2005 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	2005 Kansas	State Total	20	99	999
Wheat All	Irrigated	2006 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	2006 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	2006 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	2006 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	2006 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	2006 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	2006 Kansas	State Total	20	99	999
Wheat All	Total For Crop	2006 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	2006 Kansas	State Total	20	99	999
Wheat All	Irrigated	2007 Kansas	State Total	20	99	999
Wheat All	Non Irrigated Total	2007 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated Total	2007 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Following Summer Fallc	2007 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Following Summer Fallc	2007 Kansas	State Total	20	99	999
Wheat All	Non Irrigated: Continuous Cropping	2007 Kansas	D40 North Central	20	40	999
Wheat All	Non Irrigated: Continuous Cropping	2007 Kansas	State Total	20	99	999
Wheat All	Total For Crop	2007 Kansas	D40 North Central	20	40	999
Wheat All	Total For Crop	2007 Kansas	State Total	20	99	999
Rye	Total For Crop	1972 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1972 Kansas	State Total	20	99	999
Rye	Total For Crop	1973 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1973 Kansas	State Total	20	99	999
Rye	Total For Crop	1974 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1974 Kansas	State Total	20	99	999
Rye	Total For Crop	1975 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1975 Kansas	State Total	20	99	999
Rye	Total For Crop	1976 Kansas	D40 North Central	20	40	999

Rye	Total For Crop	1976 Kansas	State Total	20	99	999
Rye	Total For Crop	1977 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1977 Kansas	State Total	20	99	999
Rye	Total For Crop	1978 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1978 Kansas	State Total	20	99	999
Rye	Total For Crop	1979 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1979 Kansas	State Total	20	99	999
Rye	Total For Crop	1980 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1980 Kansas	State Total	20	99	999
Rye	Total For Crop	1981 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1981 Kansas	State Total	20	99	999
Rye	Total For Crop	1982 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1982 Kansas	State Total	20	99	999
Rye	Total For Crop	1983 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1983 Kansas	State Total	20	99	999
Rye	Total For Crop	1984 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1984 Kansas	State Total	20	99	999
Rye	Total For Crop	1985 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1985 Kansas	State Total	20	99	999
Rye	Total For Crop	1986 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1986 Kansas	State Total	20	99	999
Rye	Total For Crop	1987 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1987 Kansas	State Total	20	99	999
Rye	Total For Crop	1988 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1988 Kansas	State Total	20	99	999
Rye	Total For Crop	1989 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1989 Kansas	State Total	20	99	999
Rye	Total For Crop	1990 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1990 Kansas	State Total	20	99	999
Rye	Total For Crop	1991 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1991 Kansas	State Total	20	99	999
Rye	Total For Crop	1992 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1992 Kansas	State Total	20	99	999
Rye	Total For Crop	1993 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1993 Kansas	State Total	20	99	999
Rye	Total For Crop	1994 Kansas	D40 North Central	20	40	999
Rye	Total For Crop	1994 Kansas	State Total	20	99	999

Rye	Total For Crop	1995 Kansas	State Total	20	99	999
Rye	Total For Crop	1996 Kansas	State Total	20	99	999
Rye	Total For Crop	1997 Kansas	State Total	20	99	999
Rye	Total For Crop	1998 Kansas	State Total	20	99	999
Rye	Total For Crop	1999 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1970 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1970 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1971 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1971 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1972 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1972 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1972 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1972 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1972 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1972 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1973 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1973 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1973 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1973 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1973 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1973 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1974 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1974 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1974 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1974 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1974 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1974 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1975 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1975 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1975 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1975 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1975 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1975 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1976 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1976 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1976 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1976 Kansas	State Total	20	99	999

Corn For Grain	Total For Crop	1976 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1976 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1977 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1977 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1977 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1977 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1977 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1977 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1978 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1978 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1978 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1978 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1978 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1978 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1979 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1979 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1979 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1979 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1979 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1979 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1980 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1980 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1980 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1980 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1980 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1980 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1981 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1981 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1981 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1981 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1981 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1981 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1982 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1982 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1982 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1982 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1982 Kansas	D40 North Central	20	40	999

Corn For Grain	Total For Crop	1982 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1983 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1983 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1983 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1983 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1983 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1983 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1984 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1984 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1984 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1984 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1984 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1984 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1985 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1985 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1985 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1985 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1985 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1985 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1986 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1986 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1986 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1986 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1986 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1986 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1987 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1987 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1987 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1987 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1987 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1987 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1988 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1988 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1988 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1988 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1988 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1988 Kansas	State Total	20	99	999

Corn For Grain	Irrigated	1989 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1989 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1989 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1989 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1989 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1989 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1990 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1990 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1990 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1990 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1990 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1990 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1991 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1991 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1991 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1991 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1991 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1991 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1992 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1992 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1992 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1992 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1992 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1992 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1993 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1993 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1993 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1993 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1993 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1993 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1994 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1994 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1994 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1994 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1994 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1994 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1995 Kansas	D40 North Central	20	40	999

Corn For Grain	Irrigated	1995 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1995 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1995 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1995 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1995 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1996 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1996 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1996 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1996 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1996 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1996 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1997 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1997 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1997 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1997 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1997 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1997 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1998 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1998 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1998 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1998 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1998 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1998 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	1999 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	1999 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	1999 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	1999 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	1999 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	1999 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	2000 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	2000 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	2000 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	2000 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	2000 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	2000 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	2001 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	2001 Kansas	State Total	20	99	999

Corn For Grain	Non Irrigated Total	2001 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	2001 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	2001 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	2001 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	2002 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	2002 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	2002 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	2002 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	2002 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	2002 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	2003 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	2003 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	2003 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	2003 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	2003 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	2003 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	2004 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	2004 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	2004 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	2004 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	2004 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	2004 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	2005 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	2005 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	2005 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	2005 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	2005 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	2005 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	2006 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	2006 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	2006 Kansas	D40 North Central	20	40	999
Corn For Grain	Non Irrigated Total	2006 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	2006 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	2006 Kansas	State Total	20	99	999
Corn For Grain	Irrigated	2007 Kansas	D40 North Central	20	40	999
Corn For Grain	Irrigated	2007 Kansas	State Total	20	99	999
Corn For Grain	Non Irrigated Total	2007 Kansas	D40 North Central	20	40	999

Corn For Grain	Non Irrigated Total	2007 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	2007 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	2007 Kansas	State Total	20	99	999
Corn For Grain	Total For Crop	2008 Kansas	D40 North Central	20	40	999
Corn For Grain	Total For Crop	2008 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1970 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1970 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1971 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1971 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1972 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1972 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1973 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1973 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1974 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1974 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1975 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1975 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1976 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1976 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1977 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1977 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1978 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1978 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1979 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1979 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1980 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1980 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1981 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1981 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1982 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1982 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1983 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1983 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1984 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1984 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1985 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1985 Kansas	State Total	20	99	999

Corn For Silage	Total For Crop	1986 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1986 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1987 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1987 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1988 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1988 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1989 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1989 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1990 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1990 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1991 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1991 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1992 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1992 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1993 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1993 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1994 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1994 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1995 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1995 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1996 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1996 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1997 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1997 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1998 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1998 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	1999 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	1999 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	2000 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	2000 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	2001 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	2001 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	2002 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	2002 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	2003 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	2003 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	2004 Kansas	D40 North Central	20	40	999

Corn For Silage	Total For Crop	2004 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	2005 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	2005 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	2006 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	2006 Kansas	State Total	20	99	999
Corn For Silage	Total For Crop	2007 Kansas	D40 North Central	20	40	999
Corn For Silage	Total For Crop	2007 Kansas	State Total	20	99	999
Oats	Total For Crop	1972 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1972 Kansas	State Total	20	99	999
Oats	Total For Crop	1973 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1973 Kansas	State Total	20	99	999
Oats	Total For Crop	1974 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1974 Kansas	State Total	20	99	999
Oats	Total For Crop	1975 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1975 Kansas	State Total	20	99	999
Oats	Total For Crop	1976 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1976 Kansas	State Total	20	99	999
Oats	Total For Crop	1977 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1977 Kansas	State Total	20	99	999
Oats	Total For Crop	1978 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1978 Kansas	State Total	20	99	999
Oats	Total For Crop	1979 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1979 Kansas	State Total	20	99	999
Oats	Total For Crop	1980 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1980 Kansas	State Total	20	99	999
Oats	Total For Crop	1981 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1981 Kansas	State Total	20	99	999
Oats	Total For Crop	1982 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1982 Kansas	State Total	20	99	999
Oats	Total For Crop	1983 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1983 Kansas	State Total	20	99	999
Oats	Total For Crop	1984 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1984 Kansas	State Total	20	99	999
Oats	Total For Crop	1985 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1985 Kansas	State Total	20	99	999
Oats	Total For Crop	1986 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1986 Kansas	State Total	20	99	999

Oats	Total For Crop	1987 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1987 Kansas	State Total	20	99	999
Oats	Total For Crop	1988 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1988 Kansas	State Total	20	99	999
Oats	Total For Crop	1989 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1989 Kansas	State Total	20	99	999
Oats	Total For Crop	1990 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1990 Kansas	State Total	20	99	999
Oats	Total For Crop	1991 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1991 Kansas	State Total	20	99	999
Oats	Total For Crop	1992 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1992 Kansas	State Total	20	99	999
Oats	Total For Crop	1993 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1993 Kansas	State Total	20	99	999
Oats	Total For Crop	1994 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1994 Kansas	State Total	20	99	999
Oats	Total For Crop	1995 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1995 Kansas	State Total	20	99	999
Oats	Total For Crop	1996 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1996 Kansas	State Total	20	99	999
Oats	Total For Crop	1997 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1997 Kansas	State Total	20	99	999
Oats	Total For Crop	1998 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1998 Kansas	State Total	20	99	999
Oats	Total For Crop	1999 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	1999 Kansas	State Total	20	99	999
Oats	Total For Crop	2000 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	2000 Kansas	State Total	20	99	999
Oats	Total For Crop	2001 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	2001 Kansas	State Total	20	99	999
Oats	Total For Crop	2002 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	2002 Kansas	State Total	20	99	999
Oats	Total For Crop	2003 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	2003 Kansas	State Total	20	99	999
Oats	Total For Crop	2004 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	2004 Kansas	State Total	20	99	999
Oats	Total For Crop	2005 Kansas	D40 North Central	20	40	999

Oats	Total For Crop	2005 Kansas	State Total	20	99	999
Oats	Total For Crop	2006 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	2006 Kansas	State Total	20	99	999
Oats	Total For Crop	2007 Kansas	D40 North Central	20	40	999
Oats	Total For Crop	2007 Kansas	State Total	20	99	999
Barley All	Total For Crop	1972 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1972 Kansas	State Total	20	99	999
Barley All	Total For Crop	1973 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1973 Kansas	State Total	20	99	999
Barley All	Total For Crop	1974 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1974 Kansas	State Total	20	99	999
Barley All	Total For Crop	1975 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1975 Kansas	State Total	20	99	999
Barley All	Total For Crop	1976 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1976 Kansas	State Total	20	99	999
Barley All	Total For Crop	1977 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1977 Kansas	State Total	20	99	999
Barley All	Total For Crop	1978 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1978 Kansas	State Total	20	99	999
Barley All	Total For Crop	1979 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1979 Kansas	State Total	20	99	999
Barley All	Total For Crop	1980 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1980 Kansas	State Total	20	99	999
Barley All	Total For Crop	1981 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1981 Kansas	State Total	20	99	999
Barley All	Total For Crop	1982 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1982 Kansas	State Total	20	99	999
Barley All	Total For Crop	1983 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1983 Kansas	State Total	20	99	999
Barley All	Total For Crop	1984 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1984 Kansas	State Total	20	99	999
Barley All	Total For Crop	1985 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1985 Kansas	State Total	20	99	999
Barley All	Total For Crop	1986 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1986 Kansas	State Total	20	99	999
Barley All	Total For Crop	1987 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1987 Kansas	State Total	20	99	999

Barley All	Total For Crop	1988 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1988 Kansas	State Total	20	99	999
Barley All	Total For Crop	1989 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1989 Kansas	State Total	20	99	999
Barley All	Total For Crop	1990 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1990 Kansas	State Total	20	99	999
Barley All	Total For Crop	1991 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1991 Kansas	State Total	20	99	999
Barley All	Total For Crop	1992 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1992 Kansas	State Total	20	99	999
Barley All	Total For Crop	1993 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1993 Kansas	State Total	20	99	999
Barley All	Total For Crop	1994 Kansas	D40 North Central	20	40	999
Barley All	Total For Crop	1994 Kansas	State Total	20	99	999
Barley All	Total For Crop	1995 Kansas	State Total	20	99	999
Barley All	Total For Crop	1996 Kansas	State Total	20	99	999
Barley All	Total For Crop	1997 Kansas	State Total	20	99	999
Barley All	Total For Crop	1998 Kansas	State Total	20	99	999
Barley All	Total For Crop	1999 Kansas	State Total	20	99	999
Barley All	Total For Crop	2000 Kansas	State Total	20	99	999
Barley All	Total For Crop	2001 Kansas	State Total	20	99	999
Barley All	Total For Crop	2002 Kansas	State Total	20	99	999
Barley All	Total For Crop	2003 Kansas	State Total	20	99	999
Barley All	Total For Crop	2004 Kansas	State Total	20	99	999
Barley All	Total For Crop	2005 Kansas	State Total	20	99	999
Barley All	Total For Crop	2006 Kansas	State Total	20	99	999
Barley All	Total For Crop	2007 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1970 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1970 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1970 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1970 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1970 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1970 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1971 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1971 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1971 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1971 Kansas	State Total	20	99	999

Sorghum For Grain	Total For Crop	1971 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1971 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1972 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1972 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1972 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1972 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1972 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1972 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1973 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1973 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1973 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1973 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1973 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1973 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1974 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1974 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1974 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1974 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1974 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1974 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1975 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1975 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1975 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1975 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1975 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1975 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1976 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1976 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1976 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1976 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1976 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1976 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1977 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1977 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1977 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1977 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1977 Kansas	D40 North Central	20	40	999

Sorghum For Grain	Total For Crop	1977 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1978 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1978 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1978 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1978 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1978 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1978 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1979 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1979 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1979 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1979 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1979 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1979 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1980 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1980 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1980 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1980 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1980 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1980 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1981 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1981 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1981 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1981 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1981 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1981 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1982 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1982 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1982 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1982 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1982 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1982 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1983 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1983 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1983 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1983 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1983 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1983 Kansas	State Total	20	99	999

Sorghum For Grain	Irrigated	1984 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1984 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1984 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1984 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1984 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1984 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1985 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1985 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1985 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1985 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1985 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1985 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1986 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1986 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1986 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1986 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1986 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1986 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1987 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1987 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1987 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1987 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1987 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1987 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1988 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1988 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1988 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1988 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1988 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1988 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1989 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1989 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1989 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1989 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1989 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1989 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1990 Kansas	D40 North Central	20	40	999

Sorghum For Grain	Irrigated	1990 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1990 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1990 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1990 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1990 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1991 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1991 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1991 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1991 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1991 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1991 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1992 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1992 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1992 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1992 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1992 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1992 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1993 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1993 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1993 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1993 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1993 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1993 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1994 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1994 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1994 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1994 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1994 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1994 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1995 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1995 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1995 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1995 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1995 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1995 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1996 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1996 Kansas	State Total	20	99	999

Sorghum For Grain	Non Irrigated Total	1996 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1996 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1996 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1996 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1997 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1997 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1997 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1997 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1997 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1997 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1998 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1998 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1998 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1998 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1998 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1998 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	1999 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	1999 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	1999 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	1999 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	1999 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	1999 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	2000 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	2000 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	2000 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	2000 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	2000 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	2000 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	2001 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	2001 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	2001 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	2001 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	2001 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	2001 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	2002 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	2002 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	2002 Kansas	D40 North Central	20	40	999

Sorghum For Grain	Non Irrigated Total	2002 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	2002 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	2002 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	2003 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	2003 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	2003 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	2003 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	2003 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	2003 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	2004 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	2004 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	2004 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	2004 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	2004 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	2004 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	2005 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	2005 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	2005 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	2005 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	2005 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	2005 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	2006 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	2006 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	2006 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	2006 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	2006 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	2006 Kansas	State Total	20	99	999
Sorghum For Grain	Irrigated	2007 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Irrigated	2007 Kansas	State Total	20	99	999
Sorghum For Grain	Non Irrigated Total	2007 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Non Irrigated Total	2007 Kansas	State Total	20	99	999
Sorghum For Grain	Total For Crop	2007 Kansas	D40 North Central	20	40	999
Sorghum For Grain	Total For Crop	2007 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1970 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1970 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1971 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1971 Kansas	State Total	20	99	999

Sorghum For Silage	Total For Crop	1972 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1972 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1973 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1973 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1974 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1974 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1975 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1975 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1976 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1976 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1977 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1977 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1978 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1978 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1979 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1979 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1980 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1980 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1981 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1981 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1982 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1982 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1983 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1983 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1984 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1984 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1985 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1985 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1986 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1986 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1987 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1987 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1988 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1988 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1989 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1989 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1990 Kansas	D40 North Central	20	40	999

Sorghum For Silage	Total For Crop	1990 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1991 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1991 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1992 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1992 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1993 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1993 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1994 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1994 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1995 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1995 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1996 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1996 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1997 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1997 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1998 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1998 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	1999 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	1999 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	2000 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	2000 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	2001 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	2001 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	2002 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	2002 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	2003 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	2003 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	2004 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	2004 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	2005 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	2005 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	2006 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	2006 Kansas	State Total	20	99	999
Sorghum For Silage	Total For Crop	2007 Kansas	D40 North Central	20	40	999
Sorghum For Silage	Total For Crop	2007 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	1991 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	1992 Kansas	State Total	20	99	999

Cotton Upland	Total For Crop	1993 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	1994 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	1995 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	1996 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	1997 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	1998 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	1999 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	2000 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	2001 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	2002 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	2003 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	2004 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	2005 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	2006 Kansas	State Total	20	99	999
Cotton Upland	Total For Crop	2007 Kansas	State Total	20	99	999
Sugarbeets	Total For Crop	1972 Kansas	State Total	20	99	999
Sugarbeets	Total For Crop	1973 Kansas	State Total	20	99	999
Sugarbeets	Total For Crop	1974 Kansas	State Total	20	99	999
Sugarbeets	Total For Crop	1975 Kansas	State Total	20	99	999
Sugarbeets	Total For Crop	1976 Kansas	State Total	20	99	999
Sugarbeets	Total For Crop	1977 Kansas	State Total	20	99	999
Sugarbeets	Total For Crop	1978 Kansas	State Total	20	99	999
Sugarbeets	Total For Crop	1979 Kansas	State Total	20	99	999
Sugarbeets	Total For Crop	1980 Kansas	State Total	20	99	999
Sugarbeets	Total For Crop	1981 Kansas	State Total	20	99	999
Sugarbeets	Total For Crop	1982 Kansas	State Total	20	99	999
Sugarbeets	Total For Crop	1983 Kansas	State Total	20	99	999
Sugarbeets	Total For Crop	1984 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1970 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1970 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1971 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1971 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1972 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1972 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1973 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1973 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1974 Kansas	D40 North Central	20	40	999

Soybeans	Total For Crop	1974	Kansas	State Total	20	99	999
Soybeans	Total For Crop	1975	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1975	Kansas	State Total	20	99	999
Soybeans	Total For Crop	1976	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1976	Kansas	State Total	20	99	999
Soybeans	Total For Crop	1977	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1977	Kansas	State Total	20	99	999
Soybeans	Total For Crop	1978	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1978	Kansas	State Total	20	99	999
Soybeans	Total For Crop	1979	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1979	Kansas	State Total	20	99	999
Soybeans	Total For Crop	1980	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1980	Kansas	State Total	20	99	999
Soybeans	Total For Crop	1981	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1981	Kansas	State Total	20	99	999
Soybeans	Total For Crop	1982	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1982	Kansas	State Total	20	99	999
Soybeans	Total For Crop	1983	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1983	Kansas	State Total	20	99	999
Soybeans	Irrigated	1984	Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1984	Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1984	Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1984	Kansas	State Total	20	99	999
Soybeans	Total For Crop	1984	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1984	Kansas	State Total	20	99	999
Soybeans	Irrigated	1985	Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1985	Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1985	Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1985	Kansas	State Total	20	99	999
Soybeans	Total For Crop	1985	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1985	Kansas	State Total	20	99	999
Soybeans	Irrigated	1986	Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1986	Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1986	Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1986	Kansas	State Total	20	99	999
Soybeans	Total For Crop	1986	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1986	Kansas	State Total	20	99	999

Soybeans	Irrigated	1987 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1987 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1987 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1987 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1987 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1987 Kansas	State Total	20	99	999
Soybeans	Irrigated	1988 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1988 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1988 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1988 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1988 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1988 Kansas	State Total	20	99	999
Soybeans	Irrigated	1989 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1989 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1989 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1989 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1989 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1989 Kansas	State Total	20	99	999
Soybeans	Irrigated	1990 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1990 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1990 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1990 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1990 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1990 Kansas	State Total	20	99	999
Soybeans	Irrigated	1991 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1991 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1991 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1991 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1991 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1991 Kansas	State Total	20	99	999
Soybeans	Irrigated	1992 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1992 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1992 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1992 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1992 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1992 Kansas	State Total	20	99	999
Soybeans	Irrigated	1993 Kansas	D40 North Central	20	40	999

Soybeans	Irrigated	1993 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1993 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1993 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1993 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1993 Kansas	State Total	20	99	999
Soybeans	Irrigated	1994 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1994 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1994 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1994 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1994 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1994 Kansas	State Total	20	99	999
Soybeans	Irrigated	1995 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1995 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1995 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1995 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1995 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1995 Kansas	State Total	20	99	999
Soybeans	Irrigated	1996 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1996 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1996 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1996 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1996 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1996 Kansas	State Total	20	99	999
Soybeans	Irrigated	1997 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1997 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1997 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1997 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1997 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1997 Kansas	State Total	20	99	999
Soybeans	Irrigated	1998 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1998 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	1998 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1998 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1998 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1998 Kansas	State Total	20	99	999
Soybeans	Irrigated	1999 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	1999 Kansas	State Total	20	99	999

Soybeans	Non Irrigated Total	1999 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	1999 Kansas	State Total	20	99	999
Soybeans	Total For Crop	1999 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	1999 Kansas	State Total	20	99	999
Soybeans	Irrigated	2000 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	2000 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	2000 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	2000 Kansas	State Total	20	99	999
Soybeans	Total For Crop	2000 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	2000 Kansas	State Total	20	99	999
Soybeans	Irrigated	2001 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	2001 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	2001 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	2001 Kansas	State Total	20	99	999
Soybeans	Total For Crop	2001 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	2001 Kansas	State Total	20	99	999
Soybeans	Irrigated	2002 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	2002 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	2002 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	2002 Kansas	State Total	20	99	999
Soybeans	Total For Crop	2002 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	2002 Kansas	State Total	20	99	999
Soybeans	Irrigated	2003 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	2003 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	2003 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	2003 Kansas	State Total	20	99	999
Soybeans	Total For Crop	2003 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	2003 Kansas	State Total	20	99	999
Soybeans	Irrigated	2004 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	2004 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	2004 Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	2004 Kansas	State Total	20	99	999
Soybeans	Total For Crop	2004 Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	2004 Kansas	State Total	20	99	999
Soybeans	Irrigated	2005 Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	2005 Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	2005 Kansas	D40 North Central	20	40	999

Soybeans	Non Irrigated Total	2005	Kansas	State Total	20	99	999
Soybeans	Total For Crop	2005	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	2005	Kansas	State Total	20	99	999
Soybeans	Irrigated	2006	Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	2006	Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	2006	Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	2006	Kansas	State Total	20	99	999
Soybeans	Total For Crop	2006	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	2006	Kansas	State Total	20	99	999
Soybeans	Irrigated	2007	Kansas	D40 North Central	20	40	999
Soybeans	Irrigated	2007	Kansas	State Total	20	99	999
Soybeans	Non Irrigated Total	2007	Kansas	D40 North Central	20	40	999
Soybeans	Non Irrigated Total	2007	Kansas	State Total	20	99	999
Soybeans	Total For Crop	2007	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	2007	Kansas	State Total	20	99	999
Soybeans	Total For Crop	2008	Kansas	D40 North Central	20	40	999
Soybeans	Total For Crop	2008	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	1990	Kansas	D40 North Central	20	40	999
Sunflower Seed For Oil	Total For Crop	1990	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	1991	Kansas	D40 North Central	20	40	999
Sunflower Seed For Oil	Total For Crop	1991	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	1992	Kansas	D40 North Central	20	40	999
Sunflower Seed For Oil	Total For Crop	1992	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	1993	Kansas	D40 North Central	20	40	999
Sunflower Seed For Oil	Total For Crop	1993	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	1994	Kansas	D40 North Central	20	40	999
Sunflower Seed For Oil	Total For Crop	1994	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	1995	Kansas	D40 North Central	20	40	999
Sunflower Seed For Oil	Total For Crop	1995	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	1996	Kansas	D40 North Central	20	40	999
Sunflower Seed For Oil	Total For Crop	1996	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	1997	Kansas	D40 North Central	20	40	999
Sunflower Seed For Oil	Total For Crop	1997	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	1998	Kansas	D40 North Central	20	40	999
Sunflower Seed For Oil	Total For Crop	1998	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	1999	Kansas	D40 North Central	20	40	999
Sunflower Seed For Oil	Total For Crop	1999	Kansas	State Total	20	99	999

