

# **Indefinite Quantity Indefinite Delivery Contract for Insuring Irrigation**

## **Task Order 2: Reduced Irrigation Data Gathering Analysis/Results and Development**

### **Deliverable 1: Data Gathering Analysis Report and Outline of Proposed Policy and Procedures Modifications Report**

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**Submitted to:**  
USDA-RMA  
COTR: Claire White  
6501 Beacon Drive  
Kansas City, Missouri 64133-4676  
(816) 926-5131

**Submitted by:**  
Watts and Associates, Inc.  
4331 Hillcrest Road  
Billings, Montana 59101  
(406) 252-7776  
twatts@wattsandassociates.com

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## SECTION I. EXECUTIVE SUMMARY

Irrigation is used to increase agricultural crop production, maintain landscapes, support re-vegetation of disturbed soils, preserve soil structure, suppress dust, and protect plants from cold or freeze damage. From the perspective of crop insurance, increased crop production and plant protection are the primary foci. For the purposes of this deliverable, the effect of differing levels of irrigation on crop production, and particularly the effect of reduction in water application relative to historical applications, is the focus.

In the production of agricultural crops, irrigation either supplements natural precipitation or replaces natural precipitation in areas with little or no rainfall. Irrigation supports greater evapotranspiration in a crop field than would occur if the crop were not irrigated. Evapotranspiration is responsible for the movement of nutrients throughout the plant, support for the movement of carbon dioxide into the plant for photosynthesis, and maintenance of the plant's temperature. All these contribute to the growth of the plant. In general, more growth of a crop plant means a greater yield potential.

Solicitation D13PS59998, Indefinite-Delivery/Indefinite-Quantity (IDIQ) Contractor for Insuring Irrigation, was issued by the United States (U.S.) Department of Interior (DOI) on behalf of the United States Department of Agriculture (USDA) Risk Management Agency (RMA). The solicitation identifies the objective of the IDIQ contract overall as “to conduct research and analysis regarding irrigation policy for potential crop insurance program development.”<sup>1</sup>

The Solicitation for the second Task Order (TO 2)<sup>2</sup> of the IDIQ contract calls for a first deliverable focusing on data collection related to insurance of irrigated crops under Federal Crop Insurance Corporation (FCIC) yield-based plans of insurance (including yield-based revenue plans). TO 2 also calls for an outline of recommended policy and procedures modifications to those yield-based crop insurance products to appropriately address changes in the amount of irrigation water applied to insured irrigated acreage. This document represents the deliverable to fulfill these requirements.

From year to year, the amount of irrigation water applied to each acre of commercial irrigated cropland may vary substantially. The amount applied is affected by the crop being produced; the amount of natural precipitation; temperature and wind; changes in water supply; management practices (e.g., tillage practices and planting times); and the irrigation technology being used. The amount of water a producer chooses to apply is also affected by economic decisions the producer makes related to the cost of applying irrigation water (whether these costs are for the water itself or the delivery of the water) and the potential revenue from the crop produced.

The FCIC insurance documents do not define “irrigation.” They do, however, define “Irrigated Practice,” and frequently use this term in describing insurance offers and loss adjustment. An “Irrigated Practice” is defined in the Basic Provisions and the Crop Insurance Handbook (CIH) as:

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<sup>1</sup> U.S. DOI, 2013, Solicitation Number D13PS59998, pages 1, 3, and 10.

<sup>2</sup> U.S. DOI, 2013, Solicitation D14PD00062 under IDIQ contract D13PC00032, pages 6, 8 and 9.

*A method of producing a crop by which water is artificially applied during the growing season by appropriate systems and at the proper times, with the intention of providing the quantity of water needed to produce at least the yield used to establish the irrigated production guarantee or amount of insurance on the irrigated acreage planted to the insured crop.<sup>3,4</sup>*

The reader should note this definition does not require the producer to maximize the yield. The definition only requires the producer to follow management practices intended to achieve the insured yield by “providing the quantity of water needed to produce at least the yield used to establish the irrigated production guarantee or amount of insurance on the irrigated acreage planted to the insured crop.”

The Solicitation introduces two new definitions related to the effects of reducing the amount of irrigation on insurance for commercial crops which are grown under an irrigated practice. The definitions for “Efficient Irrigation” and “Limited Irrigation” refer respectively to applying less irrigation water to an insured crop than was historically applied that will “likely not result” and will “likely result” in lower actual yields than “the average yield for the irrigated practice for that location.” Another way to say this is “Efficient Irrigation” involves applying less irrigation water to an insured crop than was historically applied yet likely results in a yield at least equal to the average yield for the irrigated practice for that location. “Limited Irrigation” occurs when applying less irrigation water than was historically applied yet most likely results in a yield lower than the average yield for the irrigated practice for that location.

The distinction between Efficient and Limited Irrigation is especially important when considering policy and procedures modifications to crop insurance programs to address appropriately any changes a producer makes in the management practices used for insured irrigated acreage. In the first case, changes are not required other than those that recognize Efficient Irrigation as an acceptable management practice under the definition of Irrigated Practice. This may include refinement of the definition of Efficient Irrigation. In the case of Limited Irrigation, if the crop is to be insured as irrigated, changes are required first so that insurance of the crop with an Irrigated Practice is allowed and then so the crop is neither insured with a higher than appropriate liability nor with an incorrect trigger for an indemnity payment; which may necessitate adjustments to expected yield.

The Contractor considered publicly available data from government and private sources that could support appropriately modifying the policy and procedures for crop insurance for irrigated crops when the producer uses Efficient or Limited Irrigation. The publicly available data include in the USDA National Agricultural Statistics Service (NASS), RMA, state irrigation survey, and published research data. NASS data reviewed included aggregate data published in the NASS

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<sup>3</sup> USDA, RMA, 2013, 2014 Crop Insurance Handbook (FCIC 18010), page 512.

<sup>4</sup> It should be noted that although there is a single definition for Irrigated Practice, for 2015, crops that are insured as irrigated are insured under 182 different practice codes. The different codes incorporate other elements of the management, such as the organic practice, tillage, and planting period.

2007 Census of Agriculture (Census)<sup>5</sup> as well as data available from Quick Stats, and the Census Farm and Ranch Irrigation Survey (2008)<sup>6</sup> (FRIS). The published research data are primarily useful in confirming the assumption that the amount of water available for evapotranspiration is correlated to the yield **as long as no other factors are limiting** production. Published data are useful in identifying locations where crops are produced under irrigation and identifying major commodity crops and yields of those crops from surveys. The only reports of the amount of water applied per acre are in the FRIS and in some state survey reports. However, the Contractor found no reports where both yield and amount of water applied were documented for production crops in a time series at any finer level than for whole states.

The Contractor reviewed and analyzed the RMA insurance experience data at the level of the insured to assess the potential contributions of these data to developing recommendations for modifications to policy and procedure. The focus of this research was on Type P11 (acreage reports), Type P15 (yield reports), and Type P21 (production loss reports).<sup>7</sup> While the RMA data include information about the number and location (i.e., county) of insured irrigated acres as well as reports of irrigated yields, they contain no information about the amount of irrigation water applied. RMA data are the only data available to identify the states, counties, crops, and acreage of the **insured** irrigated crops. The Contractor's research on RMA data focused on crop years 2003 and 2008 (the crop years reported in the most recent FRIS reports), 2007 (the crop year reported in the most recent Census available for inclusion in this deliverable at the time the research effort was begun), and 2012 (the most recent crop year with a relatively complete insurance experience record). The RMA data show about 90 crops insured as irrigated, with slight variations in that number from year to year. Almost every state has at least one insured irrigated crop each year.

The Census reports 922,095,840 acres of land on U.S. farms. Of this land in farms, 406,424,909 acres (approximately 44 percent) are in cropland. A total of 317,013,499 acres were either harvested or had "failed or abandoned" crops. The remaining cropland acres were used for pasture, were idle, were in cover crops, or were in summer fallow. The Census reports that 56,599,305 irrigated acres were harvested in 2007, representing about 17.8 percent of the planted cropland that year (13.9 percent of total cropland acres).

The Census also reports 222,267,817 acres "enrolled" in FCIC insurance programs administered by RMA.<sup>8</sup> The RMA database shows approximately 31 million acres insured under irrigated practice codes in 2007. Consequently, the cropland used to produce insured irrigated crops accounts for slightly less than 3.5 percent of the land on farms in the United States; about 8 percent of the total NASS-reported U.S. croplands; and less than 15 percent of the FCIC reported

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<sup>5</sup> The 2012 Census of Agriculture U.S. Summary and State Data and State and County Data Online Reports were released on May 2, 2014. The Contractor reviewed these reports to verify that the conclusions reached concerning the utility of the Census of Agriculture data were not changed. However, time constraints prevented updating all the Tables, Appendices, and files before the delivery date of this report.

<sup>6</sup> USDA NASS, 2009, 2007 Census of Agriculture: Farm and Ranch Irrigation Survey (2008).

<sup>7</sup> The Contractor includes records in the predecessor Type 11, 15, and 21 records when using this newer record naming system.

<sup>8</sup> FCIC's Summary of Business reports 271.6 million net acres insured in 2007. The difference between the net acres reported by FCIC and the 222.3 million acres reported by the Census is due to insured acres of pasture and rangeland and inclusion of net acreage of insured trees and of the fruits of those trees separately in the RMA Summary of Business.

insured acreage. This implies a crop insurance participation rate for irrigated lands of approximately 55 percent.

The Contractor reviewed state irrigation surveys to see if these reports might provide useful information for developing modifications to crop insurance policy and procedure regarding Efficient and Limited Irrigation. The state surveys available are not particularly useful because of the infrequency of collection, limited sample size, and substantially different data collection methods between states and between years within a state. Few of the surveys have yield data. Most of the data are focused on extraction of water from reservoirs, rivers, and aquifers. These surveys focus on hydrology rather than agricultural production.

The FRIS reports on estimated yields for 18 irrigated crops and the estimated average amount of water applied to these crops by various irrigation systems at the state level.<sup>9</sup> State-level data have a coarser level of granularity than the data that are normally used for establishing crop insurance parameters. The Contractor also assessed respondent-level (unpublished) data at the NASS Data Lab. These data were obtained by queries to the FRIS survey database documenting the survey responses. These data revealed no strong correlation between the amount of precipitation and the amount of irrigation water applied. Some producers apply more irrigation water per acre when there is more precipitation, especially in areas where surface waters are the primary source of water for irrigation. This behavior reflects a drive to maximize the potential production. Some producers apply less irrigation water per acre when there is more precipitation, especially in areas where ground waters are the primary source of water for irrigation. This behavior reflects a drive to reduce costs of producing the crop.

Between 2003 and 2008, there were relatively few substantive changes in the amounts of water applied per acre at the state level. There were substantially greater applications of water by efficient methods in 2008 than in 2003. Data for the 2013 FRIS survey should be available sometime in October 2014. Publication of these data was delayed by the 2013 government shutdown.

The Contractor explored precipitation data to understand better the relationship of annual precipitation to the amount of water used for irrigation. Most weather datasets are incomplete and many cover a relatively short period. Gridded precipitation values and cleaned, filled, data are available commercially. The Contractor used data extracted from a proprietary dataset built from National Oceanic and Atmospheric Administration (NOAA) data that is cleaned, filled, and backcast for analysis. Not surprisingly, the amount of precipitation in a given location varies from year to year. Geographically, that variability is itself quite variable (either as an empirical or relative value), as is the average precipitation.

Just as the amount of natural precipitation is highly variable from region to region, so is the amount of water applied for irrigation. This is evident in a review of the FRIS data. In some areas, when precipitation is abundant, the amount of water used for irrigation (generally from surface sources) is high. In other areas, particularly those with ground water sources for irrigation, when precipitation is high, the amount of applied irrigation water is lower. However,

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<sup>9</sup> Ibid. Tables 27 and 28.



these patterns are highly variable from crop to crop, from region to region, and even within a region. Testimony suggests that when water is limited, or when the cost of water is particularly high, the most valuable crops get watered first with remaining water going to lesser valued crops. In other words, producers behave as rational “economic” decision makers.

In gathering input from stakeholders, the Contractor identified 20 changes in irrigation management practices that would support Efficient Irrigation. Though not all can be applied concurrently, it is conceivable that a very substantial change in the amount of water needed to achieve the Approved Yield could be realized over the period required to establish an Approved Yield. As rational economic decision makers, many insureds who produce crops under an Irrigated Practice have been implementing changes as needed to achieve Efficient Irrigation. The USDA, extension offices, other state entities, seed companies, irrigation supply companies, and private consultants have provided educational material related to irrigation and water conservation for commercial producers.

Water Board records are not generally useful for a wide-ranging analysis of farm-level phenomena. Relatively few water rights are allocated at the crop insurance unit level. Most are allocated at the farm level. Some are allocated at the water board or district level. Consequently, the best data available for the purposes of analyzing water applied to a unit are those maintained by the producer. Some producers indicated they maintain these records only as long as required (i.e., three years under the Irrigated Practices Guidelines).<sup>10</sup>

The Irrigated Practices Guidelines provided to producers insuring crops on irrigated land outline the types of data a producer is required to maintain and the expected duration of the maintenance period. Data on irrigation water applied are maintained by the producer under these guidelines to support adjustment of insurance claims. Since the crop, soil characteristics, weather, and changes in technology (i.e., method of application, timing of application, etc.) all affect the amount of water required for an “Irrigated Practice,” an analysis of the yield per amount of applied water on a unit is only possible by using a combination of the yield data already in the RMA database and the data maintained by the producer under the Irrigated Practices Guidelines. Considering that many producers have already been practicing Efficient Irrigation, both the scale of an analysis along these lines and the lack of an approach to appropriately address the changes in irrigation technology already implemented make such an analysis infeasible. In addition, such an effort would require clearance by the Office of Management and Budget for the conduct of a survey. Even if this clearance were sought, the probabilities of a successful effort most likely are low because producers are required to keep records pertaining to the insured crop only for a period of three years after the end of the insured crop year. This period of time may not be sufficient to identify any trends or patterns.

However, the Contractor believes sufficient data are available in the RMA database, producer records, and weather datasets to construct a meaningful insurance approach to address Efficient Irrigation and Limited Irrigation. The simplest approach will be to use yield data for the irrigated crops from the annual yield reports entered into the Data Acceptance System (DAS) by the Approved Insurance Providers (AIPs), while providing the producer with additional guidance

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<sup>10</sup> USDA, RMA, 2013, Document and Supplementary Standards Handbook (FCIC-24040-02 (02-2013), page 146ff.)

on sufficient irrigation records so appropriate underwriting and loss adjustment for Efficient Irrigation and Limited Irrigation can be achieved. This must be done in a manner that does not impose greater respondent burden than the agency presently is allowed, or more respondent burden hours under the Paperwork Reduction Act will be required. The weather data are required to obtain a measure of how much water in total has been available to the crop historically and will be available to the crop under the Efficient Irrigation and Limited Irrigation scenarios.

To implement Efficient and Limited Irrigation policies and procedures, definitions for “Efficient Irrigation” and “Limited Irrigation” need to be provided in the CIH. The definition of Irrigated Practice must be refined to permit gradations of amounts of water applied relative to the amount applied to establish the insurance guarantee. Successful Efficient Irrigation requires changes in management practices. The Contractor proposes that such changes can be any of the Efficient Irrigation techniques identified in this report. These techniques were identified primarily in conversations with extension specialists and producers and in irrigation reports published by the National Institute of Food and Agriculture (NIFA)/Cooperative State Research, Education, and Extension Service (CSREES) supported extension programs. Some of these irrigation water conservation techniques are described by the Natural Resources Conservation Service (NRCS) on their website. Documentation by the producer of implementation of approved techniques to obtain Efficient Irrigation will be required by the underwriting. AIPs and insurance agents will need appropriate Efficient Irrigation underwriting guidelines.

However, some reductions in the amount of irrigation water available and/or intended to be applied to an acre are too large for Efficient Irrigation to be possible. The current insurance procedures provide the producer two options when the Irrigated Practice, as defined, cannot be followed for all the historically irrigated acreage: insure fewer acres as irrigated (applying the historical amount of water per acre to the reduced acreage) or insure the acreage as non-irrigated (if that option is available for the county) in spite of the fact that some irrigation water will be applied.

The Contractor believes a relatively simple, Limited Irrigation/reduced Approved Yield approach can be implemented. However, implementing this approach requires acceptance of several assumptions, including:

- Smaller changes in the amount of water applied to an acre can be offset by modifications in management practices to produce Efficient Irrigation;
- There is a limit to the efficiencies than can be realized by Efficient Irrigation; and
- Over an appropriate range of values of irrigation water applied, the reduction in yield under Limited Irrigation is linearly correlated to the proportion of the historical water available to the crop.

Consideration of any reduction in irrigation water available or anticipated to be applied too large to support the assumption of Efficient Irrigation will require additional work by the agent and AIP. However, the vast majority of the insured acreage is not irrigated. The vast majority of the insured irrigated acreage is irrigated as required under the Irrigated Practice definition. Some of this acreage will be irrigated with an amount of water essentially the same as the amounts applied historically. Some has been maintained under an Irrigated Practice by implementing

Efficient Irrigation. Consequently, recognizing Efficient Irrigation in RMA's policies and procedures will appropriately recognize current farming practices.

The offer of a Limited Irrigation approach then provides the small number of insureds who are faced with a substantially limited supply of irrigation water three options to address their risk management rather than the current two. These are:

- Irrigate and insure as managed under an Irrigated Practice a smaller number of acres than have been irrigated historically (sometimes with the possibility of receiving Prevented Planting indemnities for the acreage that is not irrigated that might otherwise have been);
- Insure the acreage that is irrigated with substantially less water than was used historically as non-irrigated (if the practice is accepted for the crop in the county); or
- Choose a Limited Irrigation Approved Yield to address the reduction in irrigation water anticipated to be available or to be applied to the irrigated acreage.

None of these options is intended to be punitive. Instead they are intended to provide an insured whose irrigation inputs are known to be limited at the time the insurance attaches alternatives in choosing the appropriate management practices for the operation and appropriate risk management tools, without creating opportunities for beneficial gain.

The Contractor believes properly addressing Efficient Irrigation along with the current procedures for addressing a reduced irrigation water supply will be the best approach. It is a change that will be accepted by insureds. It is a change that recognizes current farming practices. Furthermore, the current procedures allow a case by case decision to provide a reduced Approved Yield if that is the option the insured would prefer. Implementing Limited Irrigation nationwide for all crops is unlikely to resolve any issues that currently exist and is likely to create problems that do not now exist.

## SECTION II. INTRODUCTION

On October 18, 2012, the U.S. DOI issued a combined synopsis/solicitation on behalf of the USDA RMA for an IDIQ contract addressing “research and analysis regarding irrigation policy for potential crop insurance program development.”<sup>11</sup> The solicitation provided background for the respondents. Some of that text is included below to provide the reader with context for this report.

*Throughout the United States there are areas where the amount of irrigation water available to producers can vary from year to year.... Many producers already face reductions from their historical water use, or will in the future.... As a result, the RMA is evaluating the feasibility of establishing a limited irrigation guarantee for producers who apply less water than their irrigated guarantee is based on.*

*Current crop insurance policies and procedures require a producer to timely apply the quantity of water needed to produce 1) at least the yield used to establish their production guarantee or, 2) the amount of insurance for the irrigated acreage planted to the insured crop. Producers who intend to apply less water have the following options:*

- *Apply the amount of water needed to produce the irrigated production guarantee or amount of insurance on a reduced number of acres and report the remaining acres as nonirrigated; or*
- *Apply less water to the total acreage and report the total acreage as non-irrigated.*

*RMA has worked with several interested parties to develop a reliable estimate of the expected reduction in yield corresponding with the intended reduction of applied water used to reduce a producer’s fully irrigated production guarantee to a limited irrigation production guarantee, but still be consistent with an irrigated production practice.*

*This was intended to help growers better understand the potential trade-off they face between irrigation and production, and provide them with an additional tool for their crop management decisions. The model was developed only for corn and soybeans in a limited number of specified counties in Colorado, Kansas and Nebraska. [The model provided a basis for adjusting] the approved APH yield reflecting [language] in 3(h)(3) of the Common Crop Insurance Policy and Section 18E of the Crop Insurance Handbook.<sup>12</sup>*

While irrigation is used to increase plant growth, maintain landscapes, help re-vegetate disturbed soils, protect plants from cold or freeze damage, preserve soil structure, and suppress erosion from wind, the focus of irrigation in this report is on its use to increase commercial crop production as compared to production that occurs without the application of water by the

<sup>11</sup> U.S. DOI, 2013, Solicitation Number D13PS59998, pages 1.

<sup>12</sup> U.S. DOI, 2013, Solicitation Number D13PS59998, pages 9-10.

producer. The Solicitation for TO 2 of the IDIQ contract calls for a report focusing on data collection related to insurance under FCIC yield-based plans of insurance for commercial crops grown under an irrigated practice. These plans include Yield Protection (01), Revenue Protection (02), Revenue Protection with Harvest Price Exclusion (03), and Actual Production History (90) (APH). TO 2 also calls for an outline of recommended policy and procedures modifications to those insurance programs to appropriately address changes in the amount of irrigation water applied to insured irrigated acreage.

The term “Irrigated Practice” is defined in the Common Crop Insurance Policy Basic Provisions as:

*“A method of producing a crop by which water is artificially applied during the growing season by appropriate systems and at the proper times, with the intention of providing the quantity of water needed to produce at least the yield used to establish the irrigated production guarantee or amount of insurance on the irrigated acreage planted to the insured crop.”<sup>13</sup>*

The Area Risk Protection Insurance Policy (ARPI) Basic Provisions contains a similar yet distinct definition of Irrigated Practice:

*“A method of producing a crop by which water, from an adequate water source, is artificially applied in sufficient amounts by appropriate and adequate irrigation equipment and facilities and at the proper times necessary to produce at least the (1) yield expected for the area; (2) yield used to establish the production guarantee or amount of insurance/coverage on the irrigated acreage planted to the commodity; or (3) producer’s established Approved Yield, as applicable. Acreage adjacent to water, such as but not limited to a pond, lake, river, stream, creek or brook, shall not be considered irrigated based solely on the proximity to the water.”<sup>14</sup>*

A primary difference between the two definitions is the recognition that ARPI insurance offers are not based on individual yields but rather on area yields. Hence, the requirement that sufficient water be applied to produce at least the yield expected for the area. In practical terms, if the irrigated ARPI offer is based on NASS data, this requires that the producer seek to achieve the county average yield. Conditions 2 and 3 apparently reflect introduction of the trend adjustment option, under which the “yield used to establish the production guarantee” and the “producer’s established Approved Yield” differ because the Approved Yield based on APH procedures is increased by the trend adjustment process. However, the definition does not state that the “higher of” applies. This definition presumably is the definition of Irrigated Practice that will be proposed whenever the current Basic Provisions (11-BR) is revised. The Contractor notes this definition does not differ in conceptual underpinnings relative to the definition currently contained in the Basic Provisions.

<sup>13</sup> USDA, RMA, 2010, Common Crop Insurance Policy: Basic Provisions (11-BR), pp. 3-4, with the same language appearing in 05-BR for policies on crops harvested before the 2011 crop year.

<sup>14</sup> Federal Register Volume 78, Number 123 (Wednesday, June 26, 2013).

The reader should note that neither definition of irrigated practice requires the producer to seek to maximize the yield. Thus, producer A might irrigate with the intention of providing the quantity of water needed to produce at least 200 bushels per acre (the yield used to establish the irrigated production guarantee or amount of insurance on the irrigated acreage), while his neighbor, producer B, might irrigate with the intention of providing the quantity of water needed to produce at least 180 bushels per acre (the yield used to establish the irrigated production guarantee or amount of insurance on the irrigated acreage). This difference could result from innumerable factors, including an economic decision by producer B that attempting to produce 180 bushels of production will provide higher net revenues than by attempting to produce a higher yield. The difference in expected yield for these similarly situated growers is explicitly considered in the determination of their premium rates.

FCIC crop insurance programs do not require what the scientific literature calls “full irrigation.” This term is used to describe the amount of irrigation needed to support maximum evapotranspiration. Full irrigation is applying sufficient irrigation water so a factor other than the amount of soil water limits the growth and productivity of the plant and therefore of the crop.

A producer insuring a crop grown under an Irrigated Practice is free to follow whatever management practices make the greatest economic sense in his/her situation. The requirement of the definition of Irrigated Practice is the producer must have the intention of providing irrigation sufficient to result in a yield at least equal to the yield on which the production guarantee is based. The Irrigated Practice Guidelines<sup>15</sup> contained in the Document and Supplementary Standards Handbook, introduce the idea that the producer should have “reasonable expectations, at the time coverage begins, of receiving adequate water to carry out a good irrigation practice.” “Reasonable expectation” is then defined by excluding from a reasonable expectation: if “the insured knew or had reason to know that the amount of his/her irrigation water may be reduced before coverage begins.” Prevented planting indemnities are introduced as a potential risk management strategy for producers who have no reasonable expectation of receiving adequate water for irrigating the number of acres normally planted to produce an irrigated crop.

The Contractor noted the insurance documents do not always speak of “the” irrigated practice but rather of “an” irrigated practice. RMA insures crops grown under irrigated practices under 13 plans of insurance (Table 1). Of these plans, only the Yield Protection, Revenue Protection, Revenue Protection with Harvest Price Exclusion, and APH plans address a producer’s Approved Yield in establishing a guarantee, and if appropriate, an indemnity. Yield affects annual revenue used in the Actual Revenue History (ARH) insurance. In the 2014 insurance offers, 182 practice codes are included as Irrigated Practices (Appendix A, Tables A1 and A2). The Contractor considered the applicability of these practice codes by insurance plan, crop, and type. Yield Protection, Revenue Protection, Revenue Protection with Harvest Price Exclusion, and APH plans are the principal focus of the remainder of this report.

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<sup>15</sup> USDA, RMA, 2013, Document and Supplementary Standards Handbook, (DSSH), (FCIC-24040-02, 02-2013), pp. 146-149.

**Table 1. FCIC Plans of Insurance providing offers of Insurance for Crops Grown under an Irrigated Practice for the 2015 Crop Year**

Code	Plan
01	Yield Protection
02	Revenue Protection
03	Revenue Protection with Harvest Price Exclusion
04	Area Yield Protection
05	Area Revenue Protection
06	Area Revenue Protection - Harvest Price Exclusion
40	Tree Based Dollar Amount Of Insurance
41	Pecan Revenue
47	Actual Revenue History
50	Dollar Amount Of Insurance
51	Fixed Dollar
55	Yield Based Dollar Amount Of Insurance
90	Actual Production History

Source: The Contractor's Research department after RMA's 2014 Actuarial Data Master (2014)

For 2014, RMA offers coverage for 75 crops grown under the Irrigated Practice and insured with one of the approved-yield-based plans (Table 2). RMA also offers coverage for 8 of these crops under other plans (Table 3) and as well as for 13 crops that are not covered under an approved-yield-based plan.

**Table 2. Crops Grown under an Irrigated Practice and Insured under at Least One of the FCIC Approved-yield-based Plans of Insurance**

Crop	Crop	Crop
Alfalfa Seed	Fresh Market Beans	Potatoes
All Other Grapefruit	Fresh Market Tomatoes	Processing Apricots
Almonds	Fresh Nectarines	Processing Beans
Apples	Grain Sorghum	Processing Cling Peaches
Avocados	Grapefruit	Processing Freestone
Barley	Grapes	Prunes
Blueberries	Grass Seed	Pumpkins
Buckwheat	Green Peas	Rice
Burley Tobacco	Late Oranges	Rio Red & Star Ruby
Cabbage	Lemons	Ruby Red Grapefruit
Canola	Macadamia Nuts	Rye
Corn	Mandarins/Tangerines	Safflower
Cotton	Millet	Sesame
Cotton Ex Long Staple	Mint	Silage Sorghum
Cucumbers	Mustard	Soybeans
Cultivated Wild Rice	Oats	Sugar Beets
Dry Beans	Olives	Sugarcane
Dry Peas	Onions	Sunflowers
Early & Midseason	Oranges	Sweet Corn
Oranges	Peaches	Sweet Potatoes
Figs	Peanuts	Table Grapes
Flax	Pears	Tangelos
Flue Cured Tobacco	Pistachios	Tomatoes
Forage Production	Plums	Walnuts
Fresh Apricots	Popcorn	Wheat
Fresh Freestone Peaches		

Source: The Contractor's Research department after RMA's 2014 Actuarial Data Master

**Table 3. Crops Grown under an Irrigated Practice and Insured under an FCIC Plan of Insurance not based on a Producer's Approved Yield<sup>1</sup>**

Crop	Crop	Crop
Cherries	<b>Fresh Market Tomatoes</b>	<b>Oranges</b>
Chile Peppers	<b>Grain Sorghum</b>	Pecans
<b>Corn</b>	Grapefruit Trees	Peppers
<b>Cotton</b>	Hybrid Corn Seed	<b>Soybeans</b>
<b>Forage Production</b>	Hybrid Sorghum Seed	Strawberries
Forage Seeding	Macadamia Trees	Tangerine Trees
Fresh Market Sweet Corn	Orange Trees	<b>Wheat</b>

Source: The Contractor's Research department after RMA's 2014 Actuarial Data Master

<sup>1</sup> Crops in bold are also insured under at least one Approved-Yield-based plan.

In 2012, FCIC insured at least 1 irrigated crop in 49 of the 50 states (Appendix B). The remaining state, Rhode Island, had no insured irrigated crops in 2012, but has had insured irrigated crops in the past.

The Solicitation introduces two definitions addressing irrigation of commercial crops grown under an irrigated practice:

*Efficient Irrigation - A method of producing a crop by which less water is artificially applied during the growing season by appropriate systems and at the proper times than the quantity of water that was used to establish the irrigated approved APH yield, that will likely not result in lower actual yields than the average yield for the irrigated practice for that location.*

*Limited Irrigation - A method of producing a crop by which less water is artificially applied during the growing season by appropriate systems and at the proper times than the quantity of water that was used to establish the irrigated approved APH yield, that will likely result in lower actual yields than the average yield for the irrigated practice for that location.<sup>16</sup>*

Limited Irrigation was first proposed as a defined FCIC term in the IDIQ solicitation.<sup>17</sup> The definitions for "Efficient Irrigation" and "Limited Irrigation" refer to applying less irrigation water to an insured crop than was historically applied that will "likely not result" and will "likely result" in lower actual yields than "the average yield for the irrigated practice for that location," respectively. The distinction between Efficient and Limited Irrigation is especially important when considering policy and procedures modifications to address appropriately changes in the management practices used for insured irrigated acreage. In the case of Efficient Irrigation, modifications to the policy and procedures are not required other than those that recognize Efficient Irrigation as an acceptable management practice under the definition of Irrigated Practice. In the case of Limited Irrigation, if the crop is to be insured as irrigated, changes are

<sup>16</sup> U.S. DOI, 2014, Task Order D14PD00062 under IDIQ contract D13PC00032, Page 6.

<sup>17</sup> U.S. DOI, 2013, Solicitation Number D13PS59998, on page 7 defines Limited irrigation as "A method of producing a crop by which less water is artificially applied during the growing season by appropriate systems and at the proper times than the quantity of water that was used to establish the irrigated production guarantee or amount of insurance on the irrigated acreage planted to the insured crop."



required so the crop is neither insured with a higher than appropriate liability nor with an incorrect trigger for an indemnity payment.

The background material provided by RMA in the IDIQ solicitation and cited at the beginning of this introduction shows existing policies and procedures do not address the differences in expectation between producing a crop under Efficient Irrigation and producing a crop under Limited Irrigation. Efficient Irrigation under the proposed definition could be construed as one form of management under the current definition of the Irrigated Practice. Limited Irrigation could not be interpreted this way.

Irrigation is used in the production of crops either to supplement natural precipitation or to replace natural precipitation in areas with little or no rainfall. Irrigation supports greater evapotranspiration than would occur if the land were not irrigated. Evapotranspiration is a measure of the loss of water from the surface of the Earth through a combination of evaporation from the soil and transpiration from plants. Evapotranspiration is responsible for movement of nutrients throughout the plant; support for the movement of carbon dioxide into the plant for photosynthesis; and maintenance of the plant's temperature. The movement of mineral nutrients throughout the plant supports both cellular metabolic processes and maintenance of turgor. The first is required for cell growth and cell division. The second is required to maintain the upright stature of the plant. Carbon dioxide is required for photosynthesis. Without an adequate supply of photosynthetic sugars, a plant will metabolize stored sugars. The result is a plant that shrinks rather than grows. Excessive temperatures have many deleterious effects on plant growth and metabolism. Thus, sufficient evapotranspiration is essential to plant growth and consequently to crop production.

Nonetheless, from year to year, the amount of irrigation water applied to each acre of commercial irrigated cropland may vary substantially. The amount applied is affected by the crop being produced; the amount of natural precipitation; temperature and wind; changes in water supply; management practices; and the irrigation technology being used. It is important to note all these parameters may affect a producer's decisions about the amount of water required to obtain an optimum economic outcome. These producer decisions in turn affect the actual yield realized that contributes to the development of an Approved Yield. The definition of Irrigated Practice accommodates the variability in the amount of irrigation water applied to each acre of commercial irrigated cropland each year. What is less well accommodated is the reduction in water intended to be applied under Efficient Irrigation.

The NASS 2007 Census of Agriculture (Census) reported 922,095,840 acres of land on U.S. farms. Of this land on farms, 406,424,909 acres were in cropland. The Census also reported 222,267,817 acres "enrolled" in FCIC insurance programs administered by USDA RMA. The RMA database shows 30,822,581 of those acres insured under irrigated practice codes in 2007. Consequently, the cropland used for insured irrigated crops accounts for about 8 percent of the total NASS reported U.S. croplands and slightly less than 3.5 percent of the land on farms in the United States.

From an examination of the FRIS data, the Contractor has concluded a very small proportion of cropland insured under an Irrigated Practice was likely managed under Efficient Irrigation during

any one of the years between 2003 and 2008. However, testimony from producers and extension specialists suggests that proportion was likely higher during the years between 2008 and 2013. NASS has distributed the FRIS survey questionnaires for 2013, but has not completed the analysis of the responses, so quantitative verification of this testimony cannot be made at this time. The Contractor estimates it is likely producers implement new Efficient Irrigation techniques on less than 3,000,000 acres of cropland insured under an Irrigated Practice in any given year. The number of acres affected by Limited Irrigation is undoubtedly much smaller. The strongest drivers of Limited Irrigation are administrative actions and disappearance of irrigation water supplies. In the listening sessions, producers expressed substantial concern about water rights for urban and suburban development taking precedence over long-standing rights for agriculture.

The IDIQ Solicitation identifies the “objective of the IDIQ [Indefinite Delivery/Indefinite Quantity] contract overall [as] to conduct research and analysis regarding irrigation policy for potential crop insurance program development.”<sup>18</sup> The TO 2 Solicitation identifies the “objective of the second task order under the IDIQ as “to obtain a detailed report that [documents] further analysis of any issues/obstacles that need to be resolved in order for the Contractor to implement **nationwide for all crops** their recommended approach contained in option 3a from Watts’ Task Order 1, Deliverable 2.”<sup>19</sup> Option 3a calls for maintaining the existing irrigation policy and procedures but changing the definition for the Irrigated Practice so the definition focuses on all management practices collectively [i.e., Efficient Irrigation] that are required to obtain the Approved Yield.

Furthermore, the TO 2 Solicitation calls for the Contractor to “explore the possibility of a limited irrigation break point where, within a range of reduced irrigation, there is the potential to not obtain the irrigated approved APH yield even with the reasonable utilization of other production management practices and there should be a yield reduction which would result in an approved APH yield less than the irrigated practice but greater than the non-irrigated practice yield.”<sup>20</sup> The Contractor is also asked to consider if Limited Irrigation should be a separate third practice and “consider Option 7 elements for yield reduction function modeling, or any other feasible yield reduction functions to adjust the irrigated approved APH yield for reduced irrigation.”<sup>21</sup>

The following sections address, in order: Section III. Regional Study Areas; Section IV. Stakeholder Input; Section V. Available Programs/Support; Section VI. Quantitative Data Collection Summary; Section VII. Irrigation Production Management Practices; Section VIII. Available Irrigation Water Use Records; Section IX. Risk Analyses; Section X. Outline of Proposed Modifications; and Section XI. Research Findings.

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<sup>18</sup> USDA, RMA, 2012, Solicitation, page 1.

<sup>19</sup> From the Solicitation page 3 of 19. The emphasis is the Government’s.

<sup>20</sup> Solicitation page 5 of 19.

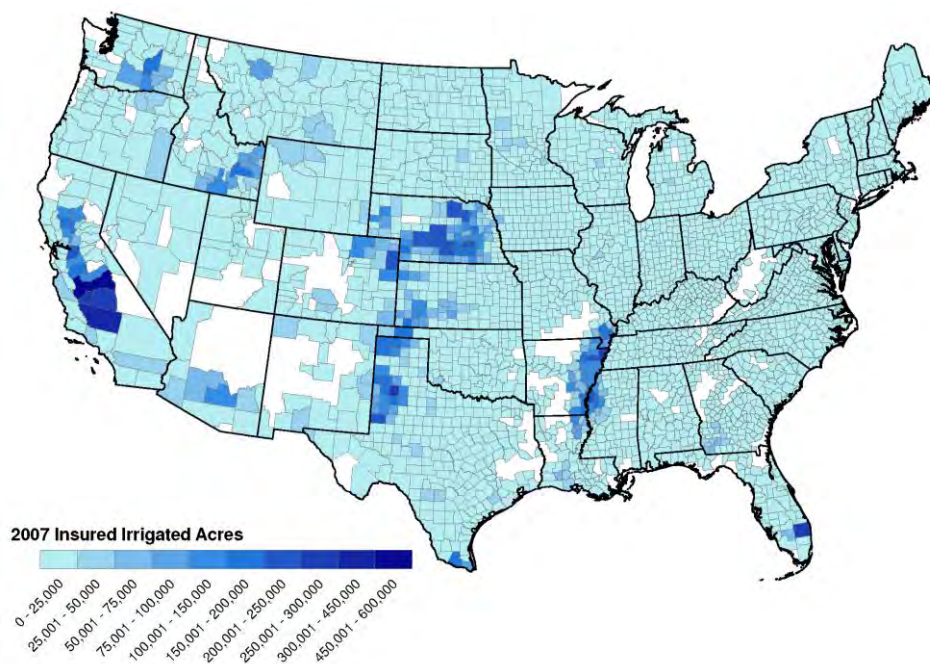
<sup>21</sup> Solicitation page 5 of 19.

### SECTION III. REGIONAL STUDY AREAS

This section of the report deals with the requirement in the Solicitation that: the “Contractor shall delineate regional areas of study and justify their selection.”<sup>22</sup> The Solicitation requires: “a report that provides the analysis and results about insuring reduced irrigation nationwide for all crops.”<sup>23</sup> To the extent that quantitative data can be gathered nationwide, the United States has been the study area.

The Contractor also addressed issues for which data are not available for the entire country. An example of this is available irrigation educational resources. These resources are generally targeted at state-level audiences. To the extent these resources are available in a state, the state became the study region and all states with available resources were included in the study. The Contractor collected testimonial information from extension agents. Conversations were conducted with extension agents in all states that were responsive to the Contractor’s request. Finally, the Contractor collected testimonial information through listening sessions. The selection of locations for the listening sessions was based primarily on mapping of the insured irrigated acreage (Figure 1).

**Figure 1. 2007 FCIC Insured Irrigated Acreage in the Contiguous 48 States<sup>24</sup>**



Source: W&A Underwriting Department after RMA insurance experience data.

While Alaska and Hawaii are not included in this map, insured irrigated acreage in Alaska and Hawaii is very limited. In Alaska a small amount of potato production is occasionally insured as having been produced under an Irrigated Practice. This insured irrigated potato production

<sup>22</sup> DOI, 2013, Solicitation D14PD00062 under IDIQ contract D13PC00032, page 5

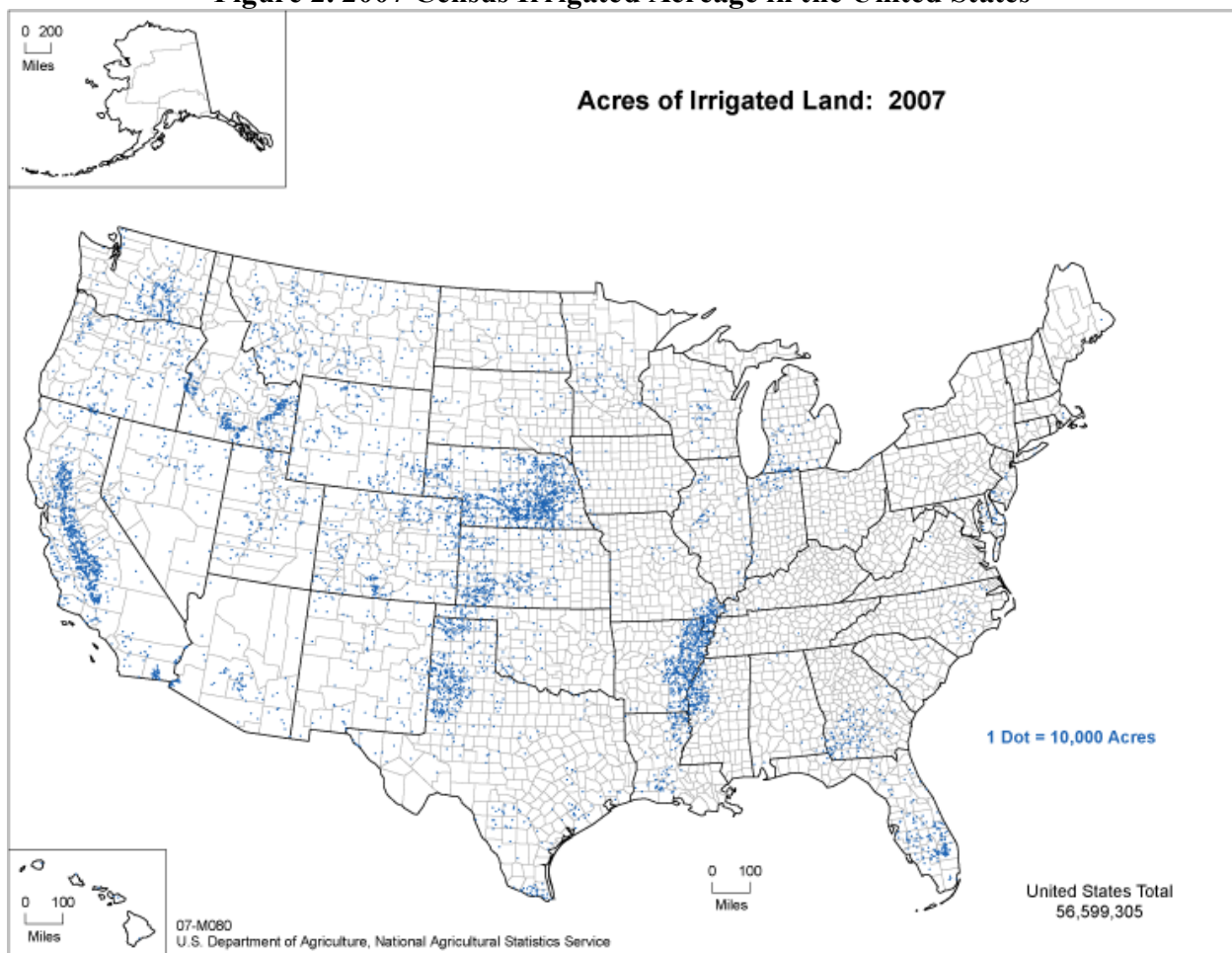
<sup>23</sup> *Ibid.*, page 5.

<sup>24</sup> This is a map of FCIC Insured Irrigated Acreage in the Contiguous 48 States and the table underlying the map is available on the RMA website.

represents much less than 1 percent of the potato production in Alaska and just more than  $\frac{1}{4}$  of one percent of the acreage insured in Alaska. In Hawaii, macadamia trees and the production from those trees is insured as managed under the Irrigated Practice. Most of the macadamia production is in Hawaii County, Hawaii. About half the production is on the dry side of the island. For these operations, water is transported from the rainy side to the dry side. The macadamia operations represent almost  $\frac{3}{4}$  of the \$102,670,452 FCIC insured liability in Hawaii in 2013.<sup>25</sup>

The Contractor noted the map of insured irrigated acreage in the United States is basically similar to the map of all U.S. irrigated acreage published by NASS based on the Census (Figure 2).

**Figure 2. 2007 Census Irrigated Acreage in the United States**



Source: USDA, NASS, 2012,  
[http://www.agcensus.usda.gov/Publications/2007/Online\\_Highlights/Ag\\_Atlas\\_Maps/Farms/Land\\_in\\_Farms\\_and\\_Land\\_Use/07-M080-RGBDot1-largetext.pdf](http://www.agcensus.usda.gov/Publications/2007/Online_Highlights/Ag_Atlas_Maps/Farms/Land_in_Farms_and_Land_Use/07-M080-RGBDot1-largetext.pdf)

<sup>25</sup> USDA, RMA, 2014, FCIC Crop Year Statistics for 2013 by State/Crop,  
[http://www3.rma.usda.gov/apps/sob/current\\_week/stcrop2013.pdf](http://www3.rma.usda.gov/apps/sob/current_week/stcrop2013.pdf), accessed May, 2014.

The specific locations for listening sessions were selected considering first the map of insured acreage managed under an Irrigated Practice. The Contractor identified nine clusters of counties with large amounts of acreage insured under an Irrigated Practice. The largest of these includes portions of Colorado, Kansas, and Nebraska. Listening sessions to gather stakeholder input from these three states were held under the first task order in Colby, Kansas, on March 13, 2013, and in Kearney, Nebraska, on March 14, 2013. Consequently under TO 2, listening sessions were scheduled in other locations. Stakeholder input from the Kansas and Nebraska sessions is available on the RMA website.<sup>26</sup>

The FRIS reports nearly 56.6 million acres in the United States were irrigated in 2008. Furthermore, the FRIS identifies 20 Water Resources Regions NASS has designated for tracking water usage. The Solicitation limited the number of listening sessions under TO 2 to six. Consequently, the Contractor selected six locations for listening sessions providing the opportunity to gather information from producers and stakeholders in the largest number of additional Water Resources Regions.

The listening session in Tifton, Georgia provided stakeholders from the Tennessee and South Atlantic Water Resources Regions an opportunity to provide input regarding their nearly 2.6 million irrigated acres. The Contractor invited stakeholders from Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina, and Tennessee to this listening session.

The listening session in Lubbock, Texas, provided opportunities to gather input from stakeholders in 8 states with nearly 4.6 million irrigated acres. The Water Resources Regions addressed through this listening session include the Arkansas-White-Red, the Rio Grande, and the Texas-Gulf regions. These regions encompass portions of Arkansas, Colorado, Kansas, Louisiana, Missouri, New Mexico, Oklahoma, and Texas.

California producers irrigate nearly 7.5 million acres. The listening session in Sacramento, California provided an opportunity to obtain stakeholder input from many of these producers and from the state and regional water regulatory leadership for the California Water Resources Region. The Water Resources Region encompasses portions of California, Nevada and Oregon.

The listening session in Monticello, Arkansas was located at the confluence of five Water Resources Regions: the Arkansas-White-Red, the Lower Mississippi, the Missouri, the Ohio, and the Upper Mississippi. These regions encompass portions of the states of Arkansas, Colorado, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Minnesota, Mississippi, Missouri, Montana, Nebraska, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, South Dakota, Tennessee, Texas, Virginia, West Virginia, Wisconsin, and Wyoming. There are nearly 28.3 million irrigated acres in these Water Resources Regions.

Pocatello, Idaho was the location for a fifth listening session. The session provided opportunities to collect information from the Great Basin, Lower Colorado, Pacific Northwest, and Upper Colorado Water Resources Regions. These regions cover portions of Arizona, California,

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<sup>26</sup> The Contractor for USDA, RMA, 2013, Insuring Irrigation Feasibility Report, [www.rma.usda.gov/pubs/2013/insuringirrigationfeasibilityreport508.pdf](http://www.rma.usda.gov/pubs/2013/insuringirrigationfeasibilityreport508.pdf), accessed May, 2014.

Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming. There are nearly 3.9 million irrigated acres in these Water Resources Regions.

A final listening session was held in the Tri-City area of Washington (Kennewick, Pasco, and Richland) where stakeholders from the Pacific Northwest Water Resources Region were invited to provide input. The Pacific Northwest Water Resources Region contains almost 7 million acres of irrigated land in seven states: Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming.

Consequently, stakeholders in 14 of the 20 NASS Water Resource Regions had an opportunity to participate in the listening sessions offered under the two task orders. Producers in these Water Resource Regions irrigate nearly 53.6 million acres of land. That represents nearly 95 percent of all irrigated acreage in the United States documented in the FRIS.

## SECTION IV. STAKEHOLDER INPUT

This section of the report deals with the requirement in the Solicitation that:

*The Contractor shall contact insurance providers, various producers, and leaders representing producers at the state and national levels to identify the following:*

- *The issues/obstacles that are currently faced by insured producers with reduced irrigation including economic, physical, and regulatory water restrictions.*
- *The risks that producers encounter in their operations and the coverage that interests them.*
- *Their perceptions of any potential conflicts and difficulties. Describe the production activities of these producer(s).*
- *Review of actual water application records and the utilization of water metering.<sup>27</sup>*

The Contractor gathered stakeholder input during discussions with producers, insurance industry representatives, educators, and government personnel in 6 listening sessions and in more than 150 one-on-one conversations. The listening sessions were conducted in Tifton, Georgia on February 18, 2014; Monticello, Arkansas on February 20, 2014; Sacramento, California on March 6, 2014; Lubbock, Texas on March 18, 2014; Pocatello, Idaho on March 20, 2014; and Pasco, Washington on March 28, 2014. The sessions were broadly advertised. On the advice of agricultural extension educators, the Contractor provided a press release (Appendix C, Exhibit 1) to newspapers serving the location where listening sessions were to be held. An advertisement (Appendix C, Exhibit 2) of the listening session was also prepared. Both the press release and the advertisements were reviewed by RMA before release. The press release was also sent to crop associations in the states where the sessions were being held, extension services offices in the counties where the sessions were conducted, and extension services offices in contiguous counties. Copies of the advertisements were provided to RMA Regional Offices (ROs). RMA distributed the press release to AIPs to recruit insurance industry stakeholders; insurance agencies were encouraged to extend invitations to key producers.

Listening session input was obtained from stakeholders from 6 states: Arkansas (at least 22 stakeholders), California (9 stakeholders), Georgia (2 stakeholders), Idaho (2 stakeholders), Texas (22 stakeholders), and Washington (3 stakeholders). Stakeholder input was solicited from at least one individual in each of the states not represented in the listening sessions. Most of those contacted were extension agents.

Sixty individuals (not including the Contractor's representatives) attended the listening sessions. Attendees included 29 producers. Some producers were also among the 21 insurance industry representatives and 11 grower association representatives attending. The remaining attendees included 10 extension educator/researchers, 2 state government officials representing offices with authority over irrigation water, and 2 RMA RO representatives. Additional follow-up conversations outside the listening session venues were held with RMA personnel, extension specialists, and insurance agents in the six locations where the listening sessions were held. The

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<sup>27</sup> TO 2 Solicitation, page 5.

producers indicated their primary crops include corn, cotton, grain sorghum, potatoes, rice, soybeans, and wheat. Although substantial efforts were made to solicit participation at listening sessions from stakeholders with interests in Category C crops, none attended any of the sessions. Input from extension agents representing Category C crops were solicited when the listening sessions were completed.

Information was collected from stakeholder comments in compliance with the contract requirements regarding the Paperwork Reduction Act. The flow of the listening sessions was controlled by an agenda (Appendix C, Exhibit 3). The Contractor refrained from asking questions in any way that might be construed as a survey of the group; however individuals were queried to seek clarification of comments they made. Information obtained in this manner is qualitative and cannot be interpreted to represent a statistically valid sample. Nevertheless, the information gleaned from the voluntary comments of stakeholders provides substantial value concerning agricultural management techniques; risks, acceptance of the existing risk management products, and reaction to possible new risk management approaches like the proposed Limited Irrigation construct. Although the Contractor provided an email address for comments, no input was received through that channel.

### **Summary of Stakeholder Input**

To preserve the anonymity of individual stakeholders, comments gathered at the six listening sessions are summarized collectively. Individual comments and categorical characterization of sources (i.e., producer, insurance agent, educator, etc.) are documented in Appendix C, Exhibit 4.

At each session, as much as half the input from stakeholders was in the form of questions about the existing insurance language regarding irrigation and how that language impacts insurance. After providing summary information reflecting the results of the Contractor's first deliverable under this IDIQ contract and addressing in very general terms some of the underpinnings of the policy language identified therein, the Contractor referred stakeholders to RMA RO personnel, policy and underwriting documents, and their insurance agents for answers to specific questions. From these questions it was clear many producers and insurance industry stakeholders were previously unaware of some of the policy language pertaining to irrigation and were concerned by the constraints current procedural language places on their options if the supply of irrigation water is reduced. The stakeholders expressed notable concern about two issues. The first was the insurance options available if knowledge of the reduction in irrigation water supply precedes the acreage reporting date. The second was how RMA and the AIPs would respond to a loss associated with a legislative body or regulatory authority removing access to necessary irrigation water. These comments from stakeholders indicate limited familiarity with current policy provisions. That limitation suggests a substantial educational effort will be needed to achieve an appropriate level of awareness if changes to irrigation procedures are made.