Sunflower Seed For Oil	Total For Crop	2000	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	2001	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	2002	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	2003	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	2004	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	2005	Kansas	D40 North Central	20	40	999
Sunflower Seed For Oil	Total For Crop	2005	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	2006	Kansas	State Total	20	99	999
Sunflower Seed For Oil	Total For Crop	2007	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	1990	Kansas	D40 North Central	20	40	999
Sunflower Seed Non-Oil	Total For Crop	1990	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	1991	Kansas	D40 North Central	20	40	999
Sunflower Seed Non-Oil	Total For Crop	1991	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	1992	Kansas	D40 North Central	20	40	999
Sunflower Seed Non-Oil	Total For Crop	1992	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	1993	Kansas	D40 North Central	20	40	999
Sunflower Seed Non-Oil	Total For Crop	1993	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	1994	Kansas	D40 North Central	20	40	999
Sunflower Seed Non-Oil	Total For Crop	1994	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	1995	Kansas	D40 North Central	20	40	999
Sunflower Seed Non-Oil	Total For Crop	1995	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	1996	Kansas	D40 North Central	20	40	999
Sunflower Seed Non-Oil	Total For Crop	1996	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	1997	Kansas	D40 North Central	20	40	999
Sunflower Seed Non-Oil	Total For Crop	1997	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	1998	Kansas	D40 North Central	20	40	999
Sunflower Seed Non-Oil	Total For Crop	1998	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	1999	Kansas	D40 North Central	20	40	999
Sunflower Seed Non-Oil	Total For Crop	1999	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	2000	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	2001	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	2002	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	2003	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	2004	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	2005	Kansas	D40 North Central	20	40	999
Sunflower Seed Non-Oil	Total For Crop	2005	Kansas	State Total	20	99	999
Sunflower Seed Non-Oil	Total For Crop	2006	Kansas	State Total	20	99	999

Sunflower Seed Non-Oil	Total For Crop	2007	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	1990	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	1990	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	1991	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	1991	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	1992	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	1992	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	1993	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	1993	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	1994	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	1994	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	1995	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	1995	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	1996	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	1996	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	1997	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	1997	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	1998	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	1998	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	1999	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	1999	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	2000	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	2000	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	2001	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	2001	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	2002	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	2002	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	2003	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	2003	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	2004	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	2004	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	2005	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	2005	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	2006	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	2006	Kansas	State Total	20	99	999
Sunflower All	Total For Crop	2007	Kansas	D40 North Central	20	40	999
Sunflower All	Total For Crop	2007	Kansas	State Total	20	99	999

Beans Dry Edible	Total For Crop	1972 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1973 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1974 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1975 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1976 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1977 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1978 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1979 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1980 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1981 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1982 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1983 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1984 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1985 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1986 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1987 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1988 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1989 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1990 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1991 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1992 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1993 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1994 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1995 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1996 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1997 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1998 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	1999 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	2000 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	2001 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	2002 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	2003 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	2004 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	2005 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	2006 Kansas	State Total	20	99	999
Beans Dry Edible	Total For Crop	2007 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1970 Kansas	D40 North Central	20	40	999

Hay Alfalfa (Dry)	Total For Crop	1970 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1971 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1971 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1972 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1972 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1973 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1973 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1974 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1974 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1975 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1975 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1976 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1976 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1977 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1977 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1978 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1978 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1979 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1979 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1980 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1980 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1981 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1981 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1982 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1982 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1983 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1983 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1984 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1984 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1985 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1985 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1986 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1986 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1987 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1987 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1988 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1988 Kansas	State Total	20	99	999

Hay Alfalfa (Dry)	Total For Crop	1989 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1989 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1990 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1990 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1991 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1991 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1992 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1992 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1993 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1993 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1994 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1994 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1995 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1995 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1996 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1996 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1997 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1997 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1998 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1998 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	1999 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	1999 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	2000 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	2000 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	2001 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	2001 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	2002 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	2002 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	2003 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	2003 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	2004 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	2004 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	2005 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	2005 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	2006 Kansas	D40 North Central	20	40	999
Hay Alfalfa (Dry)	Total For Crop	2006 Kansas	State Total	20	99	999
Hay Alfalfa (Dry)	Total For Crop	2007 Kansas	D40 North Central	20	40	999

Hay Alfalfa (Dry)	Total For Crop	2007 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1970 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1970 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1971 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1971 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1972 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1972 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1973 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1973 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1974 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1974 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1975 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1975 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1976 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1976 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1977 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1977 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1978 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1978 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1979 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1979 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1980 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1980 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1981 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1981 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1982 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1982 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1983 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1983 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1984 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1984 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1985 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1985 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1986 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1986 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1987 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1987 Kansas	State Total	20	99	999

Hay Other (Dry)	Total For Crop	1988 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1988 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1989 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1989 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1990 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1990 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1991 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1991 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1992 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1992 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1993 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1993 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1994 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1994 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1995 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1995 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1996 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1996 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1997 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1997 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1998 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1998 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	1999 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	1999 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	2000 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	2000 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	2001 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	2001 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	2002 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	2002 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	2003 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	2003 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	2004 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	2004 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	2005 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	2005 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	2006 Kansas	D40 North Central	20	40	999

Hay Other (Dry)	Total For Crop	2006 Kansas	State Total	20	99	999
Hay Other (Dry)	Total For Crop	2007 Kansas	D40 North Central	20	40	999
Hay Other (Dry)	Total For Crop	2007 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1970 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1970 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1971 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1971 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1972 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1972 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1973 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1973 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1974 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1974 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1975 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1975 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1976 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1976 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1977 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1977 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1978 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1978 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1979 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1979 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1980 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1980 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1981 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1981 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1982 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1982 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1983 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1983 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1984 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1984 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1985 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1985 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1986 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1986 Kansas	State Total	20	99	999

Hay All (Dry)	Total For Crop	1987 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1987 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1988 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1988 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1989 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1989 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1990 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1990 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1991 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1991 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1992 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1992 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1993 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1993 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1994 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1994 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1995 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1995 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1996 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1996 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1997 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1997 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1998 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1998 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	1999 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	1999 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	2000 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	2000 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	2001 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	2001 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	2002 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	2002 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	2003 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	2003 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	2004 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	2004 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	2005 Kansas	D40 North Central	20	40	999

Hay All (Dry)	Total For Crop	2005 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	2006 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	2006 Kansas	State Total	20	99	999
Hay All (Dry)	Total For Crop	2007 Kansas	D40 North Central	20	40	999
Hay All (Dry)	Total For Crop	2007 Kansas	State Total	20	99	999
Apples	Total For Crop	1972 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1972 Kansas	State Total	20	99	999
Apples	Total For Crop	1973 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1973 Kansas	State Total	20	99	999
Apples	Total For Crop	1974 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1974 Kansas	State Total	20	99	999
Apples	Total For Crop	1975 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1975 Kansas	State Total	20	99	999
Apples	Total For Crop	1976 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1976 Kansas	State Total	20	99	999
Apples	Total For Crop	1977 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1977 Kansas	State Total	20	99	999
Apples	Total For Crop	1978 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1978 Kansas	State Total	20	99	999
Apples	Total For Crop	1979 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1979 Kansas	State Total	20	99	999
Apples	Total For Crop	1980 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1980 Kansas	State Total	20	99	999
Apples	Total For Crop	1981 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1981 Kansas	State Total	20	99	999
Apples	Total For Crop	1982 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1982 Kansas	State Total	20	99	999
Apples	Total For Crop	1983 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1983 Kansas	State Total	20	99	999
Apples	Total For Crop	1984 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1984 Kansas	State Total	20	99	999
Apples	Total For Crop	1985 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1985 Kansas	State Total	20	99	999
Apples	Total For Crop	1986 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1986 Kansas	State Total	20	99	999
Apples	Total For Crop	1987 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1987 Kansas	State Total	20	99	999

Apples	Total For Crop	1988 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1988 Kansas	State Total	20	99	999
Apples	Total For Crop	1989 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1989 Kansas	State Total	20	99	999
Apples	Total For Crop	1990 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1990 Kansas	State Total	20	99	999
Apples	Total For Crop	1991 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1991 Kansas	State Total	20	99	999
Apples	Total For Crop	1992 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1992 Kansas	State Total	20	99	999
Apples	Total For Crop	1993 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1993 Kansas	State Total	20	99	999
Apples	Total For Crop	1994 Kansas	D40 North Central	20	40	999
Apples	Total For Crop	1994 Kansas	State Total	20	99	999
Apples	Total For Crop	1995 Kansas	State Total	20	99	999
Apples	Total For Crop	1996 Kansas	State Total	20	99	999
Apples	Total For Crop	1997 Kansas	State Total	20	99	999
Apples	Total For Crop	1998 Kansas	State Total	20	99	999
Apples	Total For Crop	1999 Kansas	State Total	20	99	999
Apples	Total For Crop	2000 Kansas	State Total	20	99	999
Apples	Total For Crop	2001 Kansas	State Total	20	99	999
Apples	Total For Crop	2002 Kansas	State Total	20	99	999

CommCode	PracCode	Planted All I	Planted All Harvested	Harvested_	Yield	Yield_unit	Production	Production_	Yield per N	Yield per N	Sucrose
10119999	1	227000	acres	203000	acres	45	bushel	9093000	bushel		
10119999	2	1093000	acres	1060000	acres	34	bushel	35578000	bushel		
10119999	2	9463000	acres	8858000	acres	33	bushel	2.9E+08	bushel		
10119999	3	539000	acres	528000	acres	37	bushel	19558000	bushel		
10119999	3	5151000	acres	4822000	acres	34	bushel	1.65E+08	bushel		
10119999	4	554000	acres	532000	acres	30	bushel	16020000	bushel		
10119999	4	4312000	acres	4036000	acres	31	bushel	1.24E+08	bushel		
10119999	9	1093000	acres	1060000	acres	34	bushel	35578000	bushel		
10119999	9	9690000	acres	9061000	acres	33	bushel	2.99E+08	bushel		
10119999	1	240000	acres	225000	acres	46	bushel	10318000	bushel		
10119999	2	1056000	acres	1010000	acres	40	bushel	40829000	bushel		
10119999	2	9353000	acres	8836000	acres	34	bushel	3.02E+08	bushel		
10119999	3	550000	acres	532000	acres	42	bushel	22361000	bushel		
10119999	3	5165000	acres	4993000	acres	34	bushel	1.72E+08	bushel		
10119999	4	506000	acres	478000	acres	39	bushel	18468000	bushel		
10119999	4	4188000	acres	3843000	acres	34	bushel	1.31E+08	bushel		
10119999	9	1056000	acres	1010000	acres	40	bushel	40829000	bushel		
10119999	9	9593000	acres	9061000	acres	35	bushel	3.13E+08	bushel		
10119999	1	2000	acres	2000	acres	44	bushel	88000	bushel		
10119999	1	279000	acres	243000	acres	48.3	bushel	11748000	bushel		
10119999	3	583000	acres	563000	acres	35.6	bushel	20030000	bushel		
10119999	3	5462000	acres	5076000	acres	32.9	bushel	1.67E+08	bushel		
10119999	4	536000	acres	477000	acres	34	bushel	16231000	bushel		
10119999	4	4559000	acres	4081000	acres	33.4	bushel	1.36E+08	bushel		
10119999	9	1121000	acres	1042000	acres	34.9	bushel	36349000	bushel		
10119999	9	10300000	acres	9400000	acres	33.5	bushel	3.15E+08	bushel		
10119999	1	1000	acres	1000	acres	55	bushel	55000	bushel		
10119999	1	276000	acres	262000	acres	43.5	bushel	11407000	bushel		
10119999	2	1167000	acres	1130000	acres	43.3	bushel	48930000	bushel		
10119999	2	10524000	acres	10138000	acres	36.8	bushel	3.73E+08	bushel		
10119999	3	643000	acres	622000	acres	46.1	bushel	28650000	bushel		
10119999	3	5976000	acres	5813000	acres	37.5	bushel	2.18E+08	bushel		
10119999	4	524000	acres	508000	acres	39.9	bushel	20280000	bushel		
10119999	4	4548000	acres	4325000	acres	35.9	bushel	1.55E+08	bushel		
10119999	9	1168000	acres	1131000	acres	43.3	bushel	48985000	bushel		
10119999	9	10800000	acres	10400000	acres	37	bushel	3.85E+08	bushel		

10119999	1	1000 acres	1000 acres	52 bushel	52000 bushel	52 bushel
10119999	1	330000 acres	324000 acres	36.8 bushel	11932000 bushel	36.2 bushel
10119999	2	1366000 acres	1311400 acres	28.6 bushel	37488000 bushel	27.4 bushel
10119999	2	11670000 acres	11276000 acres	27.2 bushel	3.07E+08 bushel	26.3 bushel
10119999	3	529600 acres	514400 acres	29.4 bushel	15119800 bushel	28.5 bushel
10119999	3	5715000 acres	5563000 acres	28.7 bushel	1.6E+08 bushel	28 bushel
10119999	4	836400 acres	797000 acres	28.1 bushel	22368200 bushel	26.7 bushel
10119999	4	5955000 acres	5713000 acres	25.8 bushel	1.47E+08 bushel	24.7 bushel
10119999	9	1367000 acres	1312400 acres	28.6 bushel	37540000 bushel	27.5 bushel
10119999	9	12000000 acres	11600000 acres	27.5 bushel	3.19E+08 bushel	26.6 bushel
10119999	1	1500 acres	1500 acres	42.6 bushel	63900 bushel	42.6 bushel
10119999	1	455000 acres	438000 acres	40.1 bushel	17558000 bushel	38.6 bushel
10119999	2	1523500 acres	1458200 acres	30.8 bushel	44920700 bushel	29.5 bushel
10119999	2	12345000 acres	11662000 acres	28.6 bushel	3.33E+08 bushel	27 bushel
10119999	3	529000 acres	521000 acres	34.5 bushel	17977900 bushel	34 bushel
10119999	3	5570000 acres	5251000 acres	29.8 bushel	1.57E+08 bushel	28.1 bushel
10119999	4	994500 acres	937200 acres	28.7 bushel	26942800 bushel	27.1 bushel
10119999	4	6775000 acres	6411000 acres	27.6 bushel	1.77E+08 bushel	26.1 bushel
10119999	9	1525000 acres	1459700 acres	30.8 bushel	44984600 bushel	29.5 bushel
10119999	9	12800000 acres	12100000 acres	29 bushel	3.51E+08 bushel	27.4 bushel
10119999	1	3600 acres	3400 acres	45.1 bushel	153200 bushel	42.6 bushel
10119999	1	463000 acres	429000 acres	37.7 bushel	16164000 bushel	34.9 bushel
10119999	2	1499400 acres	1429800 acres	37.1 bushel	53103700 bushel	35.4 bushel
10119999	2	12437000 acres	10871000 acres	29.7 bushel	3.23E+08 bushel	26 bushel
10119999	3	469000 acres	459100 acres	39.7 bushel	18210200 bushel	38.8 bushel
10119999	3	5452000 acres	4406000 acres	31.4 bushel	1.38E+08 bushel	25.4 bushel
10119999	4	1030400 acres	970700 acres	35.9 bushel	34893500 bushel	33.9 bushel
10119999	4	6985000 acres	6465000 acres	28.5 bushel	1.84E+08 bushel	26.4 bushel
10119999	9	1503000 acres	1433200 acres	37.2 bushel	53256900 bushel	35.4 bushel
10119999	9	12900000 acres	11300000 acres	30 bushel	3.39E+08 bushel	26.3 bushel
10119999	1	2600 acres	2500 acres	45 bushel	112500 bushel	43.3 bushel
10119999	1	492000 acres	461000 acres	40.9 bushel	18835000 bushel	38.3 bushel
10119999	2	1579400 acres	1495900 acres	28.3 bushel	42407000 bushel	26.9 bushel
10119999	2	12708000 acres	11639000 acres	28 bushel	3.26E+08 bushel	25.7 bushel
10119999	3	506000 acres	499100 acres	35.8 bushel	17846900 bushel	35.3 bushel
10119999	3	5802000 acres	5374000 acres	30.5 bushel	1.64E+08 bushel	28.2 bushel
10119999	4	1073400 acres	996800 acres	24.6 bushel	24560100 bushel	22.9 bushel

10119999	4	6906000 acres	6265000 acres	25.9 bushel	1.62E+08 bushel	23.5 bushel
10119999	9	1582000 acres	1498400 acres	28.4 bushel	42519500 bushel	26.9 bushel
10119999	9	13200000 acres	12100000 acres	28.5 bushel	3.45E+08 bushel	26.1 bushel
10119999	1	4000 acres	4000 acres	37.5 bushel	150000 bushel	37.5 bushel
10119999	1	489000 acres	457000 acres	39 bushel	17817000 bushel	36.4 bushel
10119999	2	1321000 acres	1256000 acres	30.8 bushel	38665000 bushel	29.3 bushel
10119999	2	10811000 acres	9543000 acres	29.6 bushel	2.82E+08 bushel	26.1 bushel
10119999	3	439000 acres	424000 acres	32.1 bushel	13597000 bushel	31 bushel
10119999	3	5235000 acres	4544000 acres	29.6 bushel	1.34E+08 bushel	25.7 bushel
10119999	4	882000 acres	832000 acres	30.1 bushel	25068000 bushel	28.4 bushel
10119999	4	5576000 acres	4999000 acres	29.6 bushel	1.48E+08 bushel	26.5 bushel
10119999	9	1325000 acres	1260000 acres	30.8 bushel	38815000 bushel	29.3 bushel
10119999	9	11300000 acres	10000000 acres	30 bushel	3E+08 bushel	26.5 bushel
10119999	1	3400 acres	3400 acres	42.4 bushel	144000 bushel	42.4 bushel
10119999	1	551000 acres	491000 acres	49.2 bushel	24178000 bushel	43.9 bushel
10119999	2	1427600 acres	1385600 acres	38.4 bushel	53193000 bushel	37.3 bushel
10119999	2	11549000 acres	10309000 acres	37.5 bushel	3.86E+08 bushel	33.4 bushel
10119999	3	625000 acres	612000 acres	41.2 bushel	25215000 bushel	40.3 bushel
10119999	3	6088000 acres	5213000 acres	37.4 bushel	1.95E+08 bushel	32 bushel
10119999	4	802600 acres	773600 acres	36.2 bushel	27978000 bushel	34.9 bushel
10119999	4	5461000 acres	5096000 acres	37.6 bushel	1.91E+08 bushel	35 bushel
10119999	9	1431000 acres	1389000 acres	38.4 bushel	53337000 bushel	37.3 bushel
10119999	9	12100000 acres	10800000 acres	38 bushel	4.1E+08 bushel	33.9 bushel
10119999	1	3000 acres	3000 acres	47 bushel	141000 bushel	47 bushel
10119999	1	604000 acres	572000 acres	44.4 bushel	25412000 bushel	42.1 bushel
10119999	2	1542000 acres	1462000 acres	38.2 bushel	55822000 bushel	36.2 bushel
10119999	2	12396000 acres	11428000 acres	34.5 bushel	3.95E+08 bushel	31.8 bushel
10119999	3	664000 acres	632000 acres	43.1 bushel	27239000 bushel	41 bushel
10119999	3	6224000 acres	5732000 acres	36.4 bushel	2.09E+08 bushel	33.5 bushel
10119999	4	878000 acres	830000 acres	34.4 bushel	28583000 bushel	32.6 bushel
10119999	4	6172000 acres	5696000 acres	32.7 bushel	1.86E+08 bushel	30.1 bushel
10119999	9	1545000 acres	1465000 acres	38.2 bushel	55963000 bushel	36.2 bushel
10119999	9	13000000 acres	12000000 acres	35 bushel	4.2E+08 bushel	32.3 bushel
10119999	1	6700 acres	5800 acres	25.7 bushel	149200 bushel	22.3 bushel
10119999	1	889000 acres	733000 acres	29.3 bushel	21479000 bushel	24.2 bushel
10119999	2	1666300 acres	1558300 acres	26.3 bushel	41021700 bushel	24.6 bushel
10119999	2	13011000 acres	11367000 acres	24.7 bushel	2.81E+08 bushel	21.6 bushel

10119999	3	467700 acres	450400 acres	33.3 bushel	15000200 bushel	32.1 bushel
10119999	3	5509000 acres	4573000 acres	21.2 bushel	97058000 bushel	17.6 bushel
10119999	4	1198600 acres	1107900 acres	23.5 bushel	26021500 bushel	21.7 bushel
10119999	4	7502000 acres	6794000 acres	27.1 bushel	1.84E+08 bushel	24.5 bushel
10119999	9	1673000 acres	1564100 acres	26.3 bushel	41170900 bushel	24.6 bushel
10119999	9	13900000 acres	12100000 acres	25 bushel	3.03E+08 bushel	21.8 bushel
10119999	1	13000 acres	13000 acres	48 bushel	623800 bushel	48 bushel
10119999	1	911000 acres	856000 acres	49.7 bushel	42526000 bushel	46.7 bushel
10119999	2	1749000 acres	1658200 acres	34.5 bushel	57177900 bushel	32.7 bushel
10119999	2	13189000 acres	12244000 acres	34 bushel	4.16E+08 bushel	31.5 bushel
10119999	3	509700 acres	495300 acres	40.1 bushel	19876800 bushel	39 bushel
10119999	3	5646000 acres	5231000 acres	35.6 bushel	1.86E+08 bushel	33 bushel
10119999	4	1239300 acres	1162900 acres	32.1 bushel	37301100 bushel	30.1 bushel
10119999	4	7543000 acres	7013000 acres	32.7 bushel	2.3E+08 bushel	30.4 bushel
10119999	9	1762000 acres	1671200 acres	34.6 bushel	57801700 bushel	32.8 bushel
10119999	9	14100000 acres	13100000 acres	35 bushel	4.59E+08 bushel	32.5 bushel
10119999	1	4800 acres	4300 acres	51.8 bushel	222800 bushel	46.4 bushel
10119999	1	838000 acres	665000 acres	55.3 bushel	36805000 bushel	43.9 bushel
10119999	2	1556200 acres	1362300 acres	46 bushel	62616600 bushel	40.2 bushel
10119999	2	12362000 acres	10135000 acres	40.6 bushel	4.11E+08 bushel	33.3 bushel
10119999	3	490400 acres	445300 acres	48.3 bushel	21504200 bushel	43.9 bushel
10119999	3	5330000 acres	4389000 acres	43.4 bushel	1.91E+08 bushel	35.8 bushel
10119999	4	1065800 acres	917000 acres	44.8 bushel	41112400 bushel	38.6 bushel
10119999	4	7032000 acres	5746000 acres	38.4 bushel	2.21E+08 bushel	31.4 bushel
10119999	9	1561000 acres	1366600 acres	46 bushel	62839400 bushel	40.3 bushel
10119999	9	13200000 acres	10800000 acres	41.5 bushel	4.48E+08 bushel	34 bushel
10119999	1	10000 acres	9200 acres	47.5 bushel	437000 bushel	43.7 bushel
10119999	1	933000 acres	842000 acres	55.5 bushel	46727000 bushel	50.1 bushel
10119999	2	1533000 acres	1322400 acres	37.5 bushel	49612500 bushel	32.4 bushel
10119999	2	12367000 acres	10358000 acres	37.1 bushel	3.84E+08 bushel	31.1 bushel
10119999	3	728000 acres	624200 acres	41 bushel	25593300 bushel	35.2 bushel
10119999	3	6396000 acres	5259000 acres	40 bushel	2.1E+08 bushel	32.9 bushel
10119999	4	805000 acres	698200 acres	34.4 bushel	24019200 bushel	29.8 bushel
10119999	4	5971000 acres	5099000 acres	34.2 bushel	1.74E+08 bushel	29.2 bushel
10119999	9	1543000 acres	1331600 acres	37.6 bushel	50049500 bushel	32.4 bushel
10119999	9	13300000 acres	11200000 acres	38.5 bushel	4.31E+08 bushel	32.4 bushel
10119999	1	8000 acres	7700 acres	45.3 bushel	348600 bushel	43.6 bushel

10119999	1	913000 acres	868000 acres	52.6 bushel	45627000 bushel	50 bushel
10119999	2	1394000 acres	1332300 acres	38.4 bushel	51137200 bushel	36.7 bushel
10119999	2	11487000 acres	10532000 acres	36.8 bushel	3.88E+08 bushel	33.7 bushel
10119999	3	658000 acres	631200 acres	40.2 bushel	25358100 bushel	38.5 bushel
10119999	3	6020000 acres	5606000 acres	40.6 bushel	2.28E+08 bushel	37.8 bushel
10119999	4	736000 acres	701100 acres	36.8 bushel	25779100 bushel	35 bushel
10119999	4	5467000 acres	4926000 acres	32.5 bushel	1.6E+08 bushel	29.3 bushel
10119999	9	1402000 acres	1340000 acres	38.4 bushel	51485800 bushel	36.7 bushel
10119999	9	12400000 acres	11400000 acres	38 bushel	4.33E+08 bushel	34.9 bushel
10119999	1	7000 acres	6600 acres	36 bushel	237600 bushel	33.9 bushel
10119999	1	827000 acres	752000 acres	50.8 bushel	38209000 bushel	46.2 bushel
10119999	2	1351000 acres	1233000 acres	31.1 bushel	38304000 bushel	28.4 bushel
10119999	2	10673000 acres	9448000 acres	31.6 bushel	2.98E+08 bushel	28 bushel
10119999	3	689000 acres	634500 acres	33.4 bushel	21205000 bushel	30.8 bushel
10119999	3	6083000 acres	5698000 acres	32.9 bushel	1.87E+08 bushel	30.8 bushel
10119999	4	662000 acres	598500 acres	28.6 bushel	17099000 bushel	25.8 bushel
10119999	4	4590000 acres	3750000 acres	29.6 bushel	1.11E+08 bushel	24.2 bushel
10119999	9	1358000 acres	1239600 acres	31.1 bushel	38541600 bushel	28.4 bushel
10119999	9	11500000 acres	10200000 acres	33 bushel	3.37E+08 bushel	29.3 bushel
10119999	1	5000 acres	5000 acres	53 bushel	265000 bushel	53 bushel
10119999	1	737000 acres	690000 acres	47.8 bushel	32984000 bushel	44.8 bushel
10119999	2	1326000 acres	1261000 acres	42.4 bushel	53428100 bushel	40.3 bushel
10119999	2	9963000 acres	9210000 acres	36.2 bushel	3.33E+08 bushel	33.5 bushel
10119999	3	701000 acres	673200 acres	44 bushel	29651000 bushel	42.3 bushel
10119999	3	5961000 acres	5591000 acres	38.4 bushel	2.15E+08 bushel	36 bushel
10119999	4	625000 acres	587800 acres	40.5 bushel	23777100 bushel	38 bushel
10119999	4	4002000 acres	3619000 acres	32.8 bushel	1.19E+08 bushel	29.6 bushel
10119999	9	1331000 acres	1266000 acres	42.4 bushel	53693100 bushel	40.3 bushel
10119999	9	10700000 acres	9900000 acres	37 bushel	3.66E+08 bushel	34.2 bushel
10119999	1	5000 acres	5000 acres	39.2 bushel	196000 bushel	39.2 bushel
10119999	1	663000 acres	611000 acres	48 bushel	29314000 bushel	44.2 bushel
10119999	2	1230000 acres	1176000 acres	34.2 bushel	40239000 bushel	32.7 bushel
10119999	2	9537000 acres	8889000 acres	33 bushel	2.94E+08 bushel	30.8 bushel
10119999	3	645000 acres	623200 acres	35.9 bushel	22381000 bushel	34.7 bushel
10119999	3	5257000 acres	4865000 acres	31.8 bushel	1.55E+08 bushel	29.4 bushel
10119999	4	585000 acres	552800 acres	32.3 bushel	17858000 bushel	30.5 bushel
10119999	4	4280000 acres	4024000 acres	34.5 bushel	1.39E+08 bushel	32.5 bushel

10119999	9	1235000 acres	1181000 acres	34.2 bushel	40435000 bushel	32.7 bushel
10119999	9	10200000 acres	9500000 acres	34 bushel	3.23E+08 bushel	31.7 bushel
10119999	1	3000 acres	2000 acres	34.5 bushel	69000 bushel	23 bushel
10119999	1	846000 acres	682000 acres	42.8 bushel	29195000 bushel	34.5 bushel
10119999	2	1422000 acres	713000 acres	17 bushel	12120000 bushel	8.5 bushel
10119999	2	11554000 acres	8218000 acres	22.4 bushel	1.84E+08 bushel	16 bushel
10119999	3	647000 acres	393000 acres	18.8 bushel	7402000 bushel	11.4 bushel
10119999	3	5796000 acres	4270000 acres	22.6 bushel	96553000 bushel	16.7 bushel
10119999	4	775000 acres	320000 acres	14.7 bushel	4718000 bushel	6.1 bushel
10119999	4	5758000 acres	3948000 acres	22.3 bushel	87852000 bushel	15.3 bushel
10119999	9	1425000 acres	715000 acres	17 bushel	12189000 bushel	8.6 bushel
10119999	9	12400000 acres	8900000 acres	24 bushel	2.14E+08 bushel	17.2 bushel
10119999	1	5000 acres	4500 acres	50 bushel	225000 bushel	45 bushel
10119999	1	845000 acres	807000 acres	53.8 bushel	43419000 bushel	51.4 bushel
10119999	2	1420000 acres	1375500 acres	45.6 bushel	62775000 bushel	44.2 bushel
10119999	2	11555000 acres	10993000 acres	39 bushel	4.29E+08 bushel	37.1 bushel
10119999	3	550000 acres	535500 acres	46.9 bushel	25125000 bushel	45.7 bushel
10119999	3	5545000 acres	5302000 acres	42.5 bushel	2.25E+08 bushel	40.7 bushel
10119999	4	870000 acres	840000 acres	44.8 bushel	37650000 bushel	43.3 bushel
10119999	4	6010000 acres	5691000 acres	35.7 bushel	2.03E+08 bushel	33.8 bushel
10119999	9	1425000 acres	1380000 acres	45.7 bushel	63000000 bushel	44.2 bushel
10119999	9	12400000 acres	11800000 acres	40 bushel	4.72E+08 bushel	38.1 bushel
10119999	1	1000 acres	1000 acres	40 bushel	40000 bushel	
10119999	1	773000 acres	731000 acres	50.6 bushel	37005000 bushel	
10119999	2	1349000 acres	1283000 acres	33 bushel	42320000 bushel	
10119999	2	11027000 acres	10269000 acres	31.7 bushel	3.26E+08 bushel	
10119999	3	452000 acres	436000 acres	34 bushel	14820000 bushel	
10119999	3	4991000 acres	4687000 acres	32.3 bushel	1.51E+08 bushel	
10119999	4	897000 acres	847000 acres	32.5 bushel	27500000 bushel	
10119999	4	6036000 acres	5582000 acres	31.3 bushel	1.75E+08 bushel	
10119999	9	1350000 acres	1284000 acres	33 bushel	42360000 bushel	
10119999	9	11800000 acres	11000000 acres	33 bushel	3.63E+08 bushel	
10119999	1	1000 acres	1000 acres	55 bushel	55000 bushel	
10119999	1	775000 acres	738000 acres	53.7 bushel	39623000 bushel	
10119999	2	1449000 acres	1310000 acres	36 bushel	47193000 bushel	
10119999	2	11225000 acres	9962000 acres	32.5 bushel	3.24E+08 bushel	
10119999	3	495000 acres	454000 acres	38 bushel	17233000 bushel	

10119999	3	5115000 acres	4433000 acres	31.6 bushel	1.4E+08 bushel
10119999	4	954000 acres	856000 acres	35 bushel	29960000 bushel
10119999	4	6110000 acres	5529000 acres	33.3 bushel	1.84E+08 bushel
10119999	9	1450000 acres	1311000 acres	36 bushel	47248000 bushel
10119999	9	12000000 acres	10700000 acres	34 bushel	3.64E+08 bushel
10119999	1	737000 acres	707000 acres	52.3 bushel	36971000 bushel
10119999	2	1475000 acres	1180000 acres	30.3 bushel	35807000 bushel
10119999	2	11363000 acres	10393000 acres	33.8 bushel	3.52E+08 bushel
10119999	3	450000 acres	380000 acres	32.1 bushel	12187000 bushel
10119999	3	5188000 acres	4865000 acres	37.9 bushel	1.84E+08 bushel
10119999	4	1025000 acres	800000 acres	29.5 bushel	23620000 bushel
10119999	4	6175000 acres	5528000 acres	30.3 bushel	1.67E+08 bushel
10119999	9	1475000 acres	1180000 acres	30.3 bushel	35807000 bushel
10119999	9	12100000 acres	11100000 acres	35 bushel	3.89E+08 bushel
10119999	1	2000 acres	1800 acres	48.3 bushel	87000 bushel
10119999	1	730000 acres	680000 acres	48 bushel	32640000 bushel
10119999	2	1498000 acres	1473200 acres	40.3 bushel	59311000 bushel
10119999	2	11170000 acres	10720000 acres	37.4 bushel	4.01E+08 bushel
10119999	3	440000 acres	435200 acres	42.6 bushel	18520000 bushel
10119999	3	4825000 acres	4621000 acres	37.9 bushel	1.75E+08 bushel
10119999	4	1058000 acres	1038000 acres	39.3 bushel	40791000 bushel
10119999	4	6345000 acres	6099000 acres	37 bushel	2.25E+08 bushel
10119999	9	1500000 acres	1475000 acres	40.3 bushel	59398000 bushel
10119999	9	11900000 acres	11400000 acres	38 bushel	4.33E+08 bushel
10119999	1	1000 acres	1000 acres	25 bushel	25000 bushel
10119999	1	700000 acres	626000 acres	31 bushel	19500000 bushel
10119999	2	1524000 acres	1459000 acres	32 bushel	47040000 bushel
10119999	2	11000000 acres	10374000 acres	26 bushel	2.67E+08 bushel
10119999	3	417000 acres	392000 acres	36 bushel	14020000 bushel
10119999	3	4675000 acres	4382000 acres	28 bushel	1.21E+08 bushel
10119999	4	1107000 acres	1067000 acres	31 bushel	33020000 bushel
10119999	4	6325000 acres	5992000 acres	24 bushel	1.46E+08 bushel
10119999	9	1525000 acres	1460000 acres	32 bushel	47065000 bushel
10119999	9	11700000 acres	11000000 acres	26 bushel	2.86E+08 bushel
10119999	1	2000 acres	1000 acres	47 bushel	47000 bushel
10119999	1	710000 acres	520000 acres	38 bushel	19600000 bushel
10119999	2	1441000 acres	1248000 acres	36 bushel	45043000 bushel

10119999	2	11090000 acres	8280000 acres	28 bushel	2.36E+08 bushel
10119999	3	383000 acres	327000 acres	36 bushel	11897000 bushel
10119999	3	4670000 acres	3010000 acres	27 bushel	81121000 bushel
10119999	4	1058000 acres	921000 acres	36 bushel	33146000 bushel
10119999	4	6420000 acres	5270000 acres	29 bushel	1.54E+08 bushel
10119999	9	1443000 acres	1249000 acres	36 bushel	45090000 bushel
10119999	9	11800000 acres	8800000 acres	29 bushel	2.55E+08 bushel
10119999	1	649000 acres	614000 acres	50 bushel	30426000 bushel
10119999	2	1455000 acres	1387000 acres	51 bushel	70737000 bushel
10119999	2	10751000 acres	10286000 acres	46 bushel	4.71E+08 bushel
10119999	3	353000 acres	336000 acres	49 bushel	16464000 bushel
10119999	3	4490000 acres	4286000 acres	40 bushel	1.71E+08 bushel
10119999	4	1102000 acres	1051000 acres	52 bushel	54273000 bushel
10119999	4	6261000 acres	6000000 acres	50 bushel	3E+08 bushel
10119999	9	1455000 acres	1387000 acres	51 bushel	70737000 bushel
10119999	9	11400000 acres	10900000 acres	46 bushel	5.01E+08 bushel
10119999	1	610000 acres	568000 acres	60 bushel	34362000 bushel
10119999	2	1360000 acres	1315000 acres	55 bushel	72938000 bushel
10119999	2	10090000 acres	9532000 acres	48 bushel	4.61E+08 bushel
10119999	3	345000 acres	329000 acres	58 bushel	19179000 bushel
10119999	3	4220000 acres	3952000 acres	51 bushel	2.02E+08 bushel
10119999	4	1015000 acres	986000 acres	55 bushel	53759000 bushel
10119999	4	5870000 acres	5580000 acres	46 bushel	2.59E+08 bushel
10119999	9	1360000 acres	1315000 acres	55 bushel	72938000 bushel
10119999	9	10700000 acres	10100000 acres	49 bushel	4.95E+08 bushel
10119999	1	580000 acres	555000 acres	62 bushel	34625000 bushel
10119999	2	1344000 acres	1250000 acres	49 bushel	60960000 bushel
10119999	2	9420000 acres	8645000 acres	46 bushel	3.98E+08 bushel
10119999	3	327000 acres	279000 acres	48 bushel	13455000 bushel
10119999	3	4104000 acres	3631000 acres	48 bushel	1.75E+08 bushel
10119999	4	1017000 acres	971000 acres	49 bushel	47505000 bushel
10119999	4	5316000 acres	5014000 acres	44 bushel	2.23E+08 bushel
10119999	9	1344000 acres	1250000 acres	49 bushel	60960000 bushel
10119999	9	10000000 acres	9200000 acres	47 bushel	4.32E+08 bushel
10119999	1	540000 acres	510000 acres	45 bushel	22724000 bushel
10119999	2	1290000 acres	1225000 acres	39 bushel	47345000 bushel
10119999	2	9260000 acres	8890000 acres	37 bushel	3.25E+08 bushel

10119999	3	320000 acres	305000 acres	41 bushel	12595000 bushel
10119999	3	3733000 acres	3605000 acres	35 bushel	1.27E+08 bushel
10119999	4	970000 acres	920000 acres	38 bushel	34750000 bushel
10119999	4	5527000 acres	5285000 acres	37 bushel	1.98E+08 bushel
10119999	9	1290000 acres	1225000 acres	39 bushel	47345000 bushel
10119999	9	9800000 acres	9400000 acres	37 bushel	3.48E+08 bushel
10119999	1	550000 acres	485000 acres	52 bushel	25460000 bushel
10119999	2	1350000 acres	1155000 acres	40 bushel	45775000 bushel
10119999	2	9250000 acres	7715000 acres	39 bushel	3.03E+08 bushel
10119999	3	290000 acres	245000 acres	42 bushel	10170000 bushel
10119999	3	3790000 acres	2955000 acres	38 bushel	1.12E+08 bushel
10119999	4	1060000 acres	910000 acres	39 bushel	35605000 bushel
10119999	4	5460000 acres	4760000 acres	40 bushel	1.91E+08 bushel
10119999	9	1350000 acres	1155000 acres	40 bushel	45775000 bushel
10119999	9	9800000 acres	8200000 acres	40 bushel	3.28E+08 bushel
10119999	1	605000 acres	490000 acres	41 bushel	19925000 bushel
10119999	2	1245000 acres	1135000 acres	38 bushel	43405000 bushel
10119999	2	9095000 acres	7710000 acres	33 bushel	2.51E+08 bushel
10119999	3	300000 acres	263000 acres	37 bushel	9675000 bushel
10119999	3	3765000 acres	2990000 acres	29 bushel	85465000 bushel
10119999	4	945000 acres	872000 acres	39 bushel	33730000 bushel
10119999	4	5330000 acres	4720000 acres	35 bushel	1.65E+08 bushel
10119999	9	1245000 acres	1135000 acres	38 bushel	43405000 bushel
10119999	9	9700000 acres	8200000 acres	33 bushel	2.71E+08 bushel
10119999	1	580000 acres	560000 acres	56 bushel	31300000 bushel
10119999	2	1340000 acres	1290000 acres	59 bushel	75920000 bushel
10119999	2	9920000 acres	9440000 acres	48 bushel	4.49E+08 bushel
10119999	3	310000 acres	299000 acres	57 bushel	17040000 bushel
10119999	3	4120000 acres	3915000 acres	43 bushel	1.67E+08 bushel
10119999	4	1030000 acres	991000 acres	59 bushel	58880000 bushel
10119999	4	5800000 acres	5525000 acres	51 bushel	2.82E+08 bushel
10119999	9	1340000 acres	1290000 acres	59 bushel	75920000 bushel
10119999	9	10500000 acres	10000000 acres	48 bushel	4.8E+08 bushel
10119999	1	630000 acres	580000 acres	45 bushel	26000000 bushel
10119999	2	1355000 acres	1275000 acres	42 bushel	53590000 bushel
10119999	2	9370000 acres	7920000 acres	36 bushel	2.89E+08 bushel
10119999	3	300000 acres	288000 acres	41 bushel	11790000 bushel

10119999	3	3765000	acres	2920000	acres	29 bushel 84960000 bushel
10119999	4	1055000	acres	987000	acres	42 bushel 41800000 bushel
10119999	4	5605000	acres	5000000	acres	41 bushel 2.04E+08 bushel
10119999	9	1355000	acres	1275000	acres	42 bushel 53590000 bushel
10119999	9	10000000	acres	8500000	acres	37 bushel 3.15E+08 bushel
10119999	1	590000	acres	565000	acres	53 bushel 30000000 bushel
10119999	2	1365000	acres	1320000	acres	41 bushel 54030000 bushel
10119999	2	9410000	acres	8935000	acres	39 bushel 3.5E+08 bushel
10119999	3	290000	acres	285000	acres	45 bushel 12881000 bushel
10119999	3	3975000	acres	3765000	acres	39 bushel 1.48E+08 bushel
10119999	4	1075000	acres	1035000	acres	40 bushel 41149000 bushel
10119999	4	5435000	acres	5170000	acres	39 bushel 2.02E+08 bushel
10119999	9	1365000	acres	1320000	acres	41 bushel 54030000 bushel
10119999	9	10000000	acres	9500000	acres	40 bushel 3.8E+08 bushel
10119999	1	670000	acres	620000	acres	39 bushel 23900000 bushel
10119999	2	1350000	acres	1330000	acres	42 bushel 55270000 bushel
10119999	2	9130000	acres	8480000	acres	32 bushel 2.67E+08 bushel
10119999	3	270000	acres	262000	acres	42 bushel 10960000 bushel
10119999	3	3665000	acres	3310000	acres	25 bushel 83985000 bushel
10119999	4	1080000	acres	1068000	acres	41 bushel 44310000 bushel
10119999	4	5465000	acres	5170000	acres	35 bushel 1.83E+08 bushel
10119999	9	1350000	acres	1330000	acres	42 bushel 55270000 bushel
10119999	9	9800000	acres	9100000	acres	32 bushel 2.91E+08 bushel
10119999	1	700000	acres	640000	acres	53 bushel 33800000 bushel
10119999	2	1420000	acres	1320000	acres	32 bushel 41600000 bushel
10119999	2	9700000	acres	7960000	acres	31 bushel 2.5E+08 bushel
10119999	3	305000	acres	281000	acres	36 bushel 10160000 bushel
10119999	3	3600000	acres	3335000	acres	40 bushel 1.34E+08 bushel
10119999	4	1115000	acres	1039000	acres	30 bushel 31440000 bushel
10119999	4	6100000	acres	4625000	acres	25 bushel 1.16E+08 bushel
10119999	9	1420000	acres	1320000	acres	32 bushel 41600000 bushel
10119999	9	10400000	acres	8600000	acres	33 bushel 2.84E+08 bushel
10119999	9	1205000	acres	1175000	acres	43 bushel 51100000 bushel
10119999	9	9900000	acres	9400000	acres	39 bushel 3.67E+08 bushel
10199999	1	227000	acres	203000	acres	45 bushel 9093000 bushel
10199999	2	1093000	acres	1060000	acres	34 bushel 35578000 bushel
10199999	2	9463000	acres	8858000	acres	33 bushel 2.9E+08 bushel

10199999	3	539000	acres	528000	acres	37	bushel	19558000	bushel
10199999	3	5151000	acres	4822000	acres	34	bushel	1.65E+08	bushel
10199999	4	554000	acres	532000	acres	30	bushel	16020000	bushel
10199999	4	4312000	acres	4036000	acres	31	bushel	1.24E+08	bushel
10199999	9	1093000	acres	1060000	acres	34	bushel	35578000	bushel
10199999	9	9690000	acres	9061000	acres	33	bushel	2.99E+08	bushel
10199999	1	240000	acres	225000	acres	46	bushel	10318000	bushel
10199999	2	1056000	acres	1010000	acres	40	bushel	40829000	bushel
10199999	2	9353000	acres	8836000	acres	34	bushel	3.02E+08	bushel
10199999	3	550000	acres	532000	acres	42	bushel	22361000	bushel
10199999	3	5165000	acres	4993000	acres	34	bushel	1.72E+08	bushel
10199999	4	506000	acres	478000	acres	39	bushel	18468000	bushel
10199999	4	4188000	acres	3843000	acres	34	bushel	1.31E+08	bushel
10199999	9	1056000	acres	1010000	acres	40	bushel	40829000	bushel
10199999	9	9593000	acres	9061000	acres	35	bushel	3.13E+08	bushel
10199999	1	2000	acres	2000	acres	44	bushel	88000	bushel
10199999	1	279000	acres	243000	acres	48.3	bushel	11748000	bushel
10199999	3	583000	acres	563000	acres	35.6	bushel	20030000	bushel
10199999	3	5462000	acres	5076000	acres	32.9	bushel	1.67E+08	bushel
10199999	4	536000	acres	477000	acres	34	bushel	16231000	bushel
10199999	4	4559000	acres	4081000	acres	33.4	bushel	1.36E+08	bushel
10199999	9	1121000	acres	1042000	acres	34.9	bushel	36349000	bushel
10199999	9	10300000	acres	9400000	acres	33.5	bushel	3.15E+08	bushel
10199999	1	1000	acres	1000	acres	55	bushel	55000	bushel
10199999	1	276000	acres	262000	acres	43.5	bushel	11407000	bushel
10199999	2	1167000	acres	1130000	acres	43.3	bushel	48930000	bushel
10199999	2	10524000	acres	10138000	acres	36.8	bushel	3.73E+08	bushel
10199999	3	643000	acres	622000	acres	46.1	bushel	28650000	bushel
10199999	3	5976000	acres	5813000	acres	37.5	bushel	2.18E+08	bushel
10199999	4	524000	acres	508000	acres	39.9	bushel	20280000	bushel
10199999	4	4548000	acres	4325000	acres	35.9	bushel	1.55E+08	bushel
10199999	9	1168000	acres	1131000	acres	43.3	bushel	48985000	bushel
10199999	9	10800000	acres	10400000	acres	37	bushel	3.85E+08	bushel
10199999	1	1000	acres	1000	acres	52	bushel	52000	bushel	52	bushel
10199999	1	330000	acres	324000	acres	36.8	bushel	11932000	bushel	36.2	bushel
10199999	2	1366000	acres	1311400	acres	28.6	bushel	37488000	bushel	27.4	bushel
10199999	2	11670000	acres	11276000	acres	27.2	bushel	3.07E+08	bushel	26.3	bushel

10199999	3	529600 acres	514400 acres	29.4 bushel	15119800 bushel	28.5 bushel
10199999	3	5715000 acres	5563000 acres	28.7 bushel	1.6E+08 bushel	28 bushel
10199999	4	836400 acres	797000 acres	28.1 bushel	22368200 bushel	26.7 bushel
10199999	4	5955000 acres	5713000 acres	25.8 bushel	1.47E+08 bushel	24.7 bushel
10199999	9	1367000 acres	1312400 acres	28.6 bushel	37540000 bushel	27.5 bushel
10199999	9	12000000 acres	11600000 acres	27.5 bushel	3.19E+08 bushel	26.6 bushel
10199999	1	1500 acres	1500 acres	42.6 bushel	63900 bushel	42.6 bushel
10199999	1	455000 acres	438000 acres	40.1 bushel	17558000 bushel	38.6 bushel
10199999	2	1523500 acres	1458200 acres	30.8 bushel	44920700 bushel	29.5 bushel
10199999	2	12345000 acres	11662000 acres	28.6 bushel	3.33E+08 bushel	27 bushel
10199999	3	529000 acres	521000 acres	34.5 bushel	17977900 bushel	34 bushel
10199999	3	5570000 acres	5251000 acres	29.8 bushel	1.57E+08 bushel	28.1 bushel
10199999	4	994500 acres	937200 acres	28.7 bushel	26942800 bushel	27.1 bushel
10199999	4	6775000 acres	6411000 acres	27.6 bushel	1.77E+08 bushel	26.1 bushel
10199999	9	1525000 acres	1459700 acres	30.8 bushel	44984600 bushel	29.5 bushel
10199999	9	12800000 acres	12100000 acres	29 bushel	3.51E+08 bushel	27.4 bushel
10199999	1	3600 acres	3400 acres	45.1 bushel	153200 bushel	42.6 bushel
10199999	1	463000 acres	429000 acres	37.7 bushel	16164000 bushel	34.9 bushel
10199999	2	1499400 acres	1429800 acres	37.1 bushel	53103700 bushel	35.4 bushel
10199999	2	12437000 acres	10871000 acres	29.7 bushel	3.23E+08 bushel	26 bushel
10199999	3	469000 acres	459100 acres	39.7 bushel	18210200 bushel	38.8 bushel
10199999	3	5452000 acres	4406000 acres	31.4 bushel	1.38E+08 bushel	25.4 bushel
10199999	4	1030400 acres	970700 acres	35.9 bushel	34893500 bushel	33.9 bushel
10199999	4	6985000 acres	6465000 acres	28.5 bushel	1.84E+08 bushel	26.4 bushel
10199999	9	1503000 acres	1433200 acres	37.2 bushel	53256900 bushel	35.4 bushel
10199999	9	12900000 acres	11300000 acres	30 bushel	3.39E+08 bushel	26.3 bushel
10199999	1	2600 acres	2500 acres	45 bushel	112500 bushel	43.3 bushel
10199999	1	492000 acres	461000 acres	40.9 bushel	18835000 bushel	38.3 bushel
10199999	2	1579400 acres	1495900 acres	28.3 bushel	42407000 bushel	26.9 bushel
10199999	2	12708000 acres	11639000 acres	28 bushel	3.26E+08 bushel	25.7 bushel
10199999	3	506000 acres	499100 acres	35.8 bushel	17846900 bushel	35.3 bushel
10199999	3	5802000 acres	5374000 acres	30.5 bushel	1.64E+08 bushel	28.2 bushel
10199999	4	1073400 acres	996800 acres	24.6 bushel	24560100 bushel	22.9 bushel
10199999	4	6906000 acres	6265000 acres	25.9 bushel	1.62E+08 bushel	23.5 bushel
10199999	9	1582000 acres	1498400 acres	28.4 bushel	42519500 bushel	26.9 bushel
10199999	9	13200000 acres	12100000 acres	28.5 bushel	3.45E+08 bushel	26.1 bushel
10199999	1	4000 acres	4000 acres	37.5 bushel	150000 bushel	37.5 bushel