Producers indicated that from year to year, soil moisture at planting, heat units, wind, and many other factors including amount and timing of natural precipitation affect how much irrigation water is required to grow a crop. Furthermore, they confirmed that different crops require different amounts of irrigation water. From region to region, soil quality, slope, and the aspect of the slope (the direction the slope faces) also impact how much water is needed to have a good economic outcome.



Virtually all stakeholders in every category recognize and acknowledge the importance of irrigation to agricultural production and the changes in production under the irrigated practice that are likely to occur as irrigation water becomes more limited. Stakeholders at all six listening sessions corroborated what had previously been identified by producers from Colorado, Kansas, and Nebraska: reductions in water allocations have occurred, are currently occurring, and will continue to occur in the foreseeable future.

Another recurring theme during the listening sessions was that producers have responded and are likely to respond to changes in supply of irrigation water in accordance with their understanding of the crop and their farmland. Some have chosen to target their available water on fewer acres of higher revenue crops. Others are planting new crops. Many indicated they have implemented Efficient Irrigation techniques. None indicated they applied less irrigation water with an expectation of achieving a yield less than their Approved Yield. Insureds are very aware of their deductible and the effect on their net revenue when the Approved Yield is not achieved.

The Contractor identified 20 broad categories of technological innovations and/or management practices that have been adopted by producers to address reduced irrigation water access. In each session, the Contractor was presented with anecdotes of how producers have adapted their practices in an effort to maintain their yields. In one instance, a producer stated he had nearly tripled his cotton yield merely by changing his irrigation method from flood to pivot drip. In this case, the producer was using far less water for irrigation and achieving far greater yields. In another session, a potato consolidator indicated the yield and quality of potatoes are damaged by over-irrigation. Reductions of as much as 30 percent in water use could increase yields and provide even larger increases in revenue due to the better quality of the harvested product.

Producers, producer associations, and insurance industry personnel believe crop insurance is a vital risk management tool for producers. Crop insurance is further viewed as an essential tool for developing appropriate strategies to optimize economic outcomes. The current two options of reporting crops grown with reduced irrigation as non-irrigated (if allowed) or uninsurable are viewed as unfair. Additionally, creating a new practice for Limited Irrigation that encompasses Efficient Irrigation is not considered to be sensible. Producers voiced their support for the modification of policy language and procedures to address both Efficient and Limited Irrigation. Some voiced opposition to the creation of break points in amounts of water applied between irrigated and non-irrigated practices. Concern was expressed about unintended consequences of introducing Limited Irrigation. The impact of the timing of application of water was raised during these sessions. In Arkansas, producers are beginning to use cover crops to maintain soil moisture in an effort to reduce the need for pre-plant irrigation. Planting into the cover crop without tilling preserves soil moisture. However, in some instances, this approach is specifically prohibited for an insured crop.

Insurance industry personnel expressed concerns about how various management strategies could be addressed through modifications to the existing insurance, but expressed reluctance and trepidation when discussing the creation of a newly defined Limited Irrigation practice. These respondents noted that irrigation water is not metered in Georgia, Arkansas, Texas, Idaho, California, or Washington. In some of these states, Georgia and Arkansas in particular, the amount of water used for irrigation is estimated based on reviewing the power and fuel bills and

records of the producer in an attempt to substantiate that any loss on irrigated acres was not due to failure to apply the appropriate quantity of water.

Educators who attended the sessions were very vocal about the large number of variables that affect production. Educators encouraged the Contractor to consider very carefully the fact the producer's history encompasses all these variables and the effects of these variables are captured to some extent in the producer's Approved Yield. They noted as producers change their management practices to adapt to the amount of available water, changes in technology, changes in seed and hybrid technology, environmental changes, etc., the effects of all these changes will be incorporated into the Approved Yield over time.

The National Sorghum Producers representative attended the sessions in Kansas, Nebraska, and Texas. He indicated his association was quite concerned that the proposed Limited Irrigation approach for corn and soybeans would distort the markets for crops where sorghum is grown and allowing a Limited Irrigation practice to be insured might lead fewer producers to grow crops with low water requirements. He indicated the T-yields for irrigated sorghum and corn are already creating disincentives for switching from corn to sorghum, and adding Limited Irrigation insurance for corn would only exacerbate that situation.

As noted previously, the most notable themes in stakeholder input were:

- Reduced availability of irrigation water and higher costs for the application of irrigation water are currently problems for some producers;
- Reduced availability of irrigation water and higher costs for the application of irrigation water will continue to be issues for producers for the foreseeable future;
- Many (if not most) producers are changing management strategies to achieve Efficient Irrigation;
- Conserving water for all purposes is an appropriate public policy, even for agricultural production; and
- Addressing limited availability of water in the crop insurance program must be done with caution, with appropriate care to avoid unintended consequences.

## SECTION V. AVAILABLE PROGRAMS/SUPPORT

This subtask is a continuation of data collection focused on the TO 2 Solicitation requirement that:

*The Contractor shall list and summarize the provisions and benefits of all state and federal programs that currently support or subsidize these producers for irrigation. The Contractor shall also research and describe any private insurance program that is available to these producers. The Contractor shall note any gaps in coverage and constraints of the private insurance programs, if applicable.*

Producers can avail themselves of a variety of support programs from the federal, state, and private sectors. Few of these programs specifically address risk; none specifically address risk inherent in applying less irrigation water. Many assist in risk management by providing information that allows the producer to make informed decisions.

### Federal Programs

Federal programs in support of producers are offered primarily by agencies of the USDA.

#### Agricultural Marketing Service (AMS)

Producers benefit from general services of the AMS including the following programs:

- Promotion and Research,
- Marketing and Economic Research,
- Organic Standards, and
- Plant Variety Protection Act (PVPA).

AMS also provides support for extension research into disease prevention, including management of disease vectors which is generally applicable to crops. AMS standards applicable to organic crop production practices provide a mechanism to leverage certain production practices to gain a higher price.

#### Animal and Plant Health Inspection Service (APHIS)

APHIS is responsible for protecting and promoting U.S. agricultural health. APHIS has been tasked with responsibility for enforcing the obligations of the United States under phytosanitary rules such as the *Codex Alimentarius*, responding to plant health import requirements of other countries, and assisting in negotiating science-based trade restrictions. APHIS programs support export of most crops. APHIS documents, such as the “Export Program Manual”<sup>28</sup> provide useful information for producers about phytosanitary requirements.

#### National Institute of Food and Agriculture (NIFA, formerly Cooperative State Research, Education, and Extension Service (CSREES))

NIFA is the federal administrative authority that offers programs in research, extension, and education to provide important educational and consultancy resources for producers in all areas. The extension services also provide programs for consumers. State extension services have

<sup>28</sup> USDA, APHIS, 2010, Exports (08/2010-07), [http://www.aphis.usda.gov/import\\_export/plants/manuals/domestic/downloads/xpm.pdf](http://www.aphis.usda.gov/import_export/plants/manuals/domestic/downloads/xpm.pdf), accessed April, 2013.

produced research addressing the impact of irrigation on crop production. State extension services also provide support for research into disease prevention and disease vector management, which is broadly applicable to insured crops, including irrigated crops.

### Economic Research Service (ERS)

ERS provides data and analysis on product supply and demand, as well as information on industry structure, pricing, trade, production policies, production systems, and processing.

### Farm Service Agency (FSA)

FSA provides financial assistance to producers facing losses from natural disaster (i.e., drought, flood, fire, freeze, tornadoes, pest infestation, and others). FSA's Noninsured Crop Disaster Assistance Program (NAP) provides payments to producers of non-insurable crops when low yields, loss of inventory, or prevented planting occur due to a natural disaster. Eligible producers include landowners, tenants, and sharecroppers who share in the risk of producing an eligible crop. The average non-farm adjusted gross income of the producer cannot exceed \$500,000. A payment limitation of \$100,000 per individual or entity per crop year applies. The natural disaster causing the loss must occur before or during harvest and must directly affect the eligible crop. The specific rules for inclusion of production under the FSA programs are contained in 7 CFR 1437.303.<sup>29</sup>

FSA also administers Conservation Reserve Enhancement Programs (CREP), which are federal-state cooperative conservation programs that address "targeted agricultural-related environmental concerns. CREP participants voluntarily enroll in 14- to 15-year Conservation Reserve Program (CRP) contracts with USDA's (FSA). Participants receive financial incentives to remove cropland and marginal pastureland from agricultural production." CREP has been used to "reduce irrigation water use, increase water quality, reduce soil erosion and sedimentation and increase wildlife populations."<sup>30</sup> Removing marginal irrigated acreage from production reduces the pressure on water supplies for other producers in an area.

### Food Safety and Inspection Service (FSIS)

FSIS employees identify, assess, and define emerging and standing issues affecting procedures, policies, activities, or resources for food safety. They are responsible for identifying food safety concerns associated with production, transportation, and marketing. FSIS personnel are also responsible for outreach and liaison activities to develop and sustain risk reduction strategies regarding food safety in agricultural production.

### Foreign Agricultural Service (FAS)

FAS maintains internet links to resources for producers. These links focus on sites that identify production practices and data, including the UN FAO import and export data. There are no links specifically targeting different irrigation production practices.

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<sup>29</sup> CFR, Title 7, Subtitle B, Chapter XIV, Subchapter B, Part 1437, Subpart D, Section 1437.303.

<sup>30</sup> [http://www.fsa.usda.gov/FSA/newsReleases?area=newsroom&subject=landing&topic=pfs&newstype=prfactsheet&type=detail&item=pf\\_20060501\\_conservation\\_en\\_idaho06.html](http://www.fsa.usda.gov/FSA/newsReleases?area=newsroom&subject=landing&topic=pfs&newstype=prfactsheet&type=detail&item=pf_20060501_conservation_en_idaho06.html), accessed May 2014. There are several FSA press releases about various CREP at <http://search.usa.gov/search?utf8=%E2%9C%93&affiliate=usdafarmerserviceagency&query=irrigation>

### National Agricultural Statistics Service (NASS)

NASS is the primary data collection and publication service of the USDA. Its data series are widely used by producers, businesses, and researchers. Data are collected as part of the Census of Agriculture and from surveys sent to sample producer populations.

### Risk Management Agency (RMA)

RMA provides numerous products for insuring crops. Approximately 100 crops can be insured as managed under an Irrigated Practice. The insurance of these crops when the amount of water being applied is less than the amount applied during the development of an Approved Yield is the subject of this report.

### Rural Development (RD, formerly Rural Business–Cooperative Service (RBS))

RD is a small agency with limited funding and staff whose purpose is to finance and facilitate development of small and emerging private business enterprises, and promote sustainable economic development in rural communities.<sup>31</sup>

### **State Government Programs**

State programs and regulations affect crop production and crop risk management. Some states have regulations that replace or complement federal phytosanitary or environmental standards. The various regulations are similar to federal standards, often referencing them as minima. The purpose of these regulations is to reduce risks of diseases and the vectors that carry those diseases. States also provide support for the NIFA programs. State governments often are involved in the cooperative CREP administered by FSA.

### **Water Regulatory Programs**

The Contractor identified scores of water regulatory authorities which have impacts on agricultural water use. Information about these authorities is documented in Appendix D and in the section of the report on Available Irrigation Water Use Records.

### **Private Insurance Inventory**

Private insurance companies offer coverage to commercial crop operations; available coverage is described below.

### Weather Insurance Coverage

Private weather insurance is available from a number of traditional and online insurance companies. These products are often reinsured by major reinsurance companies (e.g., Munich Re, Swiss Re, Renaissance Re, etc.). The policies are generally “one off” contracts, customized to reflect specific named perils identified by the insured. This insurance can be structured to cover any one weather event (e.g., extreme cold or excessive rainfall) or combinations of weather the producer chooses from available options. These policies have relatively high premiums and are not subject to premium subsidies. They cover losses only from the specific named perils. These products do not mirror the structure of any existing FCIC insurance. Instead these products focus on limited, producer-identified, named perils.

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<sup>31</sup> USDA, RD, 2011, Business, <http://www.rurdev.usda.gov/Business.html>, accessed May, 2011.

Crop-hail and fire coverage is an exception to the one-off nature of other weather insurance products. It is a more or less standardized product subject to state regulation. Variations among insurance companies can occur but the basic coverage is substantially the same. Crop-hail indemnities are based on the percent of damage to the vegetative structure of the plant and stage of growth. These factors are converted into a percent of loss of ultimate potential yield, not actual yield. The amount of loss is the amount of insurance purchased by the insured multiplied by the percent of loss. Fire coverage applies to mature fields that may be struck by lightning and set afire. Producers who purchase both additional coverage crop insurance policies and crop-hail can request that the premium for the multi-peril coverage be reduced by waiving the right to any indemnity from the multi-peril policy for hail or fire damage.

#### Basic Business Liability

Basic business liability insurance is available. Business liability coverage does not provide any insurance on a growing crop.

#### Employers Contingent Liability

Employers Contingent Liability is available with the ability to add employees as insureds. Contingent liability does not provide any coverage on a growing crop.

## SECTION VI. QUANTITATIVE DATA COLLECTION SUMMARY

The Contractor examined publicly available data from government and private sources that might support appropriately modifying the policy and procedures for crop insurance for crops insured under an Irrigated Practice code when the insured uses Efficient or Limited Irrigation. The Contractor's efforts included research into weather, crop yield, and irrigation data. The focus was on identifying data that might be useful in implementing insurance procedures for all crops, nationwide. A longitudinal study of the impact of irrigation on yield requires farm-level data on the amount of irrigation water applied, the method of application, and the resulting yield. The Contractor examined publicly available data from NASS, National Climate Data Center (NCDC), RMA, and state irrigation surveys. The Contractor reviewed published research reports on the effects of irrigation at different levels to determine their potential contributions to implementation of Efficient and Limited Irrigation procedures. The Contractor also examined the potential for using unpublished data in both the NASS and RMA databases to determine if these data might be useful in addressing Efficient and/or Limited Irrigation. Finally, the Contractor explored the utility of private weather data as a potential source of information for implementation of Efficient and Limited Irrigation Procedures. This report addresses the weather data first because of the Contractor's use of weather data in analysis of the NASS FRIS unpublished producer-level data.

### Weather Data

Irrigation is occasionally used to address extreme high and low temperatures. However, irrigation water is more often applied to address the water balance<sup>32</sup> of the plant. Precipitation, which maintains water balance by providing soil moisture, therefore plays a more substantial role in the requirements for irrigation than does temperature. Precipitation directly impacts the amount of irrigation water required to produce a yield at least equal to the Approved Yield. With the exception of data on temperature and precipitation, weather data are rather spotty.<sup>33</sup> Furthermore, the Solicitation requires a simple approach to addressing Efficient and Limited Irrigation, not dependent on annual updating. Consequently, the focus of the Contractor's efforts on weather was on the precipitation available for crop growth and development. The Contractor examined available sources of precipitation data.

<sup>32</sup> Dainty, J., 1976, "Water relations of plant cells" in *Transport in Plants*, U. Luttge and M. Pitman, eds., Springer, Berlin, pp. 12–35; Milburn, J. A., 1979, *Water Flow in Plants*. Longman, London; Smith, J.A.C., and Griffiths, H., 1993, *Water Deficits: Plant Responses from Cell to Community*. BIOS Scientific, Oxford. Tyree, M.T., and P.G.Jarvis, P. G., 1982, "Water in tissues and cells" in *Physiological Plant Ecology II: Water Relations and Carbon Assimilation*, O.L. Lange, P.S. Nobel, C.B. Osmond, and H. Ziegler, eds., Springer, Berlin, pp. 35–77; Weatherly, P.E., 1982, Water uptake and flow in roots in *Physiological Plant Ecology II: Water Relations and Carbon Assimilation*, O.L. Lange, P.S. Nobel, C.B. Osmond, and H. Ziegler, eds., Springer, Berlin, pp. 79–109; Zeiger, E., G. Farquhar and I. Cowan, eds., 1987 *Stomatal Function*, Stanford University Press, Stanford, CA.

<sup>33</sup> Elliott, D.L., C.G. Holladay, W.R. Barchet, H.P. Foote, and W.F. Sandusky, 1986, *Wind Energy Resource Atlas of the United States*, <http://rredc.nrel.gov/wind/pubs/atlas/titlepg.html>, and especially Table A-2, Principal Sources of Wind Data, <http://rredc.nrel.gov/wind/pubs/atlas/tables/A-2T.html>, accessed May, 2014; NCDC, 1998, *Climatic Wind Data for the United States*, <http://www.ncdc.noaa.gov/sites/default/files/attachments/wind1996.pdf>, accessed May, 2014; Google.Org, 2012, RE<C: Surface Level Wind Data Collection, [http://www.google.org/pdfs/google\\_heliostat\\_wind\\_data\\_collection.pdf](http://www.google.org/pdfs/google_heliostat_wind_data_collection.pdf), accessed May, 2014; U.S. Department of Energy, National Renewable Energy Laboratory, 2012, *National Solar Radiation Data Base*, [http://rredc.nrel.gov/solar/old\\_data/nsrdb/](http://rredc.nrel.gov/solar/old_data/nsrdb/), accessed May, 2014; and U.S. Department of Energy, National Renewable Energy Laboratory, Solar Radiation Research Laboratory, 2013, *Solar Radiation Research*, [http://www.nrel.gov/solar\\_radiation/facilities.html](http://www.nrel.gov/solar_radiation/facilities.html), accessed may, 2014.

The National Climate Data Center (NCDC) is the principal government source for weather data. The National Oceanic and Atmospheric Administration (NOAA) of the U.S. Department of Commerce administer NCDC. NCDC maintains an extensive archive of weather data, including time series of temperature and precipitation data. NCDC's "Climate Data Online (CDO)" provides free access to NCDC's archive of historical weather and climate data in addition to station history information. These data include quality controlled daily, monthly, seasonal, and yearly measurements of temperature [and], precipitation... Customers can also order most of these data as certified hard copies for legal use."<sup>34</sup> Subscription services are also available to download NCDC weather data series.

Most weather data series in the NCDC archive are incomplete and many cover relatively short periods. Although the NCDC data are in an easy to handle format and data fields are adequately described in documentation provided by NCDC, the data contain holes and flags that need to be addressed. The NCDC datasets contain daily values for precipitation for most days. They also include flags to identify aberrant, suspect, and missing data. For analysis of average precipitation and the standard deviation of the precipitation for any block of consecutive days in a county, complete datasets are required for that block. Published weather data from the NCDC are not sufficient to complete this analysis. Gridded precipitation values<sup>35</sup> and cleaned, filled data<sup>36</sup> are available commercially.

The precipitation most logically affecting irrigation requirements is the precipitation that falls during the growing season. The growing season could be considered to include the days when pre-plant moisture is deposited in the soil. Furthermore, during ripening, precipitation often reduces the quality and/or quantity of a crop that can be harvested. Consequently, the growing season precipitation window varies from location to location, from crop to crop. It should not be defined as the period between planting and harvest. The Contractor notes growing season is not defined in the CIH or the Basic Provisions. Growing Season is defined in the Vegetative and Rainfall Index products as "a period of time designated in the Actuarial Documents during which the crop is planted."

The Solicitation requires a simple approach addressing all crops nationwide. The growing season is not well documented in all locations for all crops. Nonetheless, the Contractor believes there is useful information regarding irrigation risks in the precipitation statistics for a county, even using a "standard growing season." First, the amount of precipitation an insured expects affects any decision about how much water is sufficient to irrigate at the appropriate time with the appropriate equipment. Then, that decision of sufficiency is also affected by the variability of the amount of precipitation expected, which grows from the experience of variability in precipitation from year to year. The greater the variability, the more water must be held in reserve to address a particularly dry growing season.

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<sup>34</sup> U.S. Department of Commerce, NOAA, NCDC, 2014, Climate Data Online, <http://www.ncdc.noaa.gov/cdo-web/>, accessed March, 2014.

<sup>35</sup> RMA has used gridded historical precipitation data in development of its Rainfall Index product. Climate Corporation is one commercial source of such data.

<sup>36</sup> Weather Source has cleaned and filled historical weather datasets. Weather Source lists the USDA ARS on its client list.



Consequently, the Contractor considered the period from April 1 through September 30 to represent the nominal growing season precipitation. While the crop being grown, the timing of the rainfall, the soil composition, and the slope and aspect of the field all affect how useful the precipitation is to plant growth, some measure of the average available precipitation, acted upon by a factor capturing the crop, timing, etc. will be used in establishing the irrigation protocol.

The Contractor therefore extracted for each crop year for each county in which production was insured under an Irrigated Practice code the amount of total precipitation during the nominal growing season window. The values by county were then averaged over the period 1950 to 2012. The Contractor calculated the standard deviation of the nominal growing season precipitation values by county. The Contractor then documented the average growing season precipitation and the standard deviation of that precipitation in each county counties in which crops are insured under an Irrigated Practice code (Appendix E). Sixteen of the 20 counties with the highest growing season precipitation are in Florida, with four in Louisiana (Table 4).

**Table 4. The 20 Counties/Parishes in which Crops Are Insured under an Irrigated Practice Code with the Highest Average Growing Season (April through September) Precipitation**

State	County/Parish	Average	Standard Deviation
Florida	Palm Beach	39.4	7.0
Florida	Hendry	38.0	6.0
Florida	Miami-Dade	37.9	9.4
Florida	Dade	36.8	7.4
Florida	Collier	36.2	6.4
Florida	Martin	35.6	7.6
Florida	Manatee	35.6	7.4
Florida	Levy	35.4	8.0
Florida	Liberty	35.1	7.7
Florida	Lee	35.0	6.3
Louisiana	Terrebonne	34.9	8.9
Louisiana	St. Martin	34.9	8.4
Florida	Glades	34.9	6.3
Louisiana	Plaquemines	34.9	8.2
Florida	Wakulla	34.6	8.3
Florida	Desoto	34.5	7.4
Louisiana	Lafourche	34.4	7.2
Florida	Gulf	34.4	8.9
Florida	Highlands	34.2	6.3
Florida	Hardee	34.0	6.3

Source: The Contractor's Research Department after cleaned, filled, and backcast NCDC data

The amount of precipitation in a given location varies from year to year. Geographically, that variability is itself quite variable (either as an empirical or relative value), as is the average precipitation. The 20 counties with the lowest growing season precipitation are all in the desert Southwest (Table 5).

**Table 5. The 20 Counties in which Crops Are Insured under an Irrigated Practice Code with the Lowest Average Growing Season (April through September) Precipitation**

State	County	Average	Standard Deviation
California	Imperial	0.6	0.7
California	Inyo	1.0	0.6
California	Kings	1.1	0.9
California	Ventura	1.4	1.4
California	Kern	1.4	1.0
California	Riverside	1.4	1.0
California	Orange	1.5	1.3
California	Stanislaus	1.6	1.2
Arizona	Yuma	1.6	1.0
California	Merced	1.6	1.1
California	Los Angeles	1.7	1.6
California	San Bernardino	1.8	1.0
California	San Luis Obispo	1.8	1.5
California	Santa Barbara	1.8	1.6
California	San Benito	1.9	1.5
California	San Joaquin	2.0	1.2
California	Sacramento	2.1	1.2
Nevada	Clark	2.1	1.1
Arizona	La Paz	2.1	1.1

Source: The Contractor's Research Department after cleaned, filled, and backcast NCDC data

When a crop generally receives ample growing season precipitation, irrigation is used primarily to supplement the precipitation during brief dry periods. Therefore, in areas with abundant precipitation, the variability of that precipitation from year to year is the parameter imposing the requirements for an adequate supply of irrigation water. The 20 counties with the highest standard deviation of the growing season precipitation all have on average more than 22 inches of rain during the growing season. Only Miami-Dade and Gulf counties in Florida and Terrebonne Parish in Louisiana are on both the maximum average growing season precipitation list and the maximum standard deviation of growing precipitation list. The reader should note, the high variability of rainfall in counties with abundant precipitation indicates that in some years, precipitation in these counties cannot support even 15 acre inches of evapotranspiration. This is one underlying cause of higher insurance rates for non-irrigated crops than for irrigated crops in counties that generally have ample rainfall to support an abundant harvest.

It is important to understand the impact of precipitation variability on irrigation requirements. Soybean requires approximately 20 inches of water for full evapotranspiration.<sup>37</sup> Harris and Matagorda counties in Texas and Greenwood County in Kansas all receive more than enough water on average during the growing season to support full evapotranspiration (Table 6). However, considering the standard deviation of the growing season precipitation in these counties, in some years maintaining an Approved Yield for a soybean crop grown under the Irrigated Practice will require having access to a substantial quantity of water for irrigation, even if the Approved Yield was achieved at evapotranspiration levels substantially lower than full evapotranspiration.

<sup>37</sup> Al-Kaisi, M., 2000, Crop water use or evapotranspiration, IC-484:84-86, <http://www.ipm.iastate.edu/ipm/icm/2000/5-29-2000/wateruse.html>, accessed May, 2014.

**Table 6. The 20 Counties/Parishes in which Crops Are Insured under an Irrigated Practice Code with the Highest Standard Deviation of Growing Season (April through September) Precipitation**

State	County/Parish	Standard Deviation	Average
Oklahoma	Johnston	11.4	32.7
Florida	Dixie	9.9	33.3
Texas	Chambers	9.6	27.5
Arizona	Cleveland	9.5	32.2
Kansas	Neosho	9.4	33.7
Florida	Miami-Dade	9.4	37.9
Louisiana	St. John The Baptist	9.3	31.8
Louisiana	Pointe Coupee	9.2	27.8
Georgia	Seminole	9.1	30.7
Louisiana	Terrebonne	8.9	34.9
Florida	Gulf	8.9	34.4
Kansas	Saline	8.6	27.2
Texas	Harris	8.6	23.5
Texas	Matagorda	8.6	23.0
North Carolina	Yancey	8.6	29.4
Louisiana	Vermilion	8.6	32.4
Mississippi	Hancock	8.6	32.9
Texas	Orange	8.5	27.4
Kansas	Greenwood	8.5	23.8

Source: The Contractor's Research Department after cleaned, filled, and backcast NCDC data

When very limited growing season precipitation falls, irrigation is used primarily to replace rainfall rather than to supplement the rainfall. Therefore, in areas with very limited precipitation, the variability of that precipitation from year to year is unlikely to impose requirements for more irrigation water than is normally used. Instead, producers manage their crops to avoid overwatering when natural precipitation does fall. The 20 counties with the lowest variability in the standard deviation of the growing season precipitation all have less than 4 inches of rain on average during the growing season (Table 7). LaPaz County in Arizona; Imperial, Inyo, Kern, Kings, Merced, Riverside, San Bernardino, Stanislaus, and Yuma counties in California; and Clark County in Nevada all have very limited average growing season precipitation as well as very little variability in the amount of precipitation from year to year.

**Table 7. The 20 Counties in which Crops Are Insured under an Irrigated Practice Code with the Lowest Standard Deviation of Growing Season (April through September) Precipitation**

State	County	Standard Deviation	Average
California	Inyo	0.6	1.0
California	Imperial	0.7	0.6
Washington	Benton	0.8	2.4
Washington	Yakima	0.9	2.7
Washington	Franklin	0.9	2.8
California	Kings	0.9	1.1
Washington	Grant	0.9	2.6
California	Kern	1.0	1.4
California	Riverside	1.0	1.4
California	Yuma	1.0	1.6
California	San Bernardino	1.0	1.8
Nevada	Clark	1.1	2.1
Oregon	Wasco	1.1	3.0
Washington	Adams	1.1	3.5
Arizona	La Paz	1.1	2.1
California	Merced	1.1	1.6
California	Stanislaus	1.2	1.6
Oregon	Gilliam	1.2	3.7
Oregon	Sherman	1.2	3.3

Source: The Contractor's Research Department after cleaned, filled, and backcast NCDC data

During the preparation of the second deliverable of the first Task Order under this IDIQ, a very important issue was raised concerning the period of natural precipitation that supports crop production. The issue was first raised in a conversation with an extension agent in northwestern Kansas. The agent and other stakeholders in the area reported the precipitation that falls in October is just as important to corn production the next calendar year as precipitation falling after planting, during emergence, or during the development of the ear. Since the general consensus on the window of precipitation that supports plant growth is that pre-plant moisture and growing season moisture through maturity are the two essential sources of moisture, these stakeholders were suggesting, in this area, pre-plant moisture was the moisture collected by the soil from October through planting.

The Contractor tested this suggestion by examining the correlation from 1972 to 2012 between planted yields for non-irrigated corn in Sheridan County, Kansas, and of the amount of precipitation falling during various periods (i.e., April through September, January through September, and October of the prior year through September of the crop year). The Contractor considered both total precipitation and weighted totals of the precipitation. The Contractor considered both a simple weighting approach (with the April through September precipitation weighted higher than precipitation that fell earlier and January through September moisture weighted higher than the moisture that fell earlier) and graded weighting (with earlier pre-plant precipitation weighted less than the precipitation falling nearer to planting).

The highest correlation for yields of non-irrigated corn to precipitation was for the un-weighted precipitation total from October through September of the crop year (0.49). This was also the period of strongest correlation between the irrigated corn yield and any period of precipitation

(0.08). However, because natural precipitation plays a limited role in the growth and development of irrigated crops, the correlations between precipitation and yield were much lower for irrigated corn than for non-irrigated corn. Discussions with extension agents in several locations about these unusual results led to the conclusion that the area in question must be underlain with a relatively impervious subsoil layer. Consequently, any moisture falling on the soil is banked for future evapotranspiration. In the absence of transpiration (i.e., after the crop has been harvested), the only loss of water from the soil is by evaporation from the surface.

This concept of “critical precipitation window” advanced by the Kansas extension service led the Contractor to inquire about the “critical precipitation window” for crops in other states. The intent was to understand better some of the limits of the construct “during the growing season ... at the proper times” in the definition of the Irrigated Practice.

The Contractor succeeded in discussing this concept with extension agents in 40 states. For simplicity the focus was on growing season, an extended pre-plant period and growing season, and from the end of harvest one year through maturity the next. Most considered the April to September (i.e., an arbitrary “growing season”) to be the most crucial period for precipitation (Appendix F), with a limited period of pre-plant moisture contributing to production. Extension specialists representing New Hampshire, Oklahoma, and the eastern half of Kansas indicated that any precipitation after the beginning of the calendar year was crucial to crop productivity. In the remaining 13 states (Table 8), according to testimony, the precipitation from harvest one year through the maturation of the crop the following year is the best measure of the available water for crop production.

**Table 8. States Where the Total Precipitation from the Preceding Harvest through the End of the Harvest was Identified as Crucial for Crop Production**

Arizona	North Dakota
California	Oregon
Idaho	South Dakota
Kansas - West	Utah
Nebraska - West	Washington
Nevada	Wyoming - Northwest
New Mexico	

Source: The Contractor’s Research Department after discussion with state extension specialist

The Contractor is not suggesting irrigation of a harvested field is irrigating “during the growing season ... at the proper times”. Instead the lesson from this effort is that well-informed producers who understand their soil’s moisture holding capacity are likely to change their irrigation approach from year to year to address appropriately the available soil moisture. Furthermore, deep soil moisture in some areas will play a substantially greater role than in other locations. The appropriate granularity of the requisite information about soil moisture holding capacity is not at the state level and not likely at the county level. Within a county, and even on an enterprise, soil differences are an important element of identifying what can be accomplished with Efficient Irrigation. Consequently, a simple approach, not requiring annual updating, to address Efficient and Limited Irrigation will need to allow decisions that represent good management practices without restricting the management decisions of the most knowledgeable producers.

Finally, recognizing that a healthy plant is essential to the production, by perennials, of their fruit and nut crops, the entire year's precipitation is important for these Category C crops. This is true even for Category C crops grown under irrigation. An extended dry period in any part of the year can damage the growing points of woody species. If a drought is severe enough, it can even damage dormant buds. Consequently, having sufficient irrigation water to supplement natural precipitation throughout the year is crucial to maintenance of an Approved Yield for Category C crops insured under an Irrigated Practice code. The producers of these crops understand this requirement. It was evident in comments at listening sessions and in discussions with extension agents. The literature published by extension offices provides good evidence that producers of these perennial crops have been among the pioneers in the development of Efficient Irrigation techniques.<sup>38</sup>

## NASS

NASS data are useful in identifying locations where crops are produced under irrigation. NASS conducts surveys and prepares reports covering a wide range of topics concerning U.S. agriculture. The Contractor reviewed NASS aggregate data published in the Census as well as data available from Quick Stats and the FRIS. NASS is especially conscientious about documenting their sampling methods and reporting the methods used to develop results estimated from samples. NASS survey reports identify major irrigated commodity crops and estimated yields of those crops. The only USDA reports of the amount of water applied per acre are in the FRIS, a follow-up survey to the Census of Agriculture, and in evaluations of the FRIS datasets by the ERS<sup>39</sup> and ARS.<sup>40</sup> The Contractor found no reports from NASS where both yield and amount of irrigation water applied at any finer level than for whole states were published.

## NASS Census Data

NASS conducts a Census of Agriculture every five years. The Census of Agriculture is unusual among NASS data collection instruments in that NASS distributes census questionnaires to the complete list of farms NASS maintains. For the purpose of the Census of Agriculture NASS defines a farm as "any place that produced and sold, or normally would have sold, \$1,000 or more of agricultural products during the Census year."<sup>41</sup> Most NASS surveys other than the Census of Agriculture are distributed to limited samples of total potential respondent populations.

<sup>38</sup> See, for example: Black, B., R. Hill and G. Cardon, 2008, Orchard Irrigation: Cherries, Utah State University Extension, [https://extension.usu.edu/files/publications/publication/Horticulture\\_Fruit\\_2008-03pr.pdf](https://extension.usu.edu/files/publications/publication/Horticulture_Fruit_2008-03pr.pdf), accessed May, 2014; Harrison, K., University of Georgia, 2009, Factors to Consider in Selecting a Farm Irrigation System, [http://www.caes.uga.edu/publications/pubDetail.cfm?pk\\_ID=6979](http://www.caes.uga.edu/publications/pubDetail.cfm?pk_ID=6979), accessed May, 2014; R.L. Parsons and B. J. Boman, 2013, Microsprinkler Irrigation for Cold Protection of Florida Citrus, <http://edis.ifas.ufl.edu/ch182>, accessed May, 2014; and Moyer, M., R.T. Peters and R. Hamman, Washington State University extension, 2013, Irrigation Basics for Eastern Washington Vineyards, <http://cru.cahe.wsu.edu/CEPublications/EM061E/EM061E.pdf>, accessed May, 2014;

<sup>39</sup> See, for example: Wiebe, K., and N. Gollehon, USDA ERS, 2006, Agricultural Resources and Environmental Indicators, 2006 Edition; pp. 24-32, <http://www.ers.usda.gov/publications/eib-economic-information-bulletin/eib16.aspx>, accessed April, 2014, and USDA, ERS, 2013 Western Irrigated Agriculture, <http://www.ers.usda.gov/data-products/western-irrigated-agriculture.aspx#37000>, accessed May, 2014.

<sup>40</sup> See, for example: USDA, ARS, 2001, Irrigation and Drainage, <http://www.ars.usda.gov/is/np/irrigationdrainage/IrrigDrainBro.pdf>, accessed May, 2014.

<sup>41</sup> USDA, NASS, 2102, Census of Agriculture: Your Voice, Your Future, Your Responsibility, [http://www.agcensus.usda.gov/Partners/Brochures/2012\\_Census\\_Brochure\\_FINAL\\_ENGLISH.pdf](http://www.agcensus.usda.gov/Partners/Brochures/2012_Census_Brochure_FINAL_ENGLISH.pdf), accessed April, 2014.

The Census of Agriculture provides the only source of detailed agricultural data for every county in the United States. NASS collects these data using a uniform and consistent methodology, carefully documenting changes in the form and analytical methods from one census to the next. At the same time, NASS is required by law to preserve producer confidentiality. Title 7, U.S. Code, Section 2276 and the Confidential Information Protection and Statistical Efficiency Act prohibit public disclosure of individual information. Personal information, including personally reported data, is protected from legal subpoena and Freedom of Information Act requests. NASS identifies confidentiality and data security as their top priorities.

The 2007 Census reports 922,095,840 acres of land on U.S. farms. Of this land on farms, 406,424,909 acres are in cropland. The Census also reports 222,267,817 acres “enrolled” in FCIC insurance programs administered by USDA RMA. The RMA database shows approximately 31 million of those acres insured under irrigated practice codes in 2007. Consequently, the cropland used to produce insured irrigated crops accounts for slightly less than 3.5 percent of the land on farms in the United States; about 8 percent of the total NASS-reported U.S. croplands; and slightly less than 14 percent of the FCIC insured acreage. Table 36 of the 2012 Census of Agriculture Census (Table 32 of the 2007 Census) documents the yield per acre of 26 crops grown with and without Irrigation (Table 9). These aggregate yields provide an overview of the benefits of irrigation, but provide no useful information about the effects of the amount of irrigation water applied.

**Table 9. Yield per Acre of 26 Crops Grown With and Without Irrigation**

Crop (unit for the crop)	Irrigated Yield	Non-irrigated Yield
Barley for grain (bushels)	100.7	55.8
Corn for grain (bushels)	171.1	111.1
Corn for silage or greenchop (tons)	23.8	13.5
Cotton, all (bales)	2.3	1.6
Upland cotton (bales)	2.2	1.6
Pima cotton (bales)	3.1	-
Dry edible beans, excluding limas (cwt)	22.8	17.8
Oats for grain (bushels)	87.1	59.4
Peanuts for nuts (pounds)	4,362.0	3,875.1
Rice (cwt)	74.3	-
Sorghum for grain (bushels)	80.7	47.7
Soybeans for beans (bushels)	49.4	37.6
Sugar beets for sugar (tons)	32.8	26.2
Sugarcane for sugar (tons)	35.7	34.7
Tobacco (pounds)	2,616.1	2,153.8
Wheat for grain, all (bushels)	81.8	42.9
Winter wheat for grain (bushels)	76.8	44.3
Durum wheat for grain (bushels)	96.0	32.9
Other Spring wheat for grain (bushels)	89.1	40.8
Alfalfa hay (tons, dry)	4.6	2.2
Small grain hay (tons, dry)	3.3	1.8
Tame hay other than alfalfa, small grain, and Wild hay (tons, dry)	2.6	1.8
Wild hay (tons, dry)	1.2	1.3
Haylage or greenchop from alfalfa or alfalfa mixtures (tons, green)	7.5	6.4
All other haylage, grass silage, and greenchop (tons, green)	10.7	4.1

Source: The Contractor's Research Department the 2012 Census of Agriculture, Volume 1, Table 36, page 26.

The remaining information on irrigation in the census is of limited use for assessing the appropriate approach for addressing Efficient and Limited Irrigation. Table 37 of the 2012 Census documents U.S. farm numbers and acreage with irrigated production of camelina, canola, dry peas, flaxseed, hops, lentils, pineapples, popcorn, rye, safflower, and sunflower seed of various types. There is no information on yields or on the amount of irrigation water required. Table 1 of the 2012 Census state level summaries reports the number of farms with irrigation and the number of irrigated acres in each state for the crops identified in Table 9. Table 10 of the 2012 Census state level summarizes reports on these parameters by size of operation and by state. Table 25 of the 2012 Census state level summaries documents the number of farms and acreage with irrigated production for nine additional crops: buckwheat, cowpeas, emmer and spelt (one crop), mustard seed, rape seed, sugar beets for seed, sugar beets for seeds, triticale, and wild rice. Table 26 of the 2012 Census state level summaries reports the number of farms and acreage with irrigated production for grass and field seed. Tables 27 through 29 of the 2012 Census state level summaries report number of farms and acreage with irrigated production for other crops (from dill to taro), vegetable, and orchards respectively, while Table 32 addresses berries.

As stated previously, these data are useful in identifying major irrigated crops. For the major commodity crops it would be possible to mine the respondents' data to establish yield under



irrigated and non-irrigated practices, but not using the insurance definition of Irrigated Practice. However, since NASS conducts a census only once every five years, these producer-level yield data would represent a very limited time series. Furthermore, the NASS confidentiality requirements would reduce the number of counties for which yields could be reported.

### **NASS Quick Stats**

The NASS agricultural database for the United States is enormous. NASS developed Quick Stats ([http://www.nass.usda.gov/Quick\\_Stats/](http://www.nass.usda.gov/Quick_Stats/)) as a research tool for extraction of relevant data from the database. The Quick Stats database contains almost 31 million records of aggregated parameters derived from the census data and from analysis of survey responses. Each record addresses 39 parameters ([http://quickstats.nass.usda.gov/param\\_define](http://quickstats.nass.usda.gov/param_define)). No producer-level data is available through Quick Stats, but NASS supports research visits to analyze the unpublished data if such analysis can be completed without violating the requirements of Title 7, U.S. Code, Section 2276 and the Confidential Information Protection and Statistical Efficiency Act. The Contractor reviewed the Quick Stats summary data to understand better any value that might be obtained from research of producer-level responses to NASS surveys. NASS describes its general survey methodology as follows:

*Most of the [NASS] estimates are based on data collected from a sample of a given population. The samples are designed so that the chance, or probability, of including a particular operation in the sample is known before the survey is carried out. The sample data can be used to measure how much the survey estimates could differ from the population values. This measure of variability, due to selecting a sample rather than conducting a census is ... the sampling error.*

*The data from a probability-based sample can then be used to make precise inferences about the population. This survey technique has distinct advantages over a census; it takes less time, costs less, and can actually be more accurate because fewer errors are made in reporting and handling the smaller quantities of data. Also, the results of the survey stand alone; they do not depend on relationships to other sets of data, such as the Census of Agriculture.<sup>42</sup>*

Quick Stats provides reports on 29 crops that are insured under an Irrigated Practice code (Table 10). Harvested acreage is reported for all 29 crops, but not for all counties where the crops are produced commercially. NASS documents harvested acreage from both the census reports and estimates of harvested acreage based on analysis of survey results. NASS only publishes production and yield estimates in Quick Stats from their survey analyses. These values likely have more limited value to the insurance of Efficient and Limited Irrigation because of the errors associated with the sampling and analyses.

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<sup>42</sup> USDA, NASS, 2014, NASS Surveys: The Foundation of Estimates, [http://www.nass.usda.gov/Education\\_and\\_Outreach/Understanding\\_Statistics/Foundation\\_of\\_Estimates/Probability\\_Surveys/index.asp](http://www.nass.usda.gov/Education_and_Outreach/Understanding_Statistics/Foundation_of_Estimates/Probability_Surveys/index.asp), accessed May, 2014.

**Table 10. NASS Data on Irrigated Crops Available from the 2012 Census of Agriculture and Various NASS Surveys through the USDA NASS Quick Stats Tool**

Crop	Planted Acres	Harvested Acres	Yield	Production
Barley	Survey	Census and Survey	Survey	Survey
Buckwheat		Census		
Canola		Census and Survey		
Corn	Survey	Census and Survey	Survey	Survey
Cotton <sup>1</sup>	Survey	Census and Survey	Survey	Survey
Cultivated Wild Rice		Census		
Dry Beans <sup>2</sup>	Survey	Census and Survey	Survey	Survey
Dry Peas		Census and Survey		
Flue Cured Tobacco		Census and Survey	Survey	Survey
Forage Production		Census and Survey		
Grain Sorghum	Survey	Census and Survey	Survey	Survey
Millet <sup>3</sup>		Census and Survey		
Mint		Census and Survey		
Mustard		Census and Survey		
Oats	Survey	Census and Survey	Survey	Survey
Peanuts	Survey	Census and Survey	Survey	Survey
Popcorn		Census		
Potatoes	Survey	Census and Survey	Survey	Survey
Rice		Census and Survey	Survey	
Rye		Census and Survey		
Safflower		Census and Survey		
Sesame		Census		
Silage Sorghum		Census and Survey	Survey	Survey
Soybeans	Survey	Census and Survey	Survey	Survey
Sugar Beets		Census and Survey	Survey	
Sugarcane		Census and Survey	Survey	
Sunflowers		Census and Survey		
Sweet Potatoes		Census and Survey		
Wheat	Survey	Census and Survey	Survey	Survey

<sup>1</sup> Available for Pima Cotton, Irrigated and Upland Cotton, Irrigated

<sup>2</sup> Available for specific types only

<sup>3</sup> Proso Millet only

Source: The Contractor's Research Department after USDA, NASS 2012 Census of Agriculture and surveys accessed through Quick Stats, May, 2014.

NASS publishes production data for some crops at the state level in the census reports<sup>43</sup> and yield data are documented in the census reports for a number of crops and states as noted above. However, except for data on harvested acres, many of these data are not mined by the Quick Stats algorithms. Corn is by far the best documented crop in the dataset. The Contractor has extracted the data for acreage, production, and yield for irrigated corn for 2012. Tables 11 and 12 are included to illustrate the limits of these Quick Stats data.

<sup>43</sup> See, for example: USDA, NASS, 2014, 2012 Census Publications, <http://www.agcensus.usda.gov/Publications/2012/>, accessed May, 2014.

**Table 11. NASS Quick Stats Data on the Ten counties in the United States with the Largest Number of Planted Irrigated Acres in 2012 – Corn**

State	County	Planted Acres <sup>1</sup>	Harvested Acres <sup>2</sup>	Yield <sup>1</sup> bushels/acre	Production <sup>1</sup> bushels
Colorado	Yuma	223,000	178,203	205.4	41,700,000
Nebraska	Dawson	198,000	174,894	192.5	37,925,000
Nebraska	Custer	192,500	185,237	189.5	36,235,000
Nebraska	York	189,000	175,324	210.1	39,454,000
Nebraska	Hamilton	188,000	165,996	208.7	39,056,000
Nebraska	Holt	185,500	175,114	194.2	34,814,000
Nebraska	Hall	183,000	174,796	190.6	34,830,000
Nebraska	Lincoln	181,000	165,425	198.3	35,670,000
Nebraska	Buffalo	176,500	168,461	210.3	36,904,000
Nebraska	Antelope	171,000	143,184	196.4	33,529,000

<sup>1</sup> Survey<sup>2</sup> Census

Source: The Contractor's Research Department after USDA, NASS 2012 Census of Agriculture and surveys accessed through Quick Stats, May, 2014.

**Table 12. NASS Quick Stats Data on the Ten Counties in the United States with the Smallest Number of Planted Irrigated Acres in 2012 – Corn**

State	County	Planted Acres <sup>1</sup>	Harvested Acres <sup>2</sup>	Yield <sup>1</sup> bushels/acre	Production <sup>1</sup> bushels
Nebraska	Otoe	3,000	4,921	179.0	537,000
Kansas	Geary	2,700	2,020	168.8	422,000
Texas	Bexar	2,400	1,716	114.6	275,000
Colorado	Lincoln	2,200	1,676	143.9	259,000
Texas	Bee	2,200	1,539	76.2	167,600
Texas	Lamar	2,000	2,772	128.0	224,000
Kansas	Ottawa	1,700	1,600	146.7	220,000
Kansas	Marion	1,600	2,140	153.3	230,000
Kansas	Saline	1,300	486	150.0	180,000
Nebraska	Pawnee	1,000	3,127	171.0	171,000

<sup>1</sup> Survey<sup>2</sup> Census

Source: The Contractor's Research Department after USDA, NASS 2012 Census of Agriculture and surveys accessed through Quick Stats, May, 2014.

The Contractor notes first that the estimates for planted acres, yields, and production derived from the surveys are all rounded to address significance of the sample data used in the calculations. The Contractor is reminded by this rounding that these NASS figures are evidence-based estimates. Furthermore, limitation on reports for irrigated corn in some counties in both the Census of Agriculture (Appendix G, Table G1) and Quick Stats (Appendix G, Table G2), illustrates the challenges of using NASS Quick Stats survey data to address Efficient and Limited Irrigation even for a major commodity crop. The 2012 Census documents corn for grain irrigated acres harvested for 1,852 counties in 46 states. The Quick Stats Survey data for 2012 document corn for grain irrigated planted acreage in only 116 named counties and only 4 states. The Contractor has been asked to identify a simple approach not requiring frequent updating for all irrigated crops nationwide that are insured under a yield-based plan. With these disparities in reporting, the additional Quick Stats data on yield provide very limited useful information for addressing Efficient and Limited Irrigation as a construct for crop insurance.

Examination of the Quick Stats Survey data for peanuts, a specialty crop with substantial production, further illustrates the barrier to using Quick Stats data, or its underlying producer-level dataset, to develop an approach to support implementation of Efficient and Limited Irrigation procedures. The 2007 Census documents peanut production in 237 counties in 15 states (Appendix G, Table G3). The most recent surveys for peanuts (2007) document irrigated planted acreage, harvested acreage, production, and yield in only 4 named counties and only in Texas (Appendix G, Table G4).

### NASS FRIS

Over time, the U.S. government has collected substantially more data addressing on-farm irrigation. The 11<sup>th</sup> U.S. Census in 1890 included questions about agricultural practices, including Irrigation. In 1894, the Department of Interior Bureau of the Census issues a report on irrigated agriculture almost a thousand pages long.<sup>44</sup> The collection of agriculture statistics remained the purview of the Bureau of the Census until 1997. They conducted special quinquennial FRIS from 1979 through 1994. The Bureau of Census transferred responsibility for agricultural census activities to the USDA NASS in 1997. The 1998 FRIS was the first survey to collect and publish data for irrigation in each of the 50 States. Prior to that, NASS collected data for leading irrigation states.

The 2008 FRIS is the seventh survey devoted entirely to collecting on-farm irrigation data for the United States. For the first time, irrigation data for horticultural specialty operations with sales of \$10,000 or greater were included in the survey. The 2008 FRIS provides data that supplement the basic irrigation data collected from all farm and ranch operators in the 2007 Census of Agriculture. The summary of irrigation data collected in this survey provides the most complete and detailed profiles of irrigation in the United States. NASS focuses the data collection effort for FRIS to complement the census dataset and allow meaningful estimates of a wide range of parameters for U.S. irrigation. Almost 207,000 farms were irrigating in 2008, with almost 55 million acres irrigated using just more than 91 million acre feet of water.

FRIS reports on estimated yields for 16 irrigated crops and the estimated average amount of water applied to these crops at the state level (Table 13).<sup>45</sup> State-level data are more granular than the data that are normally used for crop insurance analyses.

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<sup>44</sup> Porter, R.P. and C.D. Wright, DOI, Bureau of the Census, 1894, Report on Agriculture by Irrigation in the Western Part of the United States, [http://www.agcensus.usda.gov/Publications/Historical\\_Publications/1890/1890a\\_v5-14.pdf](http://www.agcensus.usda.gov/Publications/Historical_Publications/1890/1890a_v5-14.pdf), accessed May, 2014.

<sup>45</sup> *Ibid.* Tables 27 and 28.

**Table 13. Irrigation Parameters by Crop for the United States  
for Crops with Yield Estimates**

Crop	Farms	Irrigated Acres Harvested	Average Yield / Acre	Average Acre-Feet Applied
Corn for grain or seed (bushels)	33,571	11,991,515	181	1.0
Soybeans for beans (bushels)	23,024	7,044,546	49	0.7
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage) (tons, dry)	48,315	6,187,983	4.5	2.4
Wheat for grain or seed (bushels)	16,265	4,107,464	75	1.4
All other hay (dry hay, greenchop, and silage) (tons, dry)	29,553	3,351,986	2.8	1.8
All cotton (lbs., lint)	6,612	3,123,664	1,103	1.3
Rice (cwt)	5,265	2,683,363	70	2.3
Corn for silage or greenchop (tons, green)	9,135	1,633,540	25	2.1
Sorghum for grain or seed (bushels)	4,118	1,042,392	77	0.9
Barley for grain or seed (bushels)	4,334	762,240	100	1.5
Peanuts for nuts (pounds)	2,535	540,577	4,187	1.0
Beans, Dry Edible (cwt)	2,849	431,329	24	1.4
Sugarbeets for sugar (tons)	1,590	382,267	30	2.6
Other small grains (oats, rye, etc.)	2,975	344,195		1.4
Tobacco, all types (pounds)	811	23,614	2,634	0.4
<b>Total United States</b>	<b>190,952</b>	<b>43,650,675</b>	<b>N/A</b>	<b>1.4<sup>1</sup></b>

<sup>1</sup> Acre-weighted average for these 15 crops and crop groupings.

Source: The Contractor's Research Department after USDA, NASS, 2009, 2007 Census of Agriculture: Farm and Ranch Irrigation Survey (2008).

For some crops, the number of farms irrigating changed dramatically between 2003 and 2008 (Table 14). These changes reflect producer decisions about which crops to plant and which crops to irrigate. They also capture the growth of larger farms and the disappearance of smaller farms. Furthermore, they reflect changes in technologies that allow production without irrigation (e.g., drought tolerant varieties and changes in tillage). Although the total number of farms irrigating for these 22 crops/crop groupings increased by 1 percent, the total number of farms irrigating in the United States decreased 1.6 percent from 2003 to 2008.