10199999	1	489000 acres	457000 acres	39 bushel	17817000 bushel	36.4 bushel
10199999	2	1321000 acres	1256000 acres	30.8 bushel	38665000 bushel	29.3 bushel
10199999	2	10811000 acres	9543000 acres	29.6 bushel	2.82E+08 bushel	26.1 bushel
10199999	3	439000 acres	424000 acres	32.1 bushel	13597000 bushel	31 bushel
10199999	3	5235000 acres	4544000 acres	29.6 bushel	1.34E+08 bushel	25.7 bushel
10199999	4	882000 acres	832000 acres	30.1 bushel	25068000 bushel	28.4 bushel
10199999	4	5576000 acres	4999000 acres	29.6 bushel	1.48E+08 bushel	26.5 bushel
10199999	9	1325000 acres	1260000 acres	30.8 bushel	38815000 bushel	29.3 bushel
10199999	9	11300000 acres	10000000 acres	30 bushel	3E+08 bushel	26.5 bushel
10199999	1	3400 acres	3400 acres	42.4 bushel	144000 bushel	42.4 bushel
10199999	1	551000 acres	491000 acres	49.2 bushel	24178000 bushel	43.9 bushel
10199999	2	1427600 acres	1385600 acres	38.4 bushel	53193000 bushel	37.3 bushel
10199999	2	11549000 acres	10309000 acres	37.5 bushel	3.86E+08 bushel	33.4 bushel
10199999	3	625000 acres	612000 acres	41.2 bushel	25215000 bushel	40.3 bushel
10199999	3	6088000 acres	5213000 acres	37.4 bushel	1.95E+08 bushel	32 bushel
10199999	4	802600 acres	773600 acres	36.2 bushel	27978000 bushel	34.9 bushel
10199999	4	5461000 acres	5096000 acres	37.6 bushel	1.91E+08 bushel	35 bushel
10199999	9	1431000 acres	1389000 acres	38.4 bushel	53337000 bushel	37.3 bushel
10199999	9	12100000 acres	10800000 acres	38 bushel	4.1E+08 bushel	33.9 bushel
10199999	1	3000 acres	3000 acres	47 bushel	141000 bushel	47 bushel
10199999	1	604000 acres	572000 acres	44.4 bushel	25412000 bushel	42.1 bushel
10199999	2	1542000 acres	1462000 acres	38.2 bushel	55822000 bushel	36.2 bushel
10199999	2	12396000 acres	11428000 acres	34.5 bushel	3.95E+08 bushel	31.8 bushel
10199999	3	664000 acres	632000 acres	43.1 bushel	27239000 bushel	41 bushel
10199999	3	6224000 acres	5732000 acres	36.4 bushel	2.09E+08 bushel	33.5 bushel
10199999	4	878000 acres	830000 acres	34.4 bushel	28583000 bushel	32.6 bushel
10199999	4	6172000 acres	5696000 acres	32.7 bushel	1.86E+08 bushel	30.1 bushel
10199999	9	1545000 acres	1465000 acres	38.2 bushel	55963000 bushel	36.2 bushel
10199999	9	13000000 acres	12000000 acres	35 bushel	4.2E+08 bushel	32.3 bushel
10199999	1	6700 acres	5800 acres	25.7 bushel	149200 bushel	22.3 bushel
10199999	1	889000 acres	733000 acres	29.3 bushel	21479000 bushel	24.2 bushel
10199999	2	1666300 acres	1558300 acres	26.3 bushel	41021700 bushel	24.6 bushel
10199999	2	13011000 acres	11367000 acres	24.7 bushel	2.81E+08 bushel	21.6 bushel
10199999	3	467700 acres	450400 acres	33.3 bushel	15000200 bushel	32.1 bushel
10199999	3	5509000 acres	4573000 acres	21.2 bushel	97058000 bushel	17.6 bushel
10199999	4	1198600 acres	1107900 acres	23.5 bushel	26021500 bushel	21.7 bushel
10199999	4	7502000 acres	6794000 acres	27.1 bushel	1.84E+08 bushel	24.5 bushel

10199999	9	1673000 acres	1564100 acres	26.3 bushel	41170900 bushel	24.6 bushel
10199999	9	13900000 acres	12100000 acres	25 bushel	3.03E+08 bushel	21.8 bushel
10199999	1	13000 acres	13000 acres	48 bushel	623800 bushel	48 bushel
10199999	1	911000 acres	856000 acres	49.7 bushel	42526000 bushel	46.7 bushel
10199999	2	1749000 acres	1658200 acres	34.5 bushel	57177900 bushel	32.7 bushel
10199999	2	13189000 acres	12244000 acres	34 bushel	4.16E+08 bushel	31.5 bushel
10199999	3	509700 acres	495300 acres	40.1 bushel	19876800 bushel	39 bushel
10199999	3	5646000 acres	5231000 acres	35.6 bushel	1.86E+08 bushel	33 bushel
10199999	4	1239300 acres	1162900 acres	32.1 bushel	37301100 bushel	30.1 bushel
10199999	4	7543000 acres	7013000 acres	32.7 bushel	2.3E+08 bushel	30.4 bushel
10199999	9	1762000 acres	1671200 acres	34.6 bushel	57801700 bushel	32.8 bushel
10199999	9	14100000 acres	13100000 acres	35 bushel	4.59E+08 bushel	32.5 bushel
10199999	1	4800 acres	4300 acres	51.8 bushel	222800 bushel	46.4 bushel
10199999	1	838000 acres	665000 acres	55.3 bushel	36805000 bushel	43.9 bushel
10199999	2	1556200 acres	1362300 acres	46 bushel	62616600 bushel	40.2 bushel
10199999	2	12362000 acres	10135000 acres	40.6 bushel	4.11E+08 bushel	33.3 bushel
10199999	3	490400 acres	445300 acres	48.3 bushel	21504200 bushel	43.9 bushel
10199999	3	5330000 acres	4389000 acres	43.4 bushel	1.91E+08 bushel	35.8 bushel
10199999	4	1065800 acres	917000 acres	44.8 bushel	41112400 bushel	38.6 bushel
10199999	4	7032000 acres	5746000 acres	38.4 bushel	2.21E+08 bushel	31.4 bushel
10199999	9	1561000 acres	1366600 acres	46 bushel	62839400 bushel	40.3 bushel
10199999	9	13200000 acres	10800000 acres	41.5 bushel	4.48E+08 bushel	34 bushel
10199999	1	10000 acres	9200 acres	47.5 bushel	437000 bushel	43.7 bushel
10199999	1	933000 acres	842000 acres	55.5 bushel	46727000 bushel	50.1 bushel
10199999	2	1533000 acres	1322400 acres	37.5 bushel	49612500 bushel	32.4 bushel
10199999	2	12367000 acres	10358000 acres	37.1 bushel	3.84E+08 bushel	31.1 bushel
10199999	3	728000 acres	624200 acres	41 bushel	25593300 bushel	35.2 bushel
10199999	3	6396000 acres	5259000 acres	40 bushel	2.1E+08 bushel	32.9 bushel
10199999	4	805000 acres	698200 acres	34.4 bushel	24019200 bushel	29.8 bushel
10199999	4	5971000 acres	5099000 acres	34.2 bushel	1.74E+08 bushel	29.2 bushel
10199999	9	1543000 acres	1331600 acres	37.6 bushel	50049500 bushel	32.4 bushel
10199999	9	13300000 acres	11200000 acres	38.5 bushel	4.31E+08 bushel	32.4 bushel
10199999	1	8000 acres	7700 acres	45.3 bushel	348600 bushel	43.6 bushel
10199999	1	913000 acres	868000 acres	52.6 bushel	45627000 bushel	50 bushel
10199999	2	1394000 acres	1332300 acres	38.4 bushel	51137200 bushel	36.7 bushel
10199999	2	11487000 acres	10532000 acres	36.8 bushel	3.88E+08 bushel	33.7 bushel
10199999	3	658000 acres	631200 acres	40.2 bushel	25358100 bushel	38.5 bushel

10199999	3	6020000 acres	5606000 acres	40.6 bushel	2.28E+08 bushel	37.8 bushel
10199999	4	736000 acres	701100 acres	36.8 bushel	25779100 bushel	35 bushel
10199999	4	5467000 acres	4926000 acres	32.5 bushel	1.6E+08 bushel	29.3 bushel
10199999	9	1402000 acres	1340000 acres	38.4 bushel	51485800 bushel	36.7 bushel
10199999	9	12400000 acres	11400000 acres	38 bushel	4.33E+08 bushel	34.9 bushel
10199999	1	7000 acres	6600 acres	36 bushel	237600 bushel	33.9 bushel
10199999	1	827000 acres	752000 acres	50.8 bushel	38209000 bushel	46.2 bushel
10199999	2	1351000 acres	1233000 acres	31.1 bushel	38304000 bushel	28.4 bushel
10199999	2	10673000 acres	9448000 acres	31.6 bushel	2.98E+08 bushel	28 bushel
10199999	3	689000 acres	634500 acres	33.4 bushel	21205000 bushel	30.8 bushel
10199999	3	6083000 acres	5698000 acres	32.9 bushel	1.87E+08 bushel	30.8 bushel
10199999	4	662000 acres	598500 acres	28.6 bushel	17099000 bushel	25.8 bushel
10199999	4	4590000 acres	3750000 acres	29.6 bushel	1.11E+08 bushel	24.2 bushel
10199999	9	1358000 acres	1239600 acres	31.1 bushel	38541600 bushel	28.4 bushel
10199999	9	11500000 acres	10200000 acres	33 bushel	3.37E+08 bushel	29.3 bushel
10199999	1	5000 acres	5000 acres	53 bushel	265000 bushel	53 bushel
10199999	1	737000 acres	690000 acres	47.8 bushel	32984000 bushel	44.8 bushel
10199999	2	1326000 acres	1261000 acres	42.4 bushel	53428100 bushel	40.3 bushel
10199999	2	9963000 acres	9210000 acres	36.2 bushel	3.33E+08 bushel	33.5 bushel
10199999	3	701000 acres	673200 acres	44 bushel	29651000 bushel	42.3 bushel
10199999	3	5961000 acres	5591000 acres	38.4 bushel	2.15E+08 bushel	36 bushel
10199999	4	625000 acres	587800 acres	40.5 bushel	23777100 bushel	38 bushel
10199999	4	4002000 acres	3619000 acres	32.8 bushel	1.19E+08 bushel	29.6 bushel
10199999	9	1331000 acres	1266000 acres	42.4 bushel	53693100 bushel	40.3 bushel
10199999	9	10700000 acres	9900000 acres	37 bushel	3.66E+08 bushel	34.2 bushel
10199999	1	5000 acres	5000 acres	39.2 bushel	196000 bushel	39.2 bushel
10199999	1	663000 acres	611000 acres	48 bushel	29314000 bushel	44.2 bushel
10199999	2	1230000 acres	1176000 acres	34.2 bushel	40239000 bushel	32.7 bushel
10199999	2	9537000 acres	8889000 acres	33 bushel	2.94E+08 bushel	30.8 bushel
10199999	3	645000 acres	623200 acres	35.9 bushel	22381000 bushel	34.7 bushel
10199999	3	5257000 acres	4865000 acres	31.8 bushel	1.55E+08 bushel	29.4 bushel
10199999	4	585000 acres	552800 acres	32.3 bushel	17858000 bushel	30.5 bushel
10199999	4	4280000 acres	4024000 acres	34.5 bushel	1.39E+08 bushel	32.5 bushel
10199999	9	1235000 acres	1181000 acres	34.2 bushel	40435000 bushel	32.7 bushel
10199999	9	10200000 acres	9500000 acres	34 bushel	3.23E+08 bushel	31.7 bushel
10199999	1	3000 acres	2000 acres	34.5 bushel	69000 bushel	23 bushel
10199999	1	846000 acres	682000 acres	42.8 bushel	29195000 bushel	34.5 bushel

10199999	2	1422000 acres	713000 acres	17 bushel	12120000 bushel	8.5 bushel
10199999	2	11554000 acres	8218000 acres	22.4 bushel	1.84E+08 bushel	16 bushel
10199999	3	647000 acres	393000 acres	18.8 bushel	7402000 bushel	11.4 bushel
10199999	3	5796000 acres	4270000 acres	22.6 bushel	96553000 bushel	16.7 bushel
10199999	4	775000 acres	320000 acres	14.7 bushel	4718000 bushel	6.1 bushel
10199999	4	5758000 acres	3948000 acres	22.3 bushel	87852000 bushel	15.3 bushel
10199999	9	1425000 acres	715000 acres	17 bushel	12189000 bushel	8.6 bushel
10199999	9	12400000 acres	8900000 acres	24 bushel	2.14E+08 bushel	17.2 bushel
10199999	1	5000 acres	4500 acres	50 bushel	225000 bushel	45 bushel
10199999	1	845000 acres	807000 acres	53.8 bushel	43419000 bushel	51.4 bushel
10199999	2	1420000 acres	1375500 acres	45.6 bushel	62775000 bushel	44.2 bushel
10199999	2	11555000 acres	10993000 acres	39 bushel	4.29E+08 bushel	37.1 bushel
10199999	3	550000 acres	535500 acres	46.9 bushel	25125000 bushel	45.7 bushel
10199999	3	5545000 acres	5302000 acres	42.5 bushel	2.25E+08 bushel	40.7 bushel
10199999	4	870000 acres	840000 acres	44.8 bushel	37650000 bushel	43.3 bushel
10199999	4	6010000 acres	5691000 acres	35.7 bushel	2.03E+08 bushel	33.8 bushel
10199999	9	1425000 acres	1380000 acres	45.7 bushel	63000000 bushel	44.2 bushel
10199999	9	12400000 acres	11800000 acres	40 bushel	4.72E+08 bushel	38.1 bushel
10199999	1	1000 acres	1000 acres	40 bushel	40000 bushel	
10199999	1	773000 acres	731000 acres	50.6 bushel	37005000 bushel	
10199999	2	1349000 acres	1283000 acres	33 bushel	42320000 bushel	
10199999	2	11027000 acres	10269000 acres	31.7 bushel	3.26E+08 bushel	
10199999	3	452000 acres	436000 acres	34 bushel	14820000 bushel	
10199999	3	4991000 acres	4687000 acres	32.3 bushel	1.51E+08 bushel	
10199999	4	897000 acres	847000 acres	32.5 bushel	27500000 bushel	
10199999	4	6036000 acres	5582000 acres	31.3 bushel	1.75E+08 bushel	
10199999	9	1350000 acres	1284000 acres	33 bushel	42360000 bushel	
10199999	9	11800000 acres	11000000 acres	33 bushel	3.63E+08 bushel	
10199999	1	1000 acres	1000 acres	55 bushel	55000 bushel	
10199999	1	775000 acres	738000 acres	53.7 bushel	39623000 bushel	
10199999	2	1449000 acres	1310000 acres	36 bushel	47193000 bushel	
10199999	2	11225000 acres	9962000 acres	32.5 bushel	3.24E+08 bushel	
10199999	3	495000 acres	454000 acres	38 bushel	17233000 bushel	
10199999	3	5115000 acres	4433000 acres	31.6 bushel	1.4E+08 bushel	
10199999	4	954000 acres	856000 acres	35 bushel	29960000 bushel	
10199999	4	6110000 acres	5529000 acres	33.3 bushel	1.84E+08 bushel	
10199999	9	1450000 acres	1311000 acres	36 bushel	47248000 bushel	

10199999	9	12000000 acres	10700000 acres	34 bushel	3.64E+08 bushel
10199999	1	737000 acres	707000 acres	52.3 bushel	36971000 bushel
10199999	2	1475000 acres	1180000 acres	30.3 bushel	35807000 bushel
10199999	2	11363000 acres	10393000 acres	33.8 bushel	3.52E+08 bushel
10199999	3	450000 acres	380000 acres	32.1 bushel	12187000 bushel
10199999	3	5188000 acres	4865000 acres	37.9 bushel	1.84E+08 bushel
10199999	4	1025000 acres	800000 acres	29.5 bushel	23620000 bushel
10199999	4	6175000 acres	5528000 acres	30.3 bushel	1.67E+08 bushel
10199999	9	1475000 acres	1180000 acres	30.3 bushel	35807000 bushel
10199999	9	12100000 acres	11100000 acres	35 bushel	3.89E+08 bushel
10199999	1	2000 acres	1800 acres	48.3 bushel	87000 bushel
10199999	1	730000 acres	680000 acres	48 bushel	32640000 bushel
10199999	2	1498000 acres	1473200 acres	40.3 bushel	59311000 bushel
10199999	2	11170000 acres	10720000 acres	37.4 bushel	4.01E+08 bushel
10199999	3	440000 acres	435200 acres	42.6 bushel	18520000 bushel
10199999	3	4825000 acres	4621000 acres	37.9 bushel	1.75E+08 bushel
10199999	4	1058000 acres	1038000 acres	39.3 bushel	40791000 bushel
10199999	4	6345000 acres	6099000 acres	37 bushel	2.25E+08 bushel
10199999	9	1500000 acres	1475000 acres	40.3 bushel	59398000 bushel
10199999	9	11900000 acres	11400000 acres	38 bushel	4.33E+08 bushel
10199999	1	1000 acres	1000 acres	25 bushel	25000 bushel
10199999	1	700000 acres	626000 acres	31 bushel	19500000 bushel
10199999	2	1524000 acres	1459000 acres	32 bushel	47040000 bushel
10199999	2	11000000 acres	10374000 acres	26 bushel	2.67E+08 bushel
10199999	3	417000 acres	392000 acres	36 bushel	14020000 bushel
10199999	3	4675000 acres	4382000 acres	28 bushel	1.21E+08 bushel
10199999	4	1107000 acres	1067000 acres	31 bushel	33020000 bushel
10199999	4	6325000 acres	5992000 acres	24 bushel	1.46E+08 bushel
10199999	9	1525000 acres	1460000 acres	32 bushel	47065000 bushel
10199999	9	11700000 acres	11000000 acres	26 bushel	2.86E+08 bushel
10199999	1	2000 acres	1000 acres	47 bushel	47000 bushel
10199999	1	710000 acres	520000 acres	38 bushel	19600000 bushel
10199999	2	1441000 acres	1248000 acres	36 bushel	45043000 bushel
10199999	2	11090000 acres	8280000 acres	28 bushel	2.36E+08 bushel
10199999	3	383000 acres	327000 acres	36 bushel	11897000 bushel
10199999	3	4670000 acres	3010000 acres	27 bushel	81121000 bushel
10199999	4	1058000 acres	921000 acres	36 bushel	33146000 bushel

10199999	4	6420000 acres	5270000 acres	29 bushel	1.54E+08 bushel
10199999	9	1443000 acres	1249000 acres	36 bushel	45090000 bushel
10199999	9	11800000 acres	8800000 acres	29 bushel	2.55E+08 bushel
10199999	1	649000 acres	614000 acres	50 bushel	30426000 bushel
10199999	2	1455000 acres	1387000 acres	51 bushel	70737000 bushel
10199999	2	10751000 acres	10286000 acres	46 bushel	4.71E+08 bushel
10199999	3	353000 acres	336000 acres	49 bushel	16464000 bushel
10199999	3	4490000 acres	4286000 acres	40 bushel	1.71E+08 bushel
10199999	4	1102000 acres	1051000 acres	52 bushel	54273000 bushel
10199999	4	6261000 acres	6000000 acres	50 bushel	3E+08 bushel
10199999	9	1455000 acres	1387000 acres	51 bushel	70737000 bushel
10199999	9	11400000 acres	10900000 acres	46 bushel	5.01E+08 bushel
10199999	1	610000 acres	568000 acres	60 bushel	34362000 bushel
10199999	2	1360000 acres	1315000 acres	55 bushel	72938000 bushel
10199999	2	10090000 acres	9532000 acres	48 bushel	4.61E+08 bushel
10199999	3	345000 acres	329000 acres	58 bushel	19179000 bushel
10199999	3	4220000 acres	3952000 acres	51 bushel	2.02E+08 bushel
10199999	4	1015000 acres	986000 acres	55 bushel	53759000 bushel
10199999	4	5870000 acres	5580000 acres	46 bushel	2.59E+08 bushel
10199999	9	1360000 acres	1315000 acres	55 bushel	72938000 bushel
10199999	9	10700000 acres	10100000 acres	49 bushel	4.95E+08 bushel
10199999	1	580000 acres	555000 acres	62 bushel	34625000 bushel
10199999	2	1344000 acres	1250000 acres	49 bushel	60960000 bushel
10199999	2	9420000 acres	8645000 acres	46 bushel	3.98E+08 bushel
10199999	3	327000 acres	279000 acres	48 bushel	13455000 bushel
10199999	3	4104000 acres	3631000 acres	48 bushel	1.75E+08 bushel
10199999	4	1017000 acres	971000 acres	49 bushel	47505000 bushel
10199999	4	5316000 acres	5014000 acres	44 bushel	2.23E+08 bushel
10199999	9	1344000 acres	1250000 acres	49 bushel	60960000 bushel
10199999	9	10000000 acres	9200000 acres	47 bushel	4.32E+08 bushel
10199999	1	540000 acres	510000 acres	45 bushel	22724000 bushel
10199999	2	1290000 acres	1225000 acres	39 bushel	47345000 bushel
10199999	2	9260000 acres	8890000 acres	37 bushel	3.25E+08 bushel
10199999	3	320000 acres	305000 acres	41 bushel	12595000 bushel
10199999	3	3733000 acres	3605000 acres	35 bushel	1.27E+08 bushel
10199999	4	970000 acres	920000 acres	38 bushel	34750000 bushel
10199999	4	5527000 acres	5285000 acres	37 bushel	1.98E+08 bushel

10199999	9	1290000 acres	1225000 acres	39 bushel	47345000 bushel
10199999	9	9800000 acres	9400000 acres	37 bushel	3.48E+08 bushel
10199999	1	550000 acres	485000 acres	52 bushel	25460000 bushel
10199999	2	1350000 acres	1155000 acres	40 bushel	45775000 bushel
10199999	2	9250000 acres	7715000 acres	39 bushel	3.03E+08 bushel
10199999	3	290000 acres	245000 acres	42 bushel	10170000 bushel
10199999	3	3790000 acres	2955000 acres	38 bushel	1.12E+08 bushel
10199999	4	1060000 acres	910000 acres	39 bushel	35605000 bushel
10199999	4	5460000 acres	4760000 acres	40 bushel	1.91E+08 bushel
10199999	9	1350000 acres	1155000 acres	40 bushel	45775000 bushel
10199999	9	9800000 acres	8200000 acres	40 bushel	3.28E+08 bushel
10199999	1	605000 acres	490000 acres	41 bushel	19925000 bushel
10199999	2	1245000 acres	1135000 acres	38 bushel	43405000 bushel
10199999	2	9095000 acres	7710000 acres	33 bushel	2.51E+08 bushel
10199999	3	300000 acres	263000 acres	37 bushel	9675000 bushel
10199999	3	3765000 acres	2990000 acres	29 bushel	85465000 bushel
10199999	4	945000 acres	872000 acres	39 bushel	33730000 bushel
10199999	4	5330000 acres	4720000 acres	35 bushel	1.65E+08 bushel
10199999	9	1245000 acres	1135000 acres	38 bushel	43405000 bushel
10199999	9	9700000 acres	8200000 acres	33 bushel	2.71E+08 bushel
10199999	1	580000 acres	560000 acres	56 bushel	31300000 bushel
10199999	2	1340000 acres	1290000 acres	59 bushel	75920000 bushel
10199999	2	9920000 acres	9440000 acres	48 bushel	4.49E+08 bushel
10199999	3	310000 acres	299000 acres	57 bushel	17040000 bushel
10199999	3	4120000 acres	3915000 acres	43 bushel	1.67E+08 bushel
10199999	4	1030000 acres	991000 acres	59 bushel	58880000 bushel
10199999	4	5800000 acres	5525000 acres	51 bushel	2.82E+08 bushel
10199999	9	1340000 acres	1290000 acres	59 bushel	75920000 bushel
10199999	9	10500000 acres	10000000 acres	48 bushel	4.8E+08 bushel
10199999	1	630000 acres	580000 acres	45 bushel	26000000 bushel
10199999	2	1355000 acres	1275000 acres	42 bushel	53590000 bushel
10199999	2	9370000 acres	7920000 acres	36 bushel	2.89E+08 bushel
10199999	3	300000 acres	288000 acres	41 bushel	11790000 bushel
10199999	3	3765000 acres	2920000 acres	29 bushel	84960000 bushel
10199999	4	1055000 acres	987000 acres	42 bushel	41800000 bushel
10199999	4	5605000 acres	5000000 acres	41 bushel	2.04E+08 bushel
10199999	9	1355000 acres	1275000 acres	42 bushel	53590000 bushel

10199999	9	10000000 acres	8500000 acres	37 bushel	3.15E+08 bushel
10199999	1	590000 acres	565000 acres	53 bushel	30000000 bushel
10199999	2	1365000 acres	1320000 acres	41 bushel	54030000 bushel
10199999	2	9410000 acres	8935000 acres	39 bushel	3.5E+08 bushel
10199999	3	290000 acres	285000 acres	45 bushel	12881000 bushel
10199999	3	3975000 acres	3765000 acres	39 bushel	1.48E+08 bushel
10199999	4	1075000 acres	1035000 acres	40 bushel	41149000 bushel
10199999	4	5435000 acres	5170000 acres	39 bushel	2.02E+08 bushel
10199999	9	1365000 acres	1320000 acres	41 bushel	54030000 bushel
10199999	9	10000000 acres	9500000 acres	40 bushel	3.8E+08 bushel
10199999	1	670000 acres	620000 acres	39 bushel	23900000 bushel
10199999	2	1350000 acres	1330000 acres	42 bushel	55270000 bushel
10199999	2	9130000 acres	8480000 acres	32 bushel	2.67E+08 bushel
10199999	3	270000 acres	262000 acres	42 bushel	10960000 bushel
10199999	3	3665000 acres	3310000 acres	25 bushel	83985000 bushel
10199999	4	1080000 acres	1068000 acres	41 bushel	44310000 bushel
10199999	4	5465000 acres	5170000 acres	35 bushel	1.83E+08 bushel
10199999	9	1350000 acres	1330000 acres	42 bushel	55270000 bushel
10199999	9	9800000 acres	9100000 acres	32 bushel	2.91E+08 bushel
10199999	1	700000 acres	640000 acres	53 bushel	33800000 bushel
10199999	2	1420000 acres	1320000 acres	32 bushel	41600000 bushel
10199999	2	9700000 acres	7960000 acres	31 bushel	2.5E+08 bushel
10199999	3	305000 acres	281000 acres	36 bushel	10160000 bushel
10199999	3	3600000 acres	3335000 acres	40 bushel	1.34E+08 bushel
10199999	4	1115000 acres	1039000 acres	30 bushel	31440000 bushel
10199999	4	6100000 acres	4625000 acres	25 bushel	1.16E+08 bushel
10199999	9	1420000 acres	1320000 acres	32 bushel	41600000 bushel
10199999	9	10400000 acres	8600000 acres	33 bushel	2.84E+08 bushel
10499999	9	12400 acres	590 acres	18 bushel	10600 bushel
10499999	9	155000 acres	25000 acres	20 bushel	500000 bushel
10499999	9	17800 acres	4240 acres	23.1 bushel	98000 bushel
10499999	9	155000 acres	35000 acres	21 bushel	735000 bushel
10499999	9	8000 acres	1100 acres	17.1 bushel	18800 bushel
10499999	9	80000 acres	14000 acres	19 bushel	266000 bushel
10499999	9	4900 acres	760 acres	22.2 bushel	16900 bushel
10499999	9	50000 acres	8000 acres	21 bushel	168000 bushel
10499999	9	5100 acres	820 acres	18.2 bushel	14900 bushel

10499999	9	50000 acres	8000 acres	17 bushel	136000 bushel
10499999	9	5300 acres	890 acres	16 bushel	14200 bushel
10499999	9	60000 acres	10000 acres	18 bushel	180000 bushel
10499999	9	6100 acres	2400 acres	21 bushel	50400 bushel
10499999	9	90000 acres	15000 acres	21 bushel	315000 bushel
10499999	9	6100 acres	1100 acres	26.1 bushel	28700 bushel
10499999	9	85000 acres	18000 acres	28 bushel	504000 bushel
10499999	9	3700 acres	700 acres	20 bushel	14000 bushel
10499999	9	60000 acres	10000 acres	21 bushel	210000 bushel
10499999	9	7300 acres	700 acres	22.6 bushel	15800 bushel
10499999	9	75000 acres	12000 acres	21 bushel	252000 bushel
10499999	9	4200 acres	780 acres	26.2 bushel	20400 bushel
10499999	9	50000 acres	10000 acres	24 bushel	240000 bushel
10499999	9	5700 acres	600 acres	31 bushel	18600 bushel
10499999	9	65000 acres	10000 acres	22 bushel	220000 bushel
10499999	9	6800 acres	1100 acres	24 bushel	26400 bushel
10499999	9	75000 acres	13000 acres	24 bushel	312000 bushel
10499999	9	4800 acres	800 acres	28.8 bushel	23000 bushel
10499999	9	60000 acres	12000 acres	25 bushel	300000 bushel
10499999	9	5100 acres	900 acres	20.8 bushel	18700 bushel
10499999	9	64000 acres	10000 acres	21 bushel	210000 bushel
10499999	9	2100 acres	800 acres	28 bushel	22400 bushel
10499999	9	35000 acres	10000 acres	27 bushel	270000 bushel
10499999	9	2600 acres	500 acres	33 bushel	16500 bushel
10499999	9	40000 acres	5000 acres	26 bushel	130000 bushel
10499999	9	5600 acres	300 acres	15 bushel	4500 bushel
10499999	9	45000 acres	5000 acres	16 bushel	80000 bushel
10499999	9	1700 acres			
10499999	9	35000 acres	5000 acres	26 bushel	130000 bushel
10499999	9	1500 acres	100 acres	19 bushel	1900 bushel
10499999	9	70000 acres	5000 acres	23 bushel	115000 bushel
10499999	9	1200 acres	200 acres	27 bushel	5400 bushel
10499999	9	50000 acres	5000 acres	26 bushel	130000 bushel
10499999	9	2500 acres	500 acres	30 bushel	15000 bushel
10499999	9	70000 acres	21000 acres	33 bushel	693000 bushel
10499999	9	3500 acres	700 acres	27 bushel	19000 bushel
10499999	9	90000 acres	13000 acres	25 bushel	325000 bushel

10499999	9	100000 acres	20000 acres	20 bushel	400000 bushel
10499999	9	60000 acres	5000 acres	30 bushel	150000 bushel
10499999	9	50000 acres	10000 acres	30 bushel	300000 bushel
10499999	9	80000 acres	15000 acres	25 bushel	375000 bushel
10499999	9	90000 acres	10000 acres	30 bushel	300000 bushel
11199199	9	152000 acres	116700 acres	67 bushel	7857000 bushel
11199199	9	1689000 acres	1285000 acres	64 bushel	82240000 bushel
11199199	9	146000 acres	118200 acres	84 bushel	9899100 bushel
11199199	9	1660000 acres	1311000 acres	95 bushel	1.25E+08 bushel
11199199	1		62230 acres	119 bushel	7403800 bushel
11199199	1		573400 acres	124 bushel	71341000 bushel
11199199	2		42370 acres	70 bushel	2986000 bushel
11199199	2		676600 acres	87 bushel	58659000 bushel
11199199	9	121000 acres	104600 acres	99 bushel	10389800 bushel
11199199	9	1570000 acres	1250000 acres	104 bushel	1.3E+08 bushel
11199199	1		73060 acres	113 bushel	8254600 bushel
11199199	1		808260 acres	121 bushel	97654000 bushel
11199199	2		47940 acres	68 bushel	3260700 bushel
11199199	2		731740 acres	77 bushel	56346000 bushel
11199199	9	148900 acres	121000 acres	95 bushel	11515300 bushel
11199199	9	1900000 acres	1540000 acres	100 bushel	1.54E+08 bushel
11199199	1	89400 acres	75100 acres	99 bushel	7452200 bushel
11199199	1	1130100 acres	973700 acres	108 bushel	1.05E+08 bushel
11199199	2	74500 acres	45600 acres	33 bushel	1489700 bushel
11199199	2	1029900 acres	696300 acres	39 bushel	27201000 bushel
11199199	9	163900 acres	120700 acres	74 bushel	8941900 bushel
11199199	9	2160000 acres	1670000 acres	79 bushel	1.32E+08 bushel
11199199	1	89300 acres	75900 acres	95 bushel	7206900 bushel
11199199	1	1244000 acres	1090600 acres	106 bushel	1.16E+08 bushel
11199199	2	33700 acres	23600 acres	35 bushel	835300 bushel
11199199	2	706000 acres	549400 acres	46 bushel	25148100 bushel
11199199	9	123000 acres	99500 acres	81 bushel	8042200 bushel
11199199	9	1950000 acres	1640000 acres	86 bushel	1.41E+08 bushel
11199199	1	90100 acres	71500 acres	105 bushel	7538900 bushel
11199199	1	1442800 acres	1231200 acres	116 bushel	1.43E+08 bushel
11199199	2	31100 acres	17000 acres	36 bushel	620300 bushel
11199199	2	707200 acres	558800 acres	52 bushel	28899700 bushel

11199199	9	121200 acres	88500 acres	92 bushel	8159200 bushel
11199199	9	2150000 acres	1790000 acres	96 bushel	1.72E+08 bushel
11199199	1	95400 acres	74400 acres	105 bushel	7825000 bushel
11199199	1	1480300 acres	1263700 acres	106 bushel	1.34E+08 bushel
11199199	2	23600 acres	16000 acres	51 bushel	809900 bushel
11199199	2	549700 acres	416300 acres	65 bushel	27222300 bushel
11199199	9	119000 acres	90400 acres	96 bushel	8634900 bushel
11199199	9	2030000 acres	1680000 acres	96 bushel	1.61E+08 bushel
11199199	1	85100 acres	78000 acres	112 bushel	8770600 bushel
11199199	1	1235000 acres	1066000 acres	116 bushel	1.23E+08 bushel
11199199	2	23800 acres	17200 acres	60 bushel	1035000 bushel
11199199	2	585000 acres	434000 acres	69 bushel	29783600 bushel
11199199	9	108900 acres	95200 acres	103 bushel	9805600 bushel
11199199	9	1820000 acres	1500000 acres	102 bushel	1.53E+08 bushel
11199199	1	85000 acres	72700 acres	123 bushel	8934500 bushel
11199199	1	1174000 acres	1011900 acres	129 bushel	1.31E+08 bushel
11199199	2	16000 acres	9300 acres	76 bushel	703500 bushel
11199199	2	576000 acres	458100 acres	90 bushel	41289100 bushel
11199199	9	101000 acres	82000 acres	118 bushel	9638000 bushel
11199199	9	1750000 acres	1470000 acres	117 bushel	1.72E+08 bushel
11199199	1	86300 acres	68300 acres	89 bushel	6097000 bushel
11199199	1	1080000 acres	918000 acres	110 bushel	1.01E+08 bushel
11199199	2	31700 acres	7900 acres	25 bushel	200900 bushel
11199199	2	620000 acres	262000 acres	39 bushel	10240000 bushel
11199199	9	118000 acres	76200 acres	83 bushel	6297900 bushel
11199199	9	1700000 acres	1180000 acres	94 bushel	1.11E+08 bushel
11199199	1	72900 acres	66600 acres	133 bushel	8853900 bushel
11199199	1	908000 acres	810000 acres	140 bushel	1.13E+08 bushel
11199199	2	24100 acres	19100 acres	88 bushel	1678300 bushel
11199199	2	442000 acres	365000 acres	96 bushel	34940000 bushel
11199199	9	97000 acres	85700 acres	123 bushel	10532200 bushel
11199199	9	1350000 acres	1175000 acres	126 bushel	1.48E+08 bushel
11199199	1	76900 acres	70800 acres	107 bushel	7569900 bushel
11199199	1	939000 acres	850000 acres	128 bushel	1.09E+08 bushel
11199199	2	20100 acres	14900 acres	71 bushel	1059400 bushel
11199199	2	461000 acres	370000 acres	82 bushel	30462000 bushel
11199199	9	97000 acres	85700 acres	101 bushel	8629300 bushel

11199199	9	1400000 acres	1220000 acres	114 bushel	1.39E+08 bushel
11199199	1	59500 acres	52100 acres	110 bushel	5734100 bushel
11199199	1	717000 acres	627000 acres	120 bushel	74970000 bushel
11199199	2	20500 acres	13600 acres	35 bushel	479900 bushel
11199199	2	423000 acres	293000 acres	36 bushel	10590000 bushel
11199199	9	80000 acres	65700 acres	95 bushel	6214000 bushel
11199199	9	1140000 acres	920000 acres	93 bushel	85560000 bushel
11199199	1	80000 acres	70600 acres	132 bushel	9305000 bushel
11199199	1	803000 acres	692000 acres	147 bushel	1.02E+08 bushel
11199199	2	6000 acres	4700 acres	53 bushel	247200 bushel
11199199	2	347000 acres	263000 acres	66 bushel	17323000 bushel
11199199	9	86000 acres	75300 acres	127 bushel	9552200 bushel
11199199	9	1150000 acres	955000 acres	125 bushel	1.19E+08 bushel
11199199	1	81000 acres	72500 acres	139 bushel	10076000 bushel
11199199	1	858000 acres	786000 acres	147 bushel	1.16E+08 bushel
11199199	2	7000 acres	6500 acres	82 bushel	533200 bushel
11199199	2	442000 acres	384000 acres	94 bushel	36269000 bushel
11199199	9	88000 acres	79000 acres	134 bushel	10609200 bushel
11199199	9	1300000 acres	1170000 acres	130 bushel	1.52E+08 bushel
11199199	1	93000 acres	88300 acres	136 bushel	12017100 bushel
11199199	1	974000 acres	922000 acres	150 bushel	1.39E+08 bushel
11199199	2	14000 acres	12000 acres	96 bushel	1156200 bushel
11199199	2	476000 acres	413000 acres	104 bushel	42989000 bushel
11199199	9	107000 acres	100300 acres	131 bushel	13173300 bushel
11199199	9	1450000 acres	1335000 acres	136 bushel	1.82E+08 bushel
11199199	1	82300 acres	75000 acres	128 bushel	9626000 bushel
11199199	1	896000 acres	824000 acres	134 bushel	1.11E+08 bushel
11199199	2	9700 acres	8500 acres	73 bushel	617000 bushel
11199199	2	454000 acres	406000 acres	91 bushel	37003000 bushel
11199199	9	92000 acres	83500 acres	123 bushel	10243000 bushel
11199199	9	1350000 acres	1230000 acres	120 bushel	1.48E+08 bushel
11199199	1	68400 acres	66300 acres	130 bushel	8604000 bushel
11199199	1	842000 acres	800000 acres	149 bushel	1.19E+08 bushel
11199199	2	13600 acres	9700 acres	45 bushel	436000 bushel
11199199	2	408000 acres	350000 acres	70 bushel	24585000 bushel
11199199	9	82000 acres	76000 acres	119 bushel	9040000 bushel
11199199	9	1250000 acres	1150000 acres	125 bushel	1.44E+08 bushel

11199199	1	67500 acres	64300 acres	153 bushel	9844000 bushel
11199199	1	968000 acres	882000 acres	148 bushel	1.31E+08 bushel
11199199	2	8500 acres	5700 acres	42 bushel	241000 bushel
11199199	2	402000 acres	358000 acres	67 bushel	24160000 bushel
11199199	9	76000 acres	70000 acres	144 bushel	10085000 bushel
11199199	9	1370000 acres	1240000 acres	125 bushel	1.55E+08 bushel
11199199	1	77000 acres	75000 acres	136.1 bushel	10206000 bushel
11199199	1	1070000 acres	993000 acres	153.6 bushel	1.53E+08 bushel
11199199	2	31000 acres	27000 acres	66.6 bushel	1798000 bushel
11199199	2	530000 acres	457000 acres	78.8 bushel	35998000 bushel
11199199	9	108000 acres	102000 acres	117.7 bushel	12004000 bushel
11199199	9	1600000 acres	1450000 acres	130 bushel	1.89E+08 bushel
11199199	1	90000 acres	85000 acres	124.5 bushel	10585000 bushel
11199199	1	1210000 acres	1143000 acres	156.1 bushel	1.78E+08 bushel
11199199	2	35000 acres	25000 acres	38.1 bushel	952000 bushel
11199199	2	590000 acres	507000 acres	54.9 bushel	27829000 bushel
11199199	9	125000 acres	110000 acres	104.9 bushel	11537000 bushel
11199199	9	1800000 acres	1650000 acres	125 bushel	2.06E+08 bushel
11199199	1	76000 acres	73000 acres	152.8 bushel	11157000 bushel
11199199	1	1255000 acres	1186000 acres	166.6 bushel	1.98E+08 bushel
11199199	2	26000 acres	22000 acres	98 bushel	2157000 bushel
11199199	2	595000 acres	544000 acres	113.8 bushel	61900000 bushel
11199199	9	102000 acres	95000 acres	140.1 bushel	13314000 bushel
11199199	9	1850000 acres	1730000 acres	150 bushel	2.6E+08 bushel
11199199	1	82000 acres	76000 acres	116.8 bushel	8875000 bushel
11199199	1	1363000 acres	1280000 acres	141.7 bushel	1.81E+08 bushel
11199199	2	54000 acres	43000 acres	75 bushel	3225000 bushel
11199199	2	637000 acres	520000 acres	66.5 bushel	34600000 bushel
11199199	9	136000 acres	119000 acres	101.7 bushel	12100000 bushel
11199199	9	2000000 acres	1800000 acres	120 bushel	2.16E+08 bushel
11199199	1	92000 acres	87000 acres	150 bushel	13040000 bushel
11199199	1	1490000 acres	1390000 acres	170 bushel	2.37E+08 bushel
11199199	2	82000 acres	75000 acres	86 bushel	6450000 bushel
11199199	2	810000 acres	710000 acres	90 bushel	63780000 bushel
11199199	9	174000 acres	162000 acres	120 bushel	19490000 bushel
11199199	9	2300000 acres	2100000 acres	143 bushel	3E+08 bushel
11199199	1	94000 acres	88000 acres	126 bushel	11125000 bushel

11199199	1	1530000 acres	1450000 acres	143 bushel	2.08E+08 bushel
11199199	2	65000 acres	54000 acres	71 bushel	3825000 bushel
11199199	2	620000 acres	520000 acres	70 bushel	36280000 bushel
11199199	9	159000 acres	142000 acres	105 bushel	14950000 bushel
11199199	9	2150000 acres	1970000 acres	124 bushel	2.44E+08 bushel
11199199	1	105000 acres	103000 acres	174 bushel	17930000 bushel
11199199	1	1600000 acres	1530000 acres	177 bushel	2.72E+08 bushel
11199199	2	77000 acres	70000 acres	90 bushel	6330000 bushel
11199199	2	900000 acres	820000 acres	105 bushel	85700000 bushel
11199199	9	182000 acres	173000 acres	140 bushel	24260000 bushel
11199199	9	2500000 acres	2350000 acres	152 bushel	3.57E+08 bushel
11199199	1	104000 acres	98000 acres	150 bushel	14670000 bushel
11199199	1	1650000 acres	1570000 acres	176 bushel	2.77E+08 bushel
11199199	2	98000 acres	90000 acres	76 bushel	6840000 bushel
11199199	2	1100000 acres	1030000 acres	92 bushel	94770000 bushel
11199199	9	202000 acres	188000 acres	114 bushel	21510000 bushel
11199199	9	2750000 acres	2600000 acres	143 bushel	3.72E+08 bushel
11199199	1	83000 acres	78000 acres	153 bushel	11935000 bushel
11199199	1	1660000 acres	1590000 acres	181 bushel	2.88E+08 bushel
11199199	2	137000 acres	127000 acres	107 bushel	13610000 bushel
11199199	2	1340000 acres	1260000 acres	104 bushel	1.31E+08 bushel
11199199	9	220000 acres	205000 acres	125 bushel	25545000 bushel
11199199	9	3000000 acres	2850000 acres	147 bushel	4.19E+08 bushel
11199199	1	70000 acres	68000 acres	155 bushel	10530000 bushel
11199199	1	1670000 acres	1600000 acres	182 bushel	2.92E+08 bushel
11199199	2	170000 acres	157000 acres	97 bushel	15265000 bushel
11199199	2	1480000 acres	1380000 acres	93 bushel	1.29E+08 bushel
11199199	9	240000 acres	225000 acres	115 bushel	25795000 bushel
11199199	9	3150000 acres	2980000 acres	141 bushel	4.2E+08 bushel
11199199	1	74000 acres	70000 acres	138 bushel	9660000 bushel
11199199	1	1710000 acres	1620000 acres	175 bushel	2.84E+08 bushel
11199199	2	174000 acres	143000 acres	65 bushel	9350000 bushel
11199199	2	1740000 acres	1550000 acres	82 bushel	1.28E+08 bushel
11199199	9	248000 acres	213000 acres	89 bushel	19010000 bushel
11199199	9	3450000 acres	3170000 acres	130 bushel	4.12E+08 bushel
11199199	1	73000 acres	69000 acres	163 bushel	11270000 bushel
11199199	1	1590000 acres	1470000 acres	173 bushel	2.55E+08 bushel

11199199	2	146000 acres	121000 acres	76 bushel	9150000 bushel
11199199	2	1860000 acres	1580000 acres	84 bushel	1.33E+08 bushel
11199199	9	219000 acres	190000 acres	107 bushel	20420000 bushel
11199199	9	3450000 acres	3050000 acres	127 bushel	3.87E+08 bushel
11199199	1	82000 acres	79000 acres	153 bushel	12115000 bushel
11199199	1	1565000 acres	1460000 acres	160 bushel	2.33E+08 bushel
11199199	2	142000 acres	84000 acres	30 bushel	2510000 bushel
11199199	2	1685000 acres	1140000 acres	60 bushel	68600000 bushel
11199199	9	224000 acres	163000 acres	90 bushel	14625000 bushel
11199199	9	3250000 acres	2600000 acres	116 bushel	3.02E+08 bushel
11199199	1	70000 acres	68000 acres	156 bushel	10585000 bushel
11199199	1	1440000 acres	1360000 acres	169 bushel	2.3E+08 bushel
11199199	2	91000 acres	54000 acres	34 bushel	1810000 bushel
11199199	2	1460000 acres	1140000 acres	61 bushel	70000000 bushel
11199199	9	161000 acres	122000 acres	102 bushel	12395000 bushel
11199199	9	2900000 acres	2500000 acres	120 bushel	3E+08 bushel
11199199	1	78000 acres	76000 acres	180 bushel	13695000 bushel
11199199	1	1490000 acres	1400000 acres	192 bushel	2.69E+08 bushel
11199199	2	84000 acres	79000 acres	99 bushel	7800000 bushel
11199199	2	1610000 acres	1480000 acres	110 bushel	1.64E+08 bushel
11199199	9	162000 acres	155000 acres	139 bushel	21495000 bushel
11199199	9	3100000 acres	2880000 acres	150 bushel	4.32E+08 bushel
11199199	1	82000 acres	80000 acres	175 bushel	14000000 bushel
11199199	1	1590000 acres	1510000 acres	187 bushel	2.83E+08 bushel
11199199	2	163000 acres	155000 acres	94 bushel	14600000 bushel
11199199	2	2060000 acres	1940000 acres	94 bushel	1.83E+08 bushel
11199199	9	245000 acres	235000 acres	122 bushel	28600000 bushel
11199199	9	3650000 acres	3450000 acres	135 bushel	4.66E+08 bushel
11199199	1	65000 acres	63000 acres	160 bushel	10087000 bushel
11199199	1	1360000 acres	1280000 acres	173 bushel	2.21E+08 bushel
11199199	2	161000 acres	133000 acres	66 bushel	8755000 bushel
11199199	2	1990000 acres	1720000 acres	72 bushel	1.24E+08 bushel
11199199	9	226000 acres	196000 acres	96 bushel	18842000 bushel
11199199	9	3350000 acres	3000000 acres	115 bushel	3.45E+08 bushel
11199199	1	81000 acres	78000 acres	174 bushel	13570000 bushel
11199199	1	1625000 acres	1569000 acres	195 bushel	3.06E+08 bushel
11199199	2	143000 acres	132000 acres	103 bushel	13600000 bushel

11199199	2	2275000 acres	2131000 acres	99 bushel	2.12E+08 bushel
11199199	9	224000 acres	210000 acres	129 bushel	27170000 bushel
11199199	9	3900000 acres	3700000 acres	140 bushel	5.18E+08 bushel
11199199	9	230000 acres	210000 acres	127 bushel	26700000 bushel
11199199	9	3800000 acres	3600000 acres	137 bushel	4.93E+08 bushel
11199299	9		29400 acres	8.1 tons	239600 tons
11199299	9		343000 acres	10.5 tons	3602000 tons
11199299	9		24660 acres	11.9 tons	293000 tons
11199299	9		313000 acres	14 tons	4382000 tons
11199299	9		13380 acres	14.4 tons	192800 tons
11199299	9		280000 acres	15.5 tons	4340000 tons
11199299	9		21000 acres	14.3 tons	299300 tons
11199299	9		305000 acres	15 tons	4575000 tons
11199299	9		37000 acres	8.9 tons	329000 tons
11199299	9		410000 acres	9.5 tons	3895000 tons
11199299	9		20300 acres	12.2 tons	247100 tons
11199299	9		260000 acres	12 tons	3120000 tons
11199299	9		28300 acres	11.6 tons	328000 tons
11199299	9		300000 acres	13 tons	3900000 tons
11199299	9		24300 acres	13.9 tons	337300 tons
11199299	9		290000 acres	14.5 tons	4205000 tons
11199299	9		11100 acres	12.3 tons	136500 tons
11199299	9		273000 acres	13 tons	3549000 tons
11199299	9		17100 acres	15.8 tons	269900 tons
11199299	9		245000 acres	16 tons	3920000 tons
11199299	9		38100 acres	9.1 tons	347100 tons
11199299	9		404000 acres	9 tons	3636000 tons
11199299	9		10300 acres	16 tons	164400 tons
11199299	9		158000 acres	17 tons	2686000 tons
11199299	9		9200 acres	15.9 tons	146500 tons
11199299	9		155000 acres	15.5 tons	2403000 tons
11199299	9		11300 acres	12.9 tons	145900 tons
11199299	9		169000 acres	11 tons	1859000 tons
11199299	9		8900 acres	13.2 tons	117600 tons
11199299	9		170000 acres	15.5 tons	2635000 tons
11199299	9		6700 acres	14.3 tons	96000 tons
11199299	9		114000 acres	14.5 tons	1653000 tons

11199299	9	5200 acres	19.4 tons	101000 tons
11199299	9	95000 acres	16 tons	1520000 tons
11199299	9	8500 acres	13.3 tons	113000 tons
11199299	9	100000 acres	15 tons	1500000 tons
11199299	9	5700 acres	11.1 tons	63000 tons
11199299	9	95000 acres	14 tons	1330000 tons
11199299	9	5000 acres	12.2 tons	61000 tons
11199299	9	105000 acres	14 tons	1470000 tons
11199299	9	4000 acres	9.3 tons	37100 tons
11199299	9	120000 acres	13 tons	1560000 tons
11199299	9	14000 acres	7 tons	98000 tons
11199299	9	140000 acres	13 tons	1820000 tons
11199299	9	7000 acres	15.9 tons	111000 tons
11199299	9	110000 acres	17 tons	1870000 tons
11199299	9	6000 acres	12 tons	72000 tons
11199299	9	130000 acres	13 tons	1690000 tons
11199299	9	8000 acres	15.5 tons	124000 tons
11199299	9	170000 acres	16 tons	2720000 tons
11199299	9	11000 acres	12.2 tons	134000 tons
11199299	9	130000 acres	13.5 tons	1755000 tons
11199299	9	8000 acres	11.4 tons	91000 tons
11199299	9	130000 acres	15 tons	1950000 tons
11199299	9	11000 acres	15.6 tons	172000 tons
11199299	9	125000 acres	18 tons	2250000 tons
11199299	9	11000 acres	16.2 tons	178000 tons
11199299	9	120000 acres	19 tons	2280000 tons
11199299	9	11000 acres	15.1 tons	166000 tons
11199299	9	130000 acres	17 tons	2210000 tons
11199299	9	22000 acres	8 tons	176000 tons
11199299	9	180000 acres	14 tons	2520000 tons
11199299	9	25000 acres	11.4 tons	285000 tons
11199299	9	295000 acres	14 tons	4130000 tons
11199299	9	39000 acres	5.9 tons	230000 tons
11199299	9	320000 acres	10 tons	3200000 tons
11199299	9	32000 acres	7.9 tons	254000 tons
11199299	9	280000 acres	11 tons	3080000 tons
11199299	9	6000 acres	12.5 tons	75000 tons