**Table 14. Percent Change between 2003 and 2008 by Crop  
in the Numbers of U.S. Farms Irrigating**

Crop	Farms	Crop	Farms
Wheat for grain or seed	20.3	Corn for grain or seed	4.2
Peanuts for nuts	19.9	Land in orchards, vineyards, and nut trees	-1.1
Potatoes	19.2	Tomatoes	-2.7
All berries	13.3	Barley for grain or seed	-6.8
Soybeans for beans	9.3	Corn for silage or greenchop	-9.7
All other hay	7.7	Rice	-23.0
Lettuce and romaine	7.4	Cotton - Pressure Systems	-23.3
Sweet corn	7.1	Sorghum for grain or seed	-32.9
Land in vegetables	5.9	Sugarbeets for sugar	-36.3
Beans, Dry Edible	5.6	Tobacco, all types	-46.2
Other small grains	5.3	Cotton - Low-flow Systems	-48.3
Alfalfa and alfalfa mixtures	4.6	<b>Total United States</b>	<b>1.0</b>

Source: The Contractor's Research Department after USDA, NASS, 2009, 2007 Census of Agriculture: Farm and Ranch Irrigation Survey (2008).

NASS estimates the total farmland acreage irrigated, including pastures, increased by 4.6 percent between 2003 and 2008. The total cropland acreage irrigated for 13 named crops/crop groupings increased by 7.4 percent between 2003 and 2008, with changes in acreage ranging from an increase of almost 32 percent for soybeans to a decrease of about the same amount for sugar beets and tobacco. Once again, these changes reflect producer decisions on which crops to plant and which crops to irrigate.

NASS reported in the FRIS that about 75,000 farms made changes to reduce their energy costs or to conserve water between 2003 and 2008. Almost 60 percent of these respondents indicated they used less water. Consequently, approximately a fifth of the farms irrigating in 2008 had practiced Efficient Irrigation as a result of the changes made to reduce their energy costs or to conserve water. However, the reader should remember the FRIS is only conducted every five years. Furthermore, because it is a survey and because of its frequency, the FRIS provides at best a snapshot of U.S. irrigation practices.

Perhaps the most interesting data in the FRIS from the perspective of addressing Efficient and Limited irrigation for crop insurance are the changes made for 13 named crops/crop groupings between 2003 and 2008 in the amount of irrigation water applied and the resultant yields achieved. For eight crops, the average irrigation water applied decreased, while the average yield only decreased for one of these eight crops. That crop was wheat, whose percent decrease in yield was much less than the percent decrease in irrigation water applied. Only hay (of all types) showed poorer yields although additional irrigation water was applied. Such a pattern might be expected if the hay were grown primarily in areas with adequate precipitation in 2003, but under drought conditions in 2008 (Table 15). The distribution of hay production in the United States and the drought conditions across the nation those two years support this hypothesis.

**Table 15. Percent Change in U.S. Irrigated Acres, Irrigation Water Applied per Acre, and Yields between 2003 and 2008 by Crop**

Crop	Irrigated Acres Harvested	Average Acre-Feet Applied	Average Yield
Corn for grain or seed (bushels)	23.0	-16.7	1.7
Soybeans for beans (bushels)	31.8	-12.5	2.1
Beans, Dry Edible (cwt)	-5.9	-12.5	4.3
Sorghum for grain or seed (bushels)	-6.0	-10.0	2.7
All cotton (lbs, lint)	-23.3	-7.1	10.9
Wheat for grain or seed (bushels)	25.7	-6.7	-1.3
Corn for silage or greenchop (tons, green)	24.5	-4.5	0.0
Sugarbeets for sugar	-31.9	-3.7	3.4
Barley for grain or seed (bushels)	-23.1	0.0	4.2
Rice (cwt)	-10.4	0.0	1.4
Tobacco, all types (pounds)	-32.6	0.0	9.2
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage) (tons, dry)	-0.3	4.3	-10.0
All other hay (dry hay, greenchop, and silage) (tons, dry)	3.3	5.9	0.0
Total United States	7.4	-3.6	N/A

Source: The Contractor's Research Department after USDA, NASS, 2009, 2007 Census of Agriculture: Farm and Ranch Irrigation Survey (2008).

### FRIS Unpublished Data<sup>46</sup>

The Contractor also assessed respondent-level (unpublished) data provided in response to the FRIS at the NASS Data Lab. The target population for the 2008 FRIS was all farms in the United States irrigating in the reference year 2008. Reporting irrigated acreage in response to the Census in 2007 was required to be considered among all farms in the United States irrigating in the reference year 2008. This includes some operations in the target population who irrigated in 2007 but not in 2008. NASS corrects for this sampling error. It also excludes operations which did not report irrigation in the Census. These fall mainly into three categories: Those who irrigated in 2008 who did not irrigate in 2007; those who did not respond to the Census by choice; and those whose operations are so small that they are not included in the Census target population. All three categories likely include some limited resource producers. There is no mechanism to correct for this sampling error.

NASS identified 217,604 records in the 2007 Census having irrigation activity on their farm or ranch. The population was divided into those with irrigated horticultural production and those without. NASS selected a final sample for the FRIS of 23,089 operations. NASS expected a final response rate of 70 percent, taking the expected responses to about 7.5 percent of the target population. The responses are then handled to eliminate forms that have not addressed queries appropriately (e.g., misinterpreted questions or answered inconsistently between related questions). The survey instrument is available for review as Appendix B on pages B-11 through B-26 of the FRIS summary report.<sup>47</sup> The final FRIS unpublished data included 14,503 records (reports from producers), with more than 100 attributes reported for each record.

The Contractor was excited by the possibility that these data could support quantitative models for addressing benchmarks for Efficient Irrigation and adjustments to Approved Yield for Limited Irrigation. The FRIS Survey Overview notes, “FRIS is the most comprehensive source of information on irrigation water use throughout the agricultural industry and results are reported not only on the national and state levels, but by water resources regions.”<sup>48,49</sup> The survey analysis accounts for 97.1 percent of all land reported as irrigated in the 2007 Census of Agriculture. The survey parameters address the crucial irrigation characteristics associated with that land. However, the Contractor notes the association with the land is the focus, with association with crops receiving less attention.

The confidentiality requirement for NASS survey data require that all unpublished data research be conducted in a secure USDA NASS data facility. The Contractor sent two analysts to the NASS Data Lab in Washington, D.C. The first day of work was spent gaining familiarity with the database structure and its relationship to the survey instrument. Thereafter, the analysts

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<sup>46</sup> The Contractor would like to thank Robert Hunt and Jim Burt of the USDA NASS Data Lab for their warm welcome and their efforts in preparing the FRIS data for the Contractor’s queries.

<sup>47</sup> USDA, NASS, 2010, 2007 Census of Agriculture: Farm and Ranch Irrigation Survey (2008), [http://www.agcensus.usda.gov/Publications/2007/Online\\_Highlights/Farm\\_and\\_Ranch\\_Irrigation\\_Survey/fris08.pdf](http://www.agcensus.usda.gov/Publications/2007/Online_Highlights/Farm_and_Ranch_Irrigation_Survey/fris08.pdf), accessed May, 2014.

<sup>48</sup> The 20 NASS defined Water Resources Regions each include at least parts of multiple states and in most cases, multiple states. They reflect primarily surface water resources.

<sup>49</sup> USDA, NASS, 2010, 2007 Census of Agriculture: Farm and Ranch Irrigation Survey (2008) fact sheet, [http://www.agcensus.usda.gov/Publications/2007/Online\\_Highlights/Fact\\_Sheets/Practices/fris.pdf](http://www.agcensus.usda.gov/Publications/2007/Online_Highlights/Fact_Sheets/Practices/fris.pdf), accessed May, 2014.

mined the data to understand the extent to which these data would inform an analysis of irrigation activities at the state and county levels.

The Contractor's initial analysis focused on obtaining an understanding of the relative proportion of the 14,503 records which could be used to assess county-level irrigation practices. Since Efficient and Limited Irrigation address changes in management, the Contractor sought to identify counties that had at least 5 respondents in 2003 (the previous FRIS) and 2008. The Contractor was surprised that only 351 of the 3,144 counties (or county-like entities) in the United States had data that could support irrigation comparisons between surveys at the county level (Table 16). Even considering that only about two thirds of these counties and county-like entities have insured irrigated production, the utility of the FRIS unpublished data in addressing Efficient and/or Limited Irrigation became a concern.

**Table 16. Number of Counties with 10 or More 2008 FRIS Respondents, by State**

State	Number of Counties with 10 or More Respondents	State	Number of Counties with 10 or More Respondents
Alabama	18	Nebraska	38
Alaska	1	Nevada	9
Arizona	8	New Hampshire	2
Arkansas	25	New Jersey	8
California	23	New Mexico	17
Colorado	22	New York	6
Connecticut	4	North Carolina	5
Delaware	3	North Dakota	16
Florida	18	Ohio	2
Georgia	36	Oklahoma	15
Hawaii	4	Oregon	17
Idaho	25	Pennsylvania	10
Illinois	19	Rhode Island	2
Indiana	18	South Carolina	11
Iowa	9	South Dakota	17
Kansas	28	Tennessee	14
Kentucky	9	Texas	35
Louisiana	16	Utah	18
Maine	1	Vermont	0
Maryland	9	Virginia	5
Massachusetts	2	Washington	12
Michigan	22	West Virginia	1
Minnesota	20	Wisconsin	22
Mississippi	17	Wyoming	16
Missouri	13	Total	698
Montana	30		

Source: The Contractor's Research Department after USDA, NASS FRIS unpublished data.

The Contractor then examined the potential for the FRIS data to be of use at the crop, rather than the county level. If enough counties could be mined for a crop, a crop specific pattern of irrigation might be discerned. So for example, if corn irrigation and precipitation together generally resulted in 30 acre inches of water being available to the corn crop, then the mining of weather data could be used as a proxy. The Contractor sought to identify the number of counties



that had at least 10 respondents in 2003 (the previous FRIS) and 2008 for each of the 16 named crops in the survey (Table 17).

**Table 17. Number of Counties with 10 2008 FRIS Respondents, by Crop**

Crop	Number of Counties with 10 or More Respondents
Corn for Grain	160
Alfalfa	106
Soybeans	104
Wheat	69
Rice	41
Cotton	38
Corn Silage	28
Barley	18
Potatoes	14
Sweet Corn	13
Sorghum	9
Peanuts	7
Sugar Beets	7
Beans	5
Lettuce	4
Tomatoes	4
Tobacco	1

Source: The Contractor's Research Department after USDA,  
NASS FRIS unpublished data.

There are some crop/county combinations that have especially rich data. To illustrate the limitations of these data-rich counties to be useful in addressing Efficient and Limited Irrigation, all county/crop combinations with more than 50 respondents are provided in Table 18. The data for all county/crop combinations are provided in Appendix G, Table G5.

**Table 18. Crop County Combinations with More than 50 Respondents**

State	County	Crop	Number of Respondents
Washington	Grant	Wheat	95
Delaware	Sussex	Corn for Grain	82
Mississippi	Bolivar	Soybeans	82
Missouri	New Madrid	Soybeans	80
Illinois	Mason	Corn for Grain	80
Missouri	Stoddard	Soybeans	79
Michigan	St Joseph	Corn for Grain	69
Missouri	New Madrid	Corn for Grain	68
Delaware	Sussex	Soybeans	68
Missouri	Stoddard	Corn for Grain	67
Mississippi	Washington	Soybeans	64
Mississippi	Bolivar	Rice	61
Iowa	Monona	Corn for Grain	61
Michigan	St Joseph	Soybeans	60
Iowa	Monona	Soybeans	60
Nevada	Elko	Alfalfa	59
Illinois	Mason	Soybeans	57
Mississippi	Sunflower	Soybeans	57
Mississippi	Leflore	Soybeans	56
Missouri	New Madrid	Peanuts	53
Washington	Grant	Corn for Grain	52
Louisiana	Acadia	Rice	52
Oklahoma	Texas	Wheat	51
Minnesota	Dakota	Corn for Grain	50

Source: The Contractor's Research Department after USDA, NASS FRIS unpublished data.

To understand if there was a possibility of bridging between precipitation data and amount of irrigation water applied, the Contractor examined the correlation between the amount of water applied to irrigated crops per acre in a county from the FRIS unpublished data and the natural precipitation falling on the county (Table 19). The Contractor first looked at correlations at the county level and then at the Crop Reporting District (CRD) level. As these correlations showed no discernible pattern, the Contractor continued to an even coarser granularity. Correlation coefficients are reported in Table 19 at the state level. The reader should note the wide range of both positive and negative correlations. In conversations, Texas producers express an opinion that the positive correlations might reflect states with primarily surface water supplies, the negative correlations might represent states with primarily ground water supplies, and the weak correlations might represent states with a wide mix of water supplies. This is an interesting hypothesis, but not relevant to the current analysis of data that might be of use to an insurance approach to address Efficient and Limited Irrigation.

**Table 19. Correlations of the Amount of Irrigation Water used for Irrigation in a County and the Amount of Growing Season Precipitation: Top 25 Counties<sup>1</sup>**

State	Correlation Coefficient	State	Correlation Coefficient
South Dakota	-0.8252	Wisconsin	-0.2773
Iowa	-0.8045	Michigan	-0.2755
Illinois	-0.7261	West Virginia	-0.2705
Washington	-0.646	Nevada	0.269
Montana	-0.5581	Washington	-0.2468
Maryland	0.5466	Indiana	0.2404
Oklahoma	0.4949	Utah	0.2299
Colorado	-0.4175	Georgia	-0.2235
Arizona	0.391	California	0.1743
Louisiana	0.3887	Wisconsin	-0.1705
New Mexico	0.3689	Wyoming	-0.1573
Alabama	0.3558	Oregon	-0.1547
Virginia	-0.3337		

<sup>1</sup>The ranking was established by absolute value of the correlation but the correlation is reported with its sign.  
 Source: The Contractor's Research Department after USDA, NASS FRIS unpublished data.

The Contractor used a similar approach to examine the correlation between the amount of water applied to irrigated crops per acre and the natural precipitation falling on the crops (Table 20).

**Table 20. Correlations of the Amount of Irrigation Water used for a Crop and the Amount of Growing Season Precipitation: Top 10 Crops<sup>2</sup>**

Crop	Correlation Coefficient
Tobacco	-0.621
Sweet Corn	-0.396
Sugar Beets	0.388
Lettuce	-0.335
Tomatoes	-0.308
Corn for Grain	-0.297
Sorghum	0.272
All Berries	0.218
Beans	-0.191
Potatoes	-0.166

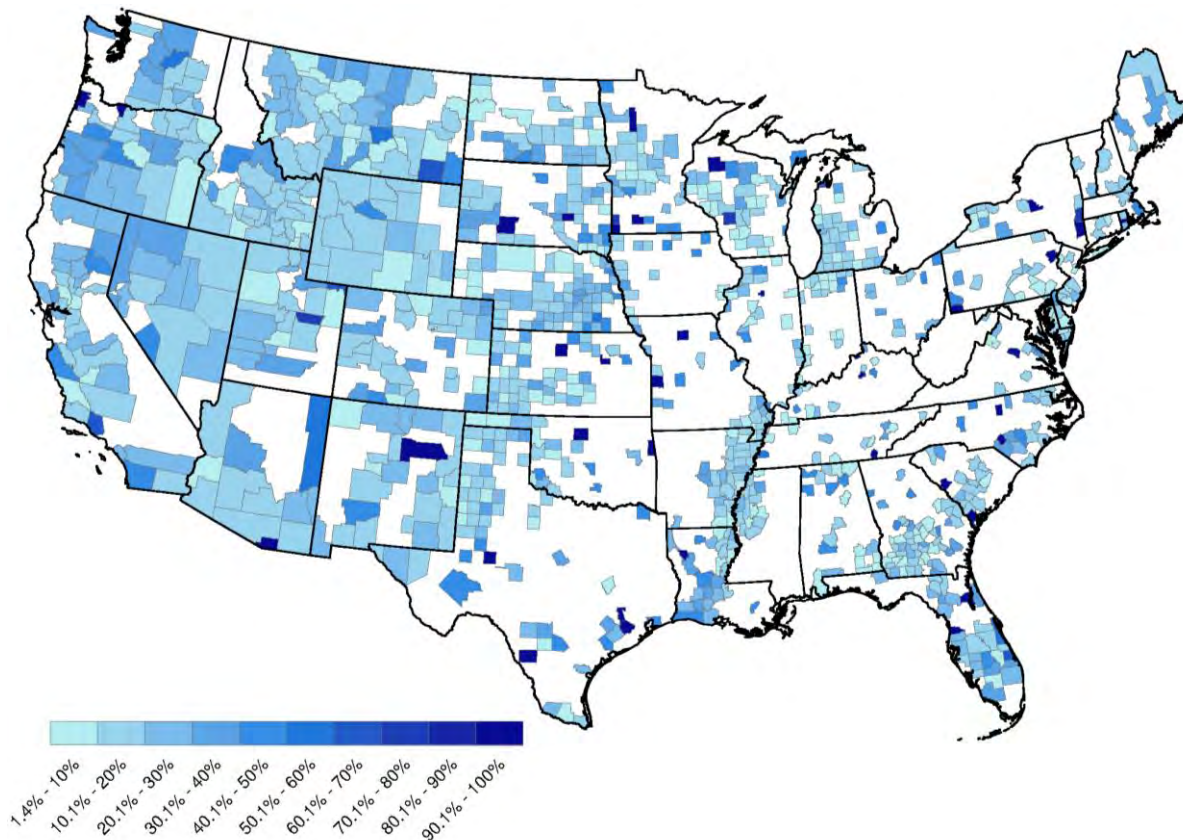
<sup>2</sup>The ranking was established by absolute value of the correlation but the correlation is reported with its sign.

Source: The Contractor's Research Department after USDA, NASS FRIS unpublished data.

These data revealed that there is no strong correlation between the amount of precipitation and the amount of irrigation water applied. It appears some producers apply more irrigation water per acre when there is more precipitation, especially in areas where surface waters are the primary source of water for irrigation. It appears some producers apply less irrigation water per acre when there is more precipitation, especially in areas where ground waters are the primary source of water for irrigation. Between 2003 and 2008, there were negligible changes in the

amounts of water applied per acre nationwide.<sup>50</sup> Nonetheless, Table 15 of this report shows evidence of the effects of Efficient Irrigation. The FRIS provides the opportunity to map the distribution of those efforts by county (Figure 3).

**Figure 3. Map of the Proportion of the Respondents in each County Indicating Implementation of Improvements in their Irrigation Systems Based on Question 1 of Section 18 of the FRIS for Operations without Horticultural Production<sup>51</sup>**



Source: The Contractor's Research Department after USDA, NASS FRIS unpublished data.

The FRIS also provides useful information about sources of irrigation information producers use (Table 21). Knowledge of these sources and the distribution of their use by producers will be particularly useful in drafting underwriting language if RMA implements Efficient and/or Limited Irrigation. Data to establish these sources are reported at the state level in the FRIS and may be mined at the county level from FRIS unpublished data for many major agricultural counties.

<sup>50</sup> USDA, NASS, 2010, 2007 Census of Agriculture: Farm and Ranch Irrigation Survey (2008), Table 8, [http://www.agcensus.usda.gov/Publications/2007/Online\\_Highlights/Farm\\_and\\_Ranch\\_Irrigation\\_Survey/fris08.pdf](http://www.agcensus.usda.gov/Publications/2007/Online_Highlights/Farm_and_Ranch_Irrigation_Survey/fris08.pdf), accessed May, 2014.

<sup>51</sup> This is a map of the Proportion of the Respondents in each County Indicating Implementation of Improvements in their Irrigation Systems Based on Question 1 of Section 18 of the FRIS for Operations without Horticultural Production and the table underlying the map is available on the RMA website.

**Table 21. Proportion of the Respondents Using Specified Sources of Irrigation Information**

Source	Proportion (%)
Extension Agent/University Specialist	36
Paid Crop Consultant/Irrigation Specialist	23
Irrigation Equipment Dealer	28
Irrigation District Employee	15
Government Specialist	17
Media Reports	13
Neighbor	38
Internet, etc.	12

Source: The Contractor's Research Department after USDA, NASS, 2010, FRIS Table 42.

If the FRIS were a census, rather than a survey, the unpublished data would provide a basis for better analysis of the effects of application of different amounts of irrigation water. A census attempts to obtain data from the entire target population, while the survey samples from the population. Furthermore, if this hypothetical irrigation census were offered every year or every other year, the data time series would be more useful in analyzing the impacts of changes in irrigation amounts and the effects of weather on producer decisions about irrigation. Since the data for precipitation can be known at the county level, and if the FRIS were an annual census, it would then be possible to know the average total water available to a crop (in acre inches). This would involve nothing more difficult than adding the average precipitation at the county level to the average irrigation water applied at the county level. Regrettably, the survey nature of the FRIS and the interval between surveys severely limits the utility of the FRIS unpublished data in addressing Efficient and Limited Irrigation. Nonetheless, data for the 2013 FRIS survey should be available sometime in October 2014. It seems likely the 2013 FRIS report will document an even greater effort to achieve efficient irrigation.

### **RMA Unpublished Data**

The Contractor reviewed and analyzed the RMA insurance experience data at the level of the insured to assess the potential contributions of these data to developing recommendations for modifications to policy and procedure. The focus of this research was on Type P11 (acreage reports), Type P15 (yield reports), and Type P21 (production loss reports).<sup>52</sup> While the RMA data include information about the number and location of insured irrigated acres as well as reports of irrigated yields, they contain no information about the amount of irrigation water applied. RMA data are the only data available to identify the states, counties, crops, and acreage of the **insured** irrigated crops. The research on RMA data focused on crop years 2003 and 2008 (the crop years reported in the most recent FRIS reports), 2007 (the crop year reported in the most recent Census when the research was begun),<sup>53</sup> and 2012 (the most recent crop year with a relatively complete insurance experience record). These data were selected because they facilitate analysis in context with the NASS census data and other available datasets. The RMA data show about 90 crops insured as irrigated, with slight variations in that number from year to year. Almost every state has at least one insured irrigated crop each year (Appendix H).

<sup>52</sup> The Contractor includes records in the predecessor Type 11, 15, and 21 records when using this newer record naming system.

<sup>53</sup> As noted earlier, the 2012 Census of Agriculture U.S. Summary and State Data and State and County Data Online Reports were released on May 2, 2014. The Contractor reviewed these reports to verify that the conclusions reached concerning the utility of the Census of Agriculture data were not changed.

## State Survey

The Contractor reviewed state irrigation surveys to see if they might provide useful information for developing modifications to crop insurance policy and procedure regarding Efficient and Limited Irrigation. The Contractor was able to identify surveys on irrigation from 13 states. (Table 22, Appendix I). These state surveys are not particularly useful because of the infrequency of data collection, limited sample size, and substantially different data collection methods between states and between years within a state. Most of the data are focused on extraction of water from reservoirs, rivers, and aquifers. These surveys focus on hydrology rather than on agricultural production.

**Table 22. State Irrigation Surveys and the Years for which Some Element of Irrigation is Documented**

State	Survey Years		
Arkansas	2009	2005	
California	2010	2010	
Colorado	2013		
Georgia	2008		
Illinois	1991		
Kansas	2012	2011	
Kentucky	1999		
Michigan	2006		
Missouri	2004	2000	1998
Nebraska	2008		
South Carolina	2000		
Texas	2009	2000	1994

Source: The Contractor's Research Department.

## Research Reports

The published academic research data are useful primarily in confirming the assumption that the amount of water available for evapotranspiration is correlated to the yield as long as no other factors are limiting production. Deficit irrigation is defined in the academic literature as irrigation that supplies less than the water required for full evapotranspiration. In this respect, for the plant physiologist and agronomist, deficit irrigation is an equivalent construct in relation to full irrigation as Limited Irrigation is to the amount of irrigation water applied to achieve the Approved Yield. However, they are in no way synonymous, since the Irrigated Practice does not require full irrigation. Full irrigation should not be used as a term defining the amount of water required to produce the Approved Yield. The analysis of scientific research in search of insight about Limited Irrigation is confounded by the scientists emphasis on the only limiting factor being the irrigation water applied. That is certainly the case for the initial reductions in applied irrigation water if the producer is expecting to get a production potential not less than the Approved Yield. However, if the expectation is a lesser amount of production, and if the producer reduces other inputs, then one of those other inputs could become limiting.

The Contractor did not attempt to duplicate the work commissioned by the RMA from the University of Nebraska regarding yields from plants whose productivity is limited by the available water supply.<sup>54</sup> The essential conclusion from this work is that, over some reasonable

<sup>54</sup> Procedures for Adjusting APH when Implementing a Deficit Irrigation Insurance Practice.

range of amounts of water applied for irrigation, when water is limiting, the yield for corn and soybean in three states increases linearly with the increase in available water. While this has not been documented for every crop, the partitioning of water by the crop plant between that required for vegetative growth and that required for reproductive growth makes it generally reasonable to accept the linearity of the relationship. The Contractor identified no primary research reports or reviews that examined time series effects of Efficient, Limited or deficit irrigation.

## SECTION VII. IRRIGATION PRODUCTION MANAGEMENT PRACTICES

Producer production decisions are driven by many factors. Producers consider input costs such as the costs of seed, fertilizer, energy, rent, and water used for irrigation. They also consider revenue factors such as which crop is likely to bring the highest net revenue per acre at harvest and the opportunity costs of storing production. Many producers make their decision regarding which crop to plant based primarily on personal histories and experiences.

Producers cannot have perfect knowledge about the availability of water for production prior to planting. They cannot know how much natural precipitation will fall. Consequently, they cannot know how much water they will need to apply. Producers dependent on surface water for their irrigation water supply cannot know the rate at which snowpack will melt. Adding to this uncertainty is the recent trend of state and local governmental entities making determinations about available water for irrigation at the legislative level. These administrative actions may not come prior to the planting date. These statements are not intended to imply that producers never know when water available for crop production may be limited. Some limitations can be known in advance, but the nature of information available and its timing can be expected to vary widely.

Producers in many states have been proactively seeking ways to improve or at least maintain their yields using techniques for irrigation that require less water applied to each irrigated acre. In those states where “banking” water is offered, some producers are using Efficient Irrigation to allow them to set aside a portion of their water allocation for future use. In other states, implementing the Efficient Irrigation techniques identified below has allowed an increase in the acreage managed under irrigation, an ability to address more severe natural precipitation shortfalls, a way to decrease input costs, or a way to deal with the actions of administrative bodies which control the amount of water available for irrigation.

From an economic perspective, the potential for emergence of market-driven allocation of water, whether it be in the form of salable allotments, credits for reduced application, or other potential market-based incentives for investment in improved irrigation techniques, can be expected to have positive impacts on water usage overall. The implications on crop insurance, however, are not obvious. Some growers may indeed realize increases in expected yield or reductions in variability (both of which would contribute to reduced losses and therefore rates) as a result of increased investment in irrigation technologies. Others may change their crop mix or find alternative markets for the available water, with unpredictable results.

### VII.A. Efficient Irrigation Techniques

The Contractor learned of some of these techniques through input during the listening sessions. The Contractor also contacted extension specialists in each state to discuss techniques being used by producers to apply less water to a crop while maintaining yields. It became apparent that while producers are using various means to address limitations in water availability, in many cases they are not using a single technique. Based on input from extension specialists and producers, the Contractor developed descriptions of 20 techniques currently used by producers to limit the amount of irrigation water required to maintain yields and 2 techniques that may result in Efficient Irrigation. The descriptions follow.



## Changing the Irrigation Method

The United States Geological Survey (USGS) defines 9 primary methods to control the “application of water for agricultural purposes through manmade systems to supply water requirements not satisfied by rainfall.”<sup>55</sup> These methods, in general order of increasing water use efficiency, are:

- Gravity: Irrigation in which the water is not pumped but flows and is distributed by gravity.
- Flood: The application of irrigation water where the entire surface of the soil is covered by ponded water.
- Furrow: A partial surface flooding method of irrigation normally used with clean-tilled crops where water is applied in furrows or rows of sufficient capacity to contain the designed irrigation system.
- Surface: Irrigation where the soil surface is used as a conduit, as in furrow and border irrigation as opposed to sprinkler irrigation or sub-irrigation.
- Traveling Gun: Sprinkler irrigation system consisting of a single large nozzle that rotates and is self-propelled. The name refers to the fact that the base is on wheels and can be moved by the irrigator or affixed to a guide wire.
- Center-Pivot: Automated sprinkler irrigation achieved by automatically rotating the sprinkler pipe or boom, supplying water to the sprinkler heads or nozzles, as a radius from the center of the field to be irrigated. Water is delivered to the center or pivot point of the system. The pipe is supported above the crop by towers at fixed spacings and propelled by pneumatic, mechanical, hydraulic, or electric power on wheels or skids in fixed circular paths at uniform angular speeds. Water is applied at a uniform rate by progressive increase of nozzle size from the pivot to the end of the line. The depth of water applied is determined by the rate of travel of the system. Single units are ordinarily about 1,250 to 1,300 feet long and irrigate about a 130-acre circular area.
- Drip: A planned irrigation system in which water is applied directly to the Root Zone of plants by means of applicators (orifices, emitters, porous tubing, perforated pipe, etc.) operated under low pressure with the applicators being placed either on or below the surface of the ground.
- Sprinkler: A planned irrigation system in which water is applied by means of perforated pipes or nozzles operated under pressure so as to form a spray pattern.
- Sub-irrigation: Applying irrigation water below the ground surface either by raising the water table within or near the root zone or by using a buried perforated or porous pipe system that discharges directly into the root zone.

The USGS includes in their list, two methods of control that affect the amount of water used, but not the efficiency of the irrigation.

- Rotation: A system by which irrigators receive an allotted quantity of water, not a continuous rate, but at stated intervals.
- Supplemental: Irrigation to ensure increased crop production in areas where rainfall normally supplies most of the moisture needed.<sup>56</sup>

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<sup>55</sup> <https://water.usgs.gov/edu/irquicklook.html>

<sup>56</sup> *Ibid*

Switching to a more sophisticated distribution technique generally results in Efficient Irrigation. However, producers consider the capital costs when changing their irrigation approach. For example, when changing from flood irrigation to center pivot, the producer exchanges the cost of labor for managing the distribution of the water for the cost of machinery to distribute the water. The producer must decide if the opportunity for greater yields under the pivot irrigation system and the lower labor costs will, over time, offset the substantial costs of machinery and power to operate the center pivot system. The Contractor heard substantial testimony about producers realizing greater yields with less irrigation water following a change to a more efficient irrigation method. In short, the producers used less water with a more modern irrigation method and achieved larger yields than their Approved Yield. However, the data supporting this testimony are anecdotal or based on very limited field trials.

### **Computerizing Irrigation**

The cost of irrigation is substantial. Inefficient use of irrigation can destroy a farming business. Since the onset of personal computers in the early 1970s, producers have been using personal computer applications to monitor irrigation and schedule its timing. Agricultural specialists have developed tools for use by producers to help them get the most value from irrigation water. These tools range from simple spreadsheets to interactive applications for smart phones. Sophisticated computerized scheduling of irrigation can use a wide range of inputs including weather history, average historical evapotranspiration rates for the specific crop being irrigated, heat units, humidity levels, soil moisture monitoring devices, etc. The outputs are highly customized irrigation schedules. Furthermore, most recently-installed mechanical irrigation systems support wireless control of the machinery. Therefore, a producer can set the irrigation schedule and let a computer manage the plan with minimal oversight.

Some state regulatory agencies have been given the authority to monitor and even take control of these computerized irrigation systems. In Nebraska, the Natural Resources Districts have the authority and ability to turn off active pivot irrigation systems. In Colorado, state water resources personnel operate the opening and closing of irrigation canal gates from computers in their offices, thereby effectively managing when and the quantity of water to which a producer has access during the growing season.

### **Using an Automated Variable Rate Irrigation Systems**

Traditional pivot irrigation systems water the covered area using a uniform water application rate. Due to topography and soil type differences within the field, a uniform application of water to an entire field may leave some areas of the field too dry while inundating other areas.<sup>57</sup> This leads to inefficiencies in water use and reduced yields in parts of the field. Variable rate irrigation systems address these inefficiencies. Variable rate irrigation systems use technology, including producer set control modules, to adjust water application rates based on the soil type, topography of the field, and individual crop water requirements. The variable rate irrigation system adjusts, at the level of individual sprinkler heads, the amount of water being applied to different portions of a field. Correctly engineered, this system ensures crops receive the appropriate amount of water for production while limiting the amount of water to only that amount necessary for that crop, soil type, and soil moisture level. An automated variable rate

<sup>57</sup> <http://edis.ifas.ufl.edu/pdffiles/AE/AE49000.pdf>

irrigation system may also enable a producer to practice Efficient Irrigation by reducing the inefficiencies inherent in the ability of a traditional pivot irrigation system to address microclimate variable.

### **Limiting Cultivation**

Cultivation is “loosening and breaking up (tilling) of the soil. The soil around existing plants is cultivated (by hand using a hoe, or by machine using a cultivator) to destroy weeds and promote growth by increasing soil aeration and water infiltration. Soil being prepared for the planting of a crop is cultivated by a harrow or plow.”<sup>58</sup> In the context of irrigation, limiting cultivation (the number of times the soil is mechanically disturbed by the producer) decreases the loss of soil water to evaporation. The University of Nebraska identifies six primary tillage approaches: Plow, Chisel, Disk, Ridge Plant, Strip-till, and No-till.<sup>59</sup> Plow, Chisel and Disk tillage result in relatively high soil moisture losses.<sup>60</sup> In Ridge Plant, Strip-till, and No-till systems, the number of times the soil is disturbed and the amount of disturbance decreases and the soil moisture retention increases. Soil type and slope play a substantial role when a producer chooses a tillage system. However, many extension experts indicated the producers in their state are more frequently choosing a tillage system which allows them to disturb the soil less frequently, thereby increasing the soil moisture retention. The Contractor received substantial testimony about producers limiting cultivation in an effort to improve soil water retention. No till and limited tillage systems have been adopted by producers practicing Efficient Irrigation.

### **Tiling**

Tiling was originally used to drain soil for industrial and agricultural uses. Substantial portions of Midwestern agricultural land from Ohio to Minnesota and from Michigan to Missouri are drained by tiles. Producers in North Dakota are currently tiling fields to control runoff and to capture that run-off for later irrigation. Furthermore, the tile may be used as a conduit for sub-irrigating the crop, thereby reducing evaporation of the soil water. By capture, storage, and sub-irrigation, producers enhance the efficiency of the irrigation process, reducing the amount of surface or ground water that is required for maintaining yields.

### **Using Soil Moisture Monitors**

Soil moisture monitors can be used to assess many parameters regarding soil moisture. The most common are overall soil moisture, changing soil moisture status, and the “wetting front” location as water moves down through the root zone. Some monitors require manual reading and recording of information while others are connected to data recording devices. Soil moisture monitors which have been integrated into the irrigation schedule enable producers to selectively target when and where they use their water allocation for best resource allocation.<sup>61</sup> Soil probes can be used by a producer to collect small soil samples from multiple locations in the field. The soil characteristics can be used to estimate the samples’ moisture based on physical characteristics (e.g., compaction, friability). Soil water sensors can measure soil moisture using water tension, electrical resistance, or soil capacitance to estimate actual available water in the

<sup>58</sup> <http://www.merriam-webster.com/dictionary/cultivation>

<sup>59</sup> <http://cropwatch.unl.edu/tillage>

<sup>60</sup> <https://cropwatch.unl.edu/tillage/advdissadv>

<sup>61</sup> <http://www.growingproduce.com/uncategorized/soil-moisture-based-irrigation-scheduling/>

soil profile. A tensiometer uses a vacuum pressure gauge placed into the soil at a desired depth (usually within with the root zone) to register the drying of the soil. “Electrical resistance sensors consist of a formed block ... that contains a water absorption material like sand or gypsum in which electrodes to measure the electrical conductivity of the solution are embedded. Electrical resistance between the electrodes varies with the soil water content, and this has been related to soil water tension.”<sup>62</sup> Capacitance sensors estimate volumetric water content in the soil. Sensors that are left in the field for the entire growing season generally monitor soil water status in annual crops better than those monitors that are placed and removed each time a measurement is taken.<sup>63</sup> The additional information available from soil moisture meters allows the producer to limit the irrigation to the most appropriate times and control the amount of irrigation so as to not overwater.

### **Using Natural Precipitation Schedules**

The Contractor received input from extension specialists about irrigation efficiencies being realized by timing of planting so peak water requirements of the crop are better coordinated with peak periods of natural precipitation. This is essentially the technique used for crops in developing countries with monsoon and dry periods. Very few agricultural areas in the United States have a monsoon/dry period pattern. Even fewer have growing season temperatures that would support substantial changes in planting dates. However, when an insured can document successful use of this strategy, it should be recognized as Efficient Irrigation as defined for the crop insurance.

### **Using Evapotranspiration Schedules**

Estimation of evapotranspiration rates is important in planning irrigation schemes.<sup>64</sup> In many states, extension specialists report producers using simple evapotranspiration schedules to schedule irrigation and determine the amount of irrigation water required for their fields. For most crops in most areas, most of the irrigation water applied to the crop ends up in the atmosphere through evapotranspiration. There are many models used to estimate evapotranspiration rates in row crops. In general, evapotranspiration rates differ during the various growth stages of a crop. Most moisture loss in early stages of production is from evaporation from the soil. As the crop matures and more of the ground is shaded by the leaves of the crop, most moisture loss is from transpiration of the plants. Extension specialists in major agricultural states have been educating producers about the benefits of understanding evapotranspiration rates and using that understanding to achieve Efficient Irrigation.

### **Using Crop Water-use Calculators**

More sophisticated evapotranspiration models are incorporated into crop water-use calculators. These tools are primarily developed by extension offices. The calculators indicate when a crop needs water and how much is needed based on the growth stages of the crop. Water application estimates used in the calculators may be based on a proxy crop for that region. Furthermore, crop water use is impacted by several factors, including crop species, soil type, available soil

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<sup>62</sup> <http://hightunnels.cfans.umn.edu/files/2012/11/10-Irrigation.pdf>

<sup>63</sup> *Ibid*

<sup>64</sup> <http://www.merriam-webster.com/dictionary/evapotranspiration>

moisture, prevailing weather conditions, and growth stage of the crop.<sup>65</sup> Nonetheless, if properly constructed, crop water-use calculators can support Efficient Irrigation.

### Using Irrigation Charts

Irrigation charts provide an alternative view of the information in evapotranspiration schedules or the output from crop water-use calculators. If generic regional charts are used, the producer sacrifices accuracy for simplicity. Online or stand-alone charting applications developed by universities have included inputs as diverse as crop species, soil type, available soil moisture, weather, solar radiance, degree days, and number of rainy days per month. Properly constructed irrigation charts provide an alternate view of the information provided by crop water-use calculators.

### Using Evapotranspiration Monitors

The primary factors affecting evapotranspiration rates are weather conditions (wind speed, air temperature, relative humidity, and sun light), plant type, soil conditions (chemistry and salinity), and geographic location.<sup>66</sup> “An [evapotranspiration] station consists of weather sensors, a data logger, a solar panel to provide electric power and radio telemetry. The radio telemetry communicates the weather data in real time back to a computer where a program calculates the reference evapotranspiration. The typical sensors included on an [evapotranspiration] station are an anemometer for wind speed and direction, a relative humidity sensor, air temperature sensor, pyrometer for solar radiation measurements, a barometer, and rain gauge.”<sup>67</sup> By using evapotranspiration monitors, producers are able to schedule their irrigation applications more efficiently. Many extension specialists have been encouraging the use of evapotranspiration monitors in conjunction with soil moisture monitors to help producers develop sophisticated, customized irrigation schedules.

### Use of Water Flow Meter

“Measuring irrigation flow helps producers better manage and schedule irrigation. Measuring flow also is a tool for estimating irrigation water use.”<sup>68</sup> In some states (e.g., Kansas), metering water is required for all non-exempt diversions.<sup>69</sup> In other states, water usage is not metered and not monitored. Producers who choose to install a meter are adding data to the processes they are using for making irrigation management decisions. In many cases, meters are added to monitor energy costs associated with irrigation. However, an added benefit is that the data may support the use of less irrigation water per acre.

### Mulching

Mulching is used by vegetable growers to control soil moisture; provide weed control; reduce fertilizer leaching, soil rot, soil compaction, and root pruning; and improving plant growth generally. Mulching materials can be either organic or inorganic. Using plastic mulch to warm soils early in the growing season can accelerate the harvest of those crops by up to two weeks.

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<sup>65</sup> *Ibid*

<sup>66</sup> <http://www.stevenswater.com/articles/etbasics.aspx>

<sup>67</sup> *Ibid*

<sup>68</sup> <http://www.lsuagcenter.com/NR/rdonlyres/780D6F0A-61DE-4D45-8B8F-4926E093F3F6/53894/IrrigationFlowMeasurementpub3082.pdf>

<sup>69</sup> <http://agriculture.ks.gov/divisions-programs/dwr/water-appropriation/water-flowmeters>

Shorter growing periods may require less water. Mulching materials also offer opportunity for regulating soil moisture by providing a ready environment for draining excessive precipitation when needed and limiting opportunity for moisture loss through soil evaporation during times of low precipitation. This latter benefit, coupled with subsurface irrigation or targeted drip irrigation, allows the producer to use dramatically less irrigation water on the same acreage and maintain or exceed historical yields. Some mulches help to cool soils during the summer. Less water will evaporate from cooler soils.<sup>70</sup>

### **Using Soil Amendments that Increase the Soil's Water Holding Capacity**

There are three main factors which influence the ability of a plant to extract moisture from the soil. These are infiltration, water holding capacity, and the plant root system. Infiltration, the movement of the water into the soil, affects the amount of run-off. This in turn affects the ability of the soil to capture moisture from precipitation and/or irrigation. Water holding capacity refers to the ability of soil to retain moisture. The plant root system impacts the efficiency with which plants retrieve the stored moisture provided by the soil.<sup>71</sup> The number of branch roots, the depth of the roots, the presence of root hairs, and the presence of mycorrhizal fungi all influence the efficiency of a root system.

Soil amendments are materials added to improve the physical or biological properties of a soil. Unlike mulches which are used primarily on the surface of the soil, soil amendments are mixed into the soil. Amendments are generally organized into organic or inorganic categories. Organic amendments are materials that were once alive or living material like inocula for mycorrhizae or nitrogen fixing symbioses. Organic amendments increase the organic matter in soil which, over time, improves the soils' water infiltration characteristics and water holding capacity.<sup>72</sup> Both these soil characteristics are beneficial to a producer trying to maximize available irrigation water. Inorganic amendments are generally mined (e.g., vermiculite made from mica). Producers generally consult an extension specialist when choosing the appropriate amendment for their region and soil type. The Contractor documented incorporation of soil amendments as an Efficient Irrigation technique through input primarily by state extension specialists.

### **Leveling Cropland**

According to the USDA Natural Resources Conservation Service, irrigated land leveling is the practice of "reshaping the surface of irrigated land to planned grades."<sup>73</sup> In practice, this is the systematic relocation of soil from high spots in a field to low spots in an effort to obtain a uniformly graded surface area. The practice assists the producer to apply irrigation water to the planted crop more efficiently and uniformly while limiting soil erosion and also limiting damage due to waterlogging to the soil and crops. The most sophisticated leveling systems use machinery guided by a global positioning system (GPS) and laser transit/levels to ensure uniformity of the leveled field. Large scale land leveling generally involves specialists including civil engineers. In the state of Washington, producers reported that the top soil was so thin that

<sup>70</sup> <http://pods.dasnr.okstate.edu/docushare/dsweb/Get/Document-1099/F-6034%20web.pdf>

<sup>71</sup> <http://www.fao.org/docrep/009/a0072e/a0072e07.htm#bm07.2>

<sup>72</sup> <http://www.ext.colostate.edu/pubs/garden/07235.html>

<sup>73</sup> [http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs143\\_026413.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs143_026413.pdf)

efforts to achieve Efficient Irrigation by leveling could destroy the soil structure and render the agricultural land useless for decades.

### **Terracing**

A terrace is “a flat area created on the side of a hill and used especially for growing crops.”<sup>74</sup> Terracing then is the practice of reshaping the surface of the land to accommodate agriculture, particularly steeply sloped land. The primary benefits associated with terracing are: adding land suitable for cultivation; reducing soil erosion; protecting water quality by capturing run-off; and improving soil quality and productivity.<sup>75</sup> Terracing enables a producer to irrigate land in ways previously impractical because the land was too steep to efficiently retain the applied water. Some producers are terracing land they previously used for dry-land forage production and repurposing the land for row crop production. In some cases, producers are terracing land so they can switch from one form of irrigation to another, more efficient form. Correctly terraced fields may produce higher yields with less irrigation water. Terraces may allow greater infiltration of natural precipitation, thereby reducing the demand for artificially applied water. Finally, the soil structure of a terraced field may also improve, so more water is retained.

### **High Tunnel Production**

“A high tunnel is a low-cost version of a standard greenhouse... The definition of a high tunnel is a freestanding or gutter-connected covered structure, without heating or electrical power, using passive ventilation for air exchange and cooling, and an irrigation system for crop production.”<sup>76</sup> High tunnel farming is used primarily on vegetable and nursery crops. Producers are able to extend their growing season through the use of these structures by being able to plant earlier and harvest later. The high tunnel creates a micro-climate wherein the producer controls virtually all the inputs for the crop. The producer has some control over the plants’ exposure to direct sunlight, access of pests to the crop, relative humidity within the structure, and evapotranspiration rates throughout the growing season. Producers adopting this technique are able to apply irrigation water when and where it is needed within the controlled environment. They are better able to monitor the efficacy of the water application. Furthermore, producers have reported building these structures with a water retention and collection system. This allows the producer to capture runoff from irrigation and condensation from evapotranspiration. This water can then be reused for irrigation. High tunnels are not conducive to traditional row crop production, but have been used for production of high value specialty crops.

### **Targeted Crop Selection Based on Soil Mapping and Soil Type**

Producers understand that different crops grow better in different soil types. Furthermore, producers understand that many fields contain different soil types. Several state extension services offer soil mapping services for producers. Some producers have begun selectively planting crops based on the soil type most suited to that crop. This practice benefits the producer by potentially increasing the yield of the crop best suited to that soil type while decreasing the amount of water applied by targeting the irrigation for that particular crop/soil combination.

<sup>74</sup> <http://www.merriam-webster.com/dictionary/terrace>

<sup>75</sup> <http://www.mda.state.mn.us/protecting/conservation/practices/terrace.aspx>

<sup>76</sup> <http://msucare.com/crops/hightunnels/>

### **Using Varieties Requiring Less Water for Evapotranspiration**

Seed companies are developing and producers are planting varieties of crops that fare better during times of reduced natural precipitation. This has been particularly important to dry land farmers. However, with recent legislative attention focused on availability of water for municipalities, producers who have traditionally irrigated crops have been buying more of these drought resistant varieties. According to Kansas State University agronomist Kraig Roozeboom, the new drought resistant varieties of corn tend to have bigger roots which absorb more water and smaller tassels that save the plant's energy and water.<sup>77</sup> Agricultural companies such as Monsanto, DuPont Pioneer, and Syngenta have started releasing varieties with claims of higher yields under drought conditions. These companies have been conducting research to develop and/or select drought-resistant varieties through targeted selection and through genome manipulation. As producers who irrigate lose access to water for irrigation, these drought-resistant varieties offer the possibility of maintaining yields under Efficient Irrigation. Many drought-resistant varieties are being marketed for corn, wheat, and soybeans.

### **Reusing Runoff as an Irrigation Water Supply**

The practice of building reservoirs or holding ponds to collect run-off for later use in irrigation goes back before recorded history. In the United States, using captured run-off as an irrigation water supply is overseen by the Environmental Protection Agency (EPA) at the federal level and by various state agencies (Departments of Agriculture and Water Quality Departments). For example, in Colorado, this practice is strictly monitored by the state and prohibited without appropriate licensing and state approval. Producers in other states can collect spring runoff water for irrigation without constraint or regulation except under the EPA guidelines. By itself, collecting run-off may reduce the amount of ground or surface water that is required for irrigation. However, it may only result in Efficient Irrigation if the water would otherwise have been lost to the crops.

### **VII.B. Techniques that May Result in Efficient Irrigation**

The Contractor identified several techniques which result in Efficient Irrigation some of the time. Unlike the techniques described previously, more careful underwriting will be required when an insured proposes these techniques as an Efficient Irrigation strategy. Local good practices and input from extension agents or other disinterested third-party experts may be required before the technique is accepted as meeting the requirements for Efficient Irrigation.

### **Planting into a Cover Crop**

The literature regarding water requirements and cover crops is diverse and full of conflicting results. Planting into a cover crop is used primarily for soil conservation. The benefits of a cover crop can include: "reduced soil erosion; improved soil quality; reduced weed pressure; [and] reduced insect, nematode and other pest problems."<sup>78</sup> Cover crops can reduce evaporation, but increase transpiration. Cover crops can also increase the amount of soil organic material.

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<sup>77</sup> Kraig Roozeboom, 2012, Midwest Drought Allows Farmers to Test Drought-resistant Crops, <http://www.realscience.us/2012/08/16/midwest-drought-allows-farmers-to-test-drought-resistant-crops/>, accessed February, 2014.

<sup>78</sup> [http://www.covercrops.msu.edu/pdf\\_files/covercrop.pdf](http://www.covercrops.msu.edu/pdf_files/covercrop.pdf)



One pound of soil organic matter can absorb 18 – 20 pounds of water.<sup>79</sup> Producers who have the soil type to take advantage of this additional available water gain the benefit of reducing the amount of irrigation water they need to apply. Consequently, in some regions, for some crops, planting into a cover crop is also a logical water conservation practice. In other regions, and for other crops, a cover crop has been shown to reduce the available water for the cash crop. A study conducted in Illinois using perennial ryegrass, red clover, white clover, and canola as cover crops resulted in reduced yields of okra and peppers. The authors of the study attributed this reduction in yield to the moisture competition the living mulch introduced. However, the authors opined that the use of targeted drip irrigation for the cash crop might reverse the outcome.<sup>80</sup> RMA currently restricts planting into cover crops in many areas and for many crops. This technique should only be allowed to support Efficient Irrigation when sufficient local experience is available to support an appropriate decision. The interaction of existing policy constraints on cover crops and the desire to support Efficient Irrigation creates confusion for producers<sup>81</sup> as well as a research question beyond the scope of this effort.

### **Changing Cropping Sequence in the Crop Rotation**

Crop rotation is “the practice of growing different crops in succession on the same land chiefly to preserve the productive capacity of the soil.”<sup>82</sup> As producers plan crop rotation schedules, they consider fertility, soil structure, insects, disease, weeds, and pesticide requirements.<sup>83</sup> Producers also consider irrigation requirements. For example, if the historical rotation pattern was corn-corn-soybeans-corn-soybeans, a change to corn-soybeans-soybeans-corn-soybeans will reduce the water requirements overall. This approach is especially useful to producers in states such as Kansas where some local water districts are allocating water on a multi-year basis. They are also useful in areas where irrigators have the ability to “bank” their water (e.g., northern Texas). While this technique improves the overall efficiency of the producer’s irrigation, it only supports Efficient Irrigation if the new rotational practice changes the soil characteristics sufficiently to require less water in every year of the rotation. The impact on profitability of the farming operation also is a factor since corn would be grown only two of every five years under the alternative rotation.

### **VII.C. Techniques that Reduce the Requirements for Irrigation Water on an Operation without Supporting Limited Irrigation**

The Contractor identified several techniques which reduce the irrigation requirements of an operation or decrease the peak irrigation requirements of an operation. These do not reduce the amount of water required to maintain the crop yield and are consequently not Efficient Irrigation techniques under the definition proposed by RMA for the crop insurance program.

#### **Targeted Irrigation of High Revenue Crops/Reduce Number of Irrigated Acres**

Irrigation decisions, like other production related decisions, are rooted in economics. Upon receiving notice that their water allocation has been reduced, producers decide how to use that

<sup>79</sup> [http://ohioline.osu.edu/anr-fact/pdf/Using\\_Cover\\_crops.pdf](http://ohioline.osu.edu/anr-fact/pdf/Using_Cover_crops.pdf)

<sup>80</sup> <http://www.entomology.wisc.edu/mbcn/misc506.html>

<sup>81</sup> [http://www.agriculture.com/crops/cover-crop-complications\\_135-ar22779](http://www.agriculture.com/crops/cover-crop-complications_135-ar22779)

<sup>82</sup> <http://www.merriam-webster.com/dictionary/crop%20rotation>

<sup>83</sup> <http://www.agannex.com/production/crop-rotation-considerations>

water most economically. In many cases, a producer will use the water on the crop that is expected to bring the most net revenue at harvest. If the notice comes after planting but before the acreage reporting date for insurance, the producer may only have the option of reducing the number of acres irrigated. The producer's options for use of irrigation water become more limited the later the notice of a reduction in available water is delivered. Several extension specialists indicated producers tend to combine strategies to reduce the number of irrigated acres and plant those irrigated acres to a higher revenue producing crop. Even in combination, these techniques do not result in Efficient Irrigation as defined for the insurance.

### **Changing Crop Species in Crop Rotation**

The producer may add or remove a crop from the rotation in an effort to lower the overall use of irrigation water over time. For example: if a producer who typically did a corn-corn-soybeans-corn-soybeans rotation under historical irrigation water levels may consider adding grain sorghum, alfalfa, or pearl millet to the rotation to conserve water. Once again, this approach is of special interest to producers in states where irrigation water can be "banked" or is being allocated on a multi-year basis and where there is a market for the alternative crop. In these areas, a producer may change the crop species in their cropping sequence by planting a drought resistant crop. The irrigation water saved that year can then be used when they are producing a less drought resistant crop on another portion of their land. However, this approach does not result in Efficient Irrigation as defined for the insurance.

### **Staging Crop Maturity**

A producer initially may plant one half of a field with a crop and later plant the second half of the field to the same crop. The two halves of the field then likely require different amounts of water at different times. A pivot can be set so the two sides are irrigated at appropriate rates to address water requirements based on maturity of the plants in each portion of the field. While this can be used to limit peak irrigation volume requirements, it does not reduce the overall irrigation water requirements. Consequently, this approach does not result in Efficient Irrigation as defined for crop insurance.

### **Split Field Planting**

A producer may plant one half of a field with one crop and the second half of the field with a different crop. If the crops are chosen appropriately, the two halves of the field will require different amounts of water at different times. A pivot can be set so the two sides are irrigated at appropriate rates to address the crops' needs. While this may limit peak irrigation volumes, it does not reduce the overall irrigation water requirements for each crop. Consequently, this approach does not result in Efficient Irrigation as defined for the insurance.

## SECTION VIII. AVAILABLE IRRIGATION WATER USE RECORDS

This section of the report deals with the requirement in the Solicitation that, “The Contractor shall investigate the availability and review of irrigation water use records, as well as information available for water restrictions.”

### VIII.A. Water Use Records

Federal management of water resources is primarily assigned to the Environmental Protection Agency. Agency rules and regulations are controlled by both law and Executive Order. The relevant laws include the Federal Water Pollution Control Act as amended by the Clean Water Act of 1977, the Safe Drinking Water Act, and the Resource Conservation and Recovery Act. Numerous Executive orders have influenced the actions of the EPA. Some curbing of agriculture water use has resulted from cases brought under the Endangered Species Act and other federal conservation and environmental programs. However, neither the federal acts themselves nor the regulations provide sources of useful records for evaluating crop production under an Irrigated Practice or Efficient Irrigation.

Water extraction from ground and surface water is controlled primarily at the state level. The principles, laws and regulations controlling water rights vary enormously. Furthermore, recent state-level legislative action has upset some long-standing principles, as urban development (i.e., drinking water requirements) and industrial uses have been given higher priority for water rights than agricultural production. Links to the voluminous state water laws and regulations are documented in Appendix J.

The Contractor identified two forms that assist in understanding agricultural water use at the state level. First are applications for water extraction and/or use. Second are annual reports of use submitted to state agencies or water districts. Twenty-eight states require a producer to indicate the number of acres to be irrigated when an initial application for surface water diversion or well drilling is made (Table 23). Hawaii, Montana, Oklahoma, and Oregon require separate applications for surface and ground water extractions. According to producer testimony, California requires applications only for surface water.

Louisiana,<sup>84</sup> Maryland, West Virginia,<sup>85</sup> and Wisconsin<sup>86</sup> exempt agricultural users from any application requirements for extraction of surface or ground water. In Kentucky, row crop producers are exempt from application requirements, but specialty crop and nursery crop producers are not. In Rhode Island, any user anticipating extraction of less than 153 acre feet of water is exempt from application requirements. Based on Census and FRIS data, only about one quarter of Rhode Island farms irrigate. Furthermore, the average Rhode Island farm size is 56 acres and the typical irrigation application is less than 1 acre-foot per acre. Consequently, application records for irrigation water extraction are incomplete for Rhode Island. Wyoming water use permits require limited information about the purpose of the extraction and the location of the water source. In spite of numerous attempts to discuss water use applications with regulators in Illinois, the Contractor was unable to determine the content of applications for that

<sup>84</sup> Robert Romero, Department of Natural Resources, 2014, personal communication, March, 2014.

<sup>85</sup> Bryan Carson, West Virginia Department of Environmental Protection, 2014, personal communication, March, 2014.

<sup>86</sup> Chris Fuchsteiner, Wisconsin Department of Natural Resources, 2014, personal communication, March, 2014.

state. Additional information documented on water use applications, but less relevant to the assessment of the Irrigated practice and Efficient Irrigation is included in Appendix K, Table K1.

**Table 23. Irrigation Information Contained in State Water Use Applications by State**

State	Location of Well, Pump, Diversion Works	Water Source (Aquifer/Surface Name)	Average Withdrawal (gals/year or acre feet/year)	Max Withdrawal (gal/day or gal/min or cubic ft/sec)	Acres Irrigated from Source	Average Acre Inches to be applied each year	Irrigation period (start and end dates or total days)
Alabama	X	X	X	X	X	X	X
Alaska	X	X	X	X		X	
Arizona							
Arkansas	X	X	X		X		
California	X	X	X		X		
Colorado	X	X		X	X		
Connecticut	X	X		X			X
Delaware	X	X		X	X		
Florida	X	X	X	X	X		
Georgia	X				X		
Hawaii	X			X	X		
Idaho	X		X	X	X		X
Indiana	X	X		X			
Iowa	X	X	X		X		X
Kansas	X	X	X	X			
Kentucky	X	X	X	X	X	X	X
Maine	X	X	X		X		
Maryland	X				X		
Massachusetts	X			X	X		
Michigan	X	X		X			
Minnesota	X	X	X	X	X	X	
Mississippi	X	X	X	X	X		
Missouri	X		X	X	X		X
Montana		X	X		X		X
Nebraska	X	X	X	X	X		
Nevada	X	X		X	X		X
New Hampshire		X		X			
New Jersey	X	X	X	X			X
New Mexico	X	X			X	X	
New York	X	X		X			
North Carolina	X	X		X			X
North Dakota	X	X	X	X			X
Ohio	X	X		X			
Oklahoma	X		X		X		
Oregon		X	X		X		
Pennsylvania	X	X		X			
South Carolina		X	X		X		
South Dakota	X	X	X	X	X		
Tennessee	X	X	X				X
Texas	X	X	X		X		
Utah	X	X	X	X	X		
Vermont	X	X	X	X			
Virginia	X	X			X	X	
Washington	X	X	X	X			X

Source: The Contractor's Research Department from various state offices representing natural resources, water quality, and environmental quality.

The other state-level documentation useful for understanding water used for irrigation are annual (or in some cases monthly) water use reports. The Contractor documented reporting requirements in 47 states, but was unable to locate a source for report documents from Delaware. Arizona, Florida, Kansas, and Nebraska require reports to water districts rather than to a state authority. Kentucky, Louisiana, and Wyoming do not require reporting. Utah requires reports “as requested.” Only 15 states require information in the reports on the number of acres irrigated (Table 24). Information about the crop irrigated and yield are not components of these reports. Only parts of Nebraska and Texas require reports from meters on center pivot irrigation systems. Even in those two states, the well-level reporting is not required in every water district.

**Table 24. Irrigation Information Contained in Water Use Reports by State**

State	Extraction Location	Acres Irrigated	Irrigation Usage (acre feet)			Irrigation Usage (Gallons)		
			Unit	Crop	Farm	Unit	Crop	Farm
Alabama	X				X			X
Alaska	X							X
Arizona	X							X
Arkansas	X	X					X	X
California	X	X			X			X
Colorado	X							X
Connecticut	X							X
Florida		X						X
Georgia	X							X
Hawaii	X				X			X
Idaho	X							X
Illinois	X							X
Indiana	X	X			X			X
Iowa	X	X					X	
Kansas	X						X	
Kentucky	X							X
Louisiana	X							X
Maine		X		X				
Maryland	X							X
Massachusetts	X	X		X	X		X	X
Michigan		X						X
Minnesota								
Mississippi	X	X			X			X
Missouri	X				X			X
Montana	X				X			X
Nebraska	varies		some		some	some		some
	X							X
Nevada	X							X
New Hampshire	X	X					X	
New Jersey	X	X			X			
New Mexico	X							X
New York	X							X
North Carolina	X	X			X			
North Dakota	X							X
Ohio	X	X			X			
Oklahoma	X	X			X			X
Oregon								X
Pennsylvania								X
Rhode Island	X							X
South Carolina		X		X			X	
South Dakota	X							X
Tennessee	X							X
Texas	X		some		X	some		X
Utah	X							X
Vermont	X							X
Virginia	X				X			X
Washington	varies				some			some
West Virginia	X							X
Wisconsin	X							

Source: The Contractor's Research Department from various state offices representing natural resources, water quality, and environmental quality.

Additional information documented on water use applications, but less relevant to the assessment of the Irrigated practice and Efficient Irrigation is included in Appendix K, Table K2. The Contractor is supplying RMA with a disc containing images of the reporting forms that were used in developing Table 24 and Appendix K.

### **VIII.B. Water Use Restrictions**

State regulatory agencies have the authority to limit access to water. Generally water extraction is loosely monitored. However, as water becomes a limited resource, mechanisms to enforce restrictions are becoming more sophisticated. The Nebraska Natural Resources Districts have the authority and ability to shut down active pivot irrigation systems remotely. In Colorado, state water resources personnel can operate the opening and closing of irrigation canal gates from computers in their offices. In Idaho, irrigation companies remotely operate gates for canals linked to surface water sources, while groundwater sources in Idaho are essentially unmonitored. In Georgia, the state water resources personnel have the authority to turn irrigation pumps off. However, according to producer testimony, they do not have the ability to shut down these pumps remotely.

Testimony from extension officers in most states suggested that trends toward greater enforcement actions and toward more technological control of access are likely to continue. Producers expressed the greatest concerns about these trends in states under drought conditions. Extension experts were more generally concerned that producers will face more limited supplies of irrigation water in most parts of the United States. Even where water will not be limiting for producers with the most senior water rights, junior right holders are likely to be faced with restrictions. This disparity between restrictions placed on junior and senior water rights holders will need to be addressed in the underwriting for Efficient and Limited Irrigation scenarios, since producers in any one area may have substantially different outcomes because of the access to irrigation water.

## SECTION IX. RISK ANALYSES

This section of the report deals with the solicitation requirement that:

*The Contractor shall define the economic risks; collect data to identify and quantify any risks that the producers face when applying less than their historical average of irrigation water; identify any data that is available regarding irrigation application; identify any areas that data availability is considered a problem for the development of this program; identify any unavailable data, but necessary, to quantify these risks; estimate the frequency and severity of the risks that currently are uninsured, classify each of the perils as insurable or uninsurable and justify the classification of the risk. The Contractor shall also identify man made or created perils that can restrict water availability and describe when and how these perils can occur.<sup>87</sup>*

The economic risks associated with Efficient Irrigation and Limited Irrigation can be defined by two fundamental questions:

- Has the management of an Irrigated Practice using Efficient Irrigation introduced any risks that are not already identified and appropriately covered in the FCIC insurance offers?
- If a Limited Irrigation insurance offer is made, are any risks that are not already identified and appropriately covered in the FCIC insurance offers introduced?

If the answer to either of those questions is “yes,” then additional risk analysis is required.

Testimony from producers and extension officers indicates that regardless of the incorporation of the “Efficient Irrigation” term in the crop insurance lexicon, producers have been managing their Irrigated Practices using Efficient Irrigation for years, if not decades. The underlying yield-based insurance constructs identify the risks, classify them as insurable or non-insurable, and capture the frequency of these risks appropriately in the rating. The Contractor identified no data, quantitative or testimonial, which suggested Efficient Irrigation introduces new risks. The actual yields of producers managing their Irrigated Practices with Efficient Irrigation have been used by RMA in the updating of insurance rates. To the extent that the rates already address producer differences in risk based on rate yields, any added or decreased risk associated with Efficient Irrigation is addressed by the existing rating functions. If the existing rating functions do not address these differences in producer risk, there are no data to support the introduction of a new rating approach to address Efficient Irrigation.

It is not as easy to be unequivocal about the impact of Limited Irrigation on risk. There is literature addressing the increased susceptibility of plants to disease and insects if they are water stressed.<sup>88</sup> While these effects are not well documented for every species for which an offer of insurance is made for production under the Insured Practice, there is a recurring theme that stress

<sup>87</sup> U.S. DOI, 2013, Solicitation D14PD00062 under IDIQ contract D13PC00032, page 9.

<sup>88</sup> See, for example, Dutky, E.M., 2006, How Drought Stress Predisposes Trees and Shrubs to Diseases <http://www.bgohio.org/departments/public-works-department/arborist/files/droughtstr.pdf>, accessed March, 2014; Longstroth, M., 2012, Drought Stress Symptoms in Blueberries, <http://blueberries.msu.edu/uploads/files/Blueberry%20Drought%20Symptoms.pdf>, accessed April, 2014; Pearson, K., 2005, How and When Does Water Stress Impact Plant Growth and Development?, [http://waterquality.montana.edu/docs/irrigation/a9\\_bauder.shtml](http://waterquality.montana.edu/docs/irrigation/a9_bauder.shtml), accessed April, 2014.



increases the susceptibility to losses from other causes. This then introduces a corollary to the fundamental question about Limited Irrigation: If a Limited Irrigation insurance offer is made, and the mechanism to address the Limited Irrigation is an adjustment of actual yield and rate yields, do the rates and the guarantee reflecting the new parameters appropriately address the risks introduced by the decrease in irrigation water applied?

Plants exhibit water stress when the water supply to the roots becomes limiting or when the rate of transpirational water loss exceeds the rate at which water may be taken up by the plant.<sup>89</sup> With the exception of plants grown hydroponically, most crop plants undergo periods of mild water stress, alternating with periods when water is not the factor limiting their growth. Plants have evolved to tolerate fluctuations in available water and to recover normal function after water stress. These processes contribute to the maintenance of high yield under cyclic dry and wet periods (e.g., immediately following irrigation and just prior to irrigation).<sup>90</sup> In fact, exposure to excess moisture also creates suboptimal conditions for plant growth. Consequently, the yield response to different levels of water stress is an essential issue in the analysis of risks associated with Limited Irrigation.

The Contractor will not attempt to duplicate the work commissioned by the RMA from the University of Nebraska regarding yields from plants whose productivity is limited by the available water supply.<sup>91</sup> The essential conclusion from this work is that, over some reasonable range of amounts of water applied for irrigation, when water is limiting, the yield increases linearly with the increase in available water. While this has not been documented for every crop, the partitioning of water between that required for vegetative growth and that required for reproductive growth makes it generally reasonable to accept the linearity of the relationship.

The problem then becomes defining the starting and ending point for a “reasonable range” of amounts of water applied for irrigation. In areas where non-irrigated production is appropriate, it is logical to assume the endpoint of the beneficial effect of irrigation, and consequently of the linear yield response is when no irrigation water is applied. The yield at that point will be the unit’s non-irrigated yield if one is documented. Otherwise it could be the non-irrigated reference yield, or better yet, the non-irrigated reference yield multiplied by a factor that reflects the producer’s experience with the crop compared to the experiences of all the producers in the county (i.e., the Approved Yield / the county reference yield).

Establishing a starting point for the reduction in yield resulting from a reduction in applied irrigation water is more challenging. The simplest assumption is to use the insured’s rate yield and the simple average of the amount of water applied during the period to establish the parameters of the starting point. This implicitly assumes there are no additional Efficient Irrigation management practices that can be implemented. If the producer makes no other changes than applying less irrigation water, this is in fact an appropriate starting point. However, if the insured implements additional Efficient Irrigation management practices at the same time

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<sup>89</sup> Blum, A., 1988, Plant Breeding for Stress Environments. CRC Press, Baco Raton, Florida; Rahman, I.M.M., and H. Hasegawa, 2012, Water Stress, In Tech., Rijeka, Croatia.

<sup>90</sup> Blum, A., 1996, Crop responses to drought and the interpretation of adaptation, Plant Growth Regulation.20:135-148.

<sup>91</sup> Procedures for Adjusting APH when Implementing a Deficit Irrigation Insurance Practice.

Limited Irrigation is implemented, some reduction in the amount of water required needs to be incorporated into the Limited Irrigation Approved Yield calculations.

The Contractor has not identified any data that can be used to address simultaneous implementation of Efficient Irrigation techniques and Limited Irrigation. In the absence of a data-based establishment of the required amount of water to trigger a Limited Irrigation reduction in Approved Yield, use of any value other than a producer's estimate of the historic amount of water applied for irrigation will have no objective basis. Nonetheless, if during the establishment of that yield Efficient Irrigation was implemented, using the full irrigation history for the Approved Yield is unfair to the insured. Consequently, the Contractor recommends using only that portion of the irrigation history that has followed the implementation of Efficient Irrigation techniques that have already been implemented.

It is less clear how to address the simultaneous implementation of Efficient Irrigation techniques and Limited Irrigation. If RMA chooses to implement a Limited Irrigation alternative to the existing approaches available to an insured, the Contractor proposes RMA uses the standard deviation of the natural precipitation as a basis to adjust for the beneficial effects of the Efficient Irrigation technique(s) affected at the time Limited Irrigation is also implemented. In areas where little natural precipitation falls, using this value would "start" the yield reduction at a smaller relative change to the amount of water applied, whereas in regions with substantial natural precipitation, which varies substantially, the yield reduction imposed on the producer would reflect both the larger chance that an Approved Yield would be achieved and the less critical role the irrigation water plays in many years.

The underlying yield-based insurance identifies the risks, classifies them as insurable or not insurable, and captures the frequency and severity of these risks in the rating for crops produced under an Irrigated Practice. The Contractor identified no data to suggest Efficient Irrigation introduces risks, including the risks incumbent in water stress, that are not already addressed in the rating for crops grown under an Irrigated Practice. The actual yields of producers applying different amounts of irrigation water have been used by RMA in the updating of insurance rates for crops grown under the Irrigated Practices and insured under an Irrigated Practice code. To the extent that the rates already address producer differences in risk based on rate yields, any added risk associated with Efficient Irrigation should be addressed by the existing rating functions. If the existing rating functions do not address these differences in producer risk, there are no data to support the introduction of a new rating approach to address Limited Irrigation.

In this data limited environment, there are three approaches that can be taken regarding the rating. The first is to assume the rating for crops grown under the Irrigated Practice captures sufficient information to address any production under Limited Irrigation. In cases where the irrigation applied is reduced substantially, this may not be the case. The academic studies often use irrigation rates down to one quarter of the full irrigation. A producer may have already been irrigating at much less than full irrigation. Furthermore, these studies are comparing production within a year and not between years. Finally, these studies have focused primarily on major commodity crops, while scores of plants under hundreds of Irrigated Practice management scenarios are insured. A decision to accept the current rates for an irrigated practice code seems excessive. The Contractor cannot recommend this course for all crops in all states nationwide.

At the least, crops grown in counties where the non-irrigated practice is not allowed should be excluded from having this option. In these counties, too large a reduction in the amount of irrigation water applied will result in an attempt at production under water stress conditions that have never been attempted in the county before.

The second approach is to assume the rating for crops grown under the Irrigated Practice captures sufficient information to address production under Limited Irrigation for a particular level of reduction of irrigation water applied. For example, it is reasonable to accept that a reduction of 25 percent will be captured by the existing rating data for the top 50 percent of producers by the amount of irrigation water they apply. From an actuarial perspective, looking only at the predicted performance of the insurance, an arbitrary limit such as the 25 percent might be allowed so sufficient insurance experience can be gathered to fine tune the rate structure. The most likely outcome of this approach will be a slight rise in rates over time so the irrigators applying the most water, who are most likely to achieve the best yields, have smaller increases in their premiums than those who implement the largest reduction. This might work where a crop is represented by a large population of producers, each of whom is implementing Limited Irrigation with a range of changes in the amount of irrigation water applied. It is less likely to be effective in counties where there is a more limited number of producers or counties where water restrictions cause the whole population to reduce their irrigation by a comparable amount. In these cases, the rating adjustment process may be poorly equipped to deal with the distribution of the data. Furthermore, this will not support an approach with limited requirements for updating.

The final is to assume the rating for crops grown under the Irrigated Practice does not capture sufficient information to address production under Limited Irrigation. In cases where the irrigation applied is reduced below Efficient Irrigation levels, this is not an unreasonable hypothesis. Since the academic studies use full irrigation as their starting point and producers do not necessarily (and most likely do not) irrigate their crops fully, it is challenging to imagine any mechanism that does not place enormous faith in the current rating and rate updating paradigms that would bridge the gap between the data in the academic studies and actual production of scores of crops grown under an Irrigated Practice code in any county where that insurance is allowed. This would require accepting the linear reduction in production under Limited Irrigation for all crops under all Irrigated Practice codes. While it is defensible to say that is the best available approach, it is less defensible to say it is the course to follow. The Contractor finds it less easy to accept the universal applicability of the Limited Irrigation construct than to accept the universality of the Efficient Irrigation construct.

## SECTION X. OUTLINE OF PROPOSED MODIFICATIONS

This section of the report deals with the requirement in the Solicitation that states:

*The report shall identify what issues/obstacles need consideration when modifying the current policies and procedures. RMA [seeks] to understand how the modifications for reduced irrigation will work best for insured producers and for RMA.*

The reader should note, per the Solicitation, this outline does not delineate specific modifications to the underwriting procedures, rates, loss adjustment procedures, data reporting requirements, CIH, LAM, Appendix III (Manual 13), insurance policies, or loss adjustment standards handbooks. If RMA exercises its options under the Contract, those details will be addressed in the optional Draft Program Modifications Package and the optional Final Program Modifications Package.

Instead, as directed by the Solicitation, this section of the report focuses on:

- Issues and obstacles to addressing both Efficient Irrigation and Limited Irrigation in the FCIC yield-based crop insurance programs;
- Issues and obstacles specific to addressing Efficient Irrigation;
- How addressing Efficient Irrigation will work best for insured producers;
- How addressing Efficient Irrigation will work best for RMA;
- Issues and obstacles specific to addressing Limited Irrigation;
- How addressing Limited Irrigation will work best for insured producers; and
- How addressing Limited Irrigation will work best for RMA.

In order for the Contractor to address issues, obstacles and benefits of implementing defined Efficient Irrigation and Limited Irrigation as part of the yield-based FCIC insurance programs, certain assumptions must be made about the changes that will be implemented. Based on language in the Solicitation, the Contractor assumes implementation of “option 3a from Watts, Task Order 1, Deliverable 2... nationwide for all crops”<sup>92</sup>. Option 3a calls for “maintain[ing] existing irrigation policy and procedures but change[ing] the definition for Irrigated Practice.”<sup>93</sup> The changes to the definition of Irrigated Practice incorporate the concept of Efficient Irrigation into currently allowed crop management under an Irrigated Practice. Efficient Irrigation is: “a method of producing a crop by which less water is artificially applied during the growing season by appropriate systems and at the proper times than the quantity of water that was used to establish the irrigated approved APH yield, that will likely not result in lower actual yields than the average yield for the irrigated practice for that location.”<sup>94</sup>

The Contractor believes incorporating the definition of Efficient Irrigation into acceptable management activities under an Irrigated Practice requires objective standards for “the quantity of water that was used to establish the irrigated approved APH yield” (i.e., the historical quantity of irrigation water applied) and “less water... that will likely not result in lower actual yields

<sup>92</sup> U.S. DOI, 2013, Solicitation D14PD00062 under IDIQ contract D13PC00032, p. 3.

<sup>93</sup> Watts and Associates, Inc., 2013, Task Order 1: Limited Irrigation Analysis & Evaluation, Deliverable 2: Limited Irrigation Feasibility Report, p. 71, [www.rma.usda.gov/pubs/2013/insuringirrigationfeasibilityreport508.pdf](http://www.rma.usda.gov/pubs/2013/insuringirrigationfeasibilityreport508.pdf), accessed May, 2014.

<sup>94</sup> U.S. DOI, 2013, Solicitation D14PD00062 under IDIQ contract D13PC00032, p. 3.

than the average yield for the irrigated practice for that location” (i.e., the minimum amount of water to be applied under Efficient Irrigation).

The only data to establish the historical quantity of irrigation water are those that might be kept by the producer.<sup>95</sup> The amount of water actually applied to an acre of land insured under an Irrigated Practice code differs from year to year, depending on a large number of factors. The Contractor proposes a lower limit on the amount of water available for and intended to be applied for the upcoming crop year be established. This limit would be a percentage of the historical water use by the producer. Its purpose is to define a point at which additional underwriting considerations begin. The Contractor believes, based on the literature, some minimum reduction in water use will not significantly affect the yield relative to the Approved Yield. The lower limit would be established by modeling the yield impact for selected crops (e.g., corn, cotton, and tomatoes) at various reductions in applied water. Such a model could incorporate natural precipitation values, “full” evapotranspiration values where available, and actual crop yield experiences to show the potential change in all areas where irrigation is common for these crops.

The Contractor proposes, subject to analysis of impacts described below, any negative deviation in available irrigation water for an insured acre managed under an Irrigated Practice that is greater than a defined percent of the simple average of water applied per acre during the development of the Approved Yield (based on the insured’s records) should require specific underwriting procedures. This defined percent would be established during the second option of the Task Order should the Government choose to implement that option. It is important to understand the Contractor is simply defining a point at which added underwriting considerations begin. However, given the general improvements in yields seen under lower irrigation levels in the FRIS data, selecting some value other than zero seems logical. Furthermore this approach would eliminate some paperwork without imposing substantial increased risk on the insurer. If the implementation option is exercised, the Contractor will model the extent of the risk for the insurer for certain sample crops (e.g., corn, cotton, and tomatoes) to show the deductible makes the risk to the insurer *de minimus*. Such a model may incorporate natural precipitation values, “full” evapotranspiration values where available, and actual crop yield experiences to show that for all areas where these crops are heavily irrigated, a limited change in irrigation water applied would not reduce the yield meaningfully unless some other cause of loss was involved.

A second underwriting step for Efficient Irrigation is intended to limit the paperwork burden on the insured and the insurer. This will focus on the irrigation management practices the insured used historically to increase the efficiency of the irrigation or decrease the amount of water required for irrigation. If techniques to increase the efficiency of irrigation have been implemented, and if the average actual yields for the period after that implementation are equal to or greater than the Approved Yield, then the historical quantity of irrigation water can be based on the average of the period after the implementation rather than the average during the entire period used to establish the Approved Yield. Again this should not add substantial risk on

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<sup>95</sup> The Contractor notes that the producer is required to maintain records of the insured crop for three years after the end of the crop year. Hence, if records of applied water are available, those records may not include the entire production history included in an APH database.

the insurer, not only because the yields after implementation were equal to the Approved Yield, but also because the deductible assigns the initial risk to the insured.

The third underwriting step for Efficient Irrigation is to consider techniques the insured will be using **for the first time** during the forthcoming crop year to increase the efficiency of irrigation. There are no precise data to quantify the gains in efficiency that can be realized by any one of the Efficient Irrigation techniques. Furthermore, it is possible that more than one Efficient Irrigation technique will be implemented in the same year, depending on the producer's management decisions. When more than one technique is implemented, the gains in efficiency might be additive, synergistic, or might together produce a smaller gain than gains realized if a single technique were employed. The potential gains differ by many factors, including crop, soil type, slope, etc. In the absence of a set of values for efficiencies realized by the improved irrigation techniques, the Contractor believes that allowing a small (e.g., 5 to 10 percent) reduction in the historical quantity of irrigation water provides the insured recognition of the improved efficiency to be realized, without creating significant risk for the insurer. If the implementation option is exercised, as stated previously, the Contractor will model the extent of the risk for the insurer of varying percent reductions for several sample crops to determine the correct value that appropriately limits the risk to the insurer.

The final underwriting step for Efficient Irrigation is to allow the producer to maintain the Approved Yield with an even larger reduction in the amount of water to be applied relative to their historical quantity of irrigation water. If the insured can provide documentation from a disinterested third party that supports obtaining the Approved Yield even with a greater reduction in the available water than the amount established under the third underwriting procedure, the insurer will maintain the Approved Yield without revision. This will allow practices that have been demonstrated locally to provide substantially greater efficiencies in irrigation to be considered a good management practice under an Irrigated Practice. Requiring documentation from an appropriate disinterested third party would limit fraud, waste, and abuse based on losses associated with reduction in irrigated water available or applied.

#### **X.A. Issues and Obstacles to Addressing Efficient and Limited Irrigation**

The definition of Irrigated Practice contains many terms. Some of these terms, such as "artificial means" and "appropriate systems" have objective meanings. Other terms, such as "appropriate time" to irrigate and "intention," are more subjective. However, the reader should note the definition of Irrigated Practice has been included in the Basic Provisions since the 1998-BR. The definition was introduced in a proposed rule dated August 12, 1997 (FR 43236) and adopted in the final rule published December 10, 1997. The Contractor is unaware of any issues regarding the suitability of the definition, in spite of the elements of subjectivity in its interpretation. That being said, the addition of Efficient Irrigation and Limited Irrigation definitions must improve the insurance available for an Irrigated Practice and not introduce any barriers to implementation of a crop insurance product identified in RMA's feasibility requirements.

Consequently, irrigation with less water than historically applied is an Irrigated Practice as long as the: "water is artificially applied during the growing season by appropriate systems and at the proper times, with the intention of providing the quantity of water needed to produce at least the yield used to establish the irrigated production guarantee or amount of insurance on the irrigated

acreage planted to the insured crop.” As long as the crop insurance procedures and regulations are followed, the insured producer has the flexibility to follow whatever practices make the greatest economic sense in his/her situation. The only requirement is that the producer must follow the practice of providing irrigation intended to be sufficient to result in a yield at least equal to the yield on which the production guarantee is based. The addition of definitions of Efficient Irrigation and Limited Irrigation provides a subjective measure of the intention (e.g., “that will likely not result in lower actual yields than the average yield for the irrigated practice for that location.”). However, the Contractor notes “likely” is a subjective term.

It will be important to refine the Efficient Irrigation and Limited Irrigation definitions to clarify the meaning of “location.” The Contractor assumes the intention in development of this definition was to refer to a unit. If that is the case, then Efficient Irrigation and Limited Irrigation can only be established when sufficient records are available to establish an “average” of actual yields. Alternatively, if the intention were to allow T-yields under an Irrigated Practice to be used (i.e., if the intention is that “location” is on the scale of a county), then establishing the amount of irrigation required to establish the T-yield is much more challenging. T-yields reflect a wide range of different irrigation management practices.

There is some logic to not allowing a new irrigator to change the management practices used to establish the Approved Yield under the Irrigated Practice too rapidly. However, the essence of individual Approved Yields is to capture sufficient producer-specific information so differences in the success of a particular producer are reflected in the insurance the producer can purchase. The flexibility offered by the definition of Irrigated Practice allows changes to the management practices used to establish the Approved Yield. The addition of the Efficient Irrigation and Limited Irrigation definitions should decrease rather than increase any ambiguity in the underlying Irrigated Practice definition. Therefore, if the implementation option is exercised, the Contractor will consider ways the definitions of Efficient Irrigation and Limited Irrigation can be refined to further decrease the possibility of misinterpretation in the definition of Irrigated Practice.

Generally producers do not irrigate to obtain full evapotranspiration. Instead, as pointed out in earlier reports, producers use irrigation management practices to optimize economic outcomes. Due to the many differences between operations, even if they are located in close proximity to one another, the producers’ perceptions of an optimum economic outcome for a particular crop are likely to be quite different. This is one reason the continuous rating functions address the producer’s actual average historical yields relative to the reference yield for the county. This allows the rates to be customized to reflect the particular outcome of the producer’s management decisions. In many cases, producers who are neighbors have obtained very different Approved Yields under the same Irrigated Practice code. Any attempt to address Efficient Irrigation and Limited Irrigation must allow management decisions to continue to be made by the insureds and take into account the outcomes of the insured’s decisions in establishing the Approved Yield.

As noted in the first deliverable of TO 1, there are inconsistencies in the language in the policies and procedural documents. In establishing Efficient Irrigation and Limited Irrigation procedures, it will be important to eliminate potential misunderstandings that might arise because terms such as “irrigated acreage” are used without definition and because terms such as “Irrigation Water

Supply” are defined in the CIH and again in the Irrigated Practices Guidelines rather than in the policy. The definition does not address aquifers, but appears to focus on surface waters. “Adequate Irrigation Facilities” is not defined in the Basic Provisions, but is defined in the Irrigated Practices Guidelines. In developing procedures to deal with Efficient Irrigation and Limited Irrigation, it will be essential to eliminate as many of these inconsistencies as possible, first by including additional definitions in the Basic Provisions and then by a careful expansion of the Irrigated Practices Guidelines (which is provided to insureds and potential insureds).

The Data Acceptance System does not currently require or accept information on amount of irrigation water applied. This is not seen by the Contractor as a barrier to addressing Efficient and Limited Irrigation constructs. The proposed modifications can use the data required by the Irrigation Practices Guidelines on water applied to the crop grown under an Irrigated Practice. Heretofore those data on the amount of water applied to a crop grown under an Irrigated Practice have been used during loss adjustment to determine if an uninsured cause of loss appraisal should be made. As described previously, the proposed modifications will use data from both the yield histories and the insured’s irrigation records in establishing break points and in establishing an Approved Yield under Limited Irrigation. This change in the timing of the use of the data is likely to create logistic problems. Producers have indicated they maintain their irrigation records for only a few years, and are required to maintain records pertaining to the insured crop for only three years after the end of the insured crop year. Therefore, both producers and insurance industry personnel will need to be educated about this change and about mechanisms to address sparse data situations.

Reports to water boards generally do not incorporate all the information needed to establish water applied under an Irrigated Practice at the unit level. These reports are not required in every region. Even where these reports are required, often only the total water use by an entity must be reported. Data to document water applications at the unit level may only be in the hands of the producer. Consequently, simple and generally applicable procedures for Efficient and Limited Irrigation will need to utilize an insured’s data. This is no different than the approach used for other inputs such as fertilizer or pest management chemicals. Therefore, while it will require development of additional underwriting guidelines, the general approach will be familiar to both the insurance industry and insureds.

When producers have more than one source of irrigation water, maintaining records for application to different crops/types/practices may be especially challenging. One producer with surface water rights and a legal, but undocumented, well had indicated that when water prices were high, water from the well could be sold, while Prevented Planting could be claimed on a crop not planted because of restrictions on the use of the surface water. Care will need to be taken to assure that implementation of Efficient and Limited Irrigation do not create moral hazards that encourage this sort of fraudulent activity.

The Contractor is aware that present policy and procedure for Irrigated Practices are the result of many years of dealing primarily with the issue of fluctuating water supplies, i.e., changes from year to year that affect availability. It is becoming evident that more permanent restrictions on water availability for individual insured producers may be the norm, at least in some areas.



Production practices that prevailed when more plentiful supplies were available may and likely will no longer be possible.

### **X.B. Efficient Irrigation**

Many producers have already implemented changes to irrigation management practices to realize Efficient Irrigation. The producer's Approved Yield reflects the changes they have already made. Procedures to unravel the historical changes in management practices used to maintain an Irrigated Practice could be very complex. Anecdotally, a reduction of 30 percent in the amount of applied irrigation per acre in one case resulted in Efficient Irrigation (i.e., the Approved Yield was realized). Based on comments from extension educators and producers other than the one claiming a successful Efficient Irrigation with a 30 percent reduction in applied water, the Contractor believes most changes in irrigation management practices will result in smaller reductions in the amount of water required to have a reasonable expectation for Efficient Irrigation. That is the basis for the third and final underwriting suggestions proposed for Efficient Irrigation.

Recognizing and defining Efficient Irrigation will correct an information asymmetry that exists between the insured and the insurer under the existing Irrigated Practice definition and procedures. The existing insurance has accepted substantial variation in the quantity of irrigation water applied to an insured crop from year to year. Introducing Efficient Irrigation and Limited Irrigation will help to assure that good communication between the insured and insurer occurs. It will also help to assure there are no surprises on either side during loss adjustment about the amount of water that was available to be applied to a field insured under an Irrigated Practice code. However, documentation of amounts of irrigation applied has been required only in the case of a loss. Introducing the Efficient Irrigation concept will encourage documentation of improvements made to the irrigation management practices. It will assist in the insurer and the insured having the same understanding about the amount of water that is required to be available and/or applied when the insurance attaches. This will improve the performance of the crop insurance program and make it more responsive to current developments in the agricultural industry.

### **X.C. Limited Irrigation**

The Solicitation requires the Contractor to “consider option 7 elements for yield reduction function modeling, or any other feasible yield reduction functions to adjust the irrigated approved APH yield for reduced irrigation”<sup>96</sup> in identifying issues and obstacles to addressing Limited Irrigation. Option 7 is using “the [RMA] suggested Limited Irrigation insurance approach, but replace the yield reduction tables with a formula based on average annual rainfall for the county and the insured’s historic and expected irrigation amounts.”<sup>97</sup>

There are not sufficient data to support a yield reduction curve for each insured irrigated crop. The linearity of the yield reduction is documented for the few crops in limited locations where sufficient data are available to establish a yield reduction function. The linear function applies

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<sup>96</sup> *Ibid.*, p. 5.

<sup>97</sup> Watts and Associates, Inc., 2013, Task Order 1: Limited Irrigation Analysis & Evaluation, Deliverable 2: Limited Irrigation Feasibility Report, p. 72, [www.rma.usda.gov/pubs/2013/insuringirrigationfeasibilityreport508.pdf](http://www.rma.usda.gov/pubs/2013/insuringirrigationfeasibilityreport508.pdf), accessed May, 2014.

**only where water is the limiting growth factor.** Nonetheless, the Contractor proposes using a linear Approved Yield reduction function when the insured chooses Limited Irrigation as the approach to address a decrease in available irrigation water supply. In other words, if unable to meet the Efficient Irrigation underwriting standards, an insured would have the choice of reducing irrigated acreage or insuring under the Limited Irrigation construct.

In areas allowing production without irrigation, the starting point for the linear reduction will be the Approved Yield and the historical quantity of irrigation water. As with Efficient Irrigation, if techniques to increase the efficiency of irrigation have been implemented and if the average actual yields for the period after that implementation are equal to or greater than the Approved Yield, then the average of those yields will be the starting point for the linear reduction function, along with the amount of water applied. If the insured has an Approved Yield for the crop and type managed under the non-irrigated practice in the area, then the end point will be zero water applied and the insured's non-irrigated yield for the crop and type. If the producer does not have a non-irrigated Approved Yield for the crop and type even though the non-irrigated practice is allowed in the area, then the end point would be zero water applied and the non-irrigated transitional yield for the crop and type. The Limited Irrigation Approved Yield would be extrapolated between these two points based on the amount of irrigation water available under the Limited Irrigation scenario relative to the historical quantity of irrigation water.

The Solicitation requires: "Any yield reduction function ... to be simple, applicable nationwide for all crops, and not reliant on updated data maintenance."<sup>98</sup> The Contractor's proposed function takes into account the linear patterns seen in the limited number of location-specific, crop-specific studies that do look at the effects of reducing the amount of irrigation water when the available amount of irrigation water is the limiting factor. It provides limits on the extent of the reduction that reflect both the producer's experience and differences in locations. It provides a mechanism to address all crops nationwide. Furthermore, a simple tool (Appendix L) can be constructed to return a value for the Limited Irrigation Approved Yield. Thus, while the description of the approach cannot be said to be extremely simple, the math itself is simple. Furthermore, the calculations of a Limited Irrigation Approved Yield can be established using the producer's irrigation records, the producer's APH database and a limited set of data (i.e., the non-irrigated transitional yield, the average precipitation for the county, and the standard deviation of the precipitation for the county) that can be supplied either in the Special Provisions or as a look-up table behind the "Limited Irrigation Approved Yield Calculator." The Limited Irrigation Approved Yield can be used in cases where the available or applied irrigation water is reduced for a single year. It can be used to populate a Limited Irrigation database in the case where a reduction in available or applied irrigation water is permanent. In areas that do not allow the crop and type to be managed under the non-irrigated practice, Limited Irrigation, if implemented, should not be allowed.

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<sup>98</sup> U.S. DOI, 2013, Solicitation D14PD00062 under IDIQ contract D13PC00032, p. 5.

## SECTION XI. RESEARCH FINDINGS

The most comprehensive data on production, yield, and risks for plants grown under an Irrigated Practice are the data in the RMA Type P11 (acreage, formerly Type 11), Type P15 (yield, formerly Type 15) and Type P21 (indemnity, formerly Type 21) databases. Collectively, these records document the acreage irrigated, the production and yield from that irrigated acreage and the causes of loss when a loss occurs. These data do not provide a perfect basis for implementing Efficient Irrigation and Limited Irrigation procedures for the scores of crops that are insured as irrigated. However the imperfections of the data are no greater for implementing these procedures than for implementing the FCIC crop insurance program in general.

There are three elements missing from these RMA data that are required to conclude whether a decrease in the amount of irrigation water applied will result in Efficient Irrigation or Limited Irrigation. The first of these is the amount of irrigation water applied historically. The producer's own records provide the only consistent source of information about the historical application of irrigation water. These records can be expected to be sparse and highly variable. Water authority records are not generally collected in a way that provides the information required. They can be used to support the producer's records. In the cases where the water authority records do include requisite information (e.g., in the cases where water authorities require pivot well-head meters), the meter records are part of the producer's irrigation documentation as required under the crop insurance Irrigation Practices Guidelines. However, it is much more common that water authorities monitor water extraction facilities, total farm-level extraction, or point of diversion extraction. In these cases, the only records which capture unit-level irrigation are those maintained by the insured.

The second missing element in the RMA databases is the historical precipitation in the location of the insured acreage. While some producers are beginning to maintain farm-level precipitation records, those records are generally too short to capture the historical mean precipitation and variability in the precipitation. The Contractor believes an understanding of the extent to which the water for crop evapotranspiration comes from precipitation is essential to evaluating whether a lesser application of irrigation water is likely to result in Efficient or Limited Irrigation. The variability of the precipitation provides a measure of whether the application of smaller amounts of irrigation water will increase the risk to the crop from natural causes.

The final element missing in the RMA databases is the characterization of changes in management practices that justify identifying a reduced application of irrigation water as Efficient Irrigation. The Contractor has identified 20 changes in irrigation techniques that contribute to Efficient Irrigation. Of these, those that are appropriate for a particular farm cannot be determined by research such as that documented in this report. Appropriate Efficient Irrigation techniques are influenced by numerous factors including crop, variety, soil type, weather, air quality, slope, and aspect. In making decisions about how to irrigate efficiently, the producer uses production experiences within the locale, the condition of the soil, the cost of the irrigation water, the cost of delivering the irrigation water, the specific crop being grown, and the cost of the changes to the irrigation system to determine if one or more of the Efficient Irrigation techniques should be implemented.

Still, the Contractor believes implementation of at least one of the Efficient Irrigation techniques identified in this report or of an Efficient Irrigation strategy approved by a local or regional disinterested authority is required for Efficient Irrigation. In the absence of such changes in the irrigation techniques, reducing the amount of irrigation water applied will, on average, result in a reduced yield if the amount of water has been a limiting factor for the crop production. Consequently, when a producer has advance knowledge that less irrigation water will be available either the current policies and procedures should be required, or the production should be insured, if possible, under a Limited Irrigation practice.

The Contractor has identified numerous references to irrigation in the Common Crop Insurance Basic Provisions, the crop provisions, the special provisions, the CIH, and the LAM. Some of these will require modification to address Limited Irrigation if the practice is accepted as insurable. Most of the language in RMA documents is not fundamentally affected by Efficient Irrigation, provided this term is properly defined. Changes to the Irrigated Practice Guidelines will provide a mechanism to address details concerning Efficient Irrigation without requiring changes to every document that address the concept of irrigation. However, using irrigation terminology consistently in the Common Crop Insurance Basic Provisions, the crop provisions, the CIH, and the LAM, will simplify communication about Efficient Irrigation as an appropriate management practice for crops insured under an Irrigated Practice code.

While the introduction of the Efficient Irrigation concept is likely to simplify the insurance of irrigated crops by recognizing the evolving management techniques used for irrigation, introducing Limited Irrigation will complicate insurance of irrigated crops. The Contractor believes three complications require special attention in the decision about adding Limited Irrigation as a construct in the FCIC insurance. First, and foremost, although it is possible to propose a relatively simple system for assigning a Limited Irrigation Approved Yield, the calculation of this assigned Approved Yield requires acceptance of several assumptions that could be called into question by insureds and AIPs. This introduces the potential for substantial increases in the burden on RMA and the insurer.

Secondly, while some insureds may need to insure under Limited Irrigation for one year (e.g., a producer in the Sheridan 6 Local Enhanced Management Area (LEMA) who has used more than 80 percent of the assigned five year water allocation), others will be starting a permanent Limited Irrigation practice (producers whose water allocation has been permanently reduced as a result of legislative or legal or administrative action). This disparity makes decisions about RMA yield history databases particularly difficult. If Limited Irrigation is implemented at all, it should be implemented for one or the other of these cases. The remaining situation can be addressed through the mechanisms already in place that allow an RO to assign an Approved Yield under unusual circumstances.

Finally, one barrier to insuring fewer acres under an Irrigated Practice than were insured historically is being addressed by irrigation technologies. The change from flood irrigation to pivot circles seemed to make the circle the smallest unit that could be irrigated. It is now possible to irrigate portions of a circle. Consequently, if there is a reduction in the supply of water available for irrigation, fewer acres can be irrigated and the amount of the decrease in acreage is technologically manageable.

The benefit of adding a Limited Irrigation practice is providing an additional option for producers facing limits in the supply of available water. While many producers were not happy that they might be required to irrigate fewer acres with a limited water supply, none indicated they would prefer to water the same number of acres with less water per acre and a reduced Approved Yield.

The Contractor believes properly addressing Efficient Irrigation along with the current procedures for addressing a reduced irrigation water supply will be the best approach. It is a change that will be accepted by insureds. It is a change that recognizes current farming practices. Furthermore, the current procedures allow a case by case decision to provide a reduced Approved Yield if that is the option the insured would prefer. Implementing Limited Irrigation nationwide for all crops is unlikely to resolve any issues that currently exist and is likely to create problems that do not now exist.