11199299	9		170000	acres	15	tons	2550000	tons
11199299	9		9000	acres	12.4	tons	112000	tons
11199299	9		150000	acres	16	tons	2400000	tons
11199299	9		27000	acres	7.8	tons	210000	tons
11199299	9		300000	acres	12	tons	3600000	tons
11199299	9		12000	acres	12.4	tons	149000	tons
11199299	9		140000	acres	18	tons	2520000	tons
11299999	9	16900 acres	13220	acres	42.1	bushel	557200	bushel
11299999	9	195000 acres	145000	acres	44	bushel	6380000	bushel
11299999	9	14200 acres	10350	acres	38.4	bushel	397200	bushel
11299999	9	120000 acres	86000	acres	40	bushel	3440000	bushel
11299999	9	31700 acres	26700	acres	37.9	bushel	1012600	bushel
11299999	9	210000 acres	168000	acres	33	bushel	5544000	bushel
11299999	9	23900 acres	18870	acres	41.3	bushel	779900	bushel
11299999	9	140000 acres	109000	acres	40	bushel	4360000	bushel
11299999	9	41200 acres	30900	acres	36	bushel	1112800	bushel
11299999	9	250000 acres	200000	acres	42	bushel	8400000	bushel
11299999	9	37700 acres	25090	acres	42.2	bushel	1059300	bushel
11299999	9	285000 acres	210000	acres	45	bushel	9450000	bushel
11299999	9	20000 acres	14300	acres	33.7	bushel	482100	bushel
11299999	9	150000 acres	105000	acres	39	bushel	4095000	bushel
11299999	9	15500 acres	8900	acres	38.1	bushel	338900	bushel
11299999	9	135000 acres	85000	acres	44	bushel	3740000	bushel
11299999	9	16600 acres	13300	acres	38.6	bushel	513000	bushel
11299999	9	175000 acres	120000	acres	38	bushel	4560000	bushel
11299999	9	32300 acres	24000	acres	55.9	bushel	1342300	bushel
11299999	9	260000 acres	180000	acres	50	bushel	9000000	bushel
11299999	9	29100 acres	24600	acres	50.1	bushel	1233500	bushel
11299999	9	215000 acres	172000	acres	47	bushel	8084000	bushel
11299999	9	13300 acres	11200	acres	54.5	bushel	610400	bushel
11299999	9	145000 acres	105000	acres	48	bushel	5040000	bushel
11299999	9	15800 acres	11800	acres	55.7	bushel	657400	bushel
11299999	9	175000 acres	120000	acres	53	bushel	6360000	bushel
11299999	9	27000 acres	22600	acres	68.5	bushel	1548000	bushel
11299999	9	235000 acres	188000	acres	56	bushel	10528000	bushel
11299999	9	27500 acres	21800	acres	62.7	bushel	1366000	bushel
11299999	9	280000 acres	200000	acres	54	bushel	10800000	bushel

11299999	9	27400 acres	21750 acres	50.2 bushel	1092000 bushel	
11299999	9	240000 acres	155000 acres	42 bushel	6510000 bushel	
11299999	9	38300 acres	28100 acres	34.2 bushel	961200 bushel	
11299999	9	225000 acres	150000 acres	39 bushel	5850000 bushel	
11299999	9	46700 acres	24300 acres	28.5 bushel	693200 bushel	
11299999	9	280000 acres	200000 acres	45 bushel	9000000 bushel	
11299999	9	25700 acres	21800 acres	61 bushel	1330000 bushel	51.8 bushel
11299999	9	160000 acres	120000 acres	55 bushel	6600000 bushel	41.3 bushel
11299999	9	26000 acres	21300 acres	51.2 bushel	1090000 bushel	
11299999	9	160000 acres	110000 acres	53 bushel	5830000 bushel	
11299999	9	31000 acres	24000 acres	57.3 bushel	1374000 bushel	
11299999	9	200000 acres	140000 acres	56 bushel	7840000 bushel	
11299999	9	8000 acres	2300 acres	30.9 bushel	71000 bushel	
11299999	9	70000 acres	30000 acres	34 bushel	1020000 bushel	
11299999	9	28000 acres	20500 acres	45 bushel	930000 bushel	
11299999	9	160000 acres	120000 acres	46 bushel	5520000 bushel	
11299999	9	18000 acres	11000 acres	56 bushel	615000 bushel	
11299999	9	130000 acres	80000 acres	47 bushel	3760000 bushel	
11299999	9	21000 acres	13600 acres	47 bushel	638000 bushel	
11299999	9	130000 acres	80000 acres	52 bushel	4160000 bushel	
11299999	9	23000 acres	13200 acres	64 bushel	842200 bushel	
11299999	9	130000 acres	80000 acres	59 bushel	4720000 bushel	
11299999	9	20000 acres	10700 acres	48 bushel	512000 bushel	
11299999	9	110000 acres	60000 acres	45 bushel	2700000 bushel	
11299999	9	23000 acres	12900 acres	50 bushel	646000 bushel	
11299999	9	120000 acres	70000 acres	47 bushel	3290000 bushel	
11299999	9	21000 acres	6400 acres	45 bushel	291000 bushel	
11299999	9	110000 acres	50000 acres	44 bushel	2200000 bushel	
11299999	9	20000 acres	7000 acres	61 bushel	429000 bushel	
11299999	9	100000 acres	40000 acres	53 bushel	2120000 bushel	
11299999	9	27000 acres	11000 acres	56 bushel	620000 bushel	
11299999	9	140000 acres	60000 acres	52 bushel	3120000 bushel	
11299999	9	35000 acres	17000 acres	82 bushel	1386000 bushel	
11299999	9	140000 acres	70000 acres	65 bushel	4550000 bushel	
11299999	9	30000 acres	8800 acres	47 bushel	410000 bushel	
11299999	9	120000 acres	40000 acres	43 bushel	1720000 bushel	
11299999	9	21000 acres	7700 acres	58 bushel	449900 bushel	

11299999	9	100000 acres	40000 acres	59 bushel	2360000 bushel	
11299999	9	20000 acres	5400 acres	32 bushel	171000 bushel	
11299999	9	100000 acres	40000 acres	45 bushel	1800000 bushel	
11299999	9	17500 acres	7100 acres	44 bushel	314000 bushel	
11299999	9	90000 acres	35000 acres	38 bushel	1330000 bushel	
11399999	9	2300 acres	1570 acres	51.3 bushel	80500 bushel	
11399999	9	110000 acres	94000 acres	46 bushel	4324000 bushel	
11399999	9	3300 acres	3170 acres	39.9 bushel	126400 bushel	
11399999	9	80000 acres	70000 acres	43 bushel	3010000 bushel	
11399999	9	3800 acres	3110 acres	38.6 bushel	120100 bushel	
11399999	9	55000 acres	45000 acres	34 bushel	1530000 bushel	
11399999	9	4300 acres	3950 acres	35.9 bushel	141800 bushel	
11399999	9	55000 acres	50000 acres	37 bushel	1850000 bushel	
11399999	9	4900 acres	4190 acres	37 bushel	154900 bushel	
11399999	9	75000 acres	62000 acres	35 bushel	2170000 bushel	
11399999	9	5400 acres	4660 acres	34.2 bushel	159500 bushel	
11399999	9	85000 acres	73000 acres	36 bushel	2628000 bushel	
11399999	9	5900 acres	5100 acres	44 bushel	224400 bushel	
11399999	9	66000 acres	55000 acres	42 bushel	2310000 bushel	
11399999	9	4900 acres	3350 acres	39.6 bushel	132500 bushel	
11399999	9	66000 acres	52000 acres	44 bushel	2288000 bushel	
11399999	9	2700 acres	2400 acres	42.1 bushel	101000 bushel	
11399999	9	60000 acres	51000 acres	41 bushel	2091000 bushel	
11399999	9	3100 acres	2800 acres	38.2 bushel	107000 bushel	
11399999	9	63000 acres	52000 acres	32 bushel	1664000 bushel	
11399999	9	3400 acres	3000 acres	42.8 bushel	128300 bushel	
11399999	9	70000 acres	57000 acres	43 bushel	2451000 bushel	
11399999	9	5800 acres	5400 acres	51.3 bushel	277100 bushel	
11399999	9	100000 acres	90000 acres	51 bushel	4590000 bushel	
11399999	9	9200 acres	6300 acres	47 bushel	296100 bushel	
11399999	9	180000 acres	155000 acres	43 bushel	6665000 bushel	
11399999	9	13000 acres	11900 acres	48.8 bushel	580800 bushel	
11399999	9	240000 acres	220000 acres	44 bushel	9680000 bushel	
11399999	9	21400 acres	18100 acres	41.6 bushel	752900 bushel	35.2 bushel
11399999	9	350000 acres	290000 acres	36 bushel	10440000 bushel	29.8 bushel
11399999	9	7600 acres	6200 acres	40.8 bushel	252700 bushel	
11399999	9	140000 acres	120000 acres	40 bushel	4800000 bushel	

11399999	9	4400 acres	3700 acres	37.9 bushel	140300 bushel
11399999	9	100000 acres	85000 acres	35 bushel	2975000 bushel
11399999	9	3500 acres	600 acres	17.5 bushel	10500 bushel
11399999	9	60000 acres	18000 acres	32 bushel	576000 bushel
11399999	9	1500 acres	1400 acres	32 bushel	44800 bushel
11399999	9	25000 acres	21000 acres	44 bushel	924000 bushel
11399999	9	1500 acres	1400 acres	37.6 bushel	52700 bushel
11399999	9	30000 acres	23000 acres	33 bushel	759000 bushel
11399999	9	1200 acres	1000 acres	46 bushel	46000 bushel
11399999	9	27000 acres	23000 acres	40 bushel	920000 bushel
11399999	9	800 acres	600 acres	34 bushel	20400 bushel
11399999	9	18000 acres	15000 acres	46 bushel	690000 bushel
11399999	9	1400 acres	1400 acres	37 bushel	52000 bushel
11399999	9	15000 acres	14000 acres	38 bushel	532000 bushel
11399999	9	10000 acres	9000 acres	35 bushel	315000 bushel
11399999	9	13000 acres	11000 acres	33 bushel	363000 bushel
11399999	9	10000 acres	8000 acres	42 bushel	336000 bushel
11399999	9	8000 acres	8000 acres	35 bushel	280000 bushel
11399999	9	16000 acres	13000 acres	45 bushel	585000 bushel
11399999	9	8000 acres	7000 acres	35 bushel	245000 bushel
11399999	9	9000 acres	8000 acres	50 bushel	400000 bushel
11399999	9	8000 acres	7000 acres	37 bushel	259000 bushel
11399999	9	9000 acres	8000 acres	57 bushel	456000 bushel
11399999	9	15000 acres	12000 acres	28 bushel	336000 bushel
11399999	9	19000 acres	14000 acres	42 bushel	588000 bushel
11399999	9	24000 acres	18000 acres	27 bushel	486000 bushel
11399999	9	20000 acres	13000 acres	48 bushel	624000 bushel
11499199	1		10200 acres	74 bushel	751900 bushel
11499199	1		500300 acres	87 bushel	43620000 bushel
11499199	2		492800 acres	33 bushel	16268400 bushel
11499199	2		3059700 acres	33 bushel	1.02E+08 bushel
11499199	9	628000 acres	503000 acres	34 bushel	17020300 bushel
11499199	9	4391000 acres	3560000 acres	41 bushel	1.46E+08 bushel
11499199	1		12700 acres	84 bushel	1062500 bushel
11499199	1		499400 acres	86 bushel	43176000 bushel
11499199	2		608300 acres	46 bushel	27980900 bushel
11499199	2		3825600 acres	50 bushel	1.9E+08 bushel

11499199	9	767000 acres	621000 acres	47 bushel	29043400 bushel
11499199	9	5180000 acres	4325000 acres	54 bushel	2.34E+08 bushel
11499199	1		21100 acres	79 bushel	1667300 bushel
11499199	1		507300 acres	84 bushel	42753000 bushel
11499199	2		531700 acres	61 bushel	32496600 bushel
11499199	2		2992700 acres	58 bushel	1.74E+08 bushel
11499199	9	721000 acres	552800 acres	62 bushel	34163900 bushel
11499199	9	4400000 acres	3500000 acres	62 bushel	2.17E+08 bushel
11499199	1		16000 acres	80 bushel	1280000 bushel
11499199	1		405100 acres	79 bushel	32193000 bushel
11499199	2		674100 acres	58 bushel	39312200 bushel
11499199	2		3494900 acres	53 bushel	1.86E+08 bushel
11499199	9	819000 acres	690100 acres	59 bushel	40592200 bushel
11499199	9	4650000 acres	3900000 acres	56 bushel	2.18E+08 bushel
11499199	1		13300 acres	71 bushel	950000 bushel
11499199	1		327700 acres	76 bushel	24747300 bushel
11499199	2		599000 acres	34 bushel	20431200 bushel
11499199	2		2992300 acres	36 bushel	1.08E+08 bushel
11499199	9	762300 acres	612300 acres	35 bushel	21381200 bushel
11499199	9	4100000 acres	3320000 acres	40 bushel	1.33E+08 bushel
11499199	1		13800 acres	69 bushel	958900 bushel
11499199	1		421000 acres	71 bushel	29690000 bushel
11499199	2		566200 acres	40 bushel	22747800 bushel
11499199	2		3079000 acres	38 bushel	1.17E+08 bushel
11499199	9	715000 acres	580000 acres	41 bushel	23706700 bushel
11499199	9	4100000 acres	3500000 acres	42 bushel	1.47E+08 bushel
11499199	1		13200 acres	89 bushel	1177600 bushel
11499199	1		433000 acres	84 bushel	36372000 bushel
11499199	2		513600 acres	37 bushel	18926900 bushel
11499199	2		3317000 acres	39 bushel	1.29E+08 bushel
11499199	9	683000 acres	526800 acres	38 bushel	20104500 bushel
11499199	9	4500000 acres	3750000 acres	44 bushel	1.65E+08 bushel
11499199	1		18500 acres	84 bushel	1554400 bushel
11499199	1		602000 acres	82 bushel	49484000 bushel
11499199	2		534400 acres	64 bushel	34378000 bushel
11499199	2		3198000 acres	58 bushel	1.86E+08 bushel
11499199	9	702000 acres	552900 acres	65 bushel	35932400 bushel

11499199	9	4550000 acres	3800000 acres	62 bushel	2.36E+08 bushel
11499199	1		24600 acres	89 bushel	2187500 bushel
11499199	1		631000 acres	86 bushel	53976300 bushel
11499199	2		563300 acres	52 bushel	29496000 bushel
11499199	2		3229000 acres	44 bushel	1.43E+08 bushel
11499199	9	698000 acres	587900 acres	54 bushel	31683500 bushel
11499199	9	4450000 acres	3860000 acres	51 bushel	1.97E+08 bushel
11499199	1		23300 acres	104 bushel	2421500 bushel
11499199	1		630000 acres	93 bushel	58741000 bushel
11499199	2		484700 acres	70 bushel	33743400 bushel
11499199	2		2940000 acres	64 bushel	1.88E+08 bushel
11499199	9	648000 acres	508000 acres	71 bushel	36164900 bushel
11499199	9	4350000 acres	3570000 acres	69 bushel	2.46E+08 bushel
11499199	1	28500 acres	19900 acres	80 bushel	1596300 bushel
11499199	1	787000 acres	688000 acres	84 bushel	57506000 bushel
11499199	2	637500 acres	404800 acres	33 bushel	13370000 bushel
11499199	2	3713000 acres	2792000 acres	33 bushel	92134000 bushel
11499199	9	666000 acres	424700 acres	35 bushel	14966300 bushel
11499199	9	4500000 acres	3480000 acres	43 bushel	1.5E+08 bushel
11499199	1	29500 acres	26700 acres	84 bushel	2241200 bushel
11499199	1	958000 acres	867000 acres	93 bushel	80759000 bushel
11499199	2	491500 acres	360100 acres	63 bushel	22724300 bushel
11499199	2	3292000 acres	2693000 acres	59 bushel	1.58E+08 bushel
11499199	9	521000 acres	386800 acres	65 bushel	24965500 bushel
11499199	9	4250000 acres	3560000 acres	67 bushel	2.39E+08 bushel
11499199	1	27200 acres	24500 acres	89 bushel	2188700 bushel
11499199	1	909000 acres	829000 acres	90 bushel	74351000 bushel
11499199	2	471800 acres	395800 acres	64 bushel	25481400 bushel
11499199	2	2991000 acres	2521000 acres	53 bushel	1.33E+08 bushel
11499199	9	499000 acres	420300 acres	66 bushel	27670100 bushel
11499199	9	3900000 acres	3350000 acres	62 bushel	2.08E+08 bushel
11499199	1	24800 acres	18800 acres	78 bushel	1475000 bushel
11499199	1	686000 acres	595000 acres	76 bushel	45236000 bushel
11499199	2	471200 acres	369600 acres	40 bushel	14693000 bushel
11499199	2	2864000 acres	2235000 acres	34 bushel	76454000 bushel
11499199	9	496000 acres	388400 acres	42 bushel	16168000 bushel
11499199	9	3550000 acres	2830000 acres	43 bushel	1.22E+08 bushel

11499199	1	39000	acres	35900	acres	86	bushel	3085600	bushel
11499199	1	870000	acres	799000	acres	90	bushel	72219000	bushel
11499199	2	602000	acres	520500	acres	46	bushel	23973100	bushel
11499199	2	3930000	acres	3451000	acres	42	bushel	1.45E+08	bushel
11499199	9	641000	acres	556400	acres	49	bushel	27058700	bushel
11499199	9	4800000	acres	4250000	acres	51	bushel	2.17E+08	bushel
11499199	1	38000	acres	35300	acres	91	bushel	3203400	bushel
11499199	1	890000	acres	852000	acres	92	bushel	78071000	bushel
11499199	2	617000	acres	537700	acres	66	bushel	35743600	bushel
11499199	2	3910000	acres	3448000	acres	63	bushel	2.19E+08	bushel
11499199	9	655000	acres	573000	acres	68	bushel	38947000	bushel
11499199	9	4800000	acres	4300000	acres	69	bushel	2.97E+08	bushel
11499199	1	40000	acres	38500	acres	107	bushel	4128300	bushel
11499199	1	800000	acres	767000	acres	100	bushel	77056000	bushel
11499199	2	554000	acres	505500	acres	83	bushel	41898900	bushel
11499199	2	3700000	acres	3383000	acres	69	bushel	2.34E+08	bushel
11499199	9	594000	acres	544000	acres	85	bushel	46027200	bushel
11499199	9	4500000	acres	4150000	acres	75	bushel	3.11E+08	bushel
11499199	1	23000	acres	22100	acres	103	bushel	2268800	bushel
11499199	1	586000	acres	556000	acres	99	bushel	55100000	bushel
11499199	2	554000	acres	504800	acres	81	bushel	41013800	bushel
11499199	2	3514000	acres	3194000	acres	68	bushel	2.19E+08	bushel
11499199	9	577000	acres	526900	acres	82	bushel	43282600	bushel
11499199	9	4100000	acres	3750000	acres	73	bushel	2.74E+08	bushel
11499199	1	20000	acres	19000	acres	98	bushel	1856000	bushel
11499199	1	510000	acres	488000	acres	105	bushel	51121000	bushel
11499199	2	507000	acres	471000	acres	54	bushel	25512000	bushel
11499199	2	3090000	acres	2812000	acres	55	bushel	1.53E+08	bushel
11499199	9	527000	acres	490000	acres	56	bushel	27368000	bushel
11499199	9	3600000	acres	3300000	acres	62	bushel	2.05E+08	bushel
11499199	1	20000	acres	19000	acres	82	bushel	1560000	bushel
11499199	1	575000	acres	547000	acres	87	bushel	47659000	bushel
11499199	2	555000	acres	506000	acres	42	bushel	21439000	bushel
11499199	2	3525000	acres	3203000	acres	47	bushel	1.51E+08	bushel
11499199	9	575000	acres	525000	acres	44	bushel	22999000	bushel
11499199	9	4100000	acres	3750000	acres	53	bushel	1.99E+08	bushel
11499199	1	15000	acres	14000	acres	103	bushel	1442000	bushel

11499199	1	466000 acres	434000 acres	95 bushel	41164000 bushel
11499199	2	485000 acres	446000 acres	61 bushel	27421000 bushel
11499199	2	2634000 acres	2366000 acres	61 bushel	1.44E+08 bushel
11499199	9	500000 acres	460000 acres	63 bushel	28863000 bushel
11499199	9	3100000 acres	2800000 acres	66 bushel	1.85E+08 bushel
11499199	1	15000 acres	14000 acres	94 bushel	1316000 bushel
11499199	1	435000 acres	416000 acres	101 bushel	42074000 bushel
11499199	2	540000 acres	491000 acres	44 bushel	21755000 bushel
11499199	2	2965000 acres	2734000 acres	49 bushel	1.34E+08 bushel
11499199	9	555000 acres	505000 acres	46 bushel	23071000 bushel
11499199	9	3400000 acres	3150000 acres	56 bushel	1.76E+08 bushel
11499199	1	16000 acres	16000 acres	107 bushel	1710000 bushel
11499199	1	384000 acres	358000 acres	103 bushel	37045000 bushel
11499199	2	559000 acres	525000 acres	80 bushel	41845000 bushel
11499199	2	2916000 acres	2692000 acres	77 bushel	2.07E+08 bushel
11499199	9	575000 acres	541000 acres	81 bushel	43555000 bushel
11499199	9	3300000 acres	3050000 acres	80 bushel	2.44E+08 bushel
11499199	1	8800 acres	8400 acres	96 bushel	806000 bushel
11499199	1	247000 acres	218000 acres	94 bushel	20400000 bushel
11499199	2	536200 acres	505400 acres	67 bushel	33783000 bushel
11499199	2	2753000 acres	2582000 acres	60 bushel	1.56E+08 bushel
11499199	9	545000 acres	513800 acres	67 bushel	34589000 bushel
11499199	9	3000000 acres	2800000 acres	63 bushel	1.76E+08 bushel
11499199	1	11400 acres	10500 acres	111 bushel	1161000 bushel
11499199	1	271000 acres	243000 acres	105 bushel	25500000 bushel
11499199	2	603600 acres	571700 acres	88 bushel	50433000 bushel
11499199	2	2929000 acres	2757000 acres	75 bushel	2.06E+08 bushel
11499199	9	615000 acres	582200 acres	89 bushel	51594000 bushel
11499199	9	3200000 acres	3000000 acres	77 bushel	2.31E+08 bushel
11499199	1	10800 acres	10100 acres	80 bushel	808000 bushel
11499199	1	264000 acres	250000 acres	81 bushel	20240000 bushel
11499199	2	611200 acres	588900 acres	59 bushel	34477000 bushel
11499199	2	3036000 acres	2850000 acres	54 bushel	1.53E+08 bushel
11499199	9	622000 acres	599000 acres	59 bushel	35285000 bushel
11499199	9	3300000 acres	3100000 acres	56 bushel	1.74E+08 bushel
11499199	1	10000 acres	8900 acres	110 bushel	980000 bushel
11499199	1	295000 acres	265000 acres	102 bushel	27070000 bushel

11499199	2	710000 acres	680100 acres	88 bushel	59512900 bushel
11499199	2	4505000 acres	4335000 acres	75 bushel	3.27E+08 bushel
11499199	9	720000 acres	689000 acres	88 bushel	60492900 bushel
11499199	9	4800000 acres	4600000 acres	77 bushel	3.54E+08 bushel
11499199	1	11100 acres	10000 acres	104 bushel	1036000 bushel
11499199	1	230000 acres	212000 acres	98 bushel	20795000 bushel
11499199	2	638900 acres	570000 acres	77 bushel	44135000 bushel
11499199	2	3420000 acres	3188000 acres	77 bushel	2.44E+08 bushel
11499199	9	650000 acres	580000 acres	78 bushel	45171000 bushel
11499199	9	3650000 acres	3400000 acres	78 bushel	2.65E+08 bushel
11499199	1	5900 acres	5500 acres	101 bushel	555000 bushel
11499199	1	166000 acres	148000 acres	94 bushel	13930000 bushel
11499199	2	594100 acres	557500 acres	93 bushel	52022000 bushel
11499199	2	3334000 acres	3152000 acres	79 bushel	2.5E+08 bushel
11499199	9	600000 acres	563000 acres	93 bushel	52577000 bushel
11499199	9	3500000 acres	3300000 acres	80 bushel	2.64E+08 bushel
11499199	1	6000 acres	5900 acres	112 bushel	661000 bushel
11499199	1	145000 acres	138000 acres	103 bushel	14214000 bushel
11499199	2	561000 acres	531100 acres	86 bushel	45521000 bushel
11499199	2	3455000 acres	3262000 acres	75 bushel	2.44E+08 bushel
11499199	9	567000 acres	537000 acres	86 bushel	46182000 bushel
11499199	9	3600000 acres	3400000 acres	76 bushel	2.58E+08 bushel
11499199	1	5000 acres	5000 acres	99 bushel	495000 bushel
11499199	1	112000 acres	105000 acres	93 bushel	9785000 bushel
11499199	2	604000 acres	524000 acres	45 bushel	23724000 bushel
11499199	2	3388000 acres	3095000 acres	58 bushel	1.79E+08 bushel
11499199	9	609000 acres	529000 acres	46 bushel	24219000 bushel
11499199	9	3500000 acres	3200000 acres	59 bushel	1.89E+08 bushel
11499199	1	13000 acres	12000 acres	99 bushel	1183000 bushel
11499199	1	185000 acres	167000 acres	93 bushel	15530000 bushel
11499199	2	586000 acres	560000 acres	77 bushel	43223000 bushel
11499199	2	3815000 acres	3583000 acres	61 bushel	2.17E+08 bushel
11499199	9	599000 acres	572000 acres	78 bushel	44406000 bushel
11499199	9	4000000 acres	3750000 acres	62 bushel	2.33E+08 bushel
11499199	1	17000 acres	15000 acres	98 bushel	1472000 bushel
11499199	1	225000 acres	200000 acres	83 bushel	16500000 bushel
11499199	2	580000 acres	509000 acres	39 bushel	19970000 bushel

11499199	2	3575000	acres	2800000	acres	42	bushel	1.19E+08	bushel
11499199	9	597000	acres	524000	acres	41	bushel	21442000	bushel
11499199	9	3800000	acres	3000000	acres	45	bushel	1.35E+08	bushel
11499199	1	21000	acres	20000	acres	103	bushel	2051000	bushel
11499199	1	290000	acres	268000	acres	93	bushel	24900000	bushel
11499199	2	604000	acres	523000	acres	43	bushel	22611000	bushel
11499199	2	3260000	acres	2632000	acres	40	bushel	1.06E+08	bushel
11499199	9	625000	acres	543000	acres	45	bushel	24662000	bushel
11499199	9	3550000	acres	2900000	acres	45	bushel	1.31E+08	bushel
11499199	1	14000	acres	14000	acres	125	bushel	1746000	bushel
11499199	1	220000	acres	200000	acres	108	bushel	21650000	bushel
11499199	2	516000	acres	496000	acres	86	bushel	42471000	bushel
11499199	2	2980000	acres	2700000	acres	74	bushel	1.99E+08	bushel
11499199	9	530000	acres	510000	acres	87	bushel	44217000	bushel
11499199	9	3200000	acres	2900000	acres	76	bushel	2.2E+08	bushel
11499199	1	8000	acres	8000	acres	117	bushel	935000	bushel
11499199	1	165000	acres	147000	acres	99	bushel	14500000	bushel
11499199	2	475000	acres	454000	acres	95	bushel	43247000	bushel
11499199	2	2585000	acres	2453000	acres	74	bushel	1.81E+08	bushel
11499199	9	483000	acres	462000	acres	96	bushel	44182000	bushel
11499199	9	2750000	acres	2600000	acres	75	bushel	1.95E+08	bushel
11499199	1	8000	acres	7900	acres	116	bushel	917000	bushel
11499199	1	190000	acres	174000	acres	94	bushel	16300000	bushel
11499199	2	459000	acres	428100	acres	76	bushel	32353000	bushel
11499199	2	2560000	acres	2326000	acres	55	bushel	1.29E+08	bushel
11499199	9	467000	acres	436000	acres	76	bushel	33270000	bushel
11499199	9	2750000	acres	2500000	acres	58	bushel	1.45E+08	bushel
11499199	1	11000	acres	11000	acres	125	bushel	1380000	bushel
11499199	1	170000	acres	158000	acres	107	bushel	16900000	bushel
11499199	2	512000	acres	484000	acres	94	bushel	45278900	bushel
11499199	2	2630000	acres	2492000	acres	78	bushel	1.95E+08	bushel
11499199	9	523000	acres	495000	acres	94	bushel	46658900	bushel
11499199	9	2800000	acres	2650000	acres	80	bushel	2.12E+08	bushel
11499299	9			53600	acres	7.3	tons	393600	tons
11499299	9			264000	acres	8	tons	2112000	tons
11499299	9			65000	acres	10	tons	648700	tons
11499299	9			337000	acres	11	tons	3707000	tons

11499299	9	66100 acres	13.1 tons	865200 tons
11499299	9	320000 acres	13 tons	4160000 tons
11499299	9	61300 acres	12.8 tons	784000 tons
11499299	9	300000 acres	12 tons	3600000 tons
11499299	9	59300 acres	8.6 tons	509600 tons
11499299	9	265000 acres	9.6 tons	2544000 tons
11499299	9	77000 acres	8.8 tons	679300 tons
11499299	9	271000 acres	9 tons	2439000 tons
11499299	9	78400 acres	8.4 tons	658600 tons
11499299	9	311000 acres	8.5 tons	2644000 tons
11499299	9	77800 acres	12.9 tons	1002200 tons
11499299	9	300000 acres	12.5 tons	3750000 tons
11499299	9	49800 acres	11.1 tons	554000 tons
11499299	9	220000 acres	10 tons	2200000 tons
11499299	9	69000 acres	11.4 tons	784800 tons
11499299	9	320000 acres	12 tons	3840000 tons
11499299	9	53700 acres	8.7 tons	467300 tons
11499299	9	295000 acres	9 tons	2655000 tons
11499299	9	56500 acres	13.3 tons	752600 tons
11499299	9	280000 acres	13.5 tons	3780000 tons
11499299	9	30400 acres	12.8 tons	389000 tons
11499299	9	170000 acres	12.5 tons	2125000 tons
11499299	9	40300 acres	8.6 tons	345500 tons
11499299	9	220000 acres	9.5 tons	2090000 tons
11499299	9	39100 acres	10.1 tons	396200 tons
11499299	9	190000 acres	11 tons	2090000 tons
11499299	9	40100 acres	13.8 tons	552500 tons
11499299	9	184000 acres	14.5 tons	2668000 tons
11499299	9	28700 acres	15.1 tons	432700 tons
11499299	9	130000 acres	14 tons	1820000 tons
11499299	9	22900 acres	14.9 tons	341100 tons
11499299	9	123000 acres	14.5 tons	1784000 tons
11499299	9	22100 acres	7.9 tons	175200 tons
11499299	9	140000 acres	10 tons	1400000 tons
11499299	9	19000 acres	11.5 tons	219000 tons
11499299	9	130000 acres	11 tons	1430000 tons
11499299	9	17000 acres	15.5 tons	264000 tons

11499299	9		100000 acres	13.5 tons	1350000 tons
11499299	9		18000 acres	8.5 tons	153000 tons
11499299	9		100000 acres	10 tons	1000000 tons
11499299	9		13000 acres	15 tons	194500 tons
11499299	9		80000 acres	16 tons	1280000 tons
11499299	9		10700 acres	13.1 tons	140000 tons
11499299	9		60000 acres	13 tons	780000 tons
11499299	9		17600 acres	15.2 tons	267000 tons
11499299	9		90000 acres	14 tons	1260000 tons
11499299	9		17000 acres	11.6 tons	197500 tons
11499299	9		80000 acres	10 tons	800000 tons
11499299	9		20000 acres	16.1 tons	321000 tons
11499299	9		120000 acres	14 tons	1680000 tons
11499299	9		24100 acres	14.6 tons	352000 tons
11499299	9		130000 acres	15 tons	1950000 tons
11499299	9		17000 acres	15.4 tons	261000 tons
11499299	9		80000 acres	15 tons	1200000 tons
11499299	9		18000 acres	17.4 tons	314000 tons
11499299	9		90000 acres	16 tons	1440000 tons
11499299	9		18000 acres	10.1 tons	181000 tons
11499299	9		65000 acres	10 tons	650000 tons
11499299	9		18000 acres	13.5 tons	243000 tons
11499299	9		100000 acres	12 tons	1200000 tons
11499299	9		20000 acres	4.9 tons	98000 tons
11499299	9		115000 acres	7 tons	805000 tons
11499299	9		11000 acres	6.8 tons	75000 tons
11499299	9		70000 acres	8 tons	560000 tons
11499299	9		10000 acres	13.1 tons	131000 tons
11499299	9		65000 acres	14 tons	910000 tons
11499299	9		10000 acres	14.5 tons	145000 tons
11499299	9		60000 acres	13 tons	780000 tons
11499299	9		10000 acres	8.8 tons	88000 tons
11499299	9		60000 acres	10 tons	600000 tons
11499299	9		14000 acres	14.8 tons	207000 tons
11499299	9		80000 acres	14 tons	1120000 tons
12121999	9	2000 acres	1800 acres	347 pounds	1300 bales
12121999	9	2500 acres	800 acres	120 pounds	200 bales

12121999	9	1600 acres	1400 acres	206 pounds	600 bales	
12121999	9	1400 acres	1200 acres	480 pounds	1200 bales	
12121999	9	3800 acres	2600 acres	185 pounds	1000 bales	
12121999	9	4500 acres	4000 acres	492 pounds	4100 bales	
12121999	9	12000 acres	10000 acres	418 pounds	8700 bales	
12121999	9	17000 acres	16500 acres	404 pounds	13900 bales	
12121999	9	33000 acres	28000 acres	375 pounds	21900 bales	
12121999	9	40000 acres	37000 acres	288 pounds	22200 bales	
12121999	9	40500 acres	35500 acres	407 pounds	30100 bales	
12121999	9	80000 acres	68000 acres	539 pounds	76300 bales	
12121999	9	90000 acres	80000 acres	537 pounds	89500 bales	
12121999	9	85000 acres	80000 acres	424 pounds	70700 bales	
12121999	9	74000 acres	66000 acres	638 pounds	87700 bales	
12121999	9	115000 acres	110000 acres	511 pounds	117000 bales	
12121999	9	47000 acres	43000 acres	639 pounds	57200 bales	
13299199	9	40600 acres	35600 acres	18.3 tons	650000 tons	
13299199	9	34800 acres	34000 acres	17.8 tons	605000 tons	
13299199	9	35900 acres	35100 acres	17.2 tons	602000 tons	16.18
13299199	9	46000 acres	43000 acres	15.5 tons	667000 tons	15.26
13299199	9	39000 acres	38000 acres	19.7 tons	749000 tons	14.29
13299199	9	26000 acres	24000 acres	16.7 tons	401000 tons	14.22
13299199	9	28000 acres	26000 acres	17 tons	442000 tons	15.4
13299199	9	13000 acres	12000 acres	17.8 tons	213000 tons	15.9
13299199	9	16000 acres	14500 acres	13.8 tons	200000 tons	14.63
13299199	9	14800 acres	14000 acres	20.3 tons	284000 tons	14.9
13299199	9	9900 acres	9500 acres	17.9 tons	170000 tons	13.97
13299199	9	7500 acres	6900 acres	13.7 tons	95000 tons	12.62
13299199	9	7800 acres	7100 acres	17.2 tons	122000 tons	13.33
15499199	9	23490 acres	22830 acres	15 bushel	342300 bushel	
15499199	9	990000 acres	930000 acres	15 bushel	13950000 bushel	
15499199	9	18820 acres	18540 acres	15 bushel	281300 bushel	
15499199	9	880000 acres	871000 acres	21 bushel	17856000 bushel	
15499199	9	8900 acres	8630 acres	32.9 bushel	284300 bushel	
15499199	9	900000 acres	875000 acres	28 bushel	24500000 bushel	
15499199	9	19900 acres	19480 acres	28.8 bushel	561000 bushel	
15499199	9	1240000 acres	1200000 acres	22 bushel	26400000 bushel	
15499199	9	20900 acres	20350 acres	21.6 bushel	438900 bushel	

15499199	9	1030000 acres	990000 acres	20 bushel	19800000 bushel
15499199	9	25900 acres	24800 acres	20.5 bushel	508000 bushel
15499199	9	1100000 acres	1080000 acres	21 bushel	22680000 bushel
15499199	9	16990 acres	16550 acres	16.1 bushel	266100 bushel
15499199	9	900000 acres	865000 acres	15 bushel	12975000 bushel
15499199	9	20300 acres	20300 acres	37.6 bushel	764100 bushel
15499199	9	1020000 acres	990000 acres	28.5 bushel	28215000 bushel
15499199	9	39700 acres	39400 acres	24.5 bushel	965300 bushel
15499199	9	1520000 acres	1490000 acres	18 bushel	26820000 bushel
15499199	9	43600 acres	43300 acres	29.6 bushel	1281100 bushel
15499199	9	1580000 acres	1560000 acres	26.5 bushel	41340000 bushel
15499199	9	62000 acres	56400 acres	17.1 bushel	965500 bushel
15499199	9	1550000 acres	1450000 acres	16.5 bushel	23925000 bushel
15499199	9	73000 acres	71800 acres	35.4 bushel	2541000 bushel
15499199	9	1540000 acres	1510000 acres	30 bushel	45300000 bushel
15499199	9	99000 acres	97100 acres	31.1 bushel	3018200 bushel
15499199	9	1820000 acres	1780000 acres	26 bushel	46280000 bushel
15499199	9	91000 acres	87700 acres	20.1 bushel	1764100 bushel
15499199	9	1600000 acres	1520000 acres	16 bushel	24320000 bushel
15499199	1		23700 acres	35.5 bushel	841700 bushel
15499199	1		295000 acres	39.3 bushel	11589000 bushel
15499199	2		66000 acres	18.5 bushel	1219800 bushel
15499199	2		1295000 acres	12.5 bushel	16236000 bushel
15499199	9	101000 acres	89700 acres	23 bushel	2061500 bushel
15499199	9	1700000 acres	1590000 acres	17.5 bushel	27825000 bushel
15499199	1	31000 acres	30000 acres	41 bushel	1227100 bushel
15499199	1	267000 acres	257000 acres	40 bushel	10318000 bushel
15499199	2	48000 acres	46000 acres	28 bushel	1271900 bushel
15499199	2	1233000 acres	1153000 acres	29 bushel	33392000 bushel
15499199	9	79000 acres	76000 acres	33 bushel	2499000 bushel
15499199	9	1500000 acres	1410000 acres	31 bushel	43710000 bushel
15499199	1	26600 acres	26300 acres	45 bushel	1193400 bushel
15499199	1	269000 acres	265000 acres	42 bushel	11237000 bushel
15499199	2	76400 acres	74700 acres	35 bushel	2606300 bushel
15499199	2	1581000 acres	1475000 acres	32 bushel	47053000 bushel
15499199	9	103000 acres	101000 acres	38 bushel	3799700 bushel
15499199	9	1850000 acres	1740000 acres	34 bushel	58290000 bushel

15499199	1	20800 acres	20500 acres	46 bushel	936000 bushel
15499199	1	210000 acres	203000 acres	43 bushel	8807000 bushel
15499199	2	124200 acres	123500 acres	30 bushel	3679000 bushel
15499199	2	1940000 acres	1907000 acres	31 bushel	58713000 bushel
15499199	9	145000 acres	144000 acres	32 bushel	4615000 bushel
15499199	9	2150000 acres	2110000 acres	32 bushel	67520000 bushel
15499199	1	27800 acres	27600 acres	40 bushel	1093000 bushel
15499199	1	285600 acres	284600 acres	40 bushel	11470000 bushel
15499199	2	96200 acres	90600 acres	19 bushel	1724000 bushel
15499199	2	1764400 acres	1715400 acres	20 bushel	34530000 bushel
15499199	9	124000 acres	118200 acres	24 bushel	2817000 bushel
15499199	9	2050000 acres	2000000 acres	23 bushel	46000000 bushel
15499199	1	25500 acres	24100 acres	43 bushel	1046000 bushel
15499199	1	284600 acres	274500 acres	41 bushel	11243000 bushel
15499199	2	111500 acres	101900 acres	21 bushel	2105000 bushel
15499199	2	1615400 acres	1575500 acres	25 bushel	38707000 bushel
15499199	9	137000 acres	126000 acres	25 bushel	3151000 bushel
15499199	9	1900000 acres	1850000 acres	27 bushel	49950000 bushel
15499199	1	29600 acres	29600 acres	44 bushel	1294600 bushel
15499199	1	259000 acres	255000 acres	43 bushel	10841000 bushel
15499199	2	120400 acres	117400 acres	21 bushel	2419400 bushel
15499199	2	1741000 acres	1695000 acres	21 bushel	35959000 bushel
15499199	9	150000 acres	147000 acres	25 bushel	3714000 bushel
15499199	9	2000000 acres	1950000 acres	24 bushel	46800000 bushel
15499199	1	30000 acres	30000 acres	44 bushel	1320000 bushel
15499199	1	257000 acres	255000 acres	49 bushel	12522000 bushel
15499199	2	90000 acres	83000 acres	17 bushel	1380000 bushel
15499199	2	1743000 acres	1645000 acres	19 bushel	31178000 bushel
15499199	9	120000 acres	113000 acres	24 bushel	2700000 bushel
15499199	9	2000000 acres	1900000 acres	23 bushel	43700000 bushel
15499199	1	24000 acres	23900 acres	48 bushel	1141500 bushel
15499199	1	219000 acres	215000 acres	46 bushel	9953800 bushel
15499199	2	72000 acres	70900 acres	37 bushel	2609500 bushel
15499199	2	1681000 acres	1635000 acres	36 bushel	58496200 bushel
15499199	9	96000 acres	94800 acres	40 bushel	3751000 bushel
15499199	9	1900000 acres	1850000 acres	37 bushel	68450000 bushel
15499199	1	24000 acres	23000 acres	44 bushel	1010000 bushel

15499199	1	220000 acres	215000 acres	43 bushel	9192000 bushel
15499199	2	86000 acres	80000 acres	35 bushel	2760000 bushel
15499199	2	1780000 acres	1685000 acres	26 bushel	44008000 bushel
15499199	9	110000 acres	103000 acres	37 bushel	3770000 bushel
15499199	9	2000000 acres	1900000 acres	28 bushel	53200000 bushel
15499199	1	32000 acres	32000 acres	48 bushel	1528000 bushel
15499199	1	240000 acres	238000 acres	50 bushel	11860000 bushel
15499199	2	131000 acres	129000 acres	34 bushel	4383000 bushel
15499199	2	1910000 acres	1862000 acres	33 bushel	61640000 bushel
15499199	9	163000 acres	161000 acres	37 bushel	5911000 bushel
15499199	9	2150000 acres	2100000 acres	35 bushel	73500000 bushel
15499199	1	30000 acres	29500 acres	45 bushel	1318000 bushel
15499199	1	223000 acres	216000 acres	43 bushel	9244000 bushel
15499199	2	120000 acres	116500 acres	24 bushel	2806000 bushel
15499199	2	1877000 acres	1834000 acres	23 bushel	42006000 bushel
15499199	9	150000 acres	146000 acres	28 bushel	4124000 bushel
15499199	9	2100000 acres	2050000 acres	25 bushel	51250000 bushel
15499199	1	31000 acres	30500 acres	49 bushel	1505000 bushel
15499199	1	218000 acres	212600 acres	48 bushel	10138000 bushel
15499199	2	114000 acres	111500 acres	39 bushel	4400000 bushel
15499199	2	1832000 acres	1787400 acres	36 bushel	63862000 bushel
15499199	9	145000 acres	142000 acres	42 bushel	5905000 bushel
15499199	9	2050000 acres	2000000 acres	37 bushel	74000000 bushel
15499199	1	32000 acres	31200 acres	52 bushel	1609000 bushel
15499199	1	232000 acres	228300 acres	53 bushel	12012000 bushel
15499199	2	167000 acres	163800 acres	31 bushel	5001000 bushel
15499199	2	2168000 acres	2121700 acres	35 bushel	74938000 bushel
15499199	9	199000 acres	195000 acres	34 bushel	6610000 bushel
15499199	9	2400000 acres	2350000 acres	37 bushel	86950000 bushel
15499199	1	41000 acres	40900 acres	51 bushel	2100000 bushel
15499199	1	291000 acres	288100 acres	51 bushel	14566000 bushel
15499199	2	176000 acres	175600 acres	35 bushel	6172000 bushel
15499199	2	2259000 acres	2211900 acres	27 bushel	60434000 bushel
15499199	9	217000 acres	216500 acres	38 bushel	8272000 bushel
15499199	9	2550000 acres	2500000 acres	30 bushel	75000000 bushel
15499199	1	50000 acres	48900 acres	53 bushel	2594000 bushel
15499199	1	359000 acres	353000 acres	52 bushel	18430000 bushel

15499199	2	236000 acres	231100 acres	32 bushel	7406000 bushel
15499199	2	2491000 acres	2447000 acres	26 bushel	62770000 bushel
15499199	9	286000 acres	280000 acres	36 bushel	10000000 bushel
15499199	9	2850000 acres	2800000 acres	29 bushel	81200000 bushel
15499199	1	50000 acres	46400 acres	45 bushel	2098000 bushel
15499199	1	398000 acres	384000 acres	45 bushel	17150000 bushel
15499199	2	271000 acres	223600 acres	13 bushel	2796000 bushel
15499199	2	2552000 acres	2116000 acres	16 bushel	32850000 bushel
15499199	9	321000 acres	270000 acres	18 bushel	4894000 bushel
15499199	9	2950000 acres	2500000 acres	20 bushel	50000000 bushel
15499199	1	48000 acres	47700 acres	53 bushel	2514000 bushel
15499199	1	376000 acres	371000 acres	52 bushel	19217000 bushel
15499199	2	251000 acres	244300 acres	29 bushel	7134000 bushel
15499199	2	2474000 acres	2359000 acres	29 bushel	68143000 bushel
15499199	9	299000 acres	292000 acres	33 bushel	9648000 bushel
15499199	9	2850000 acres	2730000 acres	32 bushel	87360000 bushel
15499199	1	55000 acres	54000 acres	44 bushel	2350000 bushel
15499199	1	390000 acres	376000 acres	45 bushel	17040000 bushel
15499199	2	251000 acres	196000 acres	14 bushel	2650000 bushel
15499199	2	2360000 acres	2164000 acres	19 bushel	41380000 bushel
15499199	9	306000 acres	250000 acres	20 bushel	5000000 bushel
15499199	9	2750000 acres	2540000 acres	23 bushel	58420000 bushel
15499199	1	44000 acres	44000 acres	47 bushel	2055000 bushel
15499199	1	364000 acres	361000 acres	49 bushel	17774000 bushel
15499199	2	199000 acres	182000 acres	15 bushel	2728000 bushel
15499199	2	2236000 acres	2119000 acres	19 bushel	39266000 bushel
15499199	9	243000 acres	226000 acres	21 bushel	4783000 bushel
15499199	9	2600000 acres	2480000 acres	23 bushel	57040000 bushel
15499199	1	57000 acres	56500 acres	59 bushel	3343000 bushel
15499199	1	482000 acres	477000 acres	54 bushel	25520000 bushel
15499199	2	263000 acres	255000 acres	35 bushel	8987000 bushel
15499199	2	2318000 acres	2233000 acres	38 bushel	85590000 bushel
15499199	9	320000 acres	311500 acres	40 bushel	12330000 bushel
15499199	9	2800000 acres	2710000 acres	41 bushel	1.11E+08 bushel
15499199	1	49000 acres	48600 acres	59 bushel	2887000 bushel
15499199	1	402000 acres	398000 acres	54 bushel	21660000 bushel
15499199	2	270000 acres	265400 acres	38 bushel	10202000 bushel

15499199	2	2498000 acres	2452000 acres	34 bushel	83790000 bushel	
15499199	9	319000 acres	314000 acres	42 bushel	13089000 bushel	
15499199	9	2900000 acres	2850000 acres	37 bushel	1.05E+08 bushel	
15499199	1	56000 acres	55500 acres	51 bushel	2834000 bushel	
15499199	1	425000 acres	420000 acres	54 bushel	22845000 bushel	
15499199	2	341000 acres	336500 acres	31 bushel	10457000 bushel	
15499199	2	2725000 acres	2660000 acres	28 bushel	75715000 bushel	
15499199	9	397000 acres	392000 acres	34 bushel	13291000 bushel	
15499199	9	3150000 acres	3080000 acres	32 bushel	98560000 bushel	
15499199	1	44000 acres	43600 acres	54 bushel	2369000 bushel	
15499199	1	292000 acres	288000 acres	51 bushel	14615000 bushel	
15499199	2	318000 acres	315400 acres	36 bushel	11261000 bushel	
15499199	2	2308000 acres	2262000 acres	31 bushel	69535000 bushel	
15499199	9	362000 acres	359000 acres	38 bushel	13630000 bushel	
15499199	9	2600000 acres	2550000 acres	33 bushel	84150000 bushel	
15499199	9	464000 acres	450000 acres	40 bushel	18000000 bushel	
15499199	9	3300000 acres	3200000 acres	36 bushel	1.15E+08 bushel	
15831199	9	5000 acres	4900 acres	1082 pounds	5300000 pounds	106 pounds
15831199	9	50000 acres	49000 acres	1000 pounds	49000000 pounds	98 pounds
15831199	9	4200 acres	3500 acres	790 pounds	2765000 pounds	
15831199	9	79000 acres	75000 acres	1160 pounds	87000000 pounds	
15831199	9	4000 acres	3800 acres	1105 pounds	4200000 pounds	
15831199	9	95000 acres	90000 acres	1380 pounds	1.24E+08 pounds	
15831199	9	6000 acres	5600 acres	1200 pounds	6720000 pounds	
15831199	9	120000 acres	114000 acres	1350 pounds	1.54E+08 pounds	
15831199	9	26000 acres	25000 acres	1436 pounds	35900000 pounds	
15831199	9	200000 acres	190000 acres	1400 pounds	2.66E+08 pounds	
15831199	9	36000 acres	35200 acres	1064 pounds	37450000 pounds	
15831199	9	220000 acres	215000 acres	970 pounds	2.09E+08 pounds	
15831199	9	37000 acres	36700 acres	1559 pounds	57200000 pounds	
15831199	9	215000 acres	210000 acres	1370 pounds	2.88E+08 pounds	
15831199	9	27000 acres	26200 acres	1395 pounds	36550000 pounds	
15831199	9	170000 acres	165000 acres	1200 pounds	1.98E+08 pounds	
15831199	9	27000 acres	26600 acres	1602 pounds	42600000 pounds	
15831199	9	160000 acres	155000 acres	1570 pounds	2.43E+08 pounds	
15831199	9	42000 acres	40600 acres	1746 pounds	70900000 pounds	
15831199	9	250000 acres	240000 acres	1550 pounds	3.72E+08 pounds	