## Appendix A

### 2014 Insurance Offers under an Irrigated Practice

**Table A1. 2014 Practice Codes on Insurance Offers for Crops  
Grown under an Irrigated Practice**

<b>Practice Code</b>	<b>Practice</b>	<b>Practice Code</b>	<b>Practice</b>
2	Irrigated	190	Fall Planted Late Season Irr.(OC)
10	Irrigated Without Cover Crop	191	Fall Planted Late Season Irr.(OT)
12	Irrigated With Cover Crop	192	Spring Planted Early Season Irr.(OC)
26	Irrigated (Spring)	193	Spring Planted Early Season Irr.(OT)
27	Irrigated (Fall)	194	Spring Planted Late Season Irr.(OC)
32	Irr. With Frost Protection	195	Spring Planted Late Season Irr.(OT)
32	Irrigated - Tray Dried	196	Winter Planted Early Season Irr.
42	Irr. Without Frost Protection	197	Winter Planted Late Season Irr.
42	Irrigated - Natural	198	Winter Planted Early Season Irr.(OC)
82	Fall Seeded (Irr.)	199	Winter Planted Early Season Irr.(OT)
85	Nibr-I	200	Winter Planted Late Season Irr.(OC)
92	Ibr-I	201	Winter Planted Late Season Irr.(OT)
92	Spring Seeded (Irr.)	202	Fall Pltd Seed-To-Seed (Irr)
94	Nfac (Irrigated)	211	Winter Planted Irrigated
95	Fac (Irrigated)	220	Winter Planted Irr.
102	Established Stand (Irr)	230	Winter Direct Seeded Irr.
110	Spp (Irrigated)	240	Winter Transplanted Irr.
111	Dpp (Irrigated)	240	Winter Transplanted Irrigated
114	Early (Irrigated)	241	Wtr. Transpltd Irr Staked
115	Late (Irrigated)	250	Standard Density (Irrigated)
120	Fall Planted Irr.	251	Standard Density (Irrigated) (OC)
121	Spring Irrigated	252	Standard Density (Irrigated) (OT)
123	Fall Irrigated	253	High Density (Irrigated)
130	Fall Direct Seeded Irr.	254	High Density (Irrigated) (OC)
130	Fall Direct Seeded Irrigated	255	High Density (Irrigated) (OT)
140	Fall Transplanted Irr.	256	Super High Density (Irrigated)
141	Fall Transpltd Irr Staked	257	Super High Density (Irrigated) (OC)
143	Fall Transpltd Irr Mulch Staked	258	Super High Density (Irrigated) (OT)
144	Fall Transpltd Irr Unmulch Staked	302	Spring Pltd Seed-To-Seed (Irr)
181	Fall Planted Early Season Irr.	320	Spring Planted Irr.
182	Fall Planted Mid Season Irr.	330	Spring Direct Seeded Irr.
183	Fall Planted Late Season Irr.	340	Spring Transplanted Irr.
184	Spring Planted Early Season Irr.	341	Spr. Transpltd Irr Staked
185	Spring Planted Late Season Irr.	343	Spr Transpltd Irr Mulch Staked
186	Fall Planted Early Season Irr.(OC)	344	Spr Transpltd Irr Unmulch Stake
187	Fall Planted Early Season Irr.(OT)	347	Spr Transpltd N-Irr Mulch Stake
188	Fall Planted Mid Season Irr.(OC)	420	Summer Planted Irr.
189	Fall Planted Mid Season Irr.(OT)	503	Irr. Mulch Staked

<b>Practice Code</b>	<b>Practice</b>	<b>Practice Code</b>	<b>Practice</b>
702	Organic (Certified) Irr.	787	Wtr. Transpltd Irr Staked(OC)
702	Organic(Certified) Irr.	788	Wtr. Transpltd Irr Staked(OT)
702	Organic(Certified)Irr.	791	Spr. Transpltd Irr Staked(OC)
703	Early Spring Planted	792	Spr. Transpltd Irr Staked(OT)
704	Fall Planted Irrigated	793	Irr. With Frost Protection(OC)
705	Spring Planted Irrigated	794	Irr. With Frost Protection(OT)
706	Summer Planted Irrigated	795	Irr. Without Frost Protection(OC)
712	Organic (Transitional) Irr.	796	Irr. Without Frost Protection(OT)
712	Organic(Transitional) Irr.	797	Irrigated Without Cover Crop(OC)
712	Organic(Transitional)Irr.	798	Irrigated Without Cover Crop(OT)
739	Nfac (Irrigated)(OC)	813	Irrigated With Cover Crop(OC)
740	Nfac (Irrigated)(OT)	814	Irrigated With Cover Crop(OT)
741	Fac (Irrigated)(OC)	817	Fall Direct Seeded Irrigated(OC)
742	Fac (Irrigated)(OT)	818	Fall Direct Seeded Irrigated(OT)
747	Fall Seeded (Irr.)(OC)	819	Winter Transplanted Irrigated(OC)
748	Fall Seeded (Irr.)(OT)	820	Winter Transplanted Irrigated(OT)
749	Spring Seeded(OC)	837	Spp (Irrigated)(OC)
750	Spring Seeded(OT)	838	Spp (Irrigated)(OT)
751	Spring Seeded (Irr.)(OC)	839	Dpp (Irrigated)(OC)
752	Spring Seeded (Irr.)(OT)	840	Dpp (Irrigated)(OT)
759	Fall Planted Irr.(OC)	845	Early (Irrigated)(OC)
760	Fall Planted Irr.(OT)	846	Early (Irrigated)(OT)
761	Winter Planted Irr.(OC)	847	Late (Irrigated)(OC)
762	Winter Planted Irr.(OT)	848	Late (Irrigated)(OT)
763	Spring Planted Irr.(OC)	851	Spring Irrigated(OC)
764	Spring Planted Irr.(OT)	852	Spring Irrigated(OT)
769	Fall Direct Seeded Irr.(OC)	855	Fall Irrigated(OC)
770	Fall Direct Seeded Irr.(OT)	856	Fall Irrigated(OT)
771	Fall Transplanted Irr.(OC)	857	Nibr-I(OC)
772	Fall Transplanted Irr.(OT)	858	Nibr-I(OT)
773	Winter Direct Seeded Irr.(OC)	861	Ibr-I(OC)
774	Winter Direct Seeded Irr.(OT)	862	Ibr-I(OT)
775	Winter Transplanted Irr.(OC)	865	Irrigated - Tray Dried(OC)
776	Winter Transplanted Irr.(OT)	866	Irrigated - Tray Dried(OT)
777	Spring Direct Seeded Irr.(OC)	867	Irrigated - Natural(OC)
778	Spring Direct Seeded Irr.(OT)	868	Irrigated - Natural(OT)
779	Spring Transplanted Irr.(OC)	915	Irrigated (Spring)(OC)
780	Spring Transplanted Irr.(OT)	916	Irrigated (Spring)(OT)
783	Fall Transpltd Irr Staked(OC)	917	Irrigated (Fall)(OC)
784	Fall Transpltd Irr Staked(OT)	918	Irrigated (Fall)(OT)



<b>Practice Code</b>	<b>Practice</b>
929	Summer Planted Irr.(OC)
930	Summer Planted Irr.(OT)
931	Fall Transpltd Irr Mulch Staked(OC)
932	Fall Transpltd Irr Mulch Staked(OT)
933	Fall Transpltd Irr Unmulch Staked(OC)
934	Fall Transpltd Irr Unmulch Staked(OT)
937	Spr Transpltd Irr Mulch Staked(OC)
938	Spr Transpltd Irr Mulch Staked(OT)
939	Spr Transpltd Irr Unmulch Stake(OC)
940	Spr Transpltd Irr Unmulch Stake(OT)
945	Irr. Mulch Staked(OC)
946	Irr. Mulch Staked(OT)
959	Established Stand (Irr)(OC)
960	Established Stand (Irr)(OT)
961	Fall Pltd Seed-To-Seed (Irr)(OC)
962	Fall Pltd Seed-To-Seed (Irr)(OT)
963	Spring Pltd Seed-To-Seed (Irr)(OC)
964	Spring Pltd Seed-To-Seed (Irr)(OT)
977	Winter Planted Irrigated(OC)
978	Winter Planted Irrigated(OT)
981	Fall Planted Irrigated(OC)
982	Fall Planted Irrigated(OT)
983	Spring Planted Irrigated(OC)
984	Spring Planted Irrigated(OT)
985	Summer Planted Irrigated(OC)
986	Summer Planted Irrigated(OT)

**Table A2. 2014 Insured Crops Grown under an Irrigated Practice  
By Crop, Plan, Type, and Practice**

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
11	Wheat	1	Yield Protection	15	Durum	2	Irrigated
11	Wheat	1	Yield Protection	11	Winter	2	Irrigated
11	Wheat	1	Yield Protection	12	Spring	2	Irrigated
11	Wheat	1	Yield Protection	997	No Type Specified	2	Irrigated
11	Wheat	2	Revenue Protection	997	No Type Specified	2	Irrigated
11	Wheat	2	Revenue Protection	12	Spring	2	Irrigated
11	Wheat	2	Revenue Protection	15	Durum	2	Irrigated
11	Wheat	2	Revenue Protection	11	Winter	2	Irrigated
11	Wheat	3	Revenue Prot with Harvest Price Exclusion	15	Durum	2	Irrigated
11	Wheat	3	Revenue Prot with Harvest Price Exclusion	11	Winter	2	Irrigated
11	Wheat	3	Revenue Prot with Harvest Price Exclusion	12	Spring	2	Irrigated
11	Wheat	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	2	Irrigated
11	Wheat	4	Area Yield Protection	11	Winter	2	Irrigated
11	Wheat	4	Area Yield Protection	15	Durum	2	Irrigated
11	Wheat	4	Area Yield Protection	12	Spring	2	Irrigated
11	Wheat	4	Area Yield Protection	997	No Type Specified	2	Irrigated
11	Wheat	5	Area Revenue Protection	997	No Type Specified	2	Irrigated
11	Wheat	5	Area Revenue Protection	15	Durum	2	Irrigated
11	Wheat	5	Area Revenue Protection	11	Winter	2	Irrigated
11	Wheat	5	Area Revenue Protection	12	Spring	2	Irrigated
11	Wheat	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	2	Irrigated
11	Wheat	6	Area Revenue Protection - Harvest Price Exclusion	15	Durum	2	Irrigated
11	Wheat	6	Area Revenue Protection - Harvest Price Exclusion	12	Spring	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
11	Wheat	6	Area Revenue Protection - Harvest Price Exclusion	11	Winter	2	Irrigated
11	Wheat	1	Yield Protection	15	Durum	702	Organic(Certified) Irr.
11	Wheat	1	Yield Protection	11	Winter	702	Organic(Certified) Irr.
11	Wheat	1	Yield Protection	997	No Type Specified	702	Organic(Certified) Irr.
11	Wheat	1	Yield Protection	12	Spring	702	Organic(Certified) Irr.
11	Wheat	2	Revenue Protection	15	Durum	702	Organic(Certified) Irr.
11	Wheat	2	Revenue Protection	11	Winter	702	Organic(Certified) Irr.
11	Wheat	2	Revenue Protection	997	No Type Specified	702	Organic(Certified) Irr.
11	Wheat	2	Revenue Protection	12	Spring	702	Organic(Certified) Irr.
11	Wheat	3	Revenue Prot with Harvest Price Exclusion	15	Durum	702	Organic(Certified) Irr.
11	Wheat	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	702	Organic(Certified) Irr.
11	Wheat	3	Revenue Prot with Harvest Price Exclusion	11	Winter	702	Organic(Certified) Irr.
11	Wheat	3	Revenue Prot with Harvest Price Exclusion	12	Spring	702	Organic(Certified) Irr.
11	Wheat	4	Area Yield Protection	15	Durum	702	Organic(Certified) Irr.
11	Wheat	4	Area Yield Protection	12	Spring	702	Organic(Certified) Irr.
11	Wheat	4	Area Yield Protection	997	No Type Specified	702	Organic(Certified) Irr.
11	Wheat	4	Area Yield Protection	11	Winter	702	Organic(Certified) Irr.
11	Wheat	5	Area Revenue Protection	11	Winter	702	Organic(Certified) Irr.
11	Wheat	5	Area Revenue Protection	997	No Type Specified	702	Organic(Certified) Irr.
11	Wheat	5	Area Revenue Protection	12	Spring	702	Organic(Certified) Irr.
11	Wheat	5	Area Revenue Protection	15	Durum	702	Organic(Certified) Irr.
11	Wheat	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	702	Organic(Certified) Irr.
11	Wheat	6	Area Revenue Protection - Harvest Price Exclusion	15	Durum	702	Organic(Certified) Irr.
11	Wheat	6	Area Revenue Protection - Harvest Price Exclusion	11	Winter	702	Organic(Certified) Irr.
11	Wheat	6	Area Revenue Protection - Harvest Price Exclusion	12	Spring	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
			Price Exclusion				
11	Wheat	1	Yield Protection	15	Durum	712	Organic(Transitional) Irr.
11	Wheat	1	Yield Protection	11	Winter	712	Organic(Transitional) Irr.
11	Wheat	1	Yield Protection	997	No Type Specified	712	Organic(Transitional) Irr.
11	Wheat	1	Yield Protection	12	Spring	712	Organic(Transitional) Irr.
11	Wheat	2	Revenue Protection	15	Durum	712	Organic(Transitional) Irr.
11	Wheat	2	Revenue Protection	11	Winter	712	Organic(Transitional) Irr.
11	Wheat	2	Revenue Protection	12	Spring	712	Organic(Transitional) Irr.
11	Wheat	2	Revenue Protection	997	No Type Specified	712	Organic(Transitional) Irr.
11	Wheat	3	Revenue Prot with Harvest Price Exclusion	12	Spring	712	Organic(Transitional) Irr.
11	Wheat	3	Revenue Prot with Harvest Price Exclusion	11	Winter	712	Organic(Transitional) Irr.
11	Wheat	3	Revenue Prot with Harvest Price Exclusion	15	Durum	712	Organic(Transitional) Irr.
11	Wheat	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	712	Organic(Transitional) Irr.
11	Wheat	4	Area Yield Protection	997	No Type Specified	712	Organic(Transitional) Irr.
11	Wheat	4	Area Yield Protection	15	Durum	712	Organic(Transitional) Irr.
11	Wheat	4	Area Yield Protection	12	Spring	712	Organic(Transitional) Irr.
11	Wheat	4	Area Yield Protection	11	Winter	712	Organic(Transitional) Irr.
11	Wheat	5	Area Revenue Protection	11	Winter	712	Organic(Transitional) Irr.
11	Wheat	5	Area Revenue Protection	12	Spring	712	Organic(Transitional) Irr.
11	Wheat	5	Area Revenue Protection	15	Durum	712	Organic(Transitional) Irr.
11	Wheat	5	Area Revenue Protection	997	No Type Specified	712	Organic(Transitional) Irr.
11	Wheat	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	712	Organic(Transitional) Irr.
11	Wheat	6	Area Revenue Protection - Harvest Price Exclusion	12	Spring	712	Organic(Transitional) Irr.
11	Wheat	6	Area Revenue Protection - Harvest Price Exclusion	11	Winter	712	Organic(Transitional) Irr.
11	Wheat	6	Area Revenue Protection - Harvest Price Exclusion	15	Durum	712	Organic(Transitional) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
12	Blueberries	90	APH	6	Early To Late Highbush (Group B)	2	Irrigated
12	Blueberries	90	APH	4	Lowbush	2	Irrigated
12	Blueberries	90	APH	7	Very Late Highbush & Rabbiteye (Group A)	2	Irrigated
12	Blueberries	90	APH	1	Rabbiteye	2	Irrigated
12	Blueberries	90	APH	2	Highbush	2	Irrigated
12	Blueberries	90	APH	2	Highbush	32	Irr. With Frost Protection
12	Blueberries	90	APH	1	Rabbiteye	32	Irr. With Frost Protection
12	Blueberries	90	APH	1	Rabbiteye	42	Irr. Without Frost Protection
12	Blueberries	90	APH	2	Highbush	42	Irr. Without Frost Protection
12	Blueberries	90	APH	2	Highbush	702	Organic(Certified) Irr.
12	Blueberries	90	APH	6	Early To Late Highbush (Group B)	702	Organic(Certified) Irr.
12	Blueberries	90	APH	1	Rabbiteye	702	Organic(Certified) Irr.
12	Blueberries	90	APH	7	Very Late Highbush & Rabbiteye (Group A)	702	Organic(Certified) Irr.
12	Blueberries	90	APH	4	Lowbush	702	Organic(Certified) Irr.
12	Blueberries	90	APH	4	Lowbush	712	Organic(Transitional) Irr.
12	Blueberries	90	APH	6	Early To Late Highbush (Group B)	712	Organic(Transitional) Irr.
12	Blueberries	90	APH	1	Rabbiteye	712	Organic(Transitional) Irr.
12	Blueberries	90	APH	7	Very Late Highbush & Rabbiteye (Group A)	712	Organic(Transitional) Irr.
12	Blueberries	90	APH	2	Highbush	712	Organic(Transitional) Irr.
12	Blueberries	90	APH	2	Highbush	793	Irr. With Frost Protection(OC)
12	Blueberries	90	APH	1	Rabbiteye	793	Irr. With Frost Protection(OC)
12	Blueberries	90	APH	1	Rabbiteye	794	Irr. With Frost Protection(OT)
12	Blueberries	90	APH	2	Highbush	794	Irr. With Frost Protection(OT)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
12	Blueberries	90	APH	2	Highbush	795	Irr. Without Frost Protection(OC)
12	Blueberries	90	APH	1	Rabbiteye	795	Irr. Without Frost Protection(OC)
12	Blueberries	90	APH	2	Highbush	796	Irr. Without Frost Protection(OT)
12	Blueberries	90	APH	1	Rabbiteye	796	Irr. Without Frost Protection(OT)
13	Onions	90	APH	223	Fall Planted Whites & Yellows (Processed)	2	Irrigated
13	Onions	90	APH	205	Fall Planted Whites & Yellows	2	Irrigated
13	Onions	90	APH	170	Reds	2	Irrigated
13	Onions	90	APH	215	Spring Planted Whites & Yellows	2	Irrigated
13	Onions	90	APH	180	Whites	2	Irrigated
13	Onions	90	APH	228	Winter Planted Whites & Yellows	2	Irrigated
13	Onions	90	APH	190	Yellows	2	Irrigated
13	Onions	90	APH	190	Yellows	10	Irrigated Without Cover Crop
13	Onions	90	APH	170	Reds	10	Irrigated Without Cover Crop
13	Onions	90	APH	180	Whites	10	Irrigated Without Cover Crop
13	Onions	90	APH	190	Yellows	12	Irrigated With Cover Crop
13	Onions	90	APH	170	Reds	12	Irrigated With Cover Crop
13	Onions	90	APH	180	Whites	12	Irrigated With Cover Crop
13	Onions	90	APH	200	Granex (Non-Storage)	130	Fall Direct Seeded Irrigated
13	Onions	90	APH	200	Granex (Non-Storage)	240	Winter Transplanted Irrigated
13	Onions	90	APH	180	Whites	320	Spring Planted Irr.
13	Onions	90	APH	190	Yellows	320	Spring Planted Irr.
13	Onions	90	APH	170	Reds	320	Spring Planted Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
13	Onions	90	APH	180	Whites	702	Organic(Certified) Irr.
13	Onions	90	APH	205	Fall Planted Whites & Yellows	702	Organic(Certified) Irr.
13	Onions	90	APH	190	Yellows	702	Organic(Certified) Irr.
13	Onions	90	APH	215	Spring Planted Whites & Yellows	702	Organic(Certified) Irr.
13	Onions	90	APH	228	Winter Planted Whites & Yellows	702	Organic(Certified) Irr.
13	Onions	90	APH	170	Reds	702	Organic(Certified) Irr.
13	Onions	90	APH	223	Fall Planted Whites & Yellows (Processed)	702	Organic(Certified) Irr.
13	Onions	90	APH	205	Fall Planted Whites & Yellows	712	Organic(Transitional) Irr.
13	Onions	90	APH	190	Yellows	712	Organic(Transitional) Irr.
13	Onions	90	APH	215	Spring Planted Whites & Yellows	712	Organic(Transitional) Irr.
13	Onions	90	APH	180	Whites	712	Organic(Transitional) Irr.
13	Onions	90	APH	223	Fall Planted Whites & Yellows (Processed)	712	Organic(Transitional) Irr.
13	Onions	90	APH	170	Reds	712	Organic(Transitional) Irr.
13	Onions	90	APH	228	Winter Planted Whites & Yellows	712	Organic(Transitional) Irr.
13	Onions	90	APH	190	Yellows	763	Spring Planted Irr.(OC)
13	Onions	90	APH	170	Reds	763	Spring Planted Irr.(OC)
13	Onions	90	APH	180	Whites	763	Spring Planted Irr.(OC)
13	Onions	90	APH	190	Yellows	764	Spring Planted Irr.(OT)
13	Onions	90	APH	170	Reds	764	Spring Planted Irr.(OT)
13	Onions	90	APH	180	Whites	764	Spring Planted Irr.(OT)
13	Onions	90	APH	170	Reds	797	Irrigated Without Cover Crop(OC)
13	Onions	90	APH	190	Yellows	797	Irrigated Without Cover Crop(OC)
13	Onions	90	APH	180	Whites	797	Irrigated Without Cover Crop(OC)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
13	Onions	90	APH	170	Reds	798	Irrigated Without Cover Crop(OT)
13	Onions	90	APH	190	Yellows	798	Irrigated Without Cover Crop(OT)
13	Onions	90	APH	180	Whites	798	Irrigated Without Cover Crop(OT)
13	Onions	90	APH	180	Whites	813	Irrigated With Cover Crop(OC)
13	Onions	90	APH	190	Yellows	813	Irrigated With Cover Crop(OC)
13	Onions	90	APH	170	Reds	813	Irrigated With Cover Crop(OC)
13	Onions	90	APH	180	Whites	814	Irrigated With Cover Crop(OT)
13	Onions	90	APH	190	Yellows	814	Irrigated With Cover Crop(OT)
13	Onions	90	APH	170	Reds	814	Irrigated With Cover Crop(OT)
13	Onions	90	APH	200	Granex (Non-Storage)	817	Fall Direct Seeded Irrigated(OC)
13	Onions	90	APH	200	Granex (Non-Storage)	818	Fall Direct Seeded Irrigated(OT)
13	Onions	90	APH	200	Granex (Non-Storage)	819	Winter Transplanted Irrigated(OC)
13	Onions	90	APH	200	Granex (Non-Storage)	820	Winter Transplanted Irrigated(OT)
15	Canola	1	Yield Protection	384	Spring High Oleic Canola	2	Irrigated
15	Canola	1	Yield Protection	285	Fall Oleic Canola	2	Irrigated
15	Canola	1	Yield Protection	286	Spring Oleic Canola	2	Irrigated
15	Canola	1	Yield Protection	288	Spring High Erucic Rapeseed	2	Irrigated
15	Canola	1	Yield Protection	287	Fall High Erucic Rapeseed	2	Irrigated
15	Canola	1	Yield Protection	284	Fall Seeded	2	Irrigated
15	Canola	2	Revenue Protection	286	Spring Oleic Canola	2	Irrigated
15	Canola	2	Revenue Protection	284	Fall Seeded	2	Irrigated
15	Canola	2	Revenue Protection	384	Spring High Oleic Canola	2	Irrigated



Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
15	Canola	2	Revenue Protection	287	Fall High Erucic Rapeseed	2	Irrigated
15	Canola	2	Revenue Protection	285	Fall Oleic Canola	2	Irrigated
15	Canola	2	Revenue Protection	288	Spring High Erucic Rapeseed	2	Irrigated
15	Canola	3	Revenue Prot with Harvest Price Exclusion	287	Fall High Erucic Rapeseed	2	Irrigated
15	Canola	3	Revenue Prot with Harvest Price Exclusion	284	Fall Seeded	2	Irrigated
15	Canola	3	Revenue Prot with Harvest Price Exclusion	286	Spring Oleic Canola	2	Irrigated
15	Canola	3	Revenue Prot with Harvest Price Exclusion	384	Spring High Oleic Canola	2	Irrigated
15	Canola	3	Revenue Prot with Harvest Price Exclusion	285	Fall Oleic Canola	2	Irrigated
15	Canola	3	Revenue Prot with Harvest Price Exclusion	288	Spring High Erucic Rapeseed	2	Irrigated
15	Canola	1	Yield Protection	384	Spring High Oleic Canola	702	Organic(Certified) Irr.
15	Canola	1	Yield Protection	288	Spring High Erucic Rapeseed	702	Organic(Certified) Irr.
15	Canola	1	Yield Protection	285	Fall Oleic Canola	702	Organic(Certified) Irr.
15	Canola	1	Yield Protection	286	Spring Oleic Canola	702	Organic(Certified) Irr.
15	Canola	1	Yield Protection	284	Fall Seeded	702	Organic(Certified) Irr.
15	Canola	1	Yield Protection	287	Fall High Erucic Rapeseed	702	Organic(Certified) Irr.
15	Canola	2	Revenue Protection	288	Spring High Erucic Rapeseed	702	Organic(Certified) Irr.
15	Canola	2	Revenue Protection	285	Fall Oleic Canola	702	Organic(Certified) Irr.
15	Canola	2	Revenue Protection	384	Spring High Oleic Canola	702	Organic(Certified) Irr.
15	Canola	2	Revenue Protection	287	Fall High Erucic Rapeseed	702	Organic(Certified) Irr.
15	Canola	2	Revenue Protection	286	Spring Oleic Canola	702	Organic(Certified) Irr.
15	Canola	2	Revenue Protection	284	Fall Seeded	702	Organic(Certified) Irr.
15	Canola	3	Revenue Prot with Harvest Price Exclusion	284	Fall Seeded	702	Organic(Certified) Irr.
15	Canola	3	Revenue Prot with Harvest Price Exclusion	286	Spring Oleic Canola	702	Organic(Certified) Irr.
15	Canola	3	Revenue Prot with Harvest Price Exclusion	288	Spring High Erucic Rapeseed	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
15	Canola	3	Revenue Prot with Harvest Price Exclusion	287	Fall High Erucic Rapeseed	702	Organic(Certified) Irr.
15	Canola	3	Revenue Prot with Harvest Price Exclusion	384	Spring High Oleic Canola	702	Organic(Certified) Irr.
15	Canola	3	Revenue Prot with Harvest Price Exclusion	285	Fall Oleic Canola	702	Organic(Certified) Irr.
15	Canola	1	Yield Protection	285	Fall Oleic Canola	712	Organic(Transitional) Irr.
15	Canola	1	Yield Protection	288	Spring High Erucic Rapeseed	712	Organic(Transitional) Irr.
15	Canola	1	Yield Protection	284	Fall Seeded	712	Organic(Transitional) Irr.
15	Canola	1	Yield Protection	384	Spring High Oleic Canola	712	Organic(Transitional) Irr.
15	Canola	1	Yield Protection	287	Fall High Erucic Rapeseed	712	Organic(Transitional) Irr.
15	Canola	1	Yield Protection	286	Spring Oleic Canola	712	Organic(Transitional) Irr.
15	Canola	2	Revenue Protection	286	Spring Oleic Canola	712	Organic(Transitional) Irr.
15	Canola	2	Revenue Protection	384	Spring High Oleic Canola	712	Organic(Transitional) Irr.
15	Canola	2	Revenue Protection	284	Fall Seeded	712	Organic(Transitional) Irr.
15	Canola	2	Revenue Protection	287	Fall High Erucic Rapeseed	712	Organic(Transitional) Irr.
15	Canola	2	Revenue Protection	285	Fall Oleic Canola	712	Organic(Transitional) Irr.
15	Canola	2	Revenue Protection	288	Spring High Erucic Rapeseed	712	Organic(Transitional) Irr.
15	Canola	3	Revenue Prot with Harvest Price Exclusion	284	Fall Seeded	712	Organic(Transitional) Irr.
15	Canola	3	Revenue Prot with Harvest Price Exclusion	286	Spring Oleic Canola	712	Organic(Transitional) Irr.
15	Canola	3	Revenue Prot with Harvest Price Exclusion	288	Spring High Erucic Rapeseed	712	Organic(Transitional) Irr.
15	Canola	3	Revenue Prot with Harvest Price Exclusion	384	Spring High Oleic Canola	712	Organic(Transitional) Irr.
15	Canola	3	Revenue Prot with Harvest Price Exclusion	287	Fall High Erucic Rapeseed	712	Organic(Transitional) Irr.
15	Canola	3	Revenue Prot with Harvest Price Exclusion	285	Fall Oleic Canola	712	Organic(Transitional) Irr.
16	Oats	90	APH	17	Spring	2	Irrigated
16	Oats	90	APH	997	No Type Specified	2	Irrigated
16	Oats	90	APH	16	Winter	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
16	Oats	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
16	Oats	90	APH	16	Winter	702	Organic(Certified) Irr.
16	Oats	90	APH	17	Spring	702	Organic(Certified) Irr.
16	Oats	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
16	Oats	90	APH	16	Winter	712	Organic(Transitional) Irr.
16	Oats	90	APH	17	Spring	712	Organic(Transitional) Irr.
17	Millet	90	APH	50	Proso	2	Irrigated
17	Millet	90	APH	50	Proso	702	Organic(Certified) Irr.
17	Millet	90	APH	50	Proso	712	Organic(Transitional) Irr.
18	Rice	1	Yield Protection	451	Short Grain	2	Irrigated
18	Rice	1	Yield Protection	452	Medium Grain	2	Irrigated
18	Rice	1	Yield Protection	453	Long Grain	2	Irrigated
18	Rice	2	Revenue Protection	452	Medium Grain	2	Irrigated
18	Rice	2	Revenue Protection	453	Long Grain	2	Irrigated
18	Rice	2	Revenue Protection	451	Short Grain	2	Irrigated
18	Rice	3	Revenue Prot with Harvest Price Exclusion	452	Medium Grain	2	Irrigated
18	Rice	3	Revenue Prot with Harvest Price Exclusion	451	Short Grain	2	Irrigated
18	Rice	3	Revenue Prot with Harvest Price Exclusion	453	Long Grain	2	Irrigated
18	Rice	1	Yield Protection	453	Long Grain	702	Organic(Certified) Irr.
18	Rice	1	Yield Protection	451	Short Grain	702	Organic(Certified) Irr.
18	Rice	1	Yield Protection	452	Medium Grain	702	Organic(Certified) Irr.
18	Rice	2	Revenue Protection	452	Medium Grain	702	Organic(Certified) Irr.
18	Rice	2	Revenue Protection	451	Short Grain	702	Organic(Certified) Irr.
18	Rice	2	Revenue Protection	453	Long Grain	702	Organic(Certified) Irr.
18	Rice	3	Revenue Prot with Harvest Price Exclusion	453	Long Grain	702	Organic(Certified) Irr.
18	Rice	3	Revenue Prot with Harvest Price Exclusion	451	Short Grain	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
18	Rice	3	Revenue Prot with Harvest Price Exclusion	452	Medium Grain	702	Organic(Certified) Irr.
18	Rice	1	Yield Protection	453	Long Grain	712	Organic(Transitional) Irr.
18	Rice	1	Yield Protection	452	Medium Grain	712	Organic(Transitional) Irr.
18	Rice	1	Yield Protection	451	Short Grain	712	Organic(Transitional) Irr.
18	Rice	2	Revenue Protection	452	Medium Grain	712	Organic(Transitional) Irr.
18	Rice	2	Revenue Protection	451	Short Grain	712	Organic(Transitional) Irr.
18	Rice	2	Revenue Protection	453	Long Grain	712	Organic(Transitional) Irr.
18	Rice	3	Revenue Prot with Harvest Price Exclusion	452	Medium Grain	712	Organic(Transitional) Irr.
18	Rice	3	Revenue Prot with Harvest Price Exclusion	453	Long Grain	712	Organic(Transitional) Irr.
18	Rice	3	Revenue Prot with Harvest Price Exclusion	451	Short Grain	712	Organic(Transitional) Irr.
19	Avocados	90	APH	55	Hass	2	Irrigated
19	Avocados	90	APH	55	Hass	702	Organic(Certified) Irr.
19	Avocados	90	APH	55	Hass	712	Organic(Transitional) Irr.
20	Pecans	41	Pecan Revenue	999	All Varieties	2	Irrigated
20	Pecans	41	Pecan Revenue	999	All Varieties	702	Organic(Certified) Irr.
20	Pecans	41	Pecan Revenue	999	All Varieties	712	Organic(Transitional) Irr.
21	Cotton	1	Yield Protection	997	No Type Specified	2	Irrigated
21	Cotton	2	Revenue Protection	997	No Type Specified	2	Irrigated
21	Cotton	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	2	Irrigated
21	Cotton	4	Area Yield Protection	997	No Type Specified	2	Irrigated
21	Cotton	5	Area Revenue Protection	997	No Type Specified	2	Irrigated
21	Cotton	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	2	Irrigated
21	Cotton	1	Yield Protection	997	No Type Specified	702	Organic(Certified) Irr.
21	Cotton	2	Revenue Protection	997	No Type Specified	702	Organic(Certified) Irr.
21	Cotton	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
21	Cotton	4	Area Yield Protection	997	No Type Specified	702	Organic(Certified) Irr.
21	Cotton	5	Area Revenue Protection	997	No Type Specified	702	Organic(Certified) Irr.
21	Cotton	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	702	Organic(Certified) Irr.
21	Cotton	1	Yield Protection	997	No Type Specified	712	Organic(Transitional) Irr.
21	Cotton	2	Revenue Protection	997	No Type Specified	712	Organic(Transitional) Irr.
21	Cotton	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	712	Organic(Transitional) Irr.
21	Cotton	4	Area Yield Protection	997	No Type Specified	712	Organic(Transitional) Irr.
21	Cotton	5	Area Revenue Protection	997	No Type Specified	712	Organic(Transitional) Irr.
21	Cotton	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	712	Organic(Transitional) Irr.
22	Cotton Ex Long Staple	90	APH	997	No Type Specified	2	Irrigated
22	Cotton Ex Long Staple	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
22	Cotton Ex Long Staple	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
23	Macadamia Nuts	90	APH	997	No Type Specified	2	Irrigated
23	Macadamia Nuts	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
23	Macadamia Nuts	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
24	Macadamia Trees	50	Dollar Amount Of Insurance	997	No Type Specified	2	Irrigated
24	Macadamia Trees	50	Dollar Amount Of Insurance	997	No Type Specified	702	Organic(Certified) Irr.
24	Macadamia Trees	50	Dollar Amount Of Insurance	997	No Type Specified	712	Organic(Transitional) Irr.
28	Almonds	90	APH	997	No Type Specified	2	Irrigated
28	Almonds	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
28	Almonds	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
29	Walnuts	90	APH	997	No Type Specified	2	Irrigated
29	Walnuts	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
29	Walnuts	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
31	Flax	90	APH	997	No Type Specified	2	Irrigated
31	Flax	90	APH	997	No Type Specified	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
31	Flax	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
32	Forage Seeding	50	Dollar Amount Of Insurance	997	No Type Specified	2	Irrigated
32	Forage Seeding	50	Dollar Amount Of Insurance	997	No Type Specified	82	Fall Seeded (Irr.)
32	Forage Seeding	50	Dollar Amount Of Insurance	997	No Type Specified	92	Spring Seeded (Irr.)
32	Forage Seeding	50	Dollar Amount Of Insurance	57	Birdsfoot Trefoil Grass Mixture	92	Spring Seeded (Irr.)
32	Forage Seeding	50	Dollar Amount Of Insurance	52	Alfalfa Grass Mixture	92	Spring Seeded (Irr.)
32	Forage Seeding	50	Dollar Amount Of Insurance	51	Alfalfa	92	Spring Seeded (Irr.)
32	Forage Seeding	50	Dollar Amount Of Insurance	56	Birdsfoot Trefoil	92	Spring Seeded (Irr.)
32	Forage Seeding	50	Dollar Amount Of Insurance	54	Red Clover	92	Spring Seeded (Irr.)
32	Forage Seeding	50	Dollar Amount Of Insurance	997	No Type Specified	702	Organic(Certified) Irr.
32	Forage Seeding	50	Dollar Amount Of Insurance	997	No Type Specified	712	Organic(Transitional) Irr.
32	Forage Seeding	50	Dollar Amount Of Insurance	997	No Type Specified	747	Fall Seeded (Irr.)(OC)
32	Forage Seeding	50	Dollar Amount Of Insurance	997	No Type Specified	748	Fall Seeded (Irr.)(OT)
32	Forage Seeding	50	Dollar Amount Of Insurance	997	No Type Specified	749	Spring Seeded(OC)
32	Forage Seeding	50	Dollar Amount Of Insurance	997	No Type Specified	750	Spring Seeded(OT)
32	Forage Seeding	50	Dollar Amount Of Insurance	54	Red Clover	751	Spring Seeded (Irr.)(OC)
32	Forage Seeding	50	Dollar Amount Of Insurance	52	Alfalfa Grass Mixture	751	Spring Seeded (Irr.)(OC)
32	Forage Seeding	50	Dollar Amount Of Insurance	51	Alfalfa	751	Spring Seeded (Irr.)(OC)
32	Forage Seeding	50	Dollar Amount Of Insurance	56	Birdsfoot Trefoil	751	Spring Seeded (Irr.)(OC)
32	Forage Seeding	50	Dollar Amount Of Insurance	57	Birdsfoot Trefoil Grass Mixture	751	Spring Seeded (Irr.)(OC)
32	Forage Seeding	50	Dollar Amount Of Insurance	997	No Type Specified	751	Spring Seeded (Irr.)(OC)
32	Forage Seeding	50	Dollar Amount Of Insurance	56	Birdsfoot Trefoil	752	Spring Seeded (Irr.)(OT)
32	Forage Seeding	50	Dollar Amount Of Insurance	54	Red Clover	752	Spring Seeded (Irr.)(OT)
32	Forage Seeding	50	Dollar Amount Of Insurance	57	Birdsfoot Trefoil Grass Mixture	752	Spring Seeded (Irr.)(OT)
32	Forage Seeding	50	Dollar Amount Of Insurance	997	No Type Specified	752	Spring Seeded (Irr.)(OT)
32	Forage Seeding	50	Dollar Amount Of Insurance	52	Alfalfa Grass Mixture	752	Spring Seeded (Irr.)(OT)
32	Forage Seeding	50	Dollar Amount Of Insurance	51	Alfalfa	752	Spring Seeded (Irr.)(OT)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
33	Forage Production	4	Area Yield Protection	551	Alfalfa	2	Irrigated
33	Forage Production	4	Area Yield Protection	58	Grass	2	Irrigated
33	Forage Production	4	Area Yield Protection	552	Alfalfa Grass Mixture	2	Irrigated
33	Forage Production	4	Area Yield Protection	554	Red Clover	2	Irrigated
33	Forage Production	90	APH	555	Grass Alfalfa Mixture	2	Irrigated
33	Forage Production	90	APH	556	Birdsfoot Trefoil	2	Irrigated
33	Forage Production	90	APH	552	Alfalfa Grass Mixture	2	Irrigated
33	Forage Production	90	APH	554	Red Clover	2	Irrigated
33	Forage Production	90	APH	551	Alfalfa	2	Irrigated
33	Forage Production	90	APH	557	Birdsfoot Trefoil Grass Mixture	2	Irrigated
33	Forage Production	4	Area Yield Protection	58	Grass	702	Organic(Certified) Irr.
33	Forage Production	4	Area Yield Protection	554	Red Clover	702	Organic(Certified) Irr.
33	Forage Production	4	Area Yield Protection	552	Alfalfa Grass Mixture	702	Organic(Certified) Irr.
33	Forage Production	4	Area Yield Protection	551	Alfalfa	702	Organic(Certified) Irr.
33	Forage Production	90	APH	551	Alfalfa	702	Organic(Certified) Irr.
33	Forage Production	90	APH	556	Birdsfoot Trefoil	702	Organic(Certified) Irr.
33	Forage Production	90	APH	555	Grass Alfalfa Mixture	702	Organic(Certified) Irr.
33	Forage Production	90	APH	552	Alfalfa Grass Mixture	702	Organic(Certified) Irr.
33	Forage Production	90	APH	557	Birdsfoot Trefoil Grass Mixture	702	Organic(Certified) Irr.
33	Forage Production	90	APH	554	Red Clover	702	Organic(Certified) Irr.
33	Forage Production	4	Area Yield Protection	554	Red Clover	712	Organic(Transitional) Irr.
33	Forage Production	4	Area Yield Protection	552	Alfalfa Grass Mixture	712	Organic(Transitional) Irr.
33	Forage Production	4	Area Yield Protection	58	Grass	712	Organic(Transitional) Irr.
33	Forage Production	4	Area Yield Protection	551	Alfalfa	712	Organic(Transitional) Irr.
33	Forage Production	90	APH	556	Birdsfoot Trefoil	712	Organic(Transitional) Irr.
33	Forage Production	90	APH	551	Alfalfa	712	Organic(Transitional) Irr.
33	Forage Production	90	APH	555	Grass Alfalfa Mixture	712	Organic(Transitional) Irr.
33	Forage Production	90	APH	557	Birdsfoot Trefoil Grass	712	Organic(Transitional) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
					Mixture		
33	Forage Production	90	APH	552	Alfalfa Grass Mixture	712	Organic(Transitional) Irr.
33	Forage Production	90	APH	554	Red Clover	712	Organic(Transitional) Irr.
34	Peaches	90	APH	101	Fresh	2	Irrigated
34	Peaches	90	APH	102	Processing	2	Irrigated
34	Peaches	90	APH	101	Fresh	702	Organic(Certified) Irr.
34	Peaches	90	APH	102	Processing	702	Organic(Certified) Irr.
34	Peaches	90	APH	101	Fresh	712	Organic(Transitional) Irr.
34	Peaches	90	APH	102	Processing	712	Organic(Transitional) Irr.
36	Prunes	90	APH	997	No Type Specified	2	Irrigated
36	Prunes	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
36	Prunes	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
38	Sugarcane	90	APH	997	No Type Specified	2	Irrigated
38	Sugarcane	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
38	Sugarcane	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
39	Sugar Beets	90	APH	997	No Type Specified	2	Irrigated
39	Sugar Beets	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
39	Sugar Beets	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
41	Corn	1	Yield Protection	383	Blue	2	Irrigated
41	Corn	1	Yield Protection	26	Silage	2	Irrigated
41	Corn	1	Yield Protection	16	Grain	2	Irrigated
41	Corn	1	Yield Protection	382	High Amylase	2	Irrigated
41	Corn	2	Revenue Protection	16	Grain	2	Irrigated
41	Corn	2	Revenue Protection	382	High Amylase	2	Irrigated
41	Corn	2	Revenue Protection	26	Silage	2	Irrigated
41	Corn	2	Revenue Protection	383	Blue	2	Irrigated
41	Corn	3	Revenue Prot with Harvest Price Exclusion	26	Silage	2	Irrigated
41	Corn	3	Revenue Prot with Harvest Price Exclusion	383	Blue	2	Irrigated



Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
41	Corn	3	Revenue Prot with Harvest Price Exclusion	16	Grain	2	Irrigated
41	Corn	3	Revenue Prot with Harvest Price Exclusion	382	High Amylase	2	Irrigated
41	Corn	4	Area Yield Protection	16	Grain	2	Irrigated
41	Corn	4	Area Yield Protection	9	Seed	2	Irrigated
41	Corn	4	Area Yield Protection	26	Silage	2	Irrigated
41	Corn	5	Area Revenue Protection	26	Silage	2	Irrigated
41	Corn	5	Area Revenue Protection	9	Seed	2	Irrigated
41	Corn	5	Area Revenue Protection	16	Grain	2	Irrigated
41	Corn	6	Area Revenue Protection - Harvest Price Exclusion	16	Grain	2	Irrigated
41	Corn	6	Area Revenue Protection - Harvest Price Exclusion	9	Seed	2	Irrigated
41	Corn	6	Area Revenue Protection - Harvest Price Exclusion	26	Silage	2	Irrigated
41	Corn	1	Yield Protection	16	Grain	702	Organic(Certified) Irr.
41	Corn	1	Yield Protection	383	Blue	702	Organic(Certified) Irr.
41	Corn	1	Yield Protection	26	Silage	702	Organic(Certified) Irr.
41	Corn	1	Yield Protection	382	High Amylase	702	Organic(Certified) Irr.
41	Corn	2	Revenue Protection	383	Blue	702	Organic(Certified) Irr.
41	Corn	2	Revenue Protection	26	Silage	702	Organic(Certified) Irr.
41	Corn	2	Revenue Protection	16	Grain	702	Organic(Certified) Irr.
41	Corn	2	Revenue Protection	382	High Amylase	702	Organic(Certified) Irr.
41	Corn	3	Revenue Prot with Harvest Price Exclusion	16	Grain	702	Organic(Certified) Irr.
41	Corn	3	Revenue Prot with Harvest Price Exclusion	26	Silage	702	Organic(Certified) Irr.
41	Corn	3	Revenue Prot with Harvest Price Exclusion	383	Blue	702	Organic(Certified) Irr.
41	Corn	3	Revenue Prot with Harvest Price Exclusion	382	High Amylase	702	Organic(Certified) Irr.
41	Corn	4	Area Yield Protection	16	Grain	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
41	Corn	4	Area Yield Protection	9	Seed	702	Organic(Certified) Irr.
41	Corn	4	Area Yield Protection	26	Silage	702	Organic(Certified) Irr.
41	Corn	5	Area Revenue Protection	26	Silage	702	Organic(Certified) Irr.
41	Corn	5	Area Revenue Protection	9	Seed	702	Organic(Certified) Irr.
41	Corn	5	Area Revenue Protection	16	Grain	702	Organic(Certified) Irr.
41	Corn	6	Area Revenue Protection - Harvest Price Exclusion	26	Silage	702	Organic(Certified) Irr.
41	Corn	6	Area Revenue Protection - Harvest Price Exclusion	16	Grain	702	Organic(Certified) Irr.
41	Corn	6	Area Revenue Protection - Harvest Price Exclusion	9	Seed	702	Organic(Certified) Irr.
41	Corn	1	Yield Protection	16	Grain	712	Organic(Transitional) Irr.
41	Corn	1	Yield Protection	26	Silage	712	Organic(Transitional) Irr.
41	Corn	1	Yield Protection	383	Blue	712	Organic(Transitional) Irr.
41	Corn	1	Yield Protection	382	High Amylase	712	Organic(Transitional) Irr.
41	Corn	2	Revenue Protection	383	Blue	712	Organic(Transitional) Irr.
41	Corn	2	Revenue Protection	16	Grain	712	Organic(Transitional) Irr.
41	Corn	2	Revenue Protection	26	Silage	712	Organic(Transitional) Irr.
41	Corn	2	Revenue Protection	382	High Amylase	712	Organic(Transitional) Irr.
41	Corn	3	Revenue Prot with Harvest Price Exclusion	26	Silage	712	Organic(Transitional) Irr.
41	Corn	3	Revenue Prot with Harvest Price Exclusion	16	Grain	712	Organic(Transitional) Irr.
41	Corn	3	Revenue Prot with Harvest Price Exclusion	383	Blue	712	Organic(Transitional) Irr.
41	Corn	3	Revenue Prot with Harvest Price Exclusion	382	High Amylase	712	Organic(Transitional) Irr.
41	Corn	4	Area Yield Protection	16	Grain	712	Organic(Transitional) Irr.
41	Corn	4	Area Yield Protection	9	Seed	712	Organic(Transitional) Irr.
41	Corn	4	Area Yield Protection	26	Silage	712	Organic(Transitional) Irr.
41	Corn	5	Area Revenue Protection	26	Silage	712	Organic(Transitional) Irr.
41	Corn	5	Area Revenue Protection	16	Grain	712	Organic(Transitional) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
41	Corn	5	Area Revenue Protection	9	Seed	712	Organic(Transitional) Irr.
41	Corn	6	Area Revenue Protection - Harvest Price Exclusion	16	Grain	712	Organic(Transitional) Irr.
41	Corn	6	Area Revenue Protection - Harvest Price Exclusion	9	Seed	712	Organic(Transitional) Irr.
41	Corn	6	Area Revenue Protection - Harvest Price Exclusion	26	Silage	712	Organic(Transitional) Irr.
42	Sweet Corn	90	APH	82	Other Golden	2	Irrigated
42	Sweet Corn	90	APH	81	Early Golden & White	2	Irrigated
42	Sweet Corn	90	APH	997	No Type Specified	2	Irrigated
42	Sweet Corn	90	APH	82	Other Golden	702	Organic(Certified) Irr.
42	Sweet Corn	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
42	Sweet Corn	90	APH	81	Early Golden & White	702	Organic(Certified) Irr.
42	Sweet Corn	90	APH	82	Other Golden	712	Organic(Transitional) Irr.
42	Sweet Corn	90	APH	81	Early Golden & White	712	Organic(Transitional) Irr.
42	Sweet Corn	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
43	Popcorn	1	Yield Protection	997	No Type Specified	2	Irrigated
43	Popcorn	2	Revenue Protection	997	No Type Specified	2	Irrigated
43	Popcorn	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	2	Irrigated
43	Popcorn	1	Yield Protection	997	No Type Specified	702	Organic(Certified) Irr.
43	Popcorn	2	Revenue Protection	997	No Type Specified	702	Organic(Certified) Irr.
43	Popcorn	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	702	Organic(Certified) Irr.
43	Popcorn	1	Yield Protection	997	No Type Specified	712	Organic(Transitional) Irr.
43	Popcorn	2	Revenue Protection	997	No Type Specified	712	Organic(Transitional) Irr.
43	Popcorn	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	712	Organic(Transitional) Irr.
44	Fresh Market Sweet Corn	50	Dollar Amount Of Insurance	997	No Type Specified	2	Irrigated
44	Fresh Market Sweet Corn	50	Dollar Amount Of Insurance	997	No Type Specified	120	Fall Planted Irr.
44	Fresh Market Sweet Corn	50	Dollar Amount Of Insurance	997	No Type Specified	220	Winter Planted Irr.

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Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
	Sweet Corn						
44	Fresh Market Sweet Corn	50	Dollar Amount Of Insurance	997	No Type Specified	320	Spring Planted Irr.
44	Fresh Market Sweet Corn	50	Dollar Amount Of Insurance	997	No Type Specified	702	Organic(Certified) Irr.
44	Fresh Market Sweet Corn	50	Dollar Amount Of Insurance	997	No Type Specified	712	Organic(Transitional) Irr.
44	Fresh Market Sweet Corn	50	Dollar Amount Of Insurance	997	No Type Specified	759	Fall Planted Irr.(OC)
44	Fresh Market Sweet Corn	50	Dollar Amount Of Insurance	997	No Type Specified	760	Fall Planted Irr.(OT)
44	Fresh Market Sweet Corn	50	Dollar Amount Of Insurance	997	No Type Specified	761	Winter Planted Irr.(OC)
44	Fresh Market Sweet Corn	50	Dollar Amount Of Insurance	997	No Type Specified	762	Winter Planted Irr.(OT)
44	Fresh Market Sweet Corn	50	Dollar Amount Of Insurance	997	No Type Specified	763	Spring Planted Irr.(OC)
44	Fresh Market Sweet Corn	50	Dollar Amount Of Insurance	997	No Type Specified	764	Spring Planted Irr.(OT)
45	Chile Peppers	51	Fixed Dollar	203	Cayenne	2	Irrigated
45	Chile Peppers	51	Fixed Dollar	201	Long Green New Mexican	2	Irrigated
45	Chile Peppers	51	Fixed Dollar	202	Long Red New Mexican	2	Irrigated
45	Chile Peppers	51	Fixed Dollar	204	Jalapeno	2	Irrigated
45	Chile Peppers	51	Fixed Dollar	203	Cayenne	702	Organic(Certified) Irr.
45	Chile Peppers	51	Fixed Dollar	202	Long Red New Mexican	702	Organic(Certified) Irr.
45	Chile Peppers	51	Fixed Dollar	201	Long Green New Mexican	702	Organic(Certified) Irr.
45	Chile Peppers	51	Fixed Dollar	204	Jalapeno	702	Organic(Certified) Irr.
45	Chile Peppers	51	Fixed Dollar	202	Long Red New Mexican	712	Organic(Transitional) Irr.
45	Chile Peppers	51	Fixed Dollar	203	Cayenne	712	Organic(Transitional) Irr.
45	Chile Peppers	51	Fixed Dollar	201	Long Green New Mexican	712	Organic(Transitional) Irr.
45	Chile Peppers	51	Fixed Dollar	204	Jalapeno	712	Organic(Transitional) Irr.
46	Processing Beans	90	APH	304	Italian	2	Irrigated
46	Processing Beans	90	APH	302	Limas	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
46	Processing Beans	90	APH	303	Baby Limas	2	Irrigated
46	Processing Beans	90	APH	161	Group A - Snap Beans	2	Irrigated
46	Processing Beans	90	APH	301	Snap	2	Irrigated
46	Processing Beans	90	APH	306	Petite	2	Irrigated
46	Processing Beans	90	APH	305	Wax	2	Irrigated
46	Processing Beans	90	APH	307	Green And Other Unlisted Types	2	Irrigated
46	Processing Beans	90	APH	261	Group B - Snap Beans	2	Irrigated
46	Processing Beans	90	APH	301	Snap	94	Nfac (Irrigated)
46	Processing Beans	90	APH	301	Snap	95	Fac (Irrigated)
46	Processing Beans	90	APH	304	Italian	110	Spp (Irrigated)
46	Processing Beans	90	APH	305	Wax	110	Spp (Irrigated)
46	Processing Beans	90	APH	306	Petite	110	Spp (Irrigated)
46	Processing Beans	90	APH	307	Green And Other Unlisted Types	110	Spp (Irrigated)
46	Processing Beans	90	APH	306	Petite	111	Dpp (Irrigated)
46	Processing Beans	90	APH	307	Green And Other Unlisted Types	111	Dpp (Irrigated)
46	Processing Beans	90	APH	305	Wax	111	Dpp (Irrigated)
46	Processing Beans	90	APH	304	Italian	111	Dpp (Irrigated)
46	Processing Beans	90	APH	302	Limas	114	Early (Irrigated)
46	Processing Beans	90	APH	302	Limas	115	Late (Irrigated)
46	Processing Beans	90	APH	304	Italian	121	Spring Irrigated
46	Processing Beans	90	APH	307	Green And Other Unlisted Types	121	Spring Irrigated
46	Processing Beans	90	APH	305	Wax	121	Spring Irrigated
46	Processing Beans	90	APH	306	Petite	121	Spring Irrigated
46	Processing Beans	90	APH	305	Wax	123	Fall Irrigated
46	Processing Beans	90	APH	304	Italian	123	Fall Irrigated
46	Processing Beans	90	APH	306	Petite	123	Fall Irrigated
46	Processing Beans	90	APH	307	Green And Other Unlisted	123	Fall Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
					Types		
46	Processing Beans	90	APH	302	Limas	702	Organic(Certified) Irr.
46	Processing Beans	90	APH	303	Baby Limas	702	Organic(Certified) Irr.
46	Processing Beans	90	APH	306	Petite	702	Organic(Certified) Irr.
46	Processing Beans	90	APH	304	Italian	702	Organic(Certified) Irr.
46	Processing Beans	90	APH	161	Group A - Snap Beans	702	Organic(Certified) Irr.
46	Processing Beans	90	APH	261	Group B - Snap Beans	702	Organic(Certified) Irr.
46	Processing Beans	90	APH	301	Snap	702	Organic(Certified) Irr.
46	Processing Beans	90	APH	305	Wax	702	Organic(Certified) Irr.
46	Processing Beans	90	APH	307	Green And Other Unlisted Types	702	Organic(Certified) Irr.
46	Processing Beans	90	APH	265	Chickpeas/Garbanzo, Large Kabuli	705	Spring Planted Irrigated
46	Processing Beans	90	APH	302	Limas	712	Organic(Transitional) Irr.
46	Processing Beans	90	APH	304	Italian	712	Organic(Transitional) Irr.
46	Processing Beans	90	APH	303	Baby Limas	712	Organic(Transitional) Irr.
46	Processing Beans	90	APH	301	Snap	712	Organic(Transitional) Irr.
46	Processing Beans	90	APH	261	Group B - Snap Beans	712	Organic(Transitional) Irr.
46	Processing Beans	90	APH	161	Group A - Snap Beans	712	Organic(Transitional) Irr.
46	Processing Beans	90	APH	306	Petite	712	Organic(Transitional) Irr.
46	Processing Beans	90	APH	307	Green And Other Unlisted Types	712	Organic(Transitional) Irr.
46	Processing Beans	90	APH	305	Wax	712	Organic(Transitional) Irr.
46	Processing Beans	90	APH	301	Snap	739	Nfac (Irrigated)(OC)
46	Processing Beans	90	APH	301	Snap	740	Nfac (Irrigated)(OT)
46	Processing Beans	90	APH	301	Snap	741	Fac (Irrigated)(OC)
46	Processing Beans	90	APH	301	Snap	742	Fac (Irrigated)(OT)
46	Processing Beans	90	APH	307	Green And Other Unlisted Types	837	Spp (Irrigated)(OC)
46	Processing Beans	90	APH	304	Italian	837	Spp (Irrigated)(OC)
46	Processing Beans	90	APH	305	Wax	837	Spp (Irrigated)(OC)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
46	Processing Beans	90	APH	306	Petite	837	Spp (Irrigated)(OC)
46	Processing Beans	90	APH	306	Petite	838	Spp (Irrigated)(OT)
46	Processing Beans	90	APH	307	Green And Other Unlisted Types	838	Spp (Irrigated)(OT)
46	Processing Beans	90	APH	305	Wax	838	Spp (Irrigated)(OT)
46	Processing Beans	90	APH	304	Italian	838	Spp (Irrigated)(OT)
46	Processing Beans	90	APH	304	Italian	839	Dpp (Irrigated)(OC)
46	Processing Beans	90	APH	305	Wax	839	Dpp (Irrigated)(OC)
46	Processing Beans	90	APH	306	Petite	839	Dpp (Irrigated)(OC)
46	Processing Beans	90	APH	307	Green And Other Unlisted Types	839	Dpp (Irrigated)(OC)
46	Processing Beans	90	APH	305	Wax	840	Dpp (Irrigated)(OT)
46	Processing Beans	90	APH	306	Petite	840	Dpp (Irrigated)(OT)
46	Processing Beans	90	APH	307	Green And Other Unlisted Types	840	Dpp (Irrigated)(OT)
46	Processing Beans	90	APH	304	Italian	840	Dpp (Irrigated)(OT)
46	Processing Beans	90	APH	302	Limas	845	Early (Irrigated)(OC)
46	Processing Beans	90	APH	302	Limas	846	Early (Irrigated)(OT)
46	Processing Beans	90	APH	302	Limas	847	Late (Irrigated)(OC)
46	Processing Beans	90	APH	302	Limas	848	Late (Irrigated)(OT)
46	Processing Beans	90	APH	304	Italian	851	Spring Irrigated(OC)
46	Processing Beans	90	APH	306	Petite	851	Spring Irrigated(OC)
46	Processing Beans	90	APH	307	Green And Other Unlisted Types	851	Spring Irrigated(OC)
46	Processing Beans	90	APH	305	Wax	851	Spring Irrigated(OC)
46	Processing Beans	90	APH	306	Petite	852	Spring Irrigated(OT)
46	Processing Beans	90	APH	305	Wax	852	Spring Irrigated(OT)
46	Processing Beans	90	APH	304	Italian	852	Spring Irrigated(OT)
46	Processing Beans	90	APH	307	Green And Other Unlisted Types	852	Spring Irrigated(OT)
46	Processing Beans	90	APH	305	Wax	855	Fall Irrigated(OC)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
46	Processing Beans	90	APH	307	Green And Other Unlisted Types	855	Fall Irrigated(OC)
46	Processing Beans	90	APH	306	Petite	855	Fall Irrigated(OC)
46	Processing Beans	90	APH	304	Italian	855	Fall Irrigated(OC)
46	Processing Beans	90	APH	307	Green And Other Unlisted Types	856	Fall Irrigated(OT)
46	Processing Beans	90	APH	304	Italian	856	Fall Irrigated(OT)
46	Processing Beans	90	APH	306	Petite	856	Fall Irrigated(OT)
46	Processing Beans	90	APH	305	Wax	856	Fall Irrigated(OT)
46	Processing Beans	90	APH	265	Chickpeas/Garbanzo, Large Kabuli	983	Spring Planted Irrigated(OC)
46	Processing Beans	90	APH	265	Chickpeas/Garbanzo, Large Kabuli	984	Spring Planted Irrigated(OT)
47	Dry Beans	1	Yield Protection	308	Light Red Kidney	2	Irrigated
47	Dry Beans	1	Yield Protection	318	White Kidney	2	Irrigated
47	Dry Beans	1	Yield Protection	313	Small Red	2	Irrigated
47	Dry Beans	1	Yield Protection	303	Black	2	Irrigated
47	Dry Beans	1	Yield Protection	309	Pea (Navy)	2	Irrigated
47	Dry Beans	1	Yield Protection	316	Yelloweye	2	Irrigated
47	Dry Beans	1	Yield Protection	322	Tebo	2	Irrigated
47	Dry Beans	1	Yield Protection	307	Great Northern	2	Irrigated
47	Dry Beans	1	Yield Protection	321	Adzuki	2	Irrigated
47	Dry Beans	1	Yield Protection	304	Cranberry	2	Irrigated
47	Dry Beans	1	Yield Protection	314	Small White	2	Irrigated
47	Dry Beans	1	Yield Protection	305	Dark Red Kidney	2	Irrigated
47	Dry Beans	1	Yield Protection	311	Pinto	2	Irrigated
47	Dry Beans	2	Revenue Protection	303	Black	2	Irrigated
47	Dry Beans	2	Revenue Protection	321	Adzuki	2	Irrigated
47	Dry Beans	2	Revenue Protection	311	Pinto	2	Irrigated
47	Dry Beans	2	Revenue Protection	316	Yelloweye	2	Irrigated
47	Dry Beans	2	Revenue Protection	307	Great Northern	2	Irrigated



Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
47	Dry Beans	2	Revenue Protection	313	Small Red	2	Irrigated
47	Dry Beans	2	Revenue Protection	318	White Kidney	2	Irrigated
47	Dry Beans	2	Revenue Protection	304	Cranberry	2	Irrigated
47	Dry Beans	2	Revenue Protection	322	Tebo	2	Irrigated
47	Dry Beans	2	Revenue Protection	309	Pea (Navy)	2	Irrigated
47	Dry Beans	2	Revenue Protection	308	Light Red Kidney	2	Irrigated
47	Dry Beans	2	Revenue Protection	314	Small White	2	Irrigated
47	Dry Beans	2	Revenue Protection	305	Dark Red Kidney	2	Irrigated
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	313	Small Red	2	Irrigated
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	318	White Kidney	2	Irrigated
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	305	Dark Red Kidney	2	Irrigated
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	309	Pea (Navy)	2	Irrigated
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	304	Cranberry	2	Irrigated
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	307	Great Northern	2	Irrigated
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	321	Adzuki	2	Irrigated
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	322	Tebo	2	Irrigated
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	303	Black	2	Irrigated
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	314	Small White	2	Irrigated
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	308	Light Red Kidney	2	Irrigated
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	311	Pinto	2	Irrigated
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	316	Yelloweye	2	Irrigated
47	Dry Beans	90	APH	312	Flat Small White	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
47	Dry Beans	90	APH	320	Baby Lima	2	Irrigated
47	Dry Beans	90	APH	314	Small White	2	Irrigated
47	Dry Beans	90	APH	323	Yellow	2	Irrigated
47	Dry Beans	90	APH	315	Blackeye	2	Irrigated
47	Dry Beans	90	APH	313	Small Red	2	Irrigated
47	Dry Beans	90	APH	318	White Kidney	2	Irrigated
47	Dry Beans	90	APH	306	Garbanzo	2	Irrigated
47	Dry Beans	90	APH	307	Great Northern	2	Irrigated
47	Dry Beans	90	APH	309	Pea (Navy)	2	Irrigated
47	Dry Beans	90	APH	319	Large Lima	2	Irrigated
47	Dry Beans	90	APH	62	Contract Seed Bean	2	Irrigated
47	Dry Beans	90	APH	310	Pink	2	Irrigated
47	Dry Beans	90	APH	324	Anasazi	2	Irrigated
47	Dry Beans	90	APH	308	Light Red Kidney	2	Irrigated
47	Dry Beans	90	APH	311	Pinto	2	Irrigated
47	Dry Beans	90	APH	303	Black	2	Irrigated
47	Dry Beans	90	APH	305	Dark Red Kidney	2	Irrigated
47	Dry Beans	90	APH	304	Cranberry	2	Irrigated
47	Dry Beans	1	Yield Protection	303	Black	85	Nibr-I
47	Dry Beans	1	Yield Protection	309	Pea (Navy)	85	Nibr-I
47	Dry Beans	1	Yield Protection	311	Pinto	85	Nibr-I
47	Dry Beans	2	Revenue Protection	303	Black	85	Nibr-I
47	Dry Beans	2	Revenue Protection	311	Pinto	85	Nibr-I
47	Dry Beans	2	Revenue Protection	309	Pea (Navy)	85	Nibr-I
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	309	Pea (Navy)	85	Nibr-I
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	303	Black	85	Nibr-I
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	311	Pinto	85	Nibr-I

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
47	Dry Beans	90	APH	308	Light Red Kidney	85	Nibr-I
47	Dry Beans	90	APH	305	Dark Red Kidney	85	Nibr-I
47	Dry Beans	90	APH	311	Pinto	85	Nibr-I
47	Dry Beans	90	APH	303	Black	85	Nibr-I
47	Dry Beans	90	APH	310	Pink	85	Nibr-I
47	Dry Beans	90	APH	313	Small Red	85	Nibr-I
47	Dry Beans	90	APH	314	Small White	85	Nibr-I
47	Dry Beans	90	APH	309	Pea (Navy)	85	Nibr-I
47	Dry Beans	90	APH	307	Great Northern	85	Nibr-I
47	Dry Beans	1	Yield Protection	318	White Kidney	92	Ibr-I
47	Dry Beans	1	Yield Protection	310	Pink	92	Ibr-I
47	Dry Beans	1	Yield Protection	305	Dark Red Kidney	92	Ibr-I
47	Dry Beans	1	Yield Protection	308	Light Red Kidney	92	Ibr-I
47	Dry Beans	1	Yield Protection	304	Cranberry	92	Ibr-I
47	Dry Beans	1	Yield Protection	307	Great Northern	92	Ibr-I
47	Dry Beans	1	Yield Protection	311	Pinto	92	Ibr-I
47	Dry Beans	1	Yield Protection	309	Pea (Navy)	92	Ibr-I
47	Dry Beans	1	Yield Protection	313	Small Red	92	Ibr-I
47	Dry Beans	1	Yield Protection	303	Black	92	Ibr-I
47	Dry Beans	2	Revenue Protection	308	Light Red Kidney	92	Ibr-I
47	Dry Beans	2	Revenue Protection	318	White Kidney	92	Ibr-I
47	Dry Beans	2	Revenue Protection	304	Cranberry	92	Ibr-I
47	Dry Beans	2	Revenue Protection	303	Black	92	Ibr-I
47	Dry Beans	2	Revenue Protection	311	Pinto	92	Ibr-I
47	Dry Beans	2	Revenue Protection	313	Small Red	92	Ibr-I
47	Dry Beans	2	Revenue Protection	305	Dark Red Kidney	92	Ibr-I
47	Dry Beans	2	Revenue Protection	310	Pink	92	Ibr-I
47	Dry Beans	2	Revenue Protection	309	Pea (Navy)	92	Ibr-I
47	Dry Beans	2	Revenue Protection	307	Great Northern	92	Ibr-I

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	307	Great Northern	92	Ibr-I
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	318	White Kidney	92	Ibr-I
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	310	Pink	92	Ibr-I
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	313	Small Red	92	Ibr-I
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	311	Pinto	92	Ibr-I
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	308	Light Red Kidney	92	Ibr-I
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	303	Black	92	Ibr-I
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	304	Cranberry	92	Ibr-I
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	309	Pea (Navy)	92	Ibr-I
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	305	Dark Red Kidney	92	Ibr-I
47	Dry Beans	90	APH	307	Great Northern	92	Ibr-I
47	Dry Beans	90	APH	313	Small Red	92	Ibr-I
47	Dry Beans	90	APH	310	Pink	92	Ibr-I
47	Dry Beans	90	APH	323	Yellow	92	Ibr-I
47	Dry Beans	90	APH	305	Dark Red Kidney	92	Ibr-I
47	Dry Beans	90	APH	303	Black	92	Ibr-I
47	Dry Beans	90	APH	311	Pinto	92	Ibr-I
47	Dry Beans	90	APH	308	Light Red Kidney	92	Ibr-I
47	Dry Beans	90	APH	309	Pea (Navy)	92	Ibr-I
47	Dry Beans	90	APH	314	Small White	92	Ibr-I
47	Dry Beans	1	Yield Protection	321	Adzuki	702	Organic(Certified) Irr.
47	Dry Beans	1	Yield Protection	313	Small Red	702	Organic(Certified) Irr.
47	Dry Beans	1	Yield Protection	314	Small White	702	Organic(Certified) Irr.
47	Dry Beans	1	Yield Protection	322	Tebo	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
47	Dry Beans	1	Yield Protection	303	Black	702	Organic(Certified) Irr.
47	Dry Beans	1	Yield Protection	308	Light Red Kidney	702	Organic(Certified) Irr.
47	Dry Beans	1	Yield Protection	305	Dark Red Kidney	702	Organic(Certified) Irr.
47	Dry Beans	1	Yield Protection	318	White Kidney	702	Organic(Certified) Irr.
47	Dry Beans	1	Yield Protection	309	Pea (Navy)	702	Organic(Certified) Irr.
47	Dry Beans	1	Yield Protection	311	Pinto	702	Organic(Certified) Irr.
47	Dry Beans	1	Yield Protection	316	Yelloweye	702	Organic(Certified) Irr.
47	Dry Beans	1	Yield Protection	304	Cranberry	702	Organic(Certified) Irr.
47	Dry Beans	1	Yield Protection	307	Great Northern	702	Organic(Certified) Irr.
47	Dry Beans	2	Revenue Protection	304	Cranberry	702	Organic(Certified) Irr.
47	Dry Beans	2	Revenue Protection	311	Pinto	702	Organic(Certified) Irr.
47	Dry Beans	2	Revenue Protection	316	Yelloweye	702	Organic(Certified) Irr.
47	Dry Beans	2	Revenue Protection	321	Adzuki	702	Organic(Certified) Irr.
47	Dry Beans	2	Revenue Protection	303	Black	702	Organic(Certified) Irr.
47	Dry Beans	2	Revenue Protection	308	Light Red Kidney	702	Organic(Certified) Irr.
47	Dry Beans	2	Revenue Protection	313	Small Red	702	Organic(Certified) Irr.
47	Dry Beans	2	Revenue Protection	305	Dark Red Kidney	702	Organic(Certified) Irr.
47	Dry Beans	2	Revenue Protection	314	Small White	702	Organic(Certified) Irr.
47	Dry Beans	2	Revenue Protection	318	White Kidney	702	Organic(Certified) Irr.
47	Dry Beans	2	Revenue Protection	309	Pea (Navy)	702	Organic(Certified) Irr.
47	Dry Beans	2	Revenue Protection	322	Tebo	702	Organic(Certified) Irr.
47	Dry Beans	2	Revenue Protection	307	Great Northern	702	Organic(Certified) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	303	Black	702	Organic(Certified) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	305	Dark Red Kidney	702	Organic(Certified) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	318	White Kidney	702	Organic(Certified) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	314	Small White	702	Organic(Certified) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	316	Yelloweye	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
			Exclusion				
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	307	Great Northern	702	Organic(Certified) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	309	Pea (Navy)	702	Organic(Certified) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	311	Pinto	702	Organic(Certified) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	322	Tebo	702	Organic(Certified) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	313	Small Red	702	Organic(Certified) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	304	Cranberry	702	Organic(Certified) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	308	Light Red Kidney	702	Organic(Certified) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	321	Adzuki	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	308	Light Red Kidney	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	323	Yellow	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	314	Small White	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	305	Dark Red Kidney	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	306	Garbanzo	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	62	Contract Seed Bean	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	324	Anasazi	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	310	Pink	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	309	Pea (Navy)	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	320	Baby Lima	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	315	Blackeye	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	307	Great Northern	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	304	Cranberry	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	313	Small Red	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	318	White Kidney	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	303	Black	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
47	Dry Beans	90	APH	312	Flat Small White	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	319	Large Lima	702	Organic(Certified) Irr.
47	Dry Beans	90	APH	311	Pinto	702	Organic(Certified) Irr.
47	Dry Beans	1	Yield Protection	321	Adzuki	712	Organic(Transitional) Irr.
47	Dry Beans	1	Yield Protection	314	Small White	712	Organic(Transitional) Irr.
47	Dry Beans	1	Yield Protection	318	White Kidney	712	Organic(Transitional) Irr.
47	Dry Beans	1	Yield Protection	303	Black	712	Organic(Transitional) Irr.
47	Dry Beans	1	Yield Protection	322	Tebo	712	Organic(Transitional) Irr.
47	Dry Beans	1	Yield Protection	308	Light Red Kidney	712	Organic(Transitional) Irr.
47	Dry Beans	1	Yield Protection	305	Dark Red Kidney	712	Organic(Transitional) Irr.
47	Dry Beans	1	Yield Protection	307	Great Northern	712	Organic(Transitional) Irr.
47	Dry Beans	1	Yield Protection	309	Pea (Navy)	712	Organic(Transitional) Irr.
47	Dry Beans	1	Yield Protection	311	Pinto	712	Organic(Transitional) Irr.
47	Dry Beans	1	Yield Protection	304	Cranberry	712	Organic(Transitional) Irr.
47	Dry Beans	1	Yield Protection	313	Small Red	712	Organic(Transitional) Irr.
47	Dry Beans	1	Yield Protection	316	Yelloweye	712	Organic(Transitional) Irr.
47	Dry Beans	2	Revenue Protection	321	Adzuki	712	Organic(Transitional) Irr.
47	Dry Beans	2	Revenue Protection	311	Pinto	712	Organic(Transitional) Irr.
47	Dry Beans	2	Revenue Protection	308	Light Red Kidney	712	Organic(Transitional) Irr.
47	Dry Beans	2	Revenue Protection	322	Tebo	712	Organic(Transitional) Irr.
47	Dry Beans	2	Revenue Protection	304	Cranberry	712	Organic(Transitional) Irr.
47	Dry Beans	2	Revenue Protection	314	Small White	712	Organic(Transitional) Irr.
47	Dry Beans	2	Revenue Protection	303	Black	712	Organic(Transitional) Irr.
47	Dry Beans	2	Revenue Protection	305	Dark Red Kidney	712	Organic(Transitional) Irr.
47	Dry Beans	2	Revenue Protection	307	Great Northern	712	Organic(Transitional) Irr.
47	Dry Beans	2	Revenue Protection	316	Yelloweye	712	Organic(Transitional) Irr.
47	Dry Beans	2	Revenue Protection	313	Small Red	712	Organic(Transitional) Irr.
47	Dry Beans	2	Revenue Protection	318	White Kidney	712	Organic(Transitional) Irr.
47	Dry Beans	2	Revenue Protection	309	Pea (Navy)	712	Organic(Transitional) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	314	Small White	712	Organic(Transitional) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	313	Small Red	712	Organic(Transitional) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	309	Pea (Navy)	712	Organic(Transitional) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	305	Dark Red Kidney	712	Organic(Transitional) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	318	White Kidney	712	Organic(Transitional) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	304	Cranberry	712	Organic(Transitional) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	311	Pinto	712	Organic(Transitional) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	322	Tebo	712	Organic(Transitional) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	307	Great Northern	712	Organic(Transitional) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	303	Black	712	Organic(Transitional) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	321	Adzuki	712	Organic(Transitional) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	308	Light Red Kidney	712	Organic(Transitional) Irr.
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	316	Yelloweye	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	323	Yellow	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	314	Small White	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	310	Pink	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	306	Garbanzo	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	62	Contract Seed Bean	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	324	Anasazi	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	305	Dark Red Kidney	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	313	Small Red	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	315	Blackeye	712	Organic(Transitional) Irr.



Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
47	Dry Beans	90	APH	320	Baby Lima	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	309	Pea (Navy)	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	304	Cranberry	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	307	Great Northern	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	312	Flat Small White	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	318	White Kidney	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	303	Black	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	319	Large Lima	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	308	Light Red Kidney	712	Organic(Transitional) Irr.
47	Dry Beans	90	APH	311	Pinto	712	Organic(Transitional) Irr.
47	Dry Beans	1	Yield Protection	309	Pea (Navy)	857	Nibr-I(OC)
47	Dry Beans	1	Yield Protection	303	Black	857	Nibr-I(OC)
47	Dry Beans	1	Yield Protection	311	Pinto	857	Nibr-I(OC)
47	Dry Beans	2	Revenue Protection	311	Pinto	857	Nibr-I(OC)
47	Dry Beans	2	Revenue Protection	303	Black	857	Nibr-I(OC)
47	Dry Beans	2	Revenue Protection	309	Pea (Navy)	857	Nibr-I(OC)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	303	Black	857	Nibr-I(OC)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	311	Pinto	857	Nibr-I(OC)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	309	Pea (Navy)	857	Nibr-I(OC)
47	Dry Beans	90	APH	313	Small Red	857	Nibr-I(OC)
47	Dry Beans	90	APH	308	Light Red Kidney	857	Nibr-I(OC)
47	Dry Beans	90	APH	309	Pea (Navy)	857	Nibr-I(OC)
47	Dry Beans	90	APH	314	Small White	857	Nibr-I(OC)
47	Dry Beans	90	APH	303	Black	857	Nibr-I(OC)
47	Dry Beans	90	APH	305	Dark Red Kidney	857	Nibr-I(OC)
47	Dry Beans	90	APH	310	Pink	857	Nibr-I(OC)
47	Dry Beans	90	APH	307	Great Northern	857	Nibr-I(OC)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
47	Dry Beans	90	APH	311	Pinto	857	Nibr-I(OC)
47	Dry Beans	1	Yield Protection	303	Black	858	Nibr-I(OT)
47	Dry Beans	1	Yield Protection	309	Pea (Navy)	858	Nibr-I(OT)
47	Dry Beans	1	Yield Protection	311	Pinto	858	Nibr-I(OT)
47	Dry Beans	2	Revenue Protection	311	Pinto	858	Nibr-I(OT)
47	Dry Beans	2	Revenue Protection	303	Black	858	Nibr-I(OT)
47	Dry Beans	2	Revenue Protection	309	Pea (Navy)	858	Nibr-I(OT)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	309	Pea (Navy)	858	Nibr-I(OT)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	303	Black	858	Nibr-I(OT)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	311	Pinto	858	Nibr-I(OT)
47	Dry Beans	90	APH	309	Pea (Navy)	858	Nibr-I(OT)
47	Dry Beans	90	APH	307	Great Northern	858	Nibr-I(OT)
47	Dry Beans	90	APH	311	Pinto	858	Nibr-I(OT)
47	Dry Beans	90	APH	305	Dark Red Kidney	858	Nibr-I(OT)
47	Dry Beans	90	APH	308	Light Red Kidney	858	Nibr-I(OT)
47	Dry Beans	90	APH	310	Pink	858	Nibr-I(OT)
47	Dry Beans	90	APH	314	Small White	858	Nibr-I(OT)
47	Dry Beans	90	APH	313	Small Red	858	Nibr-I(OT)
47	Dry Beans	90	APH	303	Black	858	Nibr-I(OT)
47	Dry Beans	1	Yield Protection	308	Light Red Kidney	861	Ibr-I(OC)
47	Dry Beans	1	Yield Protection	311	Pinto	861	Ibr-I(OC)
47	Dry Beans	1	Yield Protection	309	Pea (Navy)	861	Ibr-I(OC)
47	Dry Beans	1	Yield Protection	304	Cranberry	861	Ibr-I(OC)
47	Dry Beans	1	Yield Protection	303	Black	861	Ibr-I(OC)
47	Dry Beans	1	Yield Protection	310	Pink	861	Ibr-I(OC)
47	Dry Beans	1	Yield Protection	305	Dark Red Kidney	861	Ibr-I(OC)
47	Dry Beans	1	Yield Protection	313	Small Red	861	Ibr-I(OC)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
47	Dry Beans	1	Yield Protection	318	White Kidney	861	Ibr-I(OC)
47	Dry Beans	1	Yield Protection	307	Great Northern	861	Ibr-I(OC)
47	Dry Beans	2	Revenue Protection	303	Black	861	Ibr-I(OC)
47	Dry Beans	2	Revenue Protection	308	Light Red Kidney	861	Ibr-I(OC)
47	Dry Beans	2	Revenue Protection	318	White Kidney	861	Ibr-I(OC)
47	Dry Beans	2	Revenue Protection	311	Pinto	861	Ibr-I(OC)
47	Dry Beans	2	Revenue Protection	309	Pea (Navy)	861	Ibr-I(OC)
47	Dry Beans	2	Revenue Protection	310	Pink	861	Ibr-I(OC)
47	Dry Beans	2	Revenue Protection	304	Cranberry	861	Ibr-I(OC)
47	Dry Beans	2	Revenue Protection	313	Small Red	861	Ibr-I(OC)
47	Dry Beans	2	Revenue Protection	305	Dark Red Kidney	861	Ibr-I(OC)
47	Dry Beans	2	Revenue Protection	307	Great Northern	861	Ibr-I(OC)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	318	White Kidney	861	Ibr-I(OC)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	313	Small Red	861	Ibr-I(OC)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	310	Pink	861	Ibr-I(OC)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	307	Great Northern	861	Ibr-I(OC)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	309	Pea (Navy)	861	Ibr-I(OC)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	308	Light Red Kidney	861	Ibr-I(OC)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	304	Cranberry	861	Ibr-I(OC)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	303	Black	861	Ibr-I(OC)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	311	Pinto	861	Ibr-I(OC)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	305	Dark Red Kidney	861	Ibr-I(OC)
47	Dry Beans	90	APH	313	Small Red	861	Ibr-I(OC)
47	Dry Beans	90	APH	323	Yellow	861	Ibr-I(OC)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
47	Dry Beans	90	APH	309	Pea (Navy)	861	Ibr-I(OC)
47	Dry Beans	90	APH	310	Pink	861	Ibr-I(OC)
47	Dry Beans	90	APH	314	Small White	861	Ibr-I(OC)
47	Dry Beans	90	APH	303	Black	861	Ibr-I(OC)
47	Dry Beans	90	APH	307	Great Northern	861	Ibr-I(OC)
47	Dry Beans	90	APH	311	Pinto	861	Ibr-I(OC)
47	Dry Beans	90	APH	305	Dark Red Kidney	861	Ibr-I(OC)
47	Dry Beans	90	APH	308	Light Red Kidney	861	Ibr-I(OC)
47	Dry Beans	1	Yield Protection	313	Small Red	862	Ibr-I(OT)
47	Dry Beans	1	Yield Protection	309	Pea (Navy)	862	Ibr-I(OT)
47	Dry Beans	1	Yield Protection	310	Pink	862	Ibr-I(OT)
47	Dry Beans	1	Yield Protection	318	White Kidney	862	Ibr-I(OT)
47	Dry Beans	1	Yield Protection	303	Black	862	Ibr-I(OT)
47	Dry Beans	1	Yield Protection	307	Great Northern	862	Ibr-I(OT)
47	Dry Beans	1	Yield Protection	304	Cranberry	862	Ibr-I(OT)
47	Dry Beans	1	Yield Protection	308	Light Red Kidney	862	Ibr-I(OT)
47	Dry Beans	1	Yield Protection	311	Pinto	862	Ibr-I(OT)
47	Dry Beans	1	Yield Protection	305	Dark Red Kidney	862	Ibr-I(OT)
47	Dry Beans	2	Revenue Protection	313	Small Red	862	Ibr-I(OT)
47	Dry Beans	2	Revenue Protection	307	Great Northern	862	Ibr-I(OT)
47	Dry Beans	2	Revenue Protection	305	Dark Red Kidney	862	Ibr-I(OT)
47	Dry Beans	2	Revenue Protection	304	Cranberry	862	Ibr-I(OT)
47	Dry Beans	2	Revenue Protection	318	White Kidney	862	Ibr-I(OT)
47	Dry Beans	2	Revenue Protection	309	Pea (Navy)	862	Ibr-I(OT)
47	Dry Beans	2	Revenue Protection	311	Pinto	862	Ibr-I(OT)
47	Dry Beans	2	Revenue Protection	308	Light Red Kidney	862	Ibr-I(OT)
47	Dry Beans	2	Revenue Protection	303	Black	862	Ibr-I(OT)
47	Dry Beans	2	Revenue Protection	310	Pink	862	Ibr-I(OT)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	307	Great Northern	862	Ibr-I(OT)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	308	Light Red Kidney	862	Ibr-I(OT)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	304	Cranberry	862	Ibr-I(OT)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	313	Small Red	862	Ibr-I(OT)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	311	Pinto	862	Ibr-I(OT)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	310	Pink	862	Ibr-I(OT)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	305	Dark Red Kidney	862	Ibr-I(OT)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	303	Black	862	Ibr-I(OT)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	309	Pea (Navy)	862	Ibr-I(OT)
47	Dry Beans	3	Revenue Prot with Harvest Price Exclusion	318	White Kidney	862	Ibr-I(OT)
47	Dry Beans	90	APH	307	Great Northern	862	Ibr-I(OT)
47	Dry Beans	90	APH	310	Pink	862	Ibr-I(OT)
47	Dry Beans	90	APH	308	Light Red Kidney	862	Ibr-I(OT)
47	Dry Beans	90	APH	313	Small Red	862	Ibr-I(OT)
47	Dry Beans	90	APH	323	Yellow	862	Ibr-I(OT)
47	Dry Beans	90	APH	311	Pinto	862	Ibr-I(OT)
47	Dry Beans	90	APH	305	Dark Red Kidney	862	Ibr-I(OT)
47	Dry Beans	90	APH	303	Black	862	Ibr-I(OT)
47	Dry Beans	90	APH	309	Pea (Navy)	862	Ibr-I(OT)
47	Dry Beans	90	APH	314	Small White	862	Ibr-I(OT)
49	Safflower	90	APH	997	No Type Specified	2	Irrigated
49	Safflower	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
49	Safflower	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
50	Hybrid Sorghum Seed	55	Yield Based Dollar Amount Of Insurance	216	Standard Planting Gr	2	Irrigated
50	Hybrid Sorghum	55	Yield Based Dollar Amount Of	217	Standard Planting Fo	2	Irrigated

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Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
	Seed		Insurance				
50	Hybrid Sorghum Seed	55	Yield Based Dollar Amount Of Insurance	316	Interplanting Grain	2	Irrigated
50	Hybrid Sorghum Seed	55	Yield Based Dollar Amount Of Insurance	317	Interplanting Forage	2	Irrigated
50	Hybrid Sorghum Seed	55	Yield Based Dollar Amount Of Insurance	218	Standard Planting Su	2	Irrigated
50	Hybrid Sorghum Seed	55	Yield Based Dollar Amount Of Insurance	316	Interplanting Grain	702	Organic(Certified) Irr.
50	Hybrid Sorghum Seed	55	Yield Based Dollar Amount Of Insurance	218	Standard Planting Su	702	Organic(Certified) Irr.
50	Hybrid Sorghum Seed	55	Yield Based Dollar Amount Of Insurance	317	Interplanting Forage	702	Organic(Certified) Irr.
50	Hybrid Sorghum Seed	55	Yield Based Dollar Amount Of Insurance	217	Standard Planting Fo	702	Organic(Certified) Irr.
50	Hybrid Sorghum Seed	55	Yield Based Dollar Amount Of Insurance	216	Standard Planting Gr	702	Organic(Certified) Irr.
50	Hybrid Sorghum Seed	55	Yield Based Dollar Amount Of Insurance	316	Interplanting Grain	712	Organic(Transitional) Irr.
50	Hybrid Sorghum Seed	55	Yield Based Dollar Amount Of Insurance	317	Interplanting Forage	712	Organic(Transitional) Irr.
50	Hybrid Sorghum Seed	55	Yield Based Dollar Amount Of Insurance	217	Standard Planting Fo	712	Organic(Transitional) Irr.
50	Hybrid Sorghum Seed	55	Yield Based Dollar Amount Of Insurance	216	Standard Planting Gr	712	Organic(Transitional) Irr.
50	Hybrid Sorghum Seed	55	Yield Based Dollar Amount Of Insurance	218	Standard Planting Su	712	Organic(Transitional) Irr.
51	Grain Sorghum	1	Yield Protection	997	No Type Specified	2	Irrigated
51	Grain Sorghum	2	Revenue Protection	997	No Type Specified	2	Irrigated
51	Grain Sorghum	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	2	Irrigated
51	Grain Sorghum	4	Area Yield Protection	9	Seed	2	Irrigated
51	Grain Sorghum	4	Area Yield Protection	997	No Type Specified	2	Irrigated
51	Grain Sorghum	5	Area Revenue Protection	997	No Type Specified	2	Irrigated
51	Grain Sorghum	5	Area Revenue Protection	9	Seed	2	Irrigated
51	Grain Sorghum	6	Area Revenue Protection - Harvest	9	Seed	2	Irrigated

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Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
			Price Exclusion				
51	Grain Sorghum	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	2	Irrigated
51	Grain Sorghum	1	Yield Protection	997	No Type Specified	94	Nfac (Irrigated)
51	Grain Sorghum	2	Revenue Protection	997	No Type Specified	94	Nfac (Irrigated)
51	Grain Sorghum	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	94	Nfac (Irrigated)
51	Grain Sorghum	1	Yield Protection	997	No Type Specified	95	Fac (Irrigated)
51	Grain Sorghum	2	Revenue Protection	997	No Type Specified	95	Fac (Irrigated)
51	Grain Sorghum	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	95	Fac (Irrigated)
51	Grain Sorghum	1	Yield Protection	997	No Type Specified	702	Organic(Certified) Irr.
51	Grain Sorghum	2	Revenue Protection	997	No Type Specified	702	Organic(Certified) Irr.
51	Grain Sorghum	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	702	Organic(Certified) Irr.
51	Grain Sorghum	4	Area Yield Protection	9	Seed	702	Organic(Certified) Irr.
51	Grain Sorghum	4	Area Yield Protection	997	No Type Specified	702	Organic(Certified) Irr.
51	Grain Sorghum	5	Area Revenue Protection	9	Seed	702	Organic(Certified) Irr.
51	Grain Sorghum	5	Area Revenue Protection	997	No Type Specified	702	Organic(Certified) Irr.
51	Grain Sorghum	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	702	Organic(Certified) Irr.
51	Grain Sorghum	6	Area Revenue Protection - Harvest Price Exclusion	9	Seed	702	Organic(Certified) Irr.
51	Grain Sorghum	1	Yield Protection	997	No Type Specified	712	Organic(Transitional) Irr.
51	Grain Sorghum	2	Revenue Protection	997	No Type Specified	712	Organic(Transitional) Irr.
51	Grain Sorghum	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	712	Organic(Transitional) Irr.
51	Grain Sorghum	4	Area Yield Protection	997	No Type Specified	712	Organic(Transitional) Irr.
51	Grain Sorghum	4	Area Yield Protection	9	Seed	712	Organic(Transitional) Irr.
51	Grain Sorghum	5	Area Revenue Protection	9	Seed	712	Organic(Transitional) Irr.
51	Grain Sorghum	5	Area Revenue Protection	997	No Type Specified	712	Organic(Transitional) Irr.
51	Grain Sorghum	6	Area Revenue Protection - Harvest Price Exclusion	9	Seed	712	Organic(Transitional) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
51	Grain Sorghum	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	712	Organic(Transitional) Irr.
51	Grain Sorghum	1	Yield Protection	997	No Type Specified	739	Nfac (Irrigated)(OC)
51	Grain Sorghum	2	Revenue Protection	997	No Type Specified	739	Nfac (Irrigated)(OC)
51	Grain Sorghum	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	739	Nfac (Irrigated)(OC)
51	Grain Sorghum	1	Yield Protection	997	No Type Specified	740	Nfac (Irrigated)(OT)
51	Grain Sorghum	2	Revenue Protection	997	No Type Specified	740	Nfac (Irrigated)(OT)
51	Grain Sorghum	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	740	Nfac (Irrigated)(OT)
51	Grain Sorghum	1	Yield Protection	997	No Type Specified	741	Fac (Irrigated)(OC)
51	Grain Sorghum	2	Revenue Protection	997	No Type Specified	741	Fac (Irrigated)(OC)
51	Grain Sorghum	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	741	Fac (Irrigated)(OC)
51	Grain Sorghum	1	Yield Protection	997	No Type Specified	742	Fac (Irrigated)(OT)
51	Grain Sorghum	2	Revenue Protection	997	No Type Specified	742	Fac (Irrigated)(OT)
51	Grain Sorghum	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	742	Fac (Irrigated)(OT)
52	Table Grapes	90	APH	33	Tokay/Tokay Flame	2	Irrigated
52	Table Grapes	90	APH	328	Sweet Scarlet	2	Irrigated
52	Table Grapes	90	APH	327	Midnight Beauty	2	Irrigated
52	Table Grapes	90	APH	32	Flame Seedless	2	Irrigated
52	Table Grapes	90	APH	169	Red Globe	2	Irrigated
52	Table Grapes	90	APH	6	Beauty Seedless	2	Irrigated
52	Table Grapes	90	APH	98	Crimson Seedless	2	Irrigated
52	Table Grapes	90	APH	997	No Type Specified	2	Irrigated
52	Table Grapes	90	APH	97	Christmas Rose	2	Irrigated
52	Table Grapes	90	APH	63	Perlette	2	Irrigated
52	Table Grapes	90	APH	104	Autumn Royal	2	Irrigated
52	Table Grapes	90	APH	86	Superior Seedless	2	Irrigated
52	Table Grapes	90	APH	329	Scarlet Royal	2	Irrigated



Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
52	Table Grapes	90	APH	88	Thompson Seedless	2	Irrigated
52	Table Grapes	90	APH	166	Autumn King	2	Irrigated
52	Table Grapes	90	APH	95	All Others	2	Irrigated
52	Table Grapes	90	APH	75	Ribier	2	Irrigated
52	Table Grapes	90	APH	77	Ruby Seedless	2	Irrigated
52	Table Grapes	90	APH	64	Princess	2	Irrigated
52	Table Grapes	90	APH	328	Sweet Scarlet	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	63	Perlette	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	104	Autumn Royal	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	77	Ruby Seedless	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	98	Crimson Seedless	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	6	Beauty Seedless	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	64	Princess	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	88	Thompson Seedless	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	32	Flame Seedless	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	329	Scarlet Royal	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	169	Red Globe	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	75	Ribier	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	95	All Others	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	33	Tokay/Tokay Flame	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	327	Midnight Beauty	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	97	Christmas Rose	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	166	Autumn King	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	86	Superior Seedless	702	Organic(Certified) Irr.
52	Table Grapes	90	APH	63	Perlette	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	104	Autumn Royal	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	88	Thompson Seedless	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	327	Midnight Beauty	712	Organic(Transitional) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
52	Table Grapes	90	APH	32	Flame Seedless	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	64	Princess	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	86	Superior Seedless	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	33	Tokay/Tokay Flame	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	329	Scarlet Royal	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	166	Autumn King	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	328	Sweet Scarlet	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	169	Red Globe	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	6	Beauty Seedless	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	95	All Others	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	75	Ribier	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	97	Christmas Rose	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	98	Crimson Seedless	712	Organic(Transitional) Irr.
52	Table Grapes	90	APH	77	Ruby Seedless	712	Organic(Transitional) Irr.
53	Grapes	90	APH	21	Carnelian	2	Irrigated
53	Grapes	90	APH	587	Marechal Foch	2	Irrigated
53	Grapes	90	APH	119	Albarino	2	Irrigated
53	Grapes	90	APH	60	Palomino/G Chasselas	2	Irrigated
53	Grapes	90	APH	520	Delaware	2	Irrigated
53	Grapes	90	APH	93	White/Johannisberg Riesling	2	Irrigated
53	Grapes	90	APH	39	Gewurztraminer	2	Irrigated
53	Grapes	90	APH	98	Pinot Gris/Pinot Grigio	2	Irrigated
53	Grapes	90	APH	14	Burger	2	Irrigated
53	Grapes	90	APH	295	Grenache Blanc	2	Irrigated
53	Grapes	90	APH	566	Chancellor	2	Irrigated
53	Grapes	90	APH	44	Grenache	2	Irrigated
53	Grapes	90	APH	561	Vidal Blanc	2	Irrigated
53	Grapes	90	APH	391	Edelweiss	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
53	Grapes	90	APH	31	Fiesta	2	Irrigated
53	Grapes	90	APH	95	Other Varieties	2	Irrigated
53	Grapes	90	APH	261	Group B	2	Irrigated
53	Grapes	90	APH	557	Vignoles	2	Irrigated
53	Grapes	90	APH	264	Brianna	2	Irrigated
53	Grapes	90	APH	66	Pinot Blanc	2	Irrigated
53	Grapes	90	APH	94	Zinfandel	2	Irrigated
53	Grapes	90	APH	209	Chambourcin	2	Irrigated
53	Grapes	90	APH	330	Black Cornith/Zante Currant	2	Irrigated
53	Grapes	90	APH	80	Salvador	2	Irrigated
53	Grapes	90	APH	88	Thompson Seedless	2	Irrigated
53	Grapes	90	APH	16	Cabernet Sauvignon	2	Irrigated
53	Grapes	90	APH	466	St. Croix	2	Irrigated
53	Grapes	90	APH	553	Dechaunac	2	Irrigated
53	Grapes	90	APH	556	Seyval Blanc	2	Irrigated
53	Grapes	90	APH	583	All Other Types	2	Irrigated
53	Grapes	90	APH	64	Petite Sirah	2	Irrigated
53	Grapes	90	APH	76	Ruby Cabernet	2	Irrigated
53	Grapes	90	APH	161	Group A	2	Irrigated
53	Grapes	90	APH	595	Other Red/Pink Varieties	2	Irrigated
53	Grapes	90	APH	729	Marquette	2	Irrigated
53	Grapes	90	APH	5	Barbera	2	Irrigated
53	Grapes	90	APH	113	Red Zinfandel	2	Irrigated
53	Grapes	90	APH	463	Frontenac	2	Irrigated
53	Grapes	90	APH	644	Lacrosse	2	Irrigated
53	Grapes	90	APH	24	Chenin Blanc	2	Irrigated
53	Grapes	90	APH	588	Corot Noir	2	Irrigated
53	Grapes	90	APH	85	Sultana	2	Irrigated
53	Grapes	90	APH	196	Syrah/French Syrah-Shiraz	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
53	Grapes	90	APH	586	St.Vincent	2	Irrigated
53	Grapes	90	APH	590	Other White Varieties	2	Irrigated
53	Grapes	90	APH	37	Gamay (Napa)/Gamay	2	Irrigated
53	Grapes	90	APH	964	Riesling	2	Irrigated
53	Grapes	90	APH	92	Tempranillo/Valdepenas	2	Irrigated
53	Grapes	90	APH	2	Alicante-Bouschet/Alicante	2	Irrigated
53	Grapes	90	APH	27	Emerald Riesling	2	Irrigated
53	Grapes	90	APH	376	Sangiovese/Sangioveto	2	Irrigated
53	Grapes	90	APH	33	Flame Tokay	2	Irrigated
53	Grapes	90	APH	378	Muscadine	2	Irrigated
53	Grapes	90	APH	200	Concord	2	Irrigated
53	Grapes	90	APH	32	Flame Seedless	2	Irrigated
53	Grapes	90	APH	565	Leon Millot	2	Irrigated
53	Grapes	90	APH	50	Mataro/Mourvedre	2	Irrigated
53	Grapes	90	APH	96	Symphony	2	Irrigated
53	Grapes	90	APH	584	Pinot Noir For Sparkling	2	Irrigated
53	Grapes	90	APH	23	Chardonnay	2	Irrigated
53	Grapes	90	APH	36	French Colombard	2	Irrigated
53	Grapes	90	APH	52	Mission	2	Irrigated
53	Grapes	90	APH	199	Niagara	2	Irrigated
53	Grapes	90	APH	83	Semillon	2	Irrigated
53	Grapes	90	APH	87	Sylvaner	2	Irrigated
53	Grapes	90	APH	373	Group C	2	Irrigated
53	Grapes	90	APH	67	Pinot Noir	2	Irrigated
53	Grapes	90	APH	99	Viognier	2	Irrigated
53	Grapes	90	APH	57	Muscat	2	Irrigated
53	Grapes	90	APH	48	White Malaga	2	Irrigated
53	Grapes	90	APH	978	Roussanne	2	Irrigated
53	Grapes	90	APH	55	Muscat Blanc/M Canelli	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
53	Grapes	90	APH	100	Petit Verdot	2	Irrigated
53	Grapes	90	APH	263	St. Pepin	2	Irrigated
53	Grapes	90	APH	331	Selma Pete	2	Irrigated
53	Grapes	90	APH	410	Norton	2	Irrigated
53	Grapes	90	APH	15	Cabernet Franc	2	Irrigated
53	Grapes	90	APH	51	Merlot	2	Irrigated
53	Grapes	90	APH	101	Malbec	2	Irrigated
53	Grapes	90	APH	49	Malvasia Bianca	2	Irrigated
53	Grapes	90	APH	643	Lacresent	2	Irrigated
53	Grapes	90	APH	581	Lemberger	2	Irrigated
53	Grapes	90	APH	20	Carignane	2	Irrigated
53	Grapes	90	APH	173	Royalty	2	Irrigated
53	Grapes	90	APH	464	Frontenac Gris	2	Irrigated
53	Grapes	90	APH	582	Muller Thurgau	2	Irrigated
53	Grapes	90	APH	74	Rubired	2	Irrigated
53	Grapes	90	APH	374	Group D	2	Irrigated
53	Grapes	90	APH	81	Sauvignon Blanc/Fume Blanc	2	Irrigated
53	Grapes	90	APH	580	Noiret	2	Irrigated
53	Grapes	90	APH	50	Mataro/Mourvedre	702	Organic(Certified) Irr.
53	Grapes	90	APH	101	Malbec	702	Organic(Certified) Irr.
53	Grapes	90	APH	295	Grenache Blanc	702	Organic(Certified) Irr.
53	Grapes	90	APH	464	Frontenac Gris	702	Organic(Certified) Irr.
53	Grapes	90	APH	80	Salvador	702	Organic(Certified) Irr.
53	Grapes	90	APH	209	Chambourcin	702	Organic(Certified) Irr.
53	Grapes	90	APH	588	Corot Noir	702	Organic(Certified) Irr.
53	Grapes	90	APH	96	Symphony	702	Organic(Certified) Irr.
53	Grapes	90	APH	16	Cabernet Sauvignon	702	Organic(Certified) Irr.
53	Grapes	90	APH	595	Other Red/Pink Varieties	702	Organic(Certified) Irr.
53	Grapes	90	APH	66	Pinot Blanc	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
53	Grapes	90	APH	466	St. Croix	702	Organic(Certified) Irr.
53	Grapes	90	APH	31	Fiesta	702	Organic(Certified) Irr.
53	Grapes	90	APH	98	Pinot Gris/Pinot Grigio	702	Organic(Certified) Irr.
53	Grapes	90	APH	566	Chancellor	702	Organic(Certified) Irr.
53	Grapes	90	APH	21	Carnelian	702	Organic(Certified) Irr.
53	Grapes	90	APH	37	Gamay (Napa)/Gamay	702	Organic(Certified) Irr.
53	Grapes	90	APH	23	Chardonnay	702	Organic(Certified) Irr.
53	Grapes	90	APH	173	Royalty	702	Organic(Certified) Irr.
53	Grapes	90	APH	264	Brianna	702	Organic(Certified) Irr.
53	Grapes	90	APH	15	Cabernet Franc	702	Organic(Certified) Irr.
53	Grapes	90	APH	376	Sangiovese/Sangioveto	702	Organic(Certified) Irr.
53	Grapes	90	APH	60	Palomino/G Chasselas	702	Organic(Certified) Irr.
53	Grapes	90	APH	580	Noiret	702	Organic(Certified) Irr.
53	Grapes	90	APH	520	Delaware	702	Organic(Certified) Irr.
53	Grapes	90	APH	561	Vidal Blanc	702	Organic(Certified) Irr.
53	Grapes	90	APH	643	Lacresent	702	Organic(Certified) Irr.
53	Grapes	90	APH	87	Sylvaner	702	Organic(Certified) Irr.
53	Grapes	90	APH	32	Flame Seedless	702	Organic(Certified) Irr.
53	Grapes	90	APH	5	Barbera	702	Organic(Certified) Irr.
53	Grapes	90	APH	261	Group B	702	Organic(Certified) Irr.
53	Grapes	90	APH	83	Semillon	702	Organic(Certified) Irr.
53	Grapes	90	APH	553	Dechaunac	702	Organic(Certified) Irr.
53	Grapes	90	APH	92	Tempranillo/Valdepenas	702	Organic(Certified) Irr.
53	Grapes	90	APH	410	Norton	702	Organic(Certified) Irr.
53	Grapes	90	APH	94	Zinfandel	702	Organic(Certified) Irr.
53	Grapes	90	APH	581	Lemberger	702	Organic(Certified) Irr.
53	Grapes	90	APH	76	Ruby Cabernet	702	Organic(Certified) Irr.
53	Grapes	90	APH	330	Black Cornith/Zante Currant	702	Organic(Certified) Irr.
53	Grapes	90	APH	52	Mission	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
53	Grapes	90	APH	2	Alicante-Bouschet/Alicante	702	Organic(Certified) Irr.
53	Grapes	90	APH	49	Malvasia Bianca	702	Organic(Certified) Irr.
53	Grapes	90	APH	557	Vignoles	702	Organic(Certified) Irr.
53	Grapes	90	APH	729	Marquette	702	Organic(Certified) Irr.
53	Grapes	90	APH	582	Muller Thurgau	702	Organic(Certified) Irr.
53	Grapes	90	APH	81	Sauvignon Blanc/Fume Blanc	702	Organic(Certified) Irr.
53	Grapes	90	APH	14	Burger	702	Organic(Certified) Irr.
53	Grapes	90	APH	33	Flame Tokay	702	Organic(Certified) Irr.
53	Grapes	90	APH	88	Thompson Seedless	702	Organic(Certified) Irr.
53	Grapes	90	APH	64	Petite Sirah	702	Organic(Certified) Irr.
53	Grapes	90	APH	463	Frontenac	702	Organic(Certified) Irr.
53	Grapes	90	APH	119	Albarino	702	Organic(Certified) Irr.
53	Grapes	90	APH	85	Sultana	702	Organic(Certified) Irr.
53	Grapes	90	APH	95	Other Varieties	702	Organic(Certified) Irr.
53	Grapes	90	APH	587	Marechal Foch	702	Organic(Certified) Irr.
53	Grapes	90	APH	20	Carignane	702	Organic(Certified) Irr.
53	Grapes	90	APH	373	Group C	702	Organic(Certified) Irr.
53	Grapes	90	APH	978	Roussanne	702	Organic(Certified) Irr.
53	Grapes	90	APH	565	Leon Millot	702	Organic(Certified) Irr.
53	Grapes	90	APH	113	Red Zinfandel	702	Organic(Certified) Irr.
53	Grapes	90	APH	584	Pinot Noir For Sparkling	702	Organic(Certified) Irr.
53	Grapes	90	APH	378	Muscadine	702	Organic(Certified) Irr.
53	Grapes	90	APH	99	Viognier	702	Organic(Certified) Irr.
53	Grapes	90	APH	39	Gewurztraminer	702	Organic(Certified) Irr.
53	Grapes	90	APH	36	French Colombard	702	Organic(Certified) Irr.
53	Grapes	90	APH	93	White/Johannisberg Riesling	702	Organic(Certified) Irr.
53	Grapes	90	APH	161	Group A	702	Organic(Certified) Irr.
53	Grapes	90	APH	374	Group D	702	Organic(Certified) Irr.
53	Grapes	90	APH	331	Selma Pete	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
53	Grapes	90	APH	74	Rubired	702	Organic(Certified) Irr.
53	Grapes	90	APH	199	Niagara	702	Organic(Certified) Irr.
53	Grapes	90	APH	196	Syrah/French Syrah-Shiraz	702	Organic(Certified) Irr.
53	Grapes	90	APH	590	Other White Varieties	702	Organic(Certified) Irr.
53	Grapes	90	APH	51	Merlot	702	Organic(Certified) Irr.
53	Grapes	90	APH	391	Edelweiss	702	Organic(Certified) Irr.
53	Grapes	90	APH	586	St. Vincent	702	Organic(Certified) Irr.
53	Grapes	90	APH	100	Petit Verdot	702	Organic(Certified) Irr.
53	Grapes	90	APH	200	Concord	702	Organic(Certified) Irr.
53	Grapes	90	APH	964	Riesling	702	Organic(Certified) Irr.
53	Grapes	90	APH	67	Pinot Noir	702	Organic(Certified) Irr.
53	Grapes	90	APH	644	Lacrosse	702	Organic(Certified) Irr.
53	Grapes	90	APH	57	Muscat	702	Organic(Certified) Irr.
53	Grapes	90	APH	48	White Malaga	702	Organic(Certified) Irr.
53	Grapes	90	APH	583	All Other Types	702	Organic(Certified) Irr.
53	Grapes	90	APH	263	St. Pepin	702	Organic(Certified) Irr.
53	Grapes	90	APH	556	Seyval Blanc	702	Organic(Certified) Irr.
53	Grapes	90	APH	27	Emerald Riesling	702	Organic(Certified) Irr.
53	Grapes	90	APH	24	Chenin Blanc	702	Organic(Certified) Irr.
53	Grapes	90	APH	55	Muscat Blanc/M Canelli	702	Organic(Certified) Irr.
53	Grapes	90	APH	44	Grenache	702	Organic(Certified) Irr.
53	Grapes	90	APH	98	Pinot Gris/Pinot Grigio	712	Organic(Transitional) Irr.
53	Grapes	90	APH	66	Pinot Blanc	712	Organic(Transitional) Irr.
53	Grapes	90	APH	587	Marechal Foch	712	Organic(Transitional) Irr.
53	Grapes	90	APH	581	Lemberger	712	Organic(Transitional) Irr.
53	Grapes	90	APH	101	Malbec	712	Organic(Transitional) Irr.
53	Grapes	90	APH	32	Flame Seedless	712	Organic(Transitional) Irr.
53	Grapes	90	APH	31	Fiesta	712	Organic(Transitional) Irr.
53	Grapes	90	APH	520	Delaware	712	Organic(Transitional) Irr.



Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
53	Grapes	90	APH	60	Palomino/G Chasselas	712	Organic(Transitional) Irr.
53	Grapes	90	APH	330	Black Cornith/Zante Currant	712	Organic(Transitional) Irr.
53	Grapes	90	APH	209	Chambourcin	712	Organic(Transitional) Irr.
53	Grapes	90	APH	161	Group A	712	Organic(Transitional) Irr.
53	Grapes	90	APH	588	Corot Noir	712	Organic(Transitional) Irr.
53	Grapes	90	APH	261	Group B	712	Organic(Transitional) Irr.
53	Grapes	90	APH	80	Salvador	712	Organic(Transitional) Irr.
53	Grapes	90	APH	16	Cabernet Sauvignon	712	Organic(Transitional) Irr.
53	Grapes	90	APH	95	Other Varieties	712	Organic(Transitional) Irr.
53	Grapes	90	APH	39	Gewurztraminer	712	Organic(Transitional) Irr.
53	Grapes	90	APH	295	Grenache Blanc	712	Organic(Transitional) Irr.
53	Grapes	90	APH	466	St. Croix	712	Organic(Transitional) Irr.
53	Grapes	90	APH	21	Carnelian	712	Organic(Transitional) Irr.
53	Grapes	90	APH	15	Cabernet Franc	712	Organic(Transitional) Irr.
53	Grapes	90	APH	96	Symphony	712	Organic(Transitional) Irr.
53	Grapes	90	APH	23	Chardonnay	712	Organic(Transitional) Irr.
53	Grapes	90	APH	93	White/Johannisberg Riesling	712	Organic(Transitional) Irr.
53	Grapes	90	APH	566	Chancellor	712	Organic(Transitional) Irr.
53	Grapes	90	APH	561	Vidal Blanc	712	Organic(Transitional) Irr.
53	Grapes	90	APH	964	Riesling	712	Organic(Transitional) Irr.
53	Grapes	90	APH	590	Other White Varieties	712	Organic(Transitional) Irr.
53	Grapes	90	APH	553	Dechaunac	712	Organic(Transitional) Irr.
53	Grapes	90	APH	50	Mataro/Mourvedre	712	Organic(Transitional) Irr.
53	Grapes	90	APH	391	Edelweiss	712	Organic(Transitional) Irr.
53	Grapes	90	APH	584	Pinot Noir For Sparkling	712	Organic(Transitional) Irr.
53	Grapes	90	APH	264	Brianna	712	Organic(Transitional) Irr.
53	Grapes	90	APH	88	Thompson Seedless	712	Organic(Transitional) Irr.
53	Grapes	90	APH	100	Petit Verdot	712	Organic(Transitional) Irr.
53	Grapes	90	APH	94	Zinfandel	712	Organic(Transitional) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
53	Grapes	90	APH	729	Marquette	712	Organic(Transitional) Irr.
53	Grapes	90	APH	49	Malvasia Bianca	712	Organic(Transitional) Irr.
53	Grapes	90	APH	586	St. Vincent	712	Organic(Transitional) Irr.
53	Grapes	90	APH	83	Semillon	712	Organic(Transitional) Irr.
53	Grapes	90	APH	376	Sangiovese/Sangiovetto	712	Organic(Transitional) Irr.
53	Grapes	90	APH	52	Mission	712	Organic(Transitional) Irr.
53	Grapes	90	APH	463	Frontenac	712	Organic(Transitional) Irr.
53	Grapes	90	APH	36	French Colombard	712	Organic(Transitional) Irr.
53	Grapes	90	APH	64	Petite Sirah	712	Organic(Transitional) Irr.
53	Grapes	90	APH	99	Viognier	712	Organic(Transitional) Irr.
53	Grapes	90	APH	113	Red Zinfandel	712	Organic(Transitional) Irr.
53	Grapes	90	APH	37	Gamay (Napa)/Gamay	712	Organic(Transitional) Irr.
53	Grapes	90	APH	410	Norton	712	Organic(Transitional) Irr.
53	Grapes	90	APH	81	Sauvignon Blanc/Fume Blanc	712	Organic(Transitional) Irr.
53	Grapes	90	APH	24	Chenin Blanc	712	Organic(Transitional) Irr.
53	Grapes	90	APH	87	Sylvaner	712	Organic(Transitional) Irr.
53	Grapes	90	APH	557	Vignoles	712	Organic(Transitional) Irr.
53	Grapes	90	APH	331	Selma Pete	712	Organic(Transitional) Irr.
53	Grapes	90	APH	373	Group C	712	Organic(Transitional) Irr.
53	Grapes	90	APH	644	Lacrosse	712	Organic(Transitional) Irr.
53	Grapes	90	APH	978	Roussanne	712	Organic(Transitional) Irr.
53	Grapes	90	APH	464	Frontenac Gris	712	Organic(Transitional) Irr.
53	Grapes	90	APH	2	Alicante-Bouschet/Alicante	712	Organic(Transitional) Irr.
53	Grapes	90	APH	583	All Other Types	712	Organic(Transitional) Irr.
53	Grapes	90	APH	582	Muller Thurgau	712	Organic(Transitional) Irr.
53	Grapes	90	APH	85	Sultana	712	Organic(Transitional) Irr.
53	Grapes	90	APH	173	Royalty	712	Organic(Transitional) Irr.
53	Grapes	90	APH	14	Burger	712	Organic(Transitional) Irr.
53	Grapes	90	APH	378	Muscadine	712	Organic(Transitional) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
53	Grapes	90	APH	199	Niagara	712	Organic(Transitional) Irr.
53	Grapes	90	APH	74	Rubired	712	Organic(Transitional) Irr.
53	Grapes	90	APH	580	Noiret	712	Organic(Transitional) Irr.
53	Grapes	90	APH	556	Seyval Blanc	712	Organic(Transitional) Irr.
53	Grapes	90	APH	200	Concord	712	Organic(Transitional) Irr.
53	Grapes	90	APH	67	Pinot Noir	712	Organic(Transitional) Irr.
53	Grapes	90	APH	76	Ruby Cabernet	712	Organic(Transitional) Irr.
53	Grapes	90	APH	374	Group D	712	Organic(Transitional) Irr.
53	Grapes	90	APH	92	Tempranillo/Valdepenas	712	Organic(Transitional) Irr.
53	Grapes	90	APH	595	Other Red/Pink Varieties	712	Organic(Transitional) Irr.
53	Grapes	90	APH	119	Albarino	712	Organic(Transitional) Irr.
53	Grapes	90	APH	196	Syrah/French Syrah-Shiraz	712	Organic(Transitional) Irr.
53	Grapes	90	APH	48	White Malaga	712	Organic(Transitional) Irr.
53	Grapes	90	APH	263	St. Pepin	712	Organic(Transitional) Irr.
53	Grapes	90	APH	51	Merlot	712	Organic(Transitional) Irr.
53	Grapes	90	APH	565	Leon Millot	712	Organic(Transitional) Irr.
53	Grapes	90	APH	33	Flame Tokay	712	Organic(Transitional) Irr.
53	Grapes	90	APH	20	Carignane	712	Organic(Transitional) Irr.
53	Grapes	90	APH	27	Emerald Riesling	712	Organic(Transitional) Irr.
53	Grapes	90	APH	643	Lacresent	712	Organic(Transitional) Irr.
53	Grapes	90	APH	5	Barbera	712	Organic(Transitional) Irr.
53	Grapes	90	APH	44	Grenache	712	Organic(Transitional) Irr.
53	Grapes	90	APH	57	Muscat	712	Organic(Transitional) Irr.
53	Grapes	90	APH	55	Muscat Blanc/M Canelli	712	Organic(Transitional) Irr.
54	Apples	90	APH	115	Varietal Group B (Fresh)	2	Irrigated
54	Apples	90	APH	112	Processing	2	Irrigated
54	Apples	90	APH	111	Fresh	2	Irrigated
54	Apples	90	APH	114	Varietal Group A (Fresh)	2	Irrigated
54	Apples	90	APH	115	Varietal Group B (Fresh)	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
54	Apples	90	APH	114	Varietal Group A (Fresh)	702	Organic(Certified) Irr.
54	Apples	90	APH	112	Processing	702	Organic(Certified) Irr.
54	Apples	90	APH	111	Fresh	702	Organic(Certified) Irr.
54	Apples	90	APH	114	Varietal Group A (Fresh)	712	Organic(Transitional) Irr.
54	Apples	90	APH	115	Varietal Group B (Fresh)	712	Organic(Transitional) Irr.
54	Apples	90	APH	112	Processing	712	Organic(Transitional) Irr.
54	Apples	90	APH	111	Fresh	712	Organic(Transitional) Irr.
55	Cultivated Wild Rice	90	APH	997	No Type Specified	2	Irrigated
55	Cultivated Wild Rice	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
55	Cultivated Wild Rice	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
57	Cherries	47	Actual Revenue History	112	Sweet Cherries (Processing)	2	Irrigated
57	Cherries	47	Actual Revenue History	111	Sweet Cherries (Fresh)	2	Irrigated
57	Cherries	47	Actual Revenue History	416	Tart Cherries (Processing)	2	Irrigated
57	Cherries	47	Actual Revenue History	112	Sweet Cherries (Processing)	702	Organic(Certified) Irr.
57	Cherries	47	Actual Revenue History	111	Sweet Cherries (Fresh)	702	Organic(Certified) Irr.
57	Cherries	47	Actual Revenue History	416	Tart Cherries (Processing)	702	Organic(Certified) Irr.
57	Cherries	47	Actual Revenue History	416	Tart Cherries (Processing)	712	Organic(Transitional) Irr.
57	Cherries	47	Actual Revenue History	112	Sweet Cherries (Processing)	712	Organic(Transitional) Irr.
57	Cherries	47	Actual Revenue History	111	Sweet Cherries (Fresh)	712	Organic(Transitional) Irr.
59	Silage Sorghum	90	APH	125	Brown Mid-Rib	2	Irrigated
59	Silage Sorghum	90	APH	126	Non-Brown Mid Rib	2	Irrigated
59	Silage Sorghum	90	APH	125	Brown Mid-Rib	702	Organic(Certified) Irr.
59	Silage Sorghum	90	APH	126	Non-Brown Mid Rib	702	Organic(Certified) Irr.
59	Silage Sorghum	90	APH	126	Non-Brown Mid Rib	712	Organic(Transitional) Irr.
59	Silage Sorghum	90	APH	125	Brown Mid-Rib	712	Organic(Transitional) Irr.
60	Figs	90	APH	160	Adriatic	2	Irrigated
60	Figs	90	APH	174	Tena (Adriatic)	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
60	Figs	90	APH	360	Calimyrna	2	Irrigated
60	Figs	90	APH	177	Sierra	2	Irrigated
60	Figs	90	APH	260	Black Mission	2	Irrigated
60	Figs	90	APH	460	Kadota	32	Irrigated - Tray Dried
60	Figs	90	APH	460	Kadota	42	Irrigated - Natural
60	Figs	90	APH	177	Sierra	702	Organic(Certified) Irr.
60	Figs	90	APH	260	Black Mission	702	Organic(Certified) Irr.
60	Figs	90	APH	174	Tena (Adriatic)	702	Organic(Certified) Irr.
60	Figs	90	APH	360	Calimyrna	702	Organic(Certified) Irr.
60	Figs	90	APH	160	Adriatic	702	Organic(Certified) Irr.
60	Figs	90	APH	174	Tena (Adriatic)	712	Organic(Transitional) Irr.
60	Figs	90	APH	260	Black Mission	712	Organic(Transitional) Irr.
60	Figs	90	APH	177	Sierra	712	Organic(Transitional) Irr.
60	Figs	90	APH	360	Calimyrna	712	Organic(Transitional) Irr.
60	Figs	90	APH	160	Adriatic	712	Organic(Transitional) Irr.
60	Figs	90	APH	460	Kadota	865	Irrigated - Tray Dried(OC)
60	Figs	90	APH	460	Kadota	866	Irrigated - Tray Dried(OT)
60	Figs	90	APH	460	Kadota	867	Irrigated - Natural(OC)
60	Figs	90	APH	460	Kadota	868	Irrigated - Natural(OT)
62	Hybrid Corn Seed	55	Yield Based Dollar Amount Of Insurance	210	Standard Planting	2	Irrigated
62	Hybrid Corn Seed	55	Yield Based Dollar Amount Of Insurance	220	Interplanting	2	Irrigated
62	Hybrid Corn Seed	55	Yield Based Dollar Amount Of Insurance	220	Interplanting	702	Organic(Certified) Irr.
62	Hybrid Corn Seed	55	Yield Based Dollar Amount Of Insurance	210	Standard Planting	702	Organic(Certified) Irr.
62	Hybrid Corn Seed	55	Yield Based Dollar Amount Of Insurance	210	Standard Planting	712	Organic(Transitional) Irr.
62	Hybrid Corn Seed	55	Yield Based Dollar Amount Of Insurance	220	Interplanting	712	Organic(Transitional) Irr.
64	Green Peas	90	APH	611	Shelled Peas	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
64	Green Peas	90	APH	997	No Type Specified	2	Irrigated
64	Green Peas	90	APH	200	Mid Season	2	Irrigated
64	Green Peas	90	APH	100	Early Season	2	Irrigated
64	Green Peas	90	APH	612	Podded Peas	2	Irrigated
64	Green Peas	90	APH	613	Shelled Early Season	2	Irrigated
64	Green Peas	90	APH	615	Shelled Late Season	2	Irrigated
64	Green Peas	90	APH	614	Shelled Mid Season	2	Irrigated
64	Green Peas	90	APH	300	Late Season	2	Irrigated
64	Green Peas	90	APH	500	Petite	2	Irrigated
64	Green Peas	90	APH	600	All Others	2	Irrigated
64	Green Peas	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
64	Green Peas	90	APH	614	Shelled Mid Season	702	Organic(Certified) Irr.
64	Green Peas	90	APH	600	All Others	702	Organic(Certified) Irr.
64	Green Peas	90	APH	611	Shelled Peas	702	Organic(Certified) Irr.
64	Green Peas	90	APH	613	Shelled Early Season	702	Organic(Certified) Irr.
64	Green Peas	90	APH	100	Early Season	702	Organic(Certified) Irr.
64	Green Peas	90	APH	612	Podded Peas	702	Organic(Certified) Irr.
64	Green Peas	90	APH	615	Shelled Late Season	702	Organic(Certified) Irr.
64	Green Peas	90	APH	200	Mid Season	702	Organic(Certified) Irr.
64	Green Peas	90	APH	500	Petite	702	Organic(Certified) Irr.
64	Green Peas	90	APH	300	Late Season	702	Organic(Certified) Irr.
64	Green Peas	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
64	Green Peas	90	APH	613	Shelled Early Season	712	Organic(Transitional) Irr.
64	Green Peas	90	APH	600	All Others	712	Organic(Transitional) Irr.
64	Green Peas	90	APH	200	Mid Season	712	Organic(Transitional) Irr.
64	Green Peas	90	APH	611	Shelled Peas	712	Organic(Transitional) Irr.
64	Green Peas	90	APH	300	Late Season	712	Organic(Transitional) Irr.
64	Green Peas	90	APH	100	Early Season	712	Organic(Transitional) Irr.
64	Green Peas	90	APH	612	Podded Peas	712	Organic(Transitional) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
64	Green Peas	90	APH	614	Shelled Mid Season	712	Organic(Transitional) Irr.
64	Green Peas	90	APH	615	Shelled Late Season	712	Organic(Transitional) Irr.
64	Green Peas	90	APH	500	Petite	712	Organic(Transitional) Irr.
67	Dry Peas	1	Yield Protection	97	Spr Smooth Green Or Yellow	2	Irrigated
67	Dry Peas	1	Yield Protection	98	Spr Contract Seed Peas	2	Irrigated
67	Dry Peas	2	Revenue Protection	98	Spr Contract Seed Peas	2	Irrigated
67	Dry Peas	2	Revenue Protection	97	Spr Smooth Green Or Yellow	2	Irrigated
67	Dry Peas	3	Revenue Prot with Harvest Price Exclusion	98	Spr Contract Seed Peas	2	Irrigated
67	Dry Peas	3	Revenue Prot with Harvest Price Exclusion	97	Spr Smooth Green Or Yellow	2	Irrigated
67	Dry Peas	90	APH	97	Spr Smooth Green Or Yellow	2	Irrigated
67	Dry Peas	90	APH	98	Spr Contract Seed Peas	2	Irrigated
67	Dry Peas	1	Yield Protection	98	Spr Contract Seed Peas	702	Organic(Certified) Irr.
67	Dry Peas	1	Yield Protection	97	Spr Smooth Green Or Yellow	702	Organic(Certified) Irr.
67	Dry Peas	2	Revenue Protection	98	Spr Contract Seed Peas	702	Organic(Certified) Irr.
67	Dry Peas	2	Revenue Protection	97	Spr Smooth Green Or Yellow	702	Organic(Certified) Irr.
67	Dry Peas	3	Revenue Prot with Harvest Price Exclusion	98	Spr Contract Seed Peas	702	Organic(Certified) Irr.
67	Dry Peas	3	Revenue Prot with Harvest Price Exclusion	97	Spr Smooth Green Or Yellow	702	Organic(Certified) Irr.
67	Dry Peas	90	APH	97	Spr Smooth Green Or Yellow	702	Organic(Certified) Irr.
67	Dry Peas	90	APH	98	Spr Contract Seed Peas	702	Organic(Certified) Irr.
67	Dry Peas	1	Yield Protection	98	Spr Contract Seed Peas	712	Organic(Transitional) Irr.
67	Dry Peas	1	Yield Protection	97	Spr Smooth Green Or Yellow	712	Organic(Transitional) Irr.
67	Dry Peas	2	Revenue Protection	98	Spr Contract Seed Peas	712	Organic(Transitional) Irr.
67	Dry Peas	2	Revenue Protection	97	Spr Smooth Green Or Yellow	712	Organic(Transitional) Irr.
67	Dry Peas	3	Revenue Prot with Harvest Price Exclusion	97	Spr Smooth Green Or Yellow	712	Organic(Transitional) Irr.
67	Dry Peas	3	Revenue Prot with Harvest Price Exclusion	98	Spr Contract Seed Peas	712	Organic(Transitional) Irr.
67	Dry Peas	90	APH	98	Spr Contract Seed Peas	712	Organic(Transitional) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
67	Dry Peas	90	APH	97	Spr Smooth Green Or Yellow	712	Organic(Transitional) Irr.
69	Mustard	90	APH	9	Yellow	2	Irrigated
69	Mustard	90	APH	7	Oriental	2	Irrigated
69	Mustard	90	APH	8	Brown	2	Irrigated
69	Mustard	90	APH	9	Yellow	702	Organic(Certified) Irr.
69	Mustard	90	APH	8	Brown	702	Organic(Certified) Irr.
69	Mustard	90	APH	7	Oriental	702	Organic(Certified) Irr.
69	Mustard	90	APH	9	Yellow	712	Organic(Transitional) Irr.
69	Mustard	90	APH	8	Brown	712	Organic(Transitional) Irr.
69	Mustard	90	APH	7	Oriental	712	Organic(Transitional) Irr.
72	Cabbage	90	APH	991	Green (Fresh)	211	Winter Planted Irrigated
72	Cabbage	90	APH	992	Red (Fresh)	211	Winter Planted Irrigated
72	Cabbage	90	APH	992	Red (Fresh)	703	Early Spring Planted
72	Cabbage	90	APH	991	Green (Fresh)	703	Early Spring Planted
72	Cabbage	90	APH	992	Red (Fresh)	704	Fall Planted Irrigated
72	Cabbage	90	APH	991	Green (Fresh)	704	Fall Planted Irrigated
72	Cabbage	90	APH	992	Red (Fresh)	705	Spring Planted Irrigated
72	Cabbage	90	APH	991	Green (Fresh)	705	Spring Planted Irrigated
72	Cabbage	90	APH	992	Red (Fresh)	706	Summer Planted Irrigated
72	Cabbage	90	APH	991	Green (Fresh)	706	Summer Planted Irrigated
72	Cabbage	90	APH	992	Red (Fresh)	977	Winter Planted Irrigated(OC)
72	Cabbage	90	APH	991	Green (Fresh)	977	Winter Planted Irrigated(OC)
72	Cabbage	90	APH	991	Green (Fresh)	978	Winter Planted Irrigated(OT)
72	Cabbage	90	APH	992	Red (Fresh)	978	Winter Planted Irrigated(OT)
72	Cabbage	90	APH	991	Green (Fresh)	981	Fall Planted Irrigated(OC)
72	Cabbage	90	APH	992	Red (Fresh)	981	Fall Planted Irrigated(OC)
72	Cabbage	90	APH	992	Red (Fresh)	982	Fall Planted Irrigated(OT)



Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
72	Cabbage	90	APH	991	Green (Fresh)	982	Fall Planted Irrigated(OT)
72	Cabbage	90	APH	991	Green (Fresh)	983	Spring Planted Irrigated(OC)
72	Cabbage	90	APH	992	Red (Fresh)	983	Spring Planted Irrigated(OC)
72	Cabbage	90	APH	992	Red (Fresh)	984	Spring Planted Irrigated(OT)
72	Cabbage	90	APH	991	Green (Fresh)	984	Spring Planted Irrigated(OT)
72	Cabbage	90	APH	992	Red (Fresh)	985	Summer Planted Irrigated(OC)
72	Cabbage	90	APH	991	Green (Fresh)	985	Summer Planted Irrigated(OC)
72	Cabbage	90	APH	991	Green (Fresh)	986	Summer Planted Irrigated(OT)
72	Cabbage	90	APH	992	Red (Fresh)	986	Summer Planted Irrigated(OT)
74	Mint	90	APH	91	Native Spearmint	2	Irrigated
74	Mint	90	APH	90	Peppermint	2	Irrigated
74	Mint	90	APH	92	Scotch Spearmint	2	Irrigated
74	Mint	90	APH	91	Native Spearmint	702	Organic(Certified) Irr.
74	Mint	90	APH	90	Peppermint	702	Organic(Certified) Irr.
74	Mint	90	APH	92	Scotch Spearmint	702	Organic(Certified) Irr.
74	Mint	90	APH	91	Native Spearmint	712	Organic(Transitional) Irr.
74	Mint	90	APH	90	Peppermint	712	Organic(Transitional) Irr.
74	Mint	90	APH	92	Scotch Spearmint	712	Organic(Transitional) Irr.
75	Peanuts	90	APH	81	Virginia	2	Irrigated
75	Peanuts	90	APH	84	Runners	2	Irrigated
75	Peanuts	90	APH	83	Southwest Spanish	2	Irrigated
75	Peanuts	90	APH	82	Southeast Spanish	2	Irrigated
75	Peanuts	90	APH	85	Valencia	2	Irrigated
75	Peanuts	90	APH	84	Runners	26	Irrigated (Spring)
75	Peanuts	90	APH	83	Southwest Spanish	26	Irrigated (Spring)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
75	Peanuts	90	APH	83	Southwest Spanish	27	Irrigated (Fall)
75	Peanuts	90	APH	84	Runners	27	Irrigated (Fall)
75	Peanuts	90	APH	81	Virginia	702	Organic(Certified) Irr.
75	Peanuts	90	APH	82	Southeast Spanish	702	Organic(Certified) Irr.
75	Peanuts	90	APH	84	Runners	702	Organic(Certified) Irr.
75	Peanuts	90	APH	85	Valencia	702	Organic(Certified) Irr.
75	Peanuts	90	APH	83	Southwest Spanish	702	Organic(Certified) Irr.
75	Peanuts	90	APH	82	Southeast Spanish	712	Organic(Transitional) Irr.
75	Peanuts	90	APH	81	Virginia	712	Organic(Transitional) Irr.
75	Peanuts	90	APH	85	Valencia	712	Organic(Transitional) Irr.
75	Peanuts	90	APH	84	Runners	712	Organic(Transitional) Irr.
75	Peanuts	90	APH	83	Southwest Spanish	712	Organic(Transitional) Irr.
75	Peanuts	90	APH	84	Runners	915	Irrigated (Spring)(OC)
75	Peanuts	90	APH	83	Southwest Spanish	915	Irrigated (Spring)(OC)
75	Peanuts	90	APH	84	Runners	916	Irrigated (Spring)(OT)
75	Peanuts	90	APH	83	Southwest Spanish	916	Irrigated (Spring)(OT)
75	Peanuts	90	APH	83	Southwest Spanish	917	Irrigated (Fall)(OC)
75	Peanuts	90	APH	84	Runners	917	Irrigated (Fall)(OC)
75	Peanuts	90	APH	84	Runners	918	Irrigated (Fall)(OT)
75	Peanuts	90	APH	83	Southwest Spanish	918	Irrigated (Fall)(OT)
78	Sunflowers	1	Yield Protection	48	Oil	2	Irrigated
78	Sunflowers	1	Yield Protection	49	Confectionery	2	Irrigated
78	Sunflowers	2	Revenue Protection	49	Confectionery	2	Irrigated
78	Sunflowers	2	Revenue Protection	48	Oil	2	Irrigated
78	Sunflowers	3	Revenue Prot with Harvest Price Exclusion	48	Oil	2	Irrigated
78	Sunflowers	3	Revenue Prot with Harvest Price Exclusion	49	Confectionery	2	Irrigated
78	Sunflowers	1	Yield Protection	48	Oil	702	Organic(Certified) Irr.
78	Sunflowers	1	Yield Protection	49	Confectionery	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
78	Sunflowers	2	Revenue Protection	49	Confectionery	702	Organic(Certified) Irr.
78	Sunflowers	2	Revenue Protection	48	Oil	702	Organic(Certified) Irr.
78	Sunflowers	3	Revenue Prot with Harvest Price Exclusion	49	Confectionery	702	Organic(Certified) Irr.
78	Sunflowers	3	Revenue Prot with Harvest Price Exclusion	48	Oil	702	Organic(Certified) Irr.
78	Sunflowers	1	Yield Protection	48	Oil	712	Organic(Transitional) Irr.
78	Sunflowers	1	Yield Protection	49	Confectionery	712	Organic(Transitional) Irr.
78	Sunflowers	2	Revenue Protection	49	Confectionery	712	Organic(Transitional) Irr.
78	Sunflowers	2	Revenue Protection	48	Oil	712	Organic(Transitional) Irr.
78	Sunflowers	3	Revenue Prot with Harvest Price Exclusion	48	Oil	712	Organic(Transitional) Irr.
78	Sunflowers	3	Revenue Prot with Harvest Price Exclusion	49	Confectionery	712	Organic(Transitional) Irr.
81	Soybeans	1	Yield Protection	885	Low Saturated Fat	2	Irrigated
81	Soybeans	1	Yield Protection	997	No Type Specified	2	Irrigated
81	Soybeans	1	Yield Protection	884	Low Linolenic Acid	2	Irrigated
81	Soybeans	1	Yield Protection	886	High Protein	2	Irrigated
81	Soybeans	1	Yield Protection	883	Small Seeded Food Grade	2	Irrigated
81	Soybeans	1	Yield Protection	91	Commodity	2	Irrigated
81	Soybeans	1	Yield Protection	882	Large Seeded Food Grade	2	Irrigated
81	Soybeans	1	Yield Protection	128	All Other Food Grades	2	Irrigated
81	Soybeans	2	Revenue Protection	886	High Protein	2	Irrigated
81	Soybeans	2	Revenue Protection	884	Low Linolenic Acid	2	Irrigated
81	Soybeans	2	Revenue Protection	997	No Type Specified	2	Irrigated
81	Soybeans	2	Revenue Protection	885	Low Saturated Fat	2	Irrigated
81	Soybeans	2	Revenue Protection	128	All Other Food Grades	2	Irrigated
81	Soybeans	2	Revenue Protection	883	Small Seeded Food Grade	2	Irrigated
81	Soybeans	2	Revenue Protection	91	Commodity	2	Irrigated
81	Soybeans	2	Revenue Protection	882	Large Seeded Food Grade	2	Irrigated
81	Soybeans	3	Revenue Prot with Harvest Price	91	Commodity	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
			Exclusion				
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	886	High Protein	2	Irrigated
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	128	All Other Food Grades	2	Irrigated
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	883	Small Seeded Food Grade	2	Irrigated
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	882	Large Seeded Food Grade	2	Irrigated
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	885	Low Saturated Fat	2	Irrigated
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	2	Irrigated
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	884	Low Linolenic Acid	2	Irrigated
81	Soybeans	4	Area Yield Protection	91	Commodity	2	Irrigated
81	Soybeans	4	Area Yield Protection	997	No Type Specified	2	Irrigated
81	Soybeans	5	Area Revenue Protection	997	No Type Specified	2	Irrigated
81	Soybeans	5	Area Revenue Protection	91	Commodity	2	Irrigated
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	2	Irrigated
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	91	Commodity	2	Irrigated
81	Soybeans	1	Yield Protection	886	High Protein	94	Nfac (Irrigated)
81	Soybeans	1	Yield Protection	91	Commodity	94	Nfac (Irrigated)
81	Soybeans	1	Yield Protection	882	Large Seeded Food Grade	94	Nfac (Irrigated)
81	Soybeans	1	Yield Protection	885	Low Saturated Fat	94	Nfac (Irrigated)
81	Soybeans	1	Yield Protection	883	Small Seeded Food Grade	94	Nfac (Irrigated)
81	Soybeans	1	Yield Protection	884	Low Linolenic Acid	94	Nfac (Irrigated)
81	Soybeans	1	Yield Protection	997	No Type Specified	94	Nfac (Irrigated)
81	Soybeans	1	Yield Protection	128	All Other Food Grades	94	Nfac (Irrigated)
81	Soybeans	2	Revenue Protection	883	Small Seeded Food Grade	94	Nfac (Irrigated)
81	Soybeans	2	Revenue Protection	91	Commodity	94	Nfac (Irrigated)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
81	Soybeans	2	Revenue Protection	886	High Protein	94	Nfac (Irrigated)
81	Soybeans	2	Revenue Protection	885	Low Saturated Fat	94	Nfac (Irrigated)
81	Soybeans	2	Revenue Protection	997	No Type Specified	94	Nfac (Irrigated)
81	Soybeans	2	Revenue Protection	882	Large Seeded Food Grade	94	Nfac (Irrigated)
81	Soybeans	2	Revenue Protection	128	All Other Food Grades	94	Nfac (Irrigated)
81	Soybeans	2	Revenue Protection	884	Low Linolenic Acid	94	Nfac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	882	Large Seeded Food Grade	94	Nfac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	886	High Protein	94	Nfac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	91	Commodity	94	Nfac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	884	Low Linolenic Acid	94	Nfac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	883	Small Seeded Food Grade	94	Nfac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	94	Nfac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	128	All Other Food Grades	94	Nfac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	885	Low Saturated Fat	94	Nfac (Irrigated)
81	Soybeans	4	Area Yield Protection	997	No Type Specified	94	Nfac (Irrigated)
81	Soybeans	4	Area Yield Protection	91	Commodity	94	Nfac (Irrigated)
81	Soybeans	5	Area Revenue Protection	91	Commodity	94	Nfac (Irrigated)
81	Soybeans	5	Area Revenue Protection	997	No Type Specified	94	Nfac (Irrigated)
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	94	Nfac (Irrigated)
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	91	Commodity	94	Nfac (Irrigated)
81	Soybeans	1	Yield Protection	997	No Type Specified	95	Fac (Irrigated)
81	Soybeans	1	Yield Protection	882	Large Seeded Food Grade	95	Fac (Irrigated)
81	Soybeans	1	Yield Protection	886	High Protein	95	Fac (Irrigated)
81	Soybeans	1	Yield Protection	885	Low Saturated Fat	95	Fac (Irrigated)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
81	Soybeans	1	Yield Protection	91	Commodity	95	Fac (Irrigated)
81	Soybeans	1	Yield Protection	884	Low Linolenic Acid	95	Fac (Irrigated)
81	Soybeans	1	Yield Protection	128	All Other Food Grades	95	Fac (Irrigated)
81	Soybeans	1	Yield Protection	883	Small Seeded Food Grade	95	Fac (Irrigated)
81	Soybeans	2	Revenue Protection	884	Low Linolenic Acid	95	Fac (Irrigated)
81	Soybeans	2	Revenue Protection	882	Large Seeded Food Grade	95	Fac (Irrigated)
81	Soybeans	2	Revenue Protection	886	High Protein	95	Fac (Irrigated)
81	Soybeans	2	Revenue Protection	128	All Other Food Grades	95	Fac (Irrigated)
81	Soybeans	2	Revenue Protection	883	Small Seeded Food Grade	95	Fac (Irrigated)
81	Soybeans	2	Revenue Protection	997	No Type Specified	95	Fac (Irrigated)
81	Soybeans	2	Revenue Protection	91	Commodity	95	Fac (Irrigated)
81	Soybeans	2	Revenue Protection	885	Low Saturated Fat	95	Fac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	884	Low Linolenic Acid	95	Fac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	885	Low Saturated Fat	95	Fac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	882	Large Seeded Food Grade	95	Fac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	883	Small Seeded Food Grade	95	Fac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	91	Commodity	95	Fac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	95	Fac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	886	High Protein	95	Fac (Irrigated)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	128	All Other Food Grades	95	Fac (Irrigated)
81	Soybeans	4	Area Yield Protection	997	No Type Specified	95	Fac (Irrigated)
81	Soybeans	4	Area Yield Protection	91	Commodity	95	Fac (Irrigated)
81	Soybeans	5	Area Revenue Protection	91	Commodity	95	Fac (Irrigated)
81	Soybeans	5	Area Revenue Protection	997	No Type Specified	95	Fac (Irrigated)
81	Soybeans	6	Area Revenue Protection - Harvest	91	Commodity	95	Fac (Irrigated)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
			Price Exclusion				
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	95	Fac (Irrigated)
81	Soybeans	1	Yield Protection	884	Low Linolenic Acid	702	Organic(Certified) Irr.
81	Soybeans	1	Yield Protection	883	Small Seeded Food Grade	702	Organic(Certified) Irr.
81	Soybeans	1	Yield Protection	128	All Other Food Grades	702	Organic(Certified) Irr.
81	Soybeans	1	Yield Protection	997	No Type Specified	702	Organic(Certified) Irr.
81	Soybeans	1	Yield Protection	885	Low Saturated Fat	702	Organic(Certified) Irr.
81	Soybeans	1	Yield Protection	91	Commodity	702	Organic(Certified) Irr.
81	Soybeans	1	Yield Protection	886	High Protein	702	Organic(Certified) Irr.
81	Soybeans	1	Yield Protection	882	Large Seeded Food Grade	702	Organic(Certified) Irr.
81	Soybeans	2	Revenue Protection	883	Small Seeded Food Grade	702	Organic(Certified) Irr.
81	Soybeans	2	Revenue Protection	884	Low Linolenic Acid	702	Organic(Certified) Irr.
81	Soybeans	2	Revenue Protection	91	Commodity	702	Organic(Certified) Irr.
81	Soybeans	2	Revenue Protection	886	High Protein	702	Organic(Certified) Irr.
81	Soybeans	2	Revenue Protection	997	No Type Specified	702	Organic(Certified) Irr.
81	Soybeans	2	Revenue Protection	128	All Other Food Grades	702	Organic(Certified) Irr.
81	Soybeans	2	Revenue Protection	885	Low Saturated Fat	702	Organic(Certified) Irr.
81	Soybeans	2	Revenue Protection	882	Large Seeded Food Grade	702	Organic(Certified) Irr.
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	702	Organic(Certified) Irr.
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	91	Commodity	702	Organic(Certified) Irr.
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	885	Low Saturated Fat	702	Organic(Certified) Irr.
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	882	Large Seeded Food Grade	702	Organic(Certified) Irr.
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	128	All Other Food Grades	702	Organic(Certified) Irr.
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	886	High Protein	702	Organic(Certified) Irr.
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	884	Low Linolenic Acid	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	883	Small Seeded Food Grade	702	Organic(Certified) Irr.
81	Soybeans	4	Area Yield Protection	91	Commodity	702	Organic(Certified) Irr.
81	Soybeans	4	Area Yield Protection	997	No Type Specified	702	Organic(Certified) Irr.
81	Soybeans	5	Area Revenue Protection	91	Commodity	702	Organic(Certified) Irr.
81	Soybeans	5	Area Revenue Protection	997	No Type Specified	702	Organic(Certified) Irr.
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	91	Commodity	702	Organic(Certified) Irr.
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	702	Organic(Certified) Irr.
81	Soybeans	1	Yield Protection	885	Low Saturated Fat	712	Organic(Transitional) Irr.
81	Soybeans	1	Yield Protection	883	Small Seeded Food Grade	712	Organic(Transitional) Irr.
81	Soybeans	1	Yield Protection	886	High Protein	712	Organic(Transitional) Irr.
81	Soybeans	1	Yield Protection	91	Commodity	712	Organic(Transitional) Irr.
81	Soybeans	1	Yield Protection	882	Large Seeded Food Grade	712	Organic(Transitional) Irr.
81	Soybeans	1	Yield Protection	997	No Type Specified	712	Organic(Transitional) Irr.
81	Soybeans	1	Yield Protection	884	Low Linolenic Acid	712	Organic(Transitional) Irr.
81	Soybeans	1	Yield Protection	128	All Other Food Grades	712	Organic(Transitional) Irr.
81	Soybeans	2	Revenue Protection	91	Commodity	712	Organic(Transitional) Irr.
81	Soybeans	2	Revenue Protection	884	Low Linolenic Acid	712	Organic(Transitional) Irr.
81	Soybeans	2	Revenue Protection	886	High Protein	712	Organic(Transitional) Irr.
81	Soybeans	2	Revenue Protection	885	Low Saturated Fat	712	Organic(Transitional) Irr.
81	Soybeans	2	Revenue Protection	997	No Type Specified	712	Organic(Transitional) Irr.
81	Soybeans	2	Revenue Protection	882	Large Seeded Food Grade	712	Organic(Transitional) Irr.
81	Soybeans	2	Revenue Protection	128	All Other Food Grades	712	Organic(Transitional) Irr.
81	Soybeans	2	Revenue Protection	883	Small Seeded Food Grade	712	Organic(Transitional) Irr.
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	712	Organic(Transitional) Irr.
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	91	Commodity	712	Organic(Transitional) Irr.
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	883	Small Seeded Food Grade	712	Organic(Transitional) Irr.



Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	885	Low Saturated Fat	712	Organic(Transitional) Irr.
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	882	Large Seeded Food Grade	712	Organic(Transitional) Irr.
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	128	All Other Food Grades	712	Organic(Transitional) Irr.
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	886	High Protein	712	Organic(Transitional) Irr.
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	884	Low Linolenic Acid	712	Organic(Transitional) Irr.
81	Soybeans	4	Area Yield Protection	997	No Type Specified	712	Organic(Transitional) Irr.
81	Soybeans	4	Area Yield Protection	91	Commodity	712	Organic(Transitional) Irr.
81	Soybeans	5	Area Revenue Protection	997	No Type Specified	712	Organic(Transitional) Irr.
81	Soybeans	5	Area Revenue Protection	91	Commodity	712	Organic(Transitional) Irr.
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	91	Commodity	712	Organic(Transitional) Irr.
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	712	Organic(Transitional) Irr.
81	Soybeans	1	Yield Protection	91	Commodity	739	Nfac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	882	Large Seeded Food Grade	739	Nfac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	884	Low Linolenic Acid	739	Nfac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	885	Low Saturated Fat	739	Nfac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	883	Small Seeded Food Grade	739	Nfac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	886	High Protein	739	Nfac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	128	All Other Food Grades	739	Nfac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	997	No Type Specified	739	Nfac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	91	Commodity	739	Nfac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	883	Small Seeded Food Grade	739	Nfac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	884	Low Linolenic Acid	739	Nfac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	885	Low Saturated Fat	739	Nfac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	886	High Protein	739	Nfac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	882	Large Seeded Food Grade	739	Nfac (Irrigated)(OC)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
81	Soybeans	2	Revenue Protection	128	All Other Food Grades	739	Nfac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	997	No Type Specified	739	Nfac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	883	Small Seeded Food Grade	739	Nfac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	91	Commodity	739	Nfac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	886	High Protein	739	Nfac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	128	All Other Food Grades	739	Nfac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	885	Low Saturated Fat	739	Nfac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	739	Nfac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	884	Low Linolenic Acid	739	Nfac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	882	Large Seeded Food Grade	739	Nfac (Irrigated)(OC)
81	Soybeans	4	Area Yield Protection	91	Commodity	739	Nfac (Irrigated)(OC)
81	Soybeans	4	Area Yield Protection	997	No Type Specified	739	Nfac (Irrigated)(OC)
81	Soybeans	5	Area Revenue Protection	997	No Type Specified	739	Nfac (Irrigated)(OC)
81	Soybeans	5	Area Revenue Protection	91	Commodity	739	Nfac (Irrigated)(OC)
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	739	Nfac (Irrigated)(OC)
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	91	Commodity	739	Nfac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	883	Small Seeded Food Grade	740	Nfac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	885	Low Saturated Fat	740	Nfac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	128	All Other Food Grades	740	Nfac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	91	Commodity	740	Nfac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	886	High Protein	740	Nfac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	882	Large Seeded Food Grade	740	Nfac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	884	Low Linolenic Acid	740	Nfac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	997	No Type Specified	740	Nfac (Irrigated)(OT)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
81	Soybeans	2	Revenue Protection	882	Large Seeded Food Grade	740	Nfac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	884	Low Linolenic Acid	740	Nfac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	997	No Type Specified	740	Nfac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	883	Small Seeded Food Grade	740	Nfac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	128	All Other Food Grades	740	Nfac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	885	Low Saturated Fat	740	Nfac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	91	Commodity	740	Nfac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	886	High Protein	740	Nfac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	884	Low Linolenic Acid	740	Nfac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	882	Large Seeded Food Grade	740	Nfac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	885	Low Saturated Fat	740	Nfac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	128	All Other Food Grades	740	Nfac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	883	Small Seeded Food Grade	740	Nfac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	740	Nfac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	886	High Protein	740	Nfac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	91	Commodity	740	Nfac (Irrigated)(OT)
81	Soybeans	4	Area Yield Protection	997	No Type Specified	740	Nfac (Irrigated)(OT)
81	Soybeans	4	Area Yield Protection	91	Commodity	740	Nfac (Irrigated)(OT)
81	Soybeans	5	Area Revenue Protection	997	No Type Specified	740	Nfac (Irrigated)(OT)
81	Soybeans	5	Area Revenue Protection	91	Commodity	740	Nfac (Irrigated)(OT)
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	91	Commodity	740	Nfac (Irrigated)(OT)
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	740	Nfac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	884	Low Linolenic Acid	741	Fac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	882	Large Seeded Food Grade	741	Fac (Irrigated)(OC)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
81	Soybeans	1	Yield Protection	997	No Type Specified	741	Fac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	886	High Protein	741	Fac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	128	All Other Food Grades	741	Fac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	885	Low Saturated Fat	741	Fac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	883	Small Seeded Food Grade	741	Fac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	91	Commodity	741	Fac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	886	High Protein	741	Fac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	883	Small Seeded Food Grade	741	Fac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	885	Low Saturated Fat	741	Fac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	91	Commodity	741	Fac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	128	All Other Food Grades	741	Fac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	882	Large Seeded Food Grade	741	Fac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	884	Low Linolenic Acid	741	Fac (Irrigated)(OC)
81	Soybeans	2	Revenue Protection	997	No Type Specified	741	Fac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	91	Commodity	741	Fac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	886	High Protein	741	Fac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	741	Fac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	885	Low Saturated Fat	741	Fac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	882	Large Seeded Food Grade	741	Fac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	883	Small Seeded Food Grade	741	Fac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	128	All Other Food Grades	741	Fac (Irrigated)(OC)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	884	Low Linolenic Acid	741	Fac (Irrigated)(OC)
81	Soybeans	4	Area Yield Protection	91	Commodity	741	Fac (Irrigated)(OC)
81	Soybeans	4	Area Yield Protection	997	No Type Specified	741	Fac (Irrigated)(OC)
81	Soybeans	5	Area Revenue Protection	91	Commodity	741	Fac (Irrigated)(OC)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
81	Soybeans	5	Area Revenue Protection	997	No Type Specified	741	Fac (Irrigated)(OC)
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	741	Fac (Irrigated)(OC)
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	91	Commodity	741	Fac (Irrigated)(OC)
81	Soybeans	1	Yield Protection	884	Low Linolenic Acid	742	Fac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	886	High Protein	742	Fac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	91	Commodity	742	Fac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	883	Small Seeded Food Grade	742	Fac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	997	No Type Specified	742	Fac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	128	All Other Food Grades	742	Fac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	885	Low Saturated Fat	742	Fac (Irrigated)(OT)
81	Soybeans	1	Yield Protection	882	Large Seeded Food Grade	742	Fac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	885	Low Saturated Fat	742	Fac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	883	Small Seeded Food Grade	742	Fac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	886	High Protein	742	Fac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	884	Low Linolenic Acid	742	Fac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	128	All Other Food Grades	742	Fac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	882	Large Seeded Food Grade	742	Fac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	997	No Type Specified	742	Fac (Irrigated)(OT)
81	Soybeans	2	Revenue Protection	91	Commodity	742	Fac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	882	Large Seeded Food Grade	742	Fac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	885	Low Saturated Fat	742	Fac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	128	All Other Food Grades	742	Fac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	742	Fac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	883	Small Seeded Food Grade	742	Fac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	91	Commodity	742	Fac (Irrigated)(OT)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	884	Low Linolenic Acid	742	Fac (Irrigated)(OT)
81	Soybeans	3	Revenue Prot with Harvest Price Exclusion	886	High Protein	742	Fac (Irrigated)(OT)
81	Soybeans	4	Area Yield Protection	91	Commodity	742	Fac (Irrigated)(OT)
81	Soybeans	4	Area Yield Protection	997	No Type Specified	742	Fac (Irrigated)(OT)
81	Soybeans	5	Area Revenue Protection	91	Commodity	742	Fac (Irrigated)(OT)
81	Soybeans	5	Area Revenue Protection	997	No Type Specified	742	Fac (Irrigated)(OT)
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	997	No Type Specified	742	Fac (Irrigated)(OT)
81	Soybeans	6	Area Revenue Protection - Harvest Price Exclusion	91	Commodity	742	Fac (Irrigated)(OT)
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	130	Fall Direct Seeded Irr.
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	140	Fall Transplanted Irr.
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	230	Winter Direct Seeded Irr.
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	240	Winter Transplanted Irr.
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	330	Spring Direct Seeded Irr.
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	340	Spring Transplanted Irr.
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	769	Fall Direct Seeded Irr.(OC)
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	770	Fall Direct Seeded Irr.(OT)
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	771	Fall Transplanted Irr.(OC)
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	772	Fall Transplanted Irr.(OT)
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	773	Winter Direct Seeded Irr.(OC)
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	774	Winter Direct Seeded Irr.(OT)
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	775	Winter Transplanted Irr.(OC)
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	776	Winter Transplanted Irr.(OT)
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	777	Spring Direct Seeded Irr.(OC)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	778	Spring Direct Seeded Irr.(OT)
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	779	Spring Transplanted Irr.(OC)
83	Peppers	50	Dollar Amount Of Insurance	335	Bell Pepper	780	Spring Transplanted Irr.(OT)
84	Potatoes	90	APH	79	Whites	2	Irrigated
84	Potatoes	90	APH	80	Russets Non-Seed	2	Irrigated
84	Potatoes	90	APH	361	Group C	2	Irrigated
84	Potatoes	90	APH	90	Russets Seed	2	Irrigated
84	Potatoes	90	APH	95	Whites Seed	2	Irrigated
84	Potatoes	90	APH	84	Reds Non-Seed	2	Irrigated
84	Potatoes	90	APH	261	Group B	2	Irrigated
84	Potatoes	90	APH	77	Russets	2	Irrigated
84	Potatoes	90	APH	85	Whites Non-Seed	2	Irrigated
84	Potatoes	90	APH	93	All Other	2	Irrigated
84	Potatoes	90	APH	9	Seed	2	Irrigated
84	Potatoes	90	APH	0	All Types	2	Irrigated
84	Potatoes	90	APH	76	Russets/Shepodys	2	Irrigated
84	Potatoes	90	APH	997	No Type Specified	2	Irrigated
84	Potatoes	90	APH	78	Reds	2	Irrigated
84	Potatoes	90	APH	94	Reds Seed	2	Irrigated
84	Potatoes	90	APH	161	Group A	2	Irrigated
84	Potatoes	90	APH	261	Group B	120	Fall Planted Irr.
84	Potatoes	90	APH	161	Group A	120	Fall Planted Irr.
84	Potatoes	90	APH	161	Group A	181	Fall Planted Early Season Irr.
84	Potatoes	90	APH	261	Group B	181	Fall Planted Early Season Irr.
84	Potatoes	90	APH	161	Group A	182	Fall Planted Mid Season Irr.
84	Potatoes	90	APH	261	Group B	182	Fall Planted Mid Season

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
							Irr.
84	Potatoes	90	APH	161	Group A	183	Fall Planted Late Season Irr.
84	Potatoes	90	APH	261	Group B	183	Fall Planted Late Season Irr.
84	Potatoes	90	APH	261	Group B	184	Spring Planted Early Season Irr.
84	Potatoes	90	APH	161	Group A	184	Spring Planted Early Season Irr.
84	Potatoes	90	APH	261	Group B	185	Spring Planted Late Season Irr.
84	Potatoes	90	APH	161	Group A	185	Spring Planted Late Season Irr.
84	Potatoes	90	APH	261	Group B	186	Fall Planted Early Season Irr.(OC)
84	Potatoes	90	APH	161	Group A	186	Fall Planted Early Season Irr.(OC)
84	Potatoes	90	APH	261	Group B	187	Fall Planted Early Season Irr.(OT)
84	Potatoes	90	APH	161	Group A	187	Fall Planted Early Season Irr.(OT)
84	Potatoes	90	APH	261	Group B	188	Fall Planted Mid Season Irr.(OC)
84	Potatoes	90	APH	161	Group A	188	Fall Planted Mid Season Irr.(OC)
84	Potatoes	90	APH	261	Group B	189	Fall Planted Mid Season Irr.(OT)
84	Potatoes	90	APH	161	Group A	189	Fall Planted Mid Season Irr.(OT)
84	Potatoes	90	APH	261	Group B	190	Fall Planted Late Season Irr.(OC)
84	Potatoes	90	APH	161	Group A	190	Fall Planted Late Season Irr.(OC)
84	Potatoes	90	APH	261	Group B	191	Fall Planted Late Season Irr.(OT)
84	Potatoes	90	APH	161	Group A	191	Fall Planted Late Season Irr.(OT)



Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
84	Potatoes	90	APH	261	Group B	192	Spring Planted Early Season Irr.(OC)
84	Potatoes	90	APH	161	Group A	192	Spring Planted Early Season Irr.(OC)
84	Potatoes	90	APH	261	Group B	193	Spring Planted Early Season Irr.(OT)
84	Potatoes	90	APH	161	Group A	193	Spring Planted Early Season Irr.(OT)
84	Potatoes	90	APH	261	Group B	194	Spring Planted Late Season Irr.(OC)
84	Potatoes	90	APH	161	Group A	194	Spring Planted Late Season Irr.(OC)
84	Potatoes	90	APH	161	Group A	195	Spring Planted Late Season Irr.(OT)
84	Potatoes	90	APH	261	Group B	195	Spring Planted Late Season Irr.(OT)
84	Potatoes	90	APH	161	Group A	196	Winter Planted Early Season Irr.
84	Potatoes	90	APH	261	Group B	196	Winter Planted Early Season Irr.
84	Potatoes	90	APH	261	Group B	197	Winter Planted Late Season Irr.
84	Potatoes	90	APH	161	Group A	197	Winter Planted Late Season Irr.
84	Potatoes	90	APH	261	Group B	198	Winter Planted Early Season Irr.(OC)
84	Potatoes	90	APH	161	Group A	198	Winter Planted Early Season Irr.(OC)
84	Potatoes	90	APH	261	Group B	199	Winter Planted Early Season Irr.(OT)
84	Potatoes	90	APH	161	Group A	199	Winter Planted Early Season Irr.(OT)
84	Potatoes	90	APH	161	Group A	200	Winter Planted Late Season Irr.(OC)
84	Potatoes	90	APH	261	Group B	200	Winter Planted Late Season Irr.(OC)
84	Potatoes	90	APH	161	Group A	201	Winter Planted Late Season Irr.(OT)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
84	Potatoes	90	APH	261	Group B	201	Winter Planted Late Season Irr.(OT)
84	Potatoes	90	APH	161	Group A	220	Winter Planted Irr.
84	Potatoes	90	APH	261	Group B	220	Winter Planted Irr.
84	Potatoes	90	APH	161	Group A	320	Spring Planted Irr.
84	Potatoes	90	APH	261	Group B	320	Spring Planted Irr.
84	Potatoes	90	APH	261	Group B	420	Summer Planted Irr.
84	Potatoes	90	APH	161	Group A	420	Summer Planted Irr.
84	Potatoes	90	APH	76	Russets/Shepodys	702	Organic(Certified) Irr.
84	Potatoes	90	APH	79	Whites	702	Organic(Certified) Irr.
84	Potatoes	90	APH	85	Whites Non-Seed	702	Organic(Certified) Irr.
84	Potatoes	90	APH	94	Reds Seed	702	Organic(Certified) Irr.
84	Potatoes	90	APH	261	Group B	702	Organic(Certified) Irr.
84	Potatoes	90	APH	161	Group A	702	Organic(Certified) Irr.
84	Potatoes	90	APH	78	Reds	702	Organic(Certified) Irr.
84	Potatoes	90	APH	80	Russets Non-Seed	702	Organic(Certified) Irr.
84	Potatoes	90	APH	84	Reds Non-Seed	702	Organic(Certified) Irr.
84	Potatoes	90	APH	77	Russets	702	Organic(Certified) Irr.
84	Potatoes	90	APH	9	Seed	702	Organic(Certified) Irr.
84	Potatoes	90	APH	90	Russets Seed	702	Organic(Certified) Irr.
84	Potatoes	90	APH	95	Whites Seed	702	Organic(Certified) Irr.
84	Potatoes	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
84	Potatoes	90	APH	0	All Types	702	Organic(Certified) Irr.
84	Potatoes	90	APH	361	Group C	702	Organic(Certified) Irr.
84	Potatoes	90	APH	93	All Other	702	Organic(Certified) Irr.
84	Potatoes	90	APH	85	Whites Non-Seed	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	79	Whites	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	9	Seed	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	94	Reds Seed	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	80	Russets Non-Seed	712	Organic(Transitional) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
84	Potatoes	90	APH	78	Reds	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	95	Whites Seed	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	261	Group B	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	90	Russets Seed	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	361	Group C	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	93	All Other	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	161	Group A	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	76	Russets/Shepodys	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	77	Russets	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	84	Reds Non-Seed	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	0	All Types	712	Organic(Transitional) Irr.
84	Potatoes	90	APH	161	Group A	759	Fall Planted Irr.(OC)
84	Potatoes	90	APH	261	Group B	759	Fall Planted Irr.(OC)
84	Potatoes	90	APH	161	Group A	760	Fall Planted Irr.(OT)
84	Potatoes	90	APH	261	Group B	760	Fall Planted Irr.(OT)
84	Potatoes	90	APH	261	Group B	761	Winter Planted Irr.(OC)
84	Potatoes	90	APH	161	Group A	761	Winter Planted Irr.(OC)
84	Potatoes	90	APH	261	Group B	762	Winter Planted Irr.(OT)
84	Potatoes	90	APH	161	Group A	762	Winter Planted Irr.(OT)
84	Potatoes	90	APH	161	Group A	763	Spring Planted Irr.(OC)
84	Potatoes	90	APH	261	Group B	763	Spring Planted Irr.(OC)
84	Potatoes	90	APH	261	Group B	764	Spring Planted Irr.(OT)
84	Potatoes	90	APH	161	Group A	764	Spring Planted Irr.(OT)
84	Potatoes	90	APH	161	Group A	929	Summer Planted Irr.(OC)
84	Potatoes	90	APH	261	Group B	929	Summer Planted Irr.(OC)
84	Potatoes	90	APH	161	Group A	930	Summer Planted Irr.(OT)
84	Potatoes	90	APH	261	Group B	930	Summer Planted Irr.(OT)
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	246	Field Grown Cherry	141	Fall Transpltd Irr Staked
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	248	Field Grown Plum	141	Fall Transpltd Irr Staked
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	247	Field Grown Grape	141	Fall Transpltd Irr Staked
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	245	Field Grown Traditional Round	141	Fall Transpltd Irr Staked
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	143	Fall Transpltd Irr Mulch Staked
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	144	Fall Transpltd Irr Unmulch Staked
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	245	Field Grown Traditional Round	241	Wtr. Transpltd Irr Staked
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	247	Field Grown Grape	241	Wtr. Transpltd Irr Staked
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	246	Field Grown Cherry	241	Wtr. Transpltd Irr Staked
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	248	Field Grown Plum	241	Wtr. Transpltd Irr Staked
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	245	Field Grown Traditional Round	341	Spr. Transpltd Irr Staked
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	248	Field Grown Plum	341	Spr. Transpltd Irr Staked
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	246	Field Grown Cherry	341	Spr. Transpltd Irr Staked
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	247	Field Grown Grape	341	Spr. Transpltd Irr Staked
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	343	Spr Transpltd Irr Mulch Staked
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	344	Spr Transpltd Irr Unmulch Stake
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	347	Spr Transpltd N-Irr Mulch Stake
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	503	Irr. Mulch Staked
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	247	Field Grown Grape	783	Fall Transpltd Irr Staked(OC)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	245	Field Grown Traditional Round	783	Fall Transpltd Irr Staked(OC)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	246	Field Grown Cherry	783	Fall Transpltd Irr Staked(OC)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	248	Field Grown Plum	783	Fall Transpltd Irr Staked(OC)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	248	Field Grown Plum	784	Fall Transpltd Irr Staked(OT)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	247	Field Grown Grape	784	Fall Transpltd Irr Staked(OT)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	245	Field Grown Traditional Round	784	Fall Transpltd Irr Staked(OT)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	246	Field Grown Cherry	784	Fall Transpltd Irr Staked(OT)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	245	Field Grown Traditional Round	787	Wtr. Transpltd Irr Staked(OC)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	246	Field Grown Cherry	787	Wtr. Transpltd Irr Staked(OC)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	248	Field Grown Plum	787	Wtr. Transpltd Irr Staked(OC)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	247	Field Grown Grape	787	Wtr. Transpltd Irr Staked(OC)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	248	Field Grown Plum	788	Wtr. Transpltd Irr Staked(OT)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	246	Field Grown Cherry	788	Wtr. Transpltd Irr Staked(OT)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	245	Field Grown Traditional Round	788	Wtr. Transpltd Irr Staked(OT)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	247	Field Grown Grape	788	Wtr. Transpltd Irr Staked(OT)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	248	Field Grown Plum	791	Spr. Transpltd Irr Staked(OC)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	246	Field Grown Cherry	791	Spr. Transpltd Irr Staked(OC)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	245	Field Grown Traditional Round	791	Spr. Transpltd Irr Staked(OC)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	247	Field Grown Grape	791	Spr. Transpltd Irr Staked(OC)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	246	Field Grown Cherry	792	Spr. Transpltd Irr Staked(OT)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	248	Field Grown Plum	792	Spr. Transpltd Irr Staked(OT)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	245	Field Grown Traditional Round	792	Spr. Transpltd Irr Staked(OT)
86	Fresh Market Tomatoes	50	Dollar Amount Of Insurance	247	Field Grown Grape	792	Spr. Transpltd Irr Staked(OT)
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	931	Fall Transpltd Irr Mulch Staked(OC)
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	932	Fall Transpltd Irr Mulch Staked(OT)
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	933	Fall Transpltd Irr Unmulch Staked(OC)
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	934	Fall Transpltd Irr Unmulch Staked(OT)
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	937	Spr Transpltd Irr Mulch Staked(OC)
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	938	Spr Transpltd Irr Mulch Staked(OT)
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	939	Spr Transpltd Irr Unmulch Stake(OC)
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	940	Spr Transpltd Irr Unmulch Stake(OT)
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	945	Irr. Mulch Staked(OC)
86	Fresh Market Tomatoes	90	APH	997	No Type Specified	946	Irr. Mulch Staked(OT)
87	Tomatoes	90	APH	997	No Type Specified	2	Irrigated
87	Tomatoes	90	APH	997	No Type Specified	114	Early (Irrigated)
87	Tomatoes	90	APH	997	No Type Specified	115	Late (Irrigated)
87	Tomatoes	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
87	Tomatoes	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.