15831199	9	230000 acres	210000 acres	1200 pounds	2.52E+08 pounds	
15831199	9	300000 acres	290000 acres	1200 pounds	3.48E+08 pounds	
15831199	9	200000 acres	155000 acres	900 pounds	1.4E+08 pounds	
15831199	9	170000 acres	155000 acres	1160 pounds	1.8E+08 pounds	
15831199	9	150000 acres	140000 acres	1460 pounds	2.04E+08 pounds	
15831199	9	46300 acres	45000 acres	1591 pounds	71586000 pounds	
15831199	9	255000 acres	245000 acres	1540 pounds	3.77E+08 pounds	
15831199	9	140000 acres	130000 acres	1200 pounds	1.56E+08 pounds	
15831199	9	155000 acres	145000 acres	1450 pounds	2.1E+08 pounds	
15831299	9	1000 acres	1000 acres	1314 pounds	1314000 pounds	131.4 pounds
15831299	9	25000 acres	24000 acres	1370 pounds	32880000 pounds	131.5 pounds
15831299	9	2800 acres	2100 acres	1250 pounds	2625000 pounds	
15831299	9	26000 acres	25000 acres	1320 pounds	33000000 pounds	
15831299	9	2500 acres	2200 acres	1264 pounds	2780000 pounds	
15831299	9	35000 acres	33000 acres	1430 pounds	47190000 pounds	
15831299	9	2000 acres	1700 acres	1088 pounds	1850000 pounds	
15831299	9	40000 acres	37000 acres	1110 pounds	41070000 pounds	
15831299	9	2000 acres	1800 acres	1222 pounds	2200000 pounds	
15831299	9	60000 acres	54000 acres	1200 pounds	64800000 pounds	
15831299	9	3000 acres	2800 acres	1000 pounds	2800000 pounds	
15831299	9	80000 acres	75000 acres	990 pounds	74250000 pounds	
15831299	9	3000 acres	2600 acres	1038 pounds	2700000 pounds	
15831299	9	50000 acres	45000 acres	870 pounds	39150000 pounds	
15831299	9	4000 acres	3700 acres	838 pounds	3100000 pounds	
15831299	9	30000 acres	28000 acres	900 pounds	25200000 pounds	
15831299	9	2000 acres	2000 acres	1125 pounds	2250000 pounds	
15831299	9	20000 acres	20000 acres	1200 pounds	24000000 pounds	
15831299	9	1000 acres	900 acres	1500 pounds	1350000 pounds	
15831299	9	30000 acres	27000 acres	1250 pounds	33750000 pounds	
15831299	9	20000 acres	19000 acres	1000 pounds	19000000 pounds	
15831299	9	35000 acres	33000 acres	1330 pounds	43890000 pounds	
15831299	9	15000 acres	13000 acres	970 pounds	12610000 pounds	
15831299	9	23000 acres	21000 acres	1200 pounds	25200000 pounds	
15831299	9	21000 acres	18000 acres	1220 pounds	21960000 pounds	
15831299	9	2700 acres	2700 acres	1693 pounds	4572000 pounds	
15831299	9	45000 acres	44000 acres	1700 pounds	74800000 pounds	
15831299	9	10000 acres	9000 acres	1340 pounds	12060000 pounds	

15831299	9	17000 acres	16000 acres	1500 pounds	24000000 pounds	
15831999	9	6000 acres	5900 acres	1121 pounds	6614000 pounds	110.2 pounds
15831999	9	75000 acres	73000 acres	1122 pounds	81880000 pounds	109.2 pounds
15831999	9	7000 acres	5600 acres	963 pounds	5390000 pounds	
15831999	9	105000 acres	100000 acres	1200 pounds	1.2E+08 pounds	
15831999	9	6500 acres	6000 acres	1163 pounds	6980000 pounds	
15831999	9	130000 acres	123000 acres	1393 pounds	1.71E+08 pounds	
15831999	9	8000 acres	7300 acres	1174 pounds	8570000 pounds	
15831999	9	160000 acres	151000 acres	1291 pounds	1.95E+08 pounds	
15831999	9	28000 acres	26800 acres	1422 pounds	38100000 pounds	
15831999	9	260000 acres	244000 acres	1356 pounds	3.31E+08 pounds	
15831999	9	39000 acres	38000 acres	1059 pounds	40250000 pounds	
15831999	9	300000 acres	290000 acres	975 pounds	2.83E+08 pounds	
15831999	9	40000 acres	39300 acres	1524 pounds	59900000 pounds	
15831999	9	265000 acres	255000 acres	1282 pounds	3.27E+08 pounds	
15831999	9	31000 acres	29900 acres	1326 pounds	39650000 pounds	
15831999	9	200000 acres	193000 acres	1156 pounds	2.23E+08 pounds	
15831999	9	29000 acres	28600 acres	1568 pounds	44850000 pounds	
15831999	9	180000 acres	175000 acres	1528 pounds	2.67E+08 pounds	
15831999	9	43000 acres	41500 acres	1741 pounds	72250000 pounds	
15831999	9	280000 acres	267000 acres	1520 pounds	4.06E+08 pounds	
15831999	9	61000 acres	58700 acres	1239 pounds	72700000 pounds	
15831999	9	250000 acres	229000 acres	1183 pounds	2.71E+08 pounds	
15831999	9	78500 acres	77000 acres	1450 pounds	1.12E+08 pounds	
15831999	9	335000 acres	323000 acres	1213 pounds	3.92E+08 pounds	
15831999	9	60000 acres	56000 acres	835 pounds	46737000 pounds	
15831999	9	215000 acres	168000 acres	905 pounds	1.52E+08 pounds	
15831999	9	44000 acres	40700 acres	1084 pounds	44120000 pounds	
15831999	9	193000 acres	176000 acres	1165 pounds	2.05E+08 pounds	
15831999	9	28000 acres	27100 acres	1530 pounds	41469000 pounds	
15831999	9	171000 acres	158000 acres	1433 pounds	2.26E+08 pounds	
15831999	9	49000 acres	47700 acres	1597 pounds	76158000 pounds	
15831999	9	300000 acres	289000 acres	1564 pounds	4.52E+08 pounds	
15831999	9	23000 acres	21700 acres	1284 pounds	27866000 pounds	
15831999	9	150000 acres	139000 acres	1209 pounds	1.68E+08 pounds	
15831999	9	38500 acres	36500 acres	1390 pounds	50747000 pounds	
15831999	9	172000 acres	161000 acres	1455 pounds	2.34E+08 pounds	

16199999	9	11000 acres	10000 acres	1100 pounds	110000 hundredweight
16199999	9	9000 acres	8000 acres	1100 pounds	88000 hundredweight
16199999	9	10000 acres	10000 acres	1300 pounds	130000 hundredweight
16199999	9	13000 acres	13000 acres	1170 pounds	152000 hundredweight
16199999	9	13000 acres	12500 acres	1200 pounds	150000 hundredweight
16199999	9	13000 acres	12500 acres	1300 pounds	162000 hundredweight
16199999	9	17500 acres	16000 acres	1200 pounds	192000 hundredweight
16199999	9	18000 acres	17000 acres	1000 pounds	170000 hundredweight
16199999	9	25000 acres	24000 acres	1400 pounds	336000 hundredweight
16199999	9	48000 acres	47000 acres	1990 pounds	935000 hundredweight
16199999	9	30000 acres	28000 acres	1000 pounds	280000 hundredweight
16199999	9	11000 acres	9000 acres	1400 pounds	126000 hundredweight
16199999	9	13000 acres	12000 acres	1700 pounds	204000 hundredweight
16199999	9	17000 acres	16000 acres	1700 pounds	272000 hundredweight
16199999	9	24000 acres	23000 acres	1650 pounds	380000 hundredweight
16199999	9	26000 acres	25000 acres	1450 pounds	363000 hundredweight
16199999	9	21000 acres	20000 acres	1550 pounds	310000 hundredweight
16199999	9	24000 acres	21000 acres	1550 pounds	326000 hundredweight
16199999	9	40000 acres	38000 acres	1750 pounds	665000 hundredweight
16199999	9	34000 acres	32000 acres	1700 pounds	544000 hundredweight
16199999	9	26000 acres	25000 acres	1400 pounds	350000 hundredweight
16199999	9	29000 acres	27000 acres	1400 pounds	378000 hundredweight
16199999	9	34000 acres	32000 acres	1750 pounds	560000 hundredweight
16199999	9	34000 acres	31000 acres	1550 pounds	481000 hundredweight
16199999	9	28000 acres	24000 acres	1850 pounds	444000 hundredweight
16199999	9	22000 acres	20000 acres	1900 pounds	380000 hundredweight
16199999	9	20000 acres	19000 acres	2000 pounds	380000 hundredweight
16199999	9	22000 acres	20900 acres	1850 pounds	387000 hundredweight
16199999	9	18000 acres	16000 acres	1810 pounds	289000 hundredweight
16199999	9	16000 acres	15000 acres	1850 pounds	277000 hundredweight
16199999	9	21000 acres	17500 acres	1600 pounds	280000 hundredweight
16199999	9	12000 acres	11000 acres	2100 pounds	231000 hundredweight
16199999	9	9000 acres	8500 acres	1800 pounds	153000 hundredweight
16199999	9	13000 acres	12500 acres	2200 pounds	275000 hundredweight
16199999	9	11000 acres	10000 acres	2100 pounds	210000 hundredweight
16199999	9	6500 acres	6000 acres	2300 pounds	138000 hundredweight
18199999	9		195000 acres	1.98 tons	386000 tons

18199999	9	1125000 acres	2.3 tons	2588000 tons
18199999	9	197000 acres	2.5 tons	492500 tons
18199999	9	1180000 acres	2.75 tons	3245000 tons
18199999	9	193000 acres	2.7 tons	520500 tons
18199999	9	1170000 acres	3.05 tons	3569000 tons
18199999	9	189300 acres	3.01 tons	570100 tons
18199999	9	1210000 acres	3.15 tons	3812000 tons
18199999	9	161400 acres	2.15 tons	346500 tons
18199999	9	1070000 acres	2.55 tons	2729000 tons
18199999	9	152300 acres	2.59 tons	394200 tons
18199999	9	980000 acres	3 tons	2940000 tons
18199999	9	156000 acres	2.55 tons	397900 tons
18199999	9	1000000 acres	2.9 tons	2900000 tons
18199999	9	150000 acres	2.77 tons	415200 tons
18199999	9	1010000 acres	3.3 tons	3333000 tons
18199999	9	147000 acres	2.65 tons	389600 tons
18199999	9	1000000 acres	2.9 tons	2900000 tons
18199999	9	157700 acres	3.13 tons	493100 tons
18199999	9	1000000 acres	3.5 tons	3500000 tons
18199999	9	148500 acres	2.6 tons	380100 tons
18199999	9	975000 acres	2.85 tons	2779000 tons
18199999	9	156100 acres	3.2 tons	492200 tons
18199999	9	1000000 acres	3.6 tons	3600000 tons
18199999	9	152900 acres	3.4 tons	525600 tons
18199999	9	1000000 acres	3.65 tons	3650000 tons
18199999	9	143700 acres	2.7 tons	391000 tons
18199999	9	930000 acres	3 tons	2790000 tons
18199999	9	149800 acres	2.9 tons	433700 tons
18199999	9	960000 acres	3.4 tons	3264000 tons
18199999	9	131000 acres	3.4 tons	443300 tons
18199999	9	950000 acres	3.9 tons	3705000 tons
18199999	9	120800 acres	3.6 tons	439300 tons
18199999	9	900000 acres	3.9 tons	3510000 tons
18199999	9	115000 acres	3.5 tons	406000 tons
18199999	9	850000 acres	3.8 tons	3230000 tons
18199999	9	102500 acres	2.5 tons	254000 tons
18199999	9	750000 acres	3.3 tons	2475000 tons

18199999	9		107700 acres	2.9 tons	316000 tons		
18199999	9		850000 acres	3.6 tons	3060000 tons		
18199999	9		110000 acres	3.3 tons	363000 tons		
18199999	9		800000 acres	3.8 tons	3040000 tons		
18199999	9		105000 acres	2.24 tons	235000 tons		
18199999	9		800000 acres	3.1 tons	2480000 tons		
18199999	9		128000 acres	4.05 tons	518000 tons		
18199999	9		850000 acres	4.2 tons	3570000 tons		
18199999	9		127000 acres	3.21 tons	408000 tons		
18199999	9		850000 acres	3.8 tons	3230000 tons		
18199999	9		110000 acres	3.5 tons	385000 tons		
18199999	9		800000 acres	3.9 tons	3120000 tons		
18199999	9		120000 acres	3.4 tons	411000 tons		
18199999	9		850000 acres	3.8 tons	3230000 tons		
18199999	9	0 acres	109000 acres	3.9 tons	430000 tons	0 tons	0
18199999	9	0 acres	800000 acres	4.3 tons	3440000 tons	0 tons	0
18199999	9		121000 acres	3.4 tons	410000 tons		
18199999	9		900000 acres	4 tons	3600000 tons		
18199999	9		151000 acres	4.1 tons	613000 tons		
18199999	9		1000000 acres	4.6 tons	4600000 tons		
18199999	9		128000 acres	3.8 tons	491000 tons		
18199999	9		900000 acres	4.4 tons	3960000 tons		
18199999	9		130000 acres	3.1 tons	397000 tons		
18199999	9		900000 acres	4.1 tons	3690000 tons		
18199999	9		129000 acres	4.1 tons	529000 tons		
18199999	9		900000 acres	4.6 tons	4140000 tons		
18199999	9		132000 acres	2.7 tons	360000 tons		
18199999	9		950000 acres	3.7 tons	3515000 tons		
18199999	9		137000 acres	2.5 tons	344000 tons		
18199999	9		1000000 acres	3.4 tons	3400000 tons		
18199999	9		126000 acres	3.3 tons	414000 tons		
18199999	9		950000 acres	4 tons	3800000 tons		
18199999	9		112000 acres	3.8 tons	425000 tons		
18199999	9		850000 acres	4 tons	3400000 tons		
18199999	9		125000 acres	3.6 tons	446000 tons		
18199999	9		950000 acres	3.8 tons	3610000 tons		
18199999	9		114000 acres	3 tons	344000 tons		

18199999	9	800000 acres	3.5 tons	2800000 tons
18899999	9	98000 acres	1.24 tons	121100 tons
18899999	9	1259000 acres	1.2 tons	1514000 tons
18899999	9	110000 acres	1.55 tons	171000 tons
18899999	9	1297000 acres	1.55 tons	2010000 tons
18899999	9	88000 acres	1.65 tons	144900 tons
18899999	9	1200000 acres	1.65 tons	1980000 tons
18899999	9	99400 acres	1.74 tons	172600 tons
18899999	9	1240000 acres	1.6 tons	1984000 tons
18899999	9	93200 acres	1.3 tons	120900 tons
18899999	9	1250000 acres	1.2 tons	1500000 tons
18899999	9	97500 acres	1.37 tons	133800 tons
18899999	9	1300000 acres	1.5 tons	1950000 tons
18899999	9	97900 acres	1.4 tons	133400 tons
18899999	9	1275000 acres	1.4 tons	1785000 tons
18899999	9	86500 acres	1.58 tons	136900 tons
18899999	9	1280000 acres	1.65 tons	2112000 tons
18899999	9	95000 acres	1.66 tons	157900 tons
18899999	9	1300000 acres	1.4 tons	1820000 tons
18899999	9	95600 acres	1.87 tons	178400 tons
18899999	9	1300000 acres	1.8 tons	2340000 tons
18899999	9	86100 acres	1.1 tons	91800 tons
18899999	9	1150000 acres	1.15 tons	1323000 tons
18899999	9	88700 acres	2 tons	177400 tons
18899999	9	1300000 acres	1.9 tons	2470000 tons
18899999	9	94800 acres	1.9 tons	182400 tons
18899999	9	1350000 acres	1.75 tons	2363000 tons
18899999	9	95800 acres	1.5 tons	143700 tons
18899999	9	1420000 acres	1.5 tons	2130000 tons
18899999	9	108000 acres	1.9 tons	202300 tons
18899999	9	1550000 acres	1.7 tons	2635000 tons
18899999	9	112300 acres	1.9 tons	212300 tons
18899999	9	1650000 acres	1.8 tons	2970000 tons
18899999	9	113200 acres	1.8 tons	203600 tons
18899999	9	1600000 acres	1.8 tons	2880000 tons
18899999	9	115000 acres	2.2 tons	248000 tons
18899999	9	1550000 acres	1.8 tons	2790000 tons

18899999	9		121900 acres	1.7 tons	210000 tons		
18899999	9		1800000 acres	1.5 tons	2700000 tons		
18899999	9		111600 acres	1.8 tons	198000 tons		
18899999	9		1600000 acres	1.6 tons	2560000 tons		
18899999	9		135000 acres	2.26 tons	305000 tons		
18899999	9		1700000 acres	1.8 tons	3060000 tons		
18899999	9		135000 acres	1.58 tons	213000 tons		
18899999	9		1700000 acres	1.5 tons	2550000 tons		
18899999	9		128000 acres	2.45 tons	314000 tons		
18899999	9		1550000 acres	2 tons	3100000 tons		
18899999	9		132000 acres	2.43 tons	321000 tons		
18899999	9		1600000 acres	2 tons	3200000 tons		
18899999	9		138000 acres	2.2 tons	310000 tons		
18899999	9		1650000 acres	1.7 tons	2805000 tons		
18899999	9		145000 acres	2 tons	294000 tons		
18899999	9		1750000 acres	1.9 tons	3325000 tons		
18899999	9	0 acres	142000 acres	2.6 tons	369000 tons	0 tons	0
18899999	9	0 acres	1700000 acres	2.1 tons	3570000 tons	0 tons	0
18899999	9		144000 acres	1.9 tons	272000 tons		
18899999	9		1800000 acres	1.8 tons	3240000 tons		
18899999	9		160000 acres	2.1 tons	335000 tons		
18899999	9		1900000 acres	1.8 tons	3420000 tons		
18899999	9		149000 acres	2.1 tons	311000 tons		
18899999	9		1850000 acres	1.9 tons	3515000 tons		
18899999	9		134000 acres	1.3 tons	170000 tons		
18899999	9		1900000 acres	1.5 tons	2850000 tons		
18899999	9		154000 acres	2 tons	303000 tons		
18899999	9		2400000 acres	1.6 tons	3840000 tons		
18899999	9		150000 acres	1.2 tons	177000 tons		
18899999	9		2300000 acres	1.5 tons	3450000 tons		
18899999	9		146000 acres	1.6 tons	232000 tons		
18899999	9		2250000 acres	1.6 tons	3600000 tons		
18899999	9		175000 acres	1.7 tons	299000 tons		
18899999	9		2400000 acres	1.7 tons	4080000 tons		
18899999	9		139000 acres	1.8 tons	250000 tons		
18899999	9		2050000 acres	1.6 tons	3280000 tons		
18899999	9		146000 acres	1.6 tons	234000 tons		

18899999	9	2100000 acres	1.4 tons	2940000 tons
18899999	9	150000 acres	2 tons	299000 tons
18899999	9	2100000 acres	1.7 tons	3570000 tons
18999999	9	293000 acres	1.73 tons	507100 tons
18999999	9	2384000 acres	1.72 tons	4102000 tons
18999999	9	307000 acres	2.16 tons	663500 tons
18999999	9	2477000 acres	2.12 tons	5255000 tons
18999999	9	281000 acres	2.37 tons	665400 tons
18999999	9	2370000 acres	2.34 tons	5549000 tons
18999999	9	288700 acres	2.57 tons	742700 tons
18999999	9	2450000 acres	2.37 tons	5796000 tons
18999999	9	254600 acres	1.84 tons	467400 tons
18999999	9	2320000 acres	1.82 tons	4229000 tons
18999999	9	249800 acres	2.11 tons	528000 tons
18999999	9	2280000 acres	2.14 tons	4890000 tons
18999999	9	253900 acres	2.09 tons	531300 tons
18999999	9	2275000 acres	2.06 tons	4685000 tons
18999999	9	236500 acres	2.33 tons	552100 tons
18999999	9	2290000 acres	2.38 tons	5445000 tons
18999999	9	242000 acres	2.26 tons	547500 tons
18999999	9	2300000 acres	2.05 tons	4720000 tons
18999999	9	253300 acres	2.65 tons	671500 tons
18999999	9	2300000 acres	2.54 tons	5840000 tons
18999999	9	234600 acres	2 tons	471900 tons
18999999	9	2125000 acres	1.93 tons	4102000 tons
18999999	9	244800 acres	2.7 tons	669600 tons
18999999	9	2300000 acres	2.64 tons	6070000 tons
18999999	9	247700 acres	2.9 tons	708000 tons
18999999	9	2350000 acres	2.56 tons	6013000 tons
18999999	9	239500 acres	2.2 tons	534700 tons
18999999	9	2350000 acres	2.09 tons	4920000 tons
18999999	9	257800 acres	2.5 tons	636000 tons
18999999	9	2510000 acres	2.35 tons	5899000 tons
18999999	9	243300 acres	2.7 tons	655600 tons
18999999	9	2600000 acres	2.57 tons	6675000 tons
18999999	9	234000 acres	2.7 tons	642900 tons
18999999	9	2500000 acres	2.56 tons	6390000 tons

18999999	9		230000 acres	2.8 tons	654000 tons			
18999999	9		2400000 acres	2.51 tons	6020000 tons			
18999999	9		224400 acres	2.1 tons	464000 tons			
18999999	9		2550000 acres	2.03 tons	5175000 tons			
18999999	9		219300 acres	2.3 tons	514000 tons			
18999999	9		2450000 acres	2.29 tons	5620000 tons			
18999999	9		245000 acres	2.73 tons	668000 tons			
18999999	9		2500000 acres	2.44 tons	6100000 tons			
18999999	9		240000 acres	1.87 tons	448000 tons			
18999999	9		2500000 acres	2.01 tons	5030000 tons			
18999999	9		256000 acres	3.25 tons	832000 tons			
18999999	9		2400000 acres	2.78 tons	6670000 tons			
18999999	9		259000 acres	2.81 tons	729000 tons			
18999999	9		2450000 acres	2.62 tons	6430000 tons			
18999999	9		248000 acres	2.8 tons	695000 tons			
18999999	9		2450000 acres	2.42 tons	5925000 tons			
18999999	9		265000 acres	2.7 tons	705000 tons			
18999999	9		2600000 acres	2.52 tons	6555000 tons			
18999999	9	0 acres	251000 acres	3.2 tons	799000 tons	0 tons	0	
18999999	9	0 acres	2500000 acres	2.8 tons	7010000 tons	0 tons	0	
18999999	9		265000 acres	2.6 tons	682000 tons			
18999999	9		2700000 acres	2.53 tons	6840000 tons			
18999999	9		311000 acres	3 tons	948000 tons			
18999999	9		2900000 acres	2.77 tons	8020000 tons			
18999999	9		277000 acres	2.9 tons	802000 tons			
18999999	9		2750000 acres	2.7 tons	7475000 tons			
18999999	9		264000 acres	2.1 tons	567000 tons			
18999999	9		2800000 acres	2.3 tons	6540000 tons			
18999999	9		283000 acres	2.9 tons	832000 tons			
18999999	9		3300000 acres	2.4 tons	7980000 tons			
18999999	9		282000 acres	1.9 tons	537000 tons			
18999999	9		3250000 acres	2.1 tons	6965000 tons			
18999999	9		283000 acres	2 tons	576000 tons			
18999999	9		3250000 acres	2.2 tons	7000000 tons			
18999999	9		301000 acres	2.4 tons	713000 tons			
18999999	9		3350000 acres	2.4 tons	7880000 tons			
18999999	9		251000 acres	2.7 tons	675000 tons			

18999999	9	2900000 acres	2.3 tons	6680000 tons
18999999	9	271000 acres	2.5 tons	680000 tons
18999999	9	3050000 acres	2.1 tons	6550000 tons
18999999	9	264000 acres	2.4 tons	643000 tons
18999999	9	2900000 acres	2.2 tons	6370000 tons
21199999	9			347000 pounds
21199999	9			12400000 pounds
21199999	9			446000 pounds
21199999	9			15000000 pounds
21199999	9			340000 pounds
21199999	9			14300000 pounds
21199999	9			523000 pounds
21199999	9			17000000 pounds
21199999	9			273000 pounds
21199999	9			11400000 pounds
21199999	9			603000 pounds
21199999	9			16000000 pounds
21199999	9			247000 pounds
21199999	9			10000000 pounds
21199999	9			929000 pounds
21199999	9			15000000 pounds
21199999	9			379200 pounds
21199999	9			11000000 pounds
21199999	9			934700 pounds
21199999	9			14000000 pounds
21199999	9			1019400 pounds
21199999	9			12500000 pounds
21199999	9			808000 pounds
21199999	9			13500000 pounds
21199999	9			288000 pounds
21199999	9			5000000 pounds
21199999	9			750000 pounds
21199999	9			15000000 pounds
21199999	9			172900 pounds
21199999	9			3000000 pounds
21199999	9			719900 pounds
21199999	9			12000000 pounds

21199999	9		798000	pounds
21199999	9		12000000	pounds
21199999	9		862000	pounds
21199999	9		13000000	pounds
21199999	9		542000	pounds
21199999	9		8000000	pounds
21199999	9		700000	pounds
21199999	9		7500000	pounds
21199999	9		635000	pounds
21199999	9		6000000	pounds
21199999	9		440000	pounds
21199999	9		7000000	pounds
21199999	9		200000	pounds
21199999	9		5000000	pounds
21199999	9		6500000	pounds
21199999	9		2000000	pounds
21199999	9		7500000	pounds
21199999	9		1600000	pounds
21199999	9	13091	7200000	pounds
21199999	9	6667	3000000	pounds
21199999	9	0	4000000	pounds
21199999	9	0	3700000	pounds

Sucrose_unit

percent
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