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Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
87	Tomatoes	90	APH	997	No Type Specified	845	Early (Irrigated)(OC)
87	Tomatoes	90	APH	997	No Type Specified	846	Early (Irrigated)(OT)
87	Tomatoes	90	APH	997	No Type Specified	847	Late (Irrigated)(OC)
87	Tomatoes	90	APH	997	No Type Specified	848	Late (Irrigated)(OT)
89	Pears	90	APH	186	Green & Red Bartlet	2	Irrigated
89	Pears	90	APH	289	All Others	2	Irrigated
89	Pears	90	APH	189	Green Bartlett	2	Irrigated
89	Pears	90	APH	389	Winter	2	Irrigated
89	Pears	90	APH	188	Green & Red Comice	2	Irrigated
89	Pears	90	APH	187	Bosc & Anjou	2	Irrigated
89	Pears	90	APH	389	Winter	702	Organic(Certified) Irr.
89	Pears	90	APH	186	Green & Red Bartlet	702	Organic(Certified) Irr.
89	Pears	90	APH	189	Green Bartlett	702	Organic(Certified) Irr.
89	Pears	90	APH	289	All Others	702	Organic(Certified) Irr.
89	Pears	90	APH	188	Green & Red Comice	702	Organic(Certified) Irr.
89	Pears	90	APH	187	Bosc & Anjou	702	Organic(Certified) Irr.
89	Pears	90	APH	189	Green Bartlett	712	Organic(Transitional) Irr.
89	Pears	90	APH	186	Green & Red Bartlet	712	Organic(Transitional) Irr.
89	Pears	90	APH	389	Winter	712	Organic(Transitional) Irr.
89	Pears	90	APH	289	All Others	712	Organic(Transitional) Irr.
89	Pears	90	APH	187	Bosc & Anjou	712	Organic(Transitional) Irr.
89	Pears	90	APH	188	Green & Red Comice	712	Organic(Transitional) Irr.
91	Barley	1	Yield Protection	873	Malting (Spring)	2	Irrigated
91	Barley	1	Yield Protection	875	Waxy Hullless (Spring)	2	Irrigated
91	Barley	1	Yield Protection	91	Winter	2	Irrigated
91	Barley	1	Yield Protection	972	All Others (Winter)	2	Irrigated
91	Barley	1	Yield Protection	973	Malting (Winter)	2	Irrigated
91	Barley	1	Yield Protection	997	No Type Specified	2	Irrigated
91	Barley	1	Yield Protection	92	Spring	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
91	Barley	1	Yield Protection	876	Hulless (Spring)	2	Irrigated
91	Barley	1	Yield Protection	872	All Others (Spring)	2	Irrigated
91	Barley	1	Yield Protection	874	Waxy Hulled (Spring)	2	Irrigated
91	Barley	2	Revenue Protection	874	Waxy Hulled (Spring)	2	Irrigated
91	Barley	2	Revenue Protection	92	Spring	2	Irrigated
91	Barley	2	Revenue Protection	972	All Others (Winter)	2	Irrigated
91	Barley	2	Revenue Protection	973	Malting (Winter)	2	Irrigated
91	Barley	2	Revenue Protection	876	Hulless (Spring)	2	Irrigated
91	Barley	2	Revenue Protection	875	Waxy Hulless (Spring)	2	Irrigated
91	Barley	2	Revenue Protection	873	Malting (Spring)	2	Irrigated
91	Barley	2	Revenue Protection	872	All Others (Spring)	2	Irrigated
91	Barley	2	Revenue Protection	91	Winter	2	Irrigated
91	Barley	2	Revenue Protection	997	No Type Specified	2	Irrigated
91	Barley	3	Revenue Prot with Harvest Price Exclusion	91	Winter	2	Irrigated
91	Barley	3	Revenue Prot with Harvest Price Exclusion	873	Malting (Spring)	2	Irrigated
91	Barley	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	2	Irrigated
91	Barley	3	Revenue Prot with Harvest Price Exclusion	92	Spring	2	Irrigated
91	Barley	3	Revenue Prot with Harvest Price Exclusion	872	All Others (Spring)	2	Irrigated
91	Barley	3	Revenue Prot with Harvest Price Exclusion	874	Waxy Hulled (Spring)	2	Irrigated
91	Barley	3	Revenue Prot with Harvest Price Exclusion	972	All Others (Winter)	2	Irrigated
91	Barley	3	Revenue Prot with Harvest Price Exclusion	875	Waxy Hulless (Spring)	2	Irrigated
91	Barley	3	Revenue Prot with Harvest Price Exclusion	876	Hulless (Spring)	2	Irrigated
91	Barley	3	Revenue Prot with Harvest Price Exclusion	973	Malting (Winter)	2	Irrigated
91	Barley	1	Yield Protection	873	Malting (Spring)	702	Organic(Certified) Irr.



Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
91	Barley	1	Yield Protection	876	Hulless (Spring)	702	Organic(Certified) Irr.
91	Barley	1	Yield Protection	997	No Type Specified	702	Organic(Certified) Irr.
91	Barley	1	Yield Protection	92	Spring	702	Organic(Certified) Irr.
91	Barley	1	Yield Protection	973	Malting (Winter)	702	Organic(Certified) Irr.
91	Barley	1	Yield Protection	875	Waxy Hulless (Spring)	702	Organic(Certified) Irr.
91	Barley	1	Yield Protection	972	All Others (Winter)	702	Organic(Certified) Irr.
91	Barley	1	Yield Protection	91	Winter	702	Organic(Certified) Irr.
91	Barley	1	Yield Protection	872	All Others (Spring)	702	Organic(Certified) Irr.
91	Barley	1	Yield Protection	874	Waxy Hulled (Spring)	702	Organic(Certified) Irr.
91	Barley	2	Revenue Protection	876	Hulless (Spring)	702	Organic(Certified) Irr.
91	Barley	2	Revenue Protection	972	All Others (Winter)	702	Organic(Certified) Irr.
91	Barley	2	Revenue Protection	872	All Others (Spring)	702	Organic(Certified) Irr.
91	Barley	2	Revenue Protection	92	Spring	702	Organic(Certified) Irr.
91	Barley	2	Revenue Protection	874	Waxy Hulled (Spring)	702	Organic(Certified) Irr.
91	Barley	2	Revenue Protection	873	Malting (Spring)	702	Organic(Certified) Irr.
91	Barley	2	Revenue Protection	875	Waxy Hulless (Spring)	702	Organic(Certified) Irr.
91	Barley	2	Revenue Protection	973	Malting (Winter)	702	Organic(Certified) Irr.
91	Barley	2	Revenue Protection	91	Winter	702	Organic(Certified) Irr.
91	Barley	2	Revenue Protection	997	No Type Specified	702	Organic(Certified) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	873	Malting (Spring)	702	Organic(Certified) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	702	Organic(Certified) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	872	All Others (Spring)	702	Organic(Certified) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	91	Winter	702	Organic(Certified) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	875	Waxy Hulless (Spring)	702	Organic(Certified) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	973	Malting (Winter)	702	Organic(Certified) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	876	Hulless (Spring)	702	Organic(Certified) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
			Exclusion				
91	Barley	3	Revenue Prot with Harvest Price Exclusion	972	All Others (Winter)	702	Organic(Certified) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	92	Spring	702	Organic(Certified) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	874	Waxy Hulled (Spring)	702	Organic(Certified) Irr.
91	Barley	1	Yield Protection	873	Malting (Spring)	712	Organic(Transitional) Irr.
91	Barley	1	Yield Protection	997	No Type Specified	712	Organic(Transitional) Irr.
91	Barley	1	Yield Protection	92	Spring	712	Organic(Transitional) Irr.
91	Barley	1	Yield Protection	973	Malting (Winter)	712	Organic(Transitional) Irr.
91	Barley	1	Yield Protection	876	Hulless (Spring)	712	Organic(Transitional) Irr.
91	Barley	1	Yield Protection	875	Waxy Hulless (Spring)	712	Organic(Transitional) Irr.
91	Barley	1	Yield Protection	872	All Others (Spring)	712	Organic(Transitional) Irr.
91	Barley	1	Yield Protection	874	Waxy Hulled (Spring)	712	Organic(Transitional) Irr.
91	Barley	1	Yield Protection	91	Winter	712	Organic(Transitional) Irr.
91	Barley	1	Yield Protection	972	All Others (Winter)	712	Organic(Transitional) Irr.
91	Barley	2	Revenue Protection	874	Waxy Hulled (Spring)	712	Organic(Transitional) Irr.
91	Barley	2	Revenue Protection	972	All Others (Winter)	712	Organic(Transitional) Irr.
91	Barley	2	Revenue Protection	872	All Others (Spring)	712	Organic(Transitional) Irr.
91	Barley	2	Revenue Protection	875	Waxy Hulless (Spring)	712	Organic(Transitional) Irr.
91	Barley	2	Revenue Protection	873	Malting (Spring)	712	Organic(Transitional) Irr.
91	Barley	2	Revenue Protection	876	Hulless (Spring)	712	Organic(Transitional) Irr.
91	Barley	2	Revenue Protection	92	Spring	712	Organic(Transitional) Irr.
91	Barley	2	Revenue Protection	997	No Type Specified	712	Organic(Transitional) Irr.
91	Barley	2	Revenue Protection	91	Winter	712	Organic(Transitional) Irr.
91	Barley	2	Revenue Protection	973	Malting (Winter)	712	Organic(Transitional) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	91	Winter	712	Organic(Transitional) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	873	Malting (Spring)	712	Organic(Transitional) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
91	Barley	3	Revenue Prot with Harvest Price Exclusion	875	Waxy Hullless (Spring)	712	Organic(Transitional) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	872	All Others (Spring)	712	Organic(Transitional) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	92	Spring	712	Organic(Transitional) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	997	No Type Specified	712	Organic(Transitional) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	973	Malting (Winter)	712	Organic(Transitional) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	972	All Others (Winter)	712	Organic(Transitional) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	874	Waxy Hulled (Spring)	712	Organic(Transitional) Irr.
91	Barley	3	Revenue Prot with Harvest Price Exclusion	876	Hullless (Spring)	712	Organic(Transitional) Irr.
92	Plums	90	APH	107	Early Season (Fresh)	2	Irrigated
92	Plums	90	APH	332	Oriental Plums & Pluots (Fresh)	2	Irrigated
92	Plums	90	APH	102	Processing	2	Irrigated
92	Plums	90	APH	108	Mid Season (Fresh)	2	Irrigated
92	Plums	90	APH	109	Late Season (Fresh)	2	Irrigated
92	Plums	90	APH	333	European Prunes & Plums (Fresh)	2	Irrigated
92	Plums	90	APH	333	European Prunes & Plums (Fresh)	702	Organic(Certified) Irr.
92	Plums	90	APH	102	Processing	702	Organic(Certified) Irr.
92	Plums	90	APH	107	Early Season (Fresh)	702	Organic(Certified) Irr.
92	Plums	90	APH	332	Oriental Plums & Pluots (Fresh)	702	Organic(Certified) Irr.
92	Plums	90	APH	108	Mid Season (Fresh)	702	Organic(Certified) Irr.
92	Plums	90	APH	109	Late Season (Fresh)	702	Organic(Certified) Irr.
92	Plums	90	APH	107	Early Season (Fresh)	712	Organic(Transitional) Irr.
92	Plums	90	APH	108	Mid Season (Fresh)	712	Organic(Transitional) Irr.
92	Plums	90	APH	102	Processing	712	Organic(Transitional) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
92	Plums	90	APH	333	European Prunes & Plums (Fresh)	712	Organic(Transitional) Irr.
92	Plums	90	APH	332	Oriental Plums & Pluots (Fresh)	712	Organic(Transitional) Irr.
92	Plums	90	APH	109	Late Season (Fresh)	712	Organic(Transitional) Irr.
94	Rye	90	APH	997	No Type Specified	2	Irrigated
94	Rye	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
94	Rye	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
102	Grass Seed	90	APH	221	Kentucky Bluegrass	2	Irrigated
102	Grass Seed	90	APH	222	Perennial Ryegrass	2	Irrigated
102	Grass Seed	90	APH	222	Perennial Ryegrass	702	Organic(Certified) Irr.
102	Grass Seed	90	APH	221	Kentucky Bluegrass	702	Organic(Certified) Irr.
102	Grass Seed	90	APH	222	Perennial Ryegrass	712	Organic(Transitional) Irr.
102	Grass Seed	90	APH	221	Kentucky Bluegrass	712	Organic(Transitional) Irr.
105	Fresh Market Beans	90	APH	997	No Type Specified	2	Irrigated
105	Fresh Market Beans	90	APH	997	No Type Specified	702	Organic (Certified) Irr.
105	Fresh Market Beans	90	APH	997	No Type Specified	704	Fall Planted Irrigated
105	Fresh Market Beans	90	APH	997	No Type Specified	705	Spring Planted Irrigated
105	Fresh Market Beans	90	APH	997	No Type Specified	712	Organic (Transitional) Irr.
105	Fresh Market Beans	90	APH	997	No Type Specified	981	Fall Planted Irrigated(OC)
105	Fresh Market Beans	90	APH	997	No Type Specified	982	Fall Planted Irrigated(OT)
105	Fresh Market Beans	90	APH	997	No Type Specified	983	Spring Planted Irrigated(OC)
105	Fresh Market Beans	90	APH	997	No Type Specified	984	Spring Planted Irrigated(OT)
107	Alfalfa Seed	90	APH	159	Avrb Ratings 5-9	102	Established Stand (Irr)
107	Alfalfa Seed	90	APH	114	Avrb Ratings 1-4	102	Established Stand (Irr)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
107	Alfalfa Seed	90	APH	114	Avrb Ratings 1-4	202	Fall Pltd Seed-To-Seed (Irr)
107	Alfalfa Seed	90	APH	159	Avrb Ratings 5-9	202	Fall Pltd Seed-To-Seed (Irr)
107	Alfalfa Seed	90	APH	159	Avrb Ratings 5-9	302	Spring Pltd Seed-To-Seed (Irr)
107	Alfalfa Seed	90	APH	114	Avrb Ratings 1-4	302	Spring Pltd Seed-To-Seed (Irr)
107	Alfalfa Seed	90	APH	159	Avrb Ratings 5-9	959	Established Stand (Irr)(OC)
107	Alfalfa Seed	90	APH	114	Avrb Ratings 1-4	959	Established Stand (Irr)(OC)
107	Alfalfa Seed	90	APH	159	Avrb Ratings 5-9	960	Established Stand (Irr)(OT)
107	Alfalfa Seed	90	APH	114	Avrb Ratings 1-4	960	Established Stand (Irr)(OT)
107	Alfalfa Seed	90	APH	159	Avrb Ratings 5-9	961	Fall Pltd Seed-To-Seed (Irr)(OC)
107	Alfalfa Seed	90	APH	114	Avrb Ratings 1-4	961	Fall Pltd Seed-To-Seed (Irr)(OC)
107	Alfalfa Seed	90	APH	159	Avrb Ratings 5-9	962	Fall Pltd Seed-To-Seed (Irr)(OT)
107	Alfalfa Seed	90	APH	114	Avrb Ratings 1-4	962	Fall Pltd Seed-To-Seed (Irr)(OT)
107	Alfalfa Seed	90	APH	114	Avrb Ratings 1-4	963	Spring Pltd Seed-To-Seed (Irr)(OC)
107	Alfalfa Seed	90	APH	159	Avrb Ratings 5-9	963	Spring Pltd Seed-To-Seed (Irr)(OC)
107	Alfalfa Seed	90	APH	114	Avrb Ratings 1-4	964	Spring Pltd Seed-To-Seed (Irr)(OT)
107	Alfalfa Seed	90	APH	159	Avrb Ratings 5-9	964	Spring Pltd Seed-To-Seed (Irr)(OT)
114	Buckwheat	90	APH	997	No Type Specified	2	Irrigated
114	Buckwheat	90	APH	997	No Type Specified	95	Fac (Irrigated)
114	Buckwheat	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
114	Buckwheat	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
114	Buckwheat	90	APH	997	No Type Specified	741	Fac (Irrigated)(OC)

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Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
114	Buckwheat	90	APH	997	No Type Specified	742	Fac (Irrigated)(OT)
132	Cucumbers	90	APH	476	Pickling	705	Spring Planted Irrigated
132	Cucumbers	90	APH	476	Pickling	706	Summer Planted Irrigated
132	Cucumbers	90	APH	476	Pickling	983	Spring Planted Irrigated(OC)
132	Cucumbers	90	APH	476	Pickling	984	Spring Planted Irrigated(OT)
132	Cucumbers	90	APH	476	Pickling	985	Summer Planted Irrigated(OC)
132	Cucumbers	90	APH	476	Pickling	986	Summer Planted Irrigated(OT)
147	Pumpkins	90	APH	102	Processing	2	Irrigated
147	Pumpkins	90	APH	102	Processing	702	Organic(Certified) Irr.
147	Pumpkins	90	APH	102	Processing	712	Organic(Transitional) Irr.
154	Strawberries	47	Actual Revenue History	997	No Type Specified	211	Winter Planted Irrigated
154	Strawberries	47	Actual Revenue History	997	No Type Specified	706	Summer Planted Irrigated
154	Strawberries	47	Actual Revenue History	997	No Type Specified	977	Winter Planted Irrigated(OC)
154	Strawberries	47	Actual Revenue History	997	No Type Specified	978	Winter Planted Irrigated(OT)
154	Strawberries	47	Actual Revenue History	997	No Type Specified	985	Summer Planted Irrigated(OC)
154	Strawberries	47	Actual Revenue History	997	No Type Specified	986	Summer Planted Irrigated(OT)
156	Sweet Potatoes	90	APH	176	Orleans (Processing)	2	Irrigated
156	Sweet Potatoes	90	APH	229	07-146 Variety (Dedicated Processing)	2	Irrigated
156	Sweet Potatoes	90	APH	183	07-146 Variety (Processing)	2	Irrigated
156	Sweet Potatoes	90	APH	175	Orleans (Fresh)	2	Irrigated
156	Sweet Potatoes	90	APH	181	Orleans (Dedicated Processing)	2	Irrigated
156	Sweet Potatoes	90	APH	182	07-146 Variety (Fresh)	2	Irrigated
156	Sweet Potatoes	90	APH	168	Evangeline (Dedicated Processing)	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
156	Sweet Potatoes	90	APH	164	Evangeline (Fresh)	2	Irrigated
156	Sweet Potatoes	90	APH	167	Beauregard (Dedicated Processing)	2	Irrigated
156	Sweet Potatoes	90	APH	165	Evangeline (Processing)	2	Irrigated
156	Sweet Potatoes	90	APH	162	Beauregard (Fresh)	2	Irrigated
156	Sweet Potatoes	90	APH	163	Beauregard (Processing)	2	Irrigated
156	Sweet Potatoes	90	APH	181	Orleans (Dedicated Processing)	702	Organic(Certified)Irr.
156	Sweet Potatoes	90	APH	164	Evangeline (Fresh)	702	Organic(Certified)Irr.
156	Sweet Potatoes	90	APH	162	Beauregard (Fresh)	702	Organic(Certified)Irr.
156	Sweet Potatoes	90	APH	175	Orleans (Fresh)	702	Organic(Certified)Irr.
156	Sweet Potatoes	90	APH	182	07-146 Variety (Fresh)	702	Organic(Certified)Irr.
156	Sweet Potatoes	90	APH	168	Evangeline (Dedicated Processing)	702	Organic(Certified)Irr.
156	Sweet Potatoes	90	APH	183	07-146 Variety (Processing)	702	Organic(Certified)Irr.
156	Sweet Potatoes	90	APH	176	Orleans (Processing)	702	Organic(Certified)Irr.
156	Sweet Potatoes	90	APH	229	07-146 Variety (Dedicated Processing)	702	Organic(Certified)Irr.
156	Sweet Potatoes	90	APH	167	Beauregard (Dedicated Processing)	702	Organic(Certified)Irr.
156	Sweet Potatoes	90	APH	165	Evangeline (Processing)	702	Organic(Certified)Irr.
156	Sweet Potatoes	90	APH	163	Beauregard (Processing)	702	Organic(Certified)Irr.
156	Sweet Potatoes	90	APH	176	Orleans (Processing)	712	Organic(Transitional)Irr.
156	Sweet Potatoes	90	APH	165	Evangeline (Processing)	712	Organic(Transitional)Irr.
156	Sweet Potatoes	90	APH	167	Beauregard (Dedicated Processing)	712	Organic(Transitional)Irr.
156	Sweet Potatoes	90	APH	183	07-146 Variety (Processing)	712	Organic(Transitional)Irr.
156	Sweet Potatoes	90	APH	175	Orleans (Fresh)	712	Organic(Transitional)Irr.
156	Sweet Potatoes	90	APH	162	Beauregard (Fresh)	712	Organic(Transitional)Irr.
156	Sweet Potatoes	90	APH	182	07-146 Variety (Fresh)	712	Organic(Transitional)Irr.
156	Sweet Potatoes	90	APH	163	Beauregard (Processing)	712	Organic(Transitional)Irr.
156	Sweet Potatoes	90	APH	168	Evangeline (Dedicated	712	Organic(Transitional)Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
					Processing)		
156	Sweet Potatoes	90	APH	164	Evangeline (Fresh)	712	Organic(Transitional)Irr.
156	Sweet Potatoes	90	APH	181	Orleans (Dedicated Processing)	712	Organic(Transitional)Irr.
156	Sweet Potatoes	90	APH	229	07-146 Variety (Dedicated Processing)	712	Organic(Transitional)Irr.
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	401	Fairchild	2	Irrigated
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	402	Fallglow	2	Irrigated
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	400	Dancy	2	Irrigated
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	407	All Other Tangerines	2	Irrigated
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	403	Robinson	2	Irrigated
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	404	Sunburst	2	Irrigated
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	401	Fairchild	702	Organic(Certified) Irr.
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	402	Fallglow	702	Organic(Certified) Irr.
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	403	Robinson	702	Organic(Certified) Irr.
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	400	Dancy	702	Organic(Certified) Irr.
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	404	Sunburst	702	Organic(Certified) Irr.
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	407	All Other Tangerines	702	Organic(Certified) Irr.
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	402	Fallglow	712	Organic(Transitional) Irr.
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	400	Dancy	712	Organic(Transitional) Irr.
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	403	Robinson	712	Organic(Transitional) Irr.
193	Tangerine Trees	40	Tree Based Dollar Amount Of	407	All Other Tangerines	712	Organic(Transitional) Irr.

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Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
			Insurance				
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	404	Sunburst	712	Organic(Transitional) Irr.
193	Tangerine Trees	40	Tree Based Dollar Amount Of Insurance	401	Fairchild	712	Organic(Transitional) Irr.
201	Grapefruit	90	APH	997	No Type Specified	2	Irrigated
201	Grapefruit	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
201	Grapefruit	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
202	Lemons	90	APH	997	No Type Specified	2	Irrigated
202	Lemons	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
202	Lemons	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
203	Tangelos	90	APH	149	Orlando	2	Irrigated
203	Tangelos	90	APH	762	Minneola/Honeybell	2	Irrigated
203	Tangelos	90	APH	149	Orlando	702	Organic(Certified) Irr.
203	Tangelos	90	APH	762	Minneola/Honeybell	702	Organic(Certified) Irr.
203	Tangelos	90	APH	762	Minneola/Honeybell	712	Organic(Transitional) Irr.
203	Tangelos	90	APH	149	Orlando	712	Organic(Transitional) Irr.
207	Orange Trees	40	Tree Based Dollar Amount Of Insurance	20	Late Oranges	2	Irrigated
207	Orange Trees	40	Tree Based Dollar Amount Of Insurance	10	Early & Midseason Oranges	2	Irrigated
207	Orange Trees	40	Tree Based Dollar Amount Of Insurance	20	Late Oranges	702	Organic(Certified) Irr.
207	Orange Trees	40	Tree Based Dollar Amount Of Insurance	10	Early & Midseason Oranges	702	Organic(Certified) Irr.
207	Orange Trees	40	Tree Based Dollar Amount Of Insurance	20	Late Oranges	712	Organic(Transitional) Irr.
207	Orange Trees	40	Tree Based Dollar Amount Of Insurance	10	Early & Midseason Oranges	712	Organic(Transitional) Irr.
208	Grapefruit Trees	40	Tree Based Dollar Amount Of Insurance	40	Rio Red & Star Ruby Grapefruit	2	Irrigated
208	Grapefruit Trees	40	Tree Based Dollar Amount Of Insurance	35	All Other Grapefruit	2	Irrigated
208	Grapefruit Trees	40	Tree Based Dollar Amount Of	30	Ruby Red Grapefruit	2	Irrigated

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Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
Insurance							
208	Grapefruit Trees	40	Tree Based Dollar Amount Of Insurance	40	Rio Red & Star Ruby Grapefruit	702	Organic(Certified) Irr.
208	Grapefruit Trees	40	Tree Based Dollar Amount Of Insurance	30	Ruby Red Grapefruit	702	Organic(Certified) Irr.
208	Grapefruit Trees	40	Tree Based Dollar Amount Of Insurance	35	All Other Grapefruit	702	Organic(Certified) Irr.
208	Grapefruit Trees	40	Tree Based Dollar Amount Of Insurance	40	Rio Red & Star Ruby Grapefruit	712	Organic(Transitional) Irr.
208	Grapefruit Trees	40	Tree Based Dollar Amount Of Insurance	30	Ruby Red Grapefruit	712	Organic(Transitional) Irr.
208	Grapefruit Trees	40	Tree Based Dollar Amount Of Insurance	35	All Other Grapefruit	712	Organic(Transitional) Irr.
218	Fresh Apricots	90	APH	997	No Type Specified	2	Irrigated
218	Fresh Apricots	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
218	Fresh Apricots	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
219	Processing Apricots	90	APH	997	No Type Specified	2	Irrigated
219	Processing Apricots	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
219	Processing Apricots	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
220	Fresh Nectarines	90	APH	997	No Type Specified	2	Irrigated
220	Fresh Nectarines	90	APH	107	Early Season	2	Irrigated
220	Fresh Nectarines	90	APH	109	Late Season	2	Irrigated
220	Fresh Nectarines	90	APH	108	Mid Season	2	Irrigated
220	Fresh Nectarines	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
220	Fresh Nectarines	90	APH	109	Late Season	702	Organic(Certified) Irr.
220	Fresh Nectarines	90	APH	107	Early Season	702	Organic(Certified) Irr.
220	Fresh Nectarines	90	APH	108	Mid Season	702	Organic(Certified) Irr.
220	Fresh Nectarines	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
220	Fresh Nectarines	90	APH	109	Late Season	712	Organic(Transitional) Irr.
220	Fresh Nectarines	90	APH	108	Mid Season	712	Organic(Transitional) Irr.

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
220	Fresh Nectarines	90	APH	107	Early Season	712	Organic(Transitional) Irr.
221	Processing Cling Peaches	90	APH	244	Extra Late	2	Irrigated
221	Processing Cling Peaches	90	APH	224	Earlies	2	Irrigated
221	Processing Cling Peaches	90	APH	214	Extra Early	2	Irrigated
221	Processing Cling Peaches	90	APH	234	Lates	2	Irrigated
221	Processing Cling Peaches	90	APH	214	Extra Early	702	Organic(Certified) Irr.
221	Processing Cling Peaches	90	APH	234	Lates	702	Organic(Certified) Irr.
221	Processing Cling Peaches	90	APH	224	Earlies	702	Organic(Certified) Irr.
221	Processing Cling Peaches	90	APH	244	Extra Late	702	Organic(Certified) Irr.
221	Processing Cling Peaches	90	APH	244	Extra Late	712	Organic(Transitional) Irr.
221	Processing Cling Peaches	90	APH	214	Extra Early	712	Organic(Transitional) Irr.
221	Processing Cling Peaches	90	APH	234	Lates	712	Organic(Transitional) Irr.
221	Processing Cling Peaches	90	APH	224	Earlies	712	Organic(Transitional) Irr.
222	Processing Freestone	90	APH	997	No Type Specified	2	Irrigated
222	Processing Freestone	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
222	Processing Freestone	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
223	Fresh Freestone Peaches	90	APH	997	No Type Specified	2	Irrigated
223	Fresh Freestone Peaches	90	APH	108	Mid Season	2	Irrigated
223	Fresh Freestone Peaches	90	APH	107	Early Season	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
223	Fresh Freestone Peaches	90	APH	109	Late Season	2	Irrigated
223	Fresh Freestone Peaches	90	APH	107	Early Season	702	Organic(Certified) Irr.
223	Fresh Freestone Peaches	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
223	Fresh Freestone Peaches	90	APH	109	Late Season	702	Organic(Certified) Irr.
223	Fresh Freestone Peaches	90	APH	108	Mid Season	702	Organic(Certified) Irr.
223	Fresh Freestone Peaches	90	APH	107	Early Season	712	Organic(Transitional) Irr.
223	Fresh Freestone Peaches	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
223	Fresh Freestone Peaches	90	APH	108	Mid Season	712	Organic(Transitional) Irr.
223	Fresh Freestone Peaches	90	APH	109	Late Season	712	Organic(Transitional) Irr.
224	Early & Midseason Oranges	90	APH	102	Juice	2	Irrigated
224	Early & Midseason Oranges	90	APH	101	Fresh	2	Irrigated
224	Early & Midseason Oranges	90	APH	101	Fresh	702	Organic(Certified) Irr.
224	Early & Midseason Oranges	90	APH	102	Juice	702	Organic(Certified) Irr.
224	Early & Midseason Oranges	90	APH	101	Fresh	712	Organic(Transitional) Irr.
224	Early & Midseason Oranges	90	APH	102	Juice	712	Organic(Transitional) Irr.
225	Late Oranges	90	APH	102	Juice	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
225	Late Oranges	90	APH	101	Fresh	2	Irrigated
225	Late Oranges	90	APH	101	Fresh	702	Organic(Certified) Irr.
225	Late Oranges	90	APH	102	Juice	702	Organic(Certified) Irr.
225	Late Oranges	90	APH	102	Juice	712	Organic(Transitional) Irr.
225	Late Oranges	90	APH	101	Fresh	712	Organic(Transitional) Irr.
226	All Other Grapefruit	90	APH	102	Juice	2	Irrigated
226	All Other Grapefruit	90	APH	101	Fresh	2	Irrigated
226	All Other Grapefruit	90	APH	101	Fresh	702	Organic(Certified) Irr.
226	All Other Grapefruit	90	APH	102	Juice	702	Organic(Certified) Irr.
226	All Other Grapefruit	90	APH	102	Juice	712	Organic(Transitional) Irr.
226	All Other Grapefruit	90	APH	101	Fresh	712	Organic(Transitional) Irr.
227	Oranges	47	Actual Revenue History	134	Navel	2	Irrigated
227	Oranges	90	APH	134	Navel	2	Irrigated
227	Oranges	90	APH	136	Valencia	2	Irrigated
227	Oranges	90	APH	135	Sweet	2	Irrigated
227	Oranges	47	Actual Revenue History	134	Navel	702	Organic(Certified) Irr.
227	Oranges	90	APH	134	Navel	702	Organic(Certified) Irr.
227	Oranges	90	APH	136	Valencia	702	Organic(Certified) Irr.
227	Oranges	90	APH	135	Sweet	702	Organic(Certified) Irr.
227	Oranges	47	Actual Revenue History	134	Navel	712	Organic(Transitional) Irr.
227	Oranges	90	APH	135	Sweet	712	Organic(Transitional) Irr.
227	Oranges	90	APH	134	Navel	712	Organic(Transitional) Irr.
227	Oranges	90	APH	136	Valencia	712	Organic(Transitional) Irr.
228	Ruby Red Grapefruit	90	APH	101	Fresh	2	Irrigated
228	Ruby Red Grapefruit	90	APH	102	Juice	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
228	Ruby Red Grapefruit	90	APH	102	Juice	702	Organic(Certified) Irr.
228	Ruby Red Grapefruit	90	APH	101	Fresh	702	Organic(Certified) Irr.
228	Ruby Red Grapefruit	90	APH	102	Juice	712	Organic(Transitional) Irr.
228	Ruby Red Grapefruit	90	APH	101	Fresh	712	Organic(Transitional) Irr.
229	Flue Cured Tobacco	90	APH	14	014 Flue Cured	2	Irrigated
229	Flue Cured Tobacco	90	APH	13	013 Flue Cured	2	Irrigated
229	Flue Cured Tobacco	90	APH	13	013 Flue Cured	702	Organic(Certified) Irr.
229	Flue Cured Tobacco	90	APH	14	014 Flue Cured	702	Organic(Certified) Irr.
229	Flue Cured Tobacco	90	APH	14	014 Flue Cured	712	Organic(Transitional) Irr.
229	Flue Cured Tobacco	90	APH	13	013 Flue Cured	712	Organic(Transitional) Irr.
231	Burley Tobacco	90	APH	31	031 Burley	2	Irrigated
231	Burley Tobacco	90	APH	31	031 Burley	702	Organic(Certified) Irr.
231	Burley Tobacco	90	APH	31	031 Burley	712	Organic(Transitional) Irr.
238	Rio Red & Star Ruby	90	APH	101	Fresh	2	Irrigated
238	Rio Red & Star Ruby	90	APH	102	Juice	2	Irrigated
238	Rio Red & Star Ruby	90	APH	102	Juice	702	Organic(Certified) Irr.
238	Rio Red & Star Ruby	90	APH	101	Fresh	702	Organic(Certified) Irr.
238	Rio Red & Star Ruby	90	APH	102	Juice	712	Organic(Transitional) Irr.
238	Rio Red & Star Ruby	90	APH	101	Fresh	712	Organic(Transitional) Irr.
309	Mandarins/Tangerines	90	APH	143	All Others	2	Irrigated

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
309	Mandarins/Tangerines	90	APH	142	W. Murcott	2	Irrigated
309	Mandarins/Tangerines	90	APH	141	Clementine	2	Irrigated
309	Mandarins/Tangerines	90	APH	143	All Others	702	Organic(Certified) Irr.
309	Mandarins/Tangerines	90	APH	141	Clementine	702	Organic(Certified) Irr.
309	Mandarins/Tangerines	90	APH	142	W. Murcott	702	Organic(Certified) Irr.
309	Mandarins/Tangerines	90	APH	141	Clementine	712	Organic(Transitional) Irr.
309	Mandarins/Tangerines	90	APH	143	All Others	712	Organic(Transitional) Irr.
309	Mandarins/Tangerines	90	APH	142	W. Murcott	712	Organic(Transitional) Irr.
396	Sesame	90	APH	341	White	2	Irrigated
396	Sesame	90	APH	303	Black	2	Irrigated
396	Sesame	90	APH	303	Black	702	Organic(Certified) Irr.
396	Sesame	90	APH	341	White	702	Organic(Certified) Irr.
396	Sesame	90	APH	303	Black	712	Organic(Transitional) Irr.
396	Sesame	90	APH	341	White	712	Organic(Transitional) Irr.
470	Pistachios	90	APH	997	No Type Specified	2	Irrigated
470	Pistachios	90	APH	997	No Type Specified	702	Organic(Certified) Irr.
470	Pistachios	90	APH	997	No Type Specified	712	Organic(Transitional) Irr.
501	Olives	90	APH	48	Oil	250	Standard Density (Irrigated)
501	Olives	90	APH	408	Table (Manzanillo)	250	Standard Density (Irrigated)
501	Olives	90	APH	409	Table (All Other)	250	Standard Density (Irrigated)
501	Olives	90	APH	408	Table (Manzanillo)	251	Standard Density (Irrigated) (OC)
501	Olives	90	APH	48	Oil	251	Standard Density (Irrigated) (OC)

Crop Code	Crop	Plan code	Plan	Type Code	Type	Practice Code	Practice
501	Olives	90	APH	409	Table (All Other)	251	Standard Density (Irrigated) (OC)
501	Olives	90	APH	408	Table (Manzanillo)	252	Standard Density (Irrigated) (OT)
501	Olives	90	APH	409	Table (All Other)	252	Standard Density (Irrigated) (OT)
501	Olives	90	APH	48	Oil	252	Standard Density (Irrigated) (OT)
501	Olives	90	APH	48	Oil	253	High Density (Irrigated)
501	Olives	90	APH	409	Table (All Other)	253	High Density (Irrigated)
501	Olives	90	APH	408	Table (Manzanillo)	253	High Density (Irrigated)
501	Olives	90	APH	48	Oil	254	High Density (Irrigated) (OC)
501	Olives	90	APH	408	Table (Manzanillo)	254	High Density (Irrigated) (OC)
501	Olives	90	APH	409	Table (All Other)	254	High Density (Irrigated) (OC)
501	Olives	90	APH	48	Oil	255	High Density (Irrigated) (OT)
501	Olives	90	APH	409	Table (All Other)	255	High Density (Irrigated) (OT)
501	Olives	90	APH	408	Table (Manzanillo)	255	High Density (Irrigated) (OT)
501	Olives	90	APH	48	Oil	256	Super High Density (Irrigated)
501	Olives	90	APH	48	Oil	257	Super High Density (Irrigated) (OC)
501	Olives	90	APH	48	Oil	258	Super High Density (Irrigated) (OT)



## **Appendix B**

### **2012 Insured Irrigated Acres by Crop and State**

**Table B1. 2012 Insured Irrigated Acres by Crop and State**

State Code	State Name	Crop Code	Crop Name	Irrigated Acres
1	Alabama	11	Wheat	2,837.3
4	Arizona	11	Wheat	71,033.2
5	Arkansas	11	Wheat	10,385.7
6	California	11	Wheat	246,267.4
8	Colorado	11	Wheat	147,669.7
10	Delaware	11	Wheat	10,871.6
12	Florida	11	Wheat	1,237.5
13	Georgia	11	Wheat	51,685.7
16	Idaho	11	Wheat	463,613.4
17	Illinois	11	Wheat	5,695.7
18	Indiana	11	Wheat	5,328.4
20	Kansas	11	Wheat	524,096.5
21	Kentucky	11	Wheat	2,213.3
22	Louisiana	11	Wheat	4,819.5
24	Maryland	11	Wheat	5,760.9
26	Michigan	11	Wheat	8,914.8
27	Minnesota	11	Wheat	7,774.4
28	Mississippi	11	Wheat	4,631.2
29	Missouri	11	Wheat	46,583.4
30	Montana	11	Wheat	167,755.3
31	Nebraska	11	Wheat	104,494.0
32	Nevada	11	Wheat	12,559.5
35	New Mexico	11	Wheat	48,773.8
36	New York	11	Wheat	80.0
37	North Carolina	11	Wheat	2,399.3
38	North Dakota	11	Wheat	17,788.5
39	Ohio	11	Wheat	1,058.1
40	Oklahoma	11	Wheat	133,074.4
41	Oregon	11	Wheat	93,599.9
42	Pennsylvania	11	Wheat	66.8
45	South Carolina	11	Wheat	10,256.4
46	South Dakota	11	Wheat	7,570.2
47	Tennessee	11	Wheat	2,042.5
48	Texas	11	Wheat	560,650.2
49	Utah	11	Wheat	16,564.3
51	Virginia	11	Wheat	1,070.3
53	Washington	11	Wheat	139,227.8
55	Wisconsin	11	Wheat	2,538.6
56	Wyoming	11	Wheat	14,950.2

State Code	State Name	Crop Code	Crop Name	Irrigated Acres
6	California	12	Blueberries	1,979.7
12	Florida	12	Blueberries	1,868.0
13	Georgia	12	Blueberries	10,037.3
22	Louisiana	12	Blueberries	96.8
23	Maine	12	Blueberries	4,390.5
26	Michigan	12	Blueberries	9,075.9
28	Mississippi	12	Blueberries	232.1
34	New Jersey	12	Blueberries	5,645.4
37	North Carolina	12	Blueberries	5,383.6
41	Oregon	12	Blueberries	2,072.9
45	South Carolina	12	Blueberries	21.2
51	Virginia	12	Blueberries	6.6
53	Washington	12	Blueberries	2,930.3
6	California	13	Onions	3,403.5
8	Colorado	13	Onions	4,368.8
13	Georgia	13	Onions	12,098.7
16	Idaho	13	Onions	3,261.7
26	Michigan	13	Onions	959.7
32	Nevada	13	Onions	2,625.7
35	New Mexico	13	Onions	1,098.3
36	New York	13	Onions	1,434.3
37	North Carolina	13	Onions	104.4
38	North Dakota	13	Onions	533.0
41	Oregon	13	Onions	12,763.2
46	South Dakota	13	Onions	283.3
48	Texas	13	Onions	10,143.4
49	Utah	13	Onions	695.6
53	Washington	13	Onions	16,305.3
55	Wisconsin	13	Onions	249.5
16	Idaho	15	Canola	3,693.9
20	Kansas	15	Canola	1,068.0
29	Missouri	15	Canola	379.2
30	Montana	15	Canola	6,697.2
40	Oklahoma	15	Canola	467.5
41	Oregon	15	Canola	2,152.3
48	Texas	15	Canola	120.0
53	Washington	15	Canola	1,867.7
1	Alabama	16	Oats	30.0
6	California	16	Oats	1,902.0
8	Colorado	16	Oats	1,248.3

State Code	State Name	Crop Code	Crop Name	Irrigated Acres
12	Florida	16	Oats	60.7
13	Georgia	16	Oats	1,431.2
16	Idaho	16	Oats	729.1
17	Illinois	16	Oats	45.8
19	Iowa	16	Oats	84.0
20	Kansas	16	Oats	1,177.4
23	Maine	16	Oats	20.0
26	Michigan	16	Oats	46.1
27	Minnesota	16	Oats	315.4
30	Montana	16	Oats	1,392.4
31	Nebraska	16	Oats	2,095.5
38	North Dakota	16	Oats	604.1
40	Oklahoma	16	Oats	6.0
41	Oregon	16	Oats	1,334.6
45	South Carolina	16	Oats	270.1
46	South Dakota	16	Oats	1,015.8
48	Texas	16	Oats	1,222.3
49	Utah	16	Oats	214.0
51	Virginia	16	Oats	14.5
55	Wisconsin	16	Oats	333.3
56	Wyoming	16	Oats	1,550.6
8	Colorado	17	Millet	2,268.7
20	Kansas	17	Millet	212.9
31	Nebraska	17	Millet	2,238.3
38	North Dakota	17	Millet	24.4
46	South Dakota	17	Millet	130.0
48	Texas	17	Millet	110.0
5	Arkansas	18	Rice	891,926.9
6	California	18	Rice	458,764.3
12	Florida	18	Rice	12,109.4
17	Illinois	18	Rice	823.6
22	Louisiana	18	Rice	332,259.6
28	Mississippi	18	Rice	122,434.8
29	Missouri	18	Rice	125,151.9
47	Tennessee	18	Rice	1,860.9
48	Texas	18	Rice	154,116.8
6	California	19	Avocados	72,089.9
1	Alabama	20	Pecans	731.1
4	Arizona	20	Pecans	10,848.7
6	California	20	Pecans	306.9

State Code	State Name	Crop Code	Crop Name	Irrigated Acres
12	Florida	20	Pecans	274.9
13	Georgia	20	Pecans	64,986.2
35	New Mexico	20	Pecans	22,641.5
48	Texas	20	Pecans	24,134.1
1	Alabama	21	Cotton	21,546.1
4	Arizona	21	Cotton	183,352.7
5	Arkansas	21	Cotton	418,817.4
6	California	21	Cotton	117,998.5
12	Florida	21	Cotton	12,437.2
13	Georgia	21	Cotton	438,947.9
20	Kansas	21	Cotton	19,930.9
22	Louisiana	21	Cotton	73,896.0
28	Mississippi	21	Cotton	192,333.1
29	Missouri	21	Cotton	237,753.6
35	New Mexico	21	Cotton	40,301.4
37	North Carolina	21	Cotton	4,588.8
40	Oklahoma	21	Cotton	111,904.3
45	South Carolina	21	Cotton	28,292.5
47	Tennessee	21	Cotton	24,213.2
48	Texas	21	Cotton	2,129,116.5
51	Virginia	21	Cotton	534.0
4	Arizona	22	Cotton Ex Long Staple	3,216.1
6	California	22	Cotton Ex Long Staple	210,549.3
35	New Mexico	22	Cotton Ex Long Staple	2,756.9
48	Texas	22	Cotton Ex Long Staple	19,599.6
15	Hawaii	23	Macadamia Nuts	1,667.3
15	Hawaii	24	Macadamia Trees	3,539.3
6	California	28	Almonds	666,150.1
6	California	29	Walnuts	135,836.0
16	Idaho	31	Flax	171.6
6	California	32	Forage Seeding	15,024.0
19	Iowa	32	Forage Seeding	119.0
27	Minnesota	32	Forage Seeding	1,984.4
30	Montana	32	Forage Seeding	3,500.0
31	Nebraska	32	Forage Seeding	588.2
32	Nevada	32	Forage Seeding	4,244.7
38	North Dakota	32	Forage Seeding	369.9
46	South Dakota	32	Forage Seeding	2,488.4
55	Wisconsin	32	Forage Seeding	2,905.5
56	Wyoming	32	Forage Seeding	1,427.8

State Code	State Name	Crop Code	Crop Name	Irrigated Acres
4	Arizona	33	Forage Production	61,482.1
6	California	33	Forage Production	132,982.8
8	Colorado	33	Forage Production	8,575.6
19	Iowa	33	Forage Production	184.7
26	Michigan	33	Forage Production	1,212.2
27	Minnesota	33	Forage Production	3,696.2
30	Montana	33	Forage Production	136,239.3
31	Nebraska	33	Forage Production	998.2
32	Nevada	33	Forage Production	29,552.8
38	North Dakota	33	Forage Production	3,367.7
41	Oregon	33	Forage Production	7,501.0
46	South Dakota	33	Forage Production	15,254.4
49	Utah	33	Forage Production	27,822.3
55	Wisconsin	33	Forage Production	2,185.5
56	Wyoming	33	Forage Production	25,120.9
8	Colorado	34	Peaches	1,481.1
26	Michigan	34	Peaches	291.7
40	Oklahoma	34	Peaches	146.9
48	Texas	34	Peaches	448.5
6	California	36	Prunes	50,763.9
12	Florida	38	Sugarcane	378,747.8
48	Texas	38	Sugarcane	43,048.1
6	California	39	Sugar Beets	3,852.0
8	Colorado	39	Sugar Beets	29,268.8
16	Idaho	39	Sugar Beets	151,601.1
27	Minnesota	39	Sugar Beets	4,655.7
30	Montana	39	Sugar Beets	36,830.4
31	Nebraska	39	Sugar Beets	49,133.6
38	North Dakota	39	Sugar Beets	7,761.9
41	Oregon	39	Sugar Beets	6,678.1
46	South Dakota	39	Sugar Beets	269.3
53	Washington	39	Sugar Beets	1,967.8
56	Wyoming	39	Sugar Beets	26,403.9
1	Alabama	41	Corn	25,613.2
4	Arizona	41	Corn	48,829.1
5	Arkansas	41	Corn	479,271.0
6	California	41	Corn	238,862.2
8	Colorado	41	Corn	777,209.0
10	Delaware	41	Corn	51,855.9
12	Florida	41	Corn	19,762.6

State Code	State Name	Crop Code	Crop Name	Irrigated Acres
13	Georgia	41	Corn	203,582.4
16	Idaho	41	Corn	98,189.5
17	Illinois	41	Corn	185,157.3
18	Indiana	41	Corn	161,363.6
19	Iowa	41	Corn	103,972.8
20	Kansas	41	Corn	1,417,936.9
21	Kentucky	41	Corn	18,503.7
22	Louisiana	41	Corn	336,045.5
24	Maryland	41	Corn	37,694.1
26	Michigan	41	Corn	163,207.1
27	Minnesota	41	Corn	281,879.0
28	Mississippi	41	Corn	434,527.6
29	Missouri	41	Corn	357,720.9
30	Montana	41	Corn	37,577.4
31	Nebraska	41	Corn	5,208,004.9
34	New Jersey	41	Corn	6,824.5
35	New Mexico	41	Corn	84,585.0
36	New York	41	Corn	456.8
37	North Carolina	41	Corn	13,419.6
38	North Dakota	41	Corn	117,746.7
39	Ohio	41	Corn	8,818.3
40	Oklahoma	41	Corn	151,040.4
41	Oregon	41	Corn	29,221.3
42	Pennsylvania	41	Corn	1,187.2
45	South Carolina	41	Corn	45,204.5
46	South Dakota	41	Corn	231,061.1
47	Tennessee	41	Corn	48,871.3
48	Texas	41	Corn	804,091.4
49	Utah	41	Corn	12,765.5
51	Virginia	41	Corn	9,822.9
53	Washington	41	Corn	68,259.5
54	West Virginia	41	Corn	247.5
55	Wisconsin	41	Corn	99,069.0
56	Wyoming	41	Corn	58,679.8
10	Delaware	42	Sweet Corn	5,390.2
16	Idaho	42	Sweet Corn	9,063.5
24	Maryland	42	Sweet Corn	2,152.8
27	Minnesota	42	Sweet Corn	4,468.4
41	Oregon	42	Sweet Corn	2,905.8
53	Washington	42	Sweet Corn	41,728.0

State Code	State Name	Crop Code	Crop Name	Irrigated Acres
55	Wisconsin	42	Sweet Corn	24,704.6
8	Colorado	43	Popcorn	684.0
17	Illinois	43	Popcorn	9,216.3
18	Indiana	43	Popcorn	6,955.5
19	Iowa	43	Popcorn	1,284.6
26	Michigan	43	Popcorn	113.8
29	Missouri	43	Popcorn	2,763.9
31	Nebraska	43	Popcorn	69,661.7
39	Ohio	43	Popcorn	101.5
46	South Dakota	43	Popcorn	5,303.8
1	Alabama	44	Fresh Market Sweet Corn	559.8
8	Colorado	44	Fresh Market Sweet Corn	2,341.7
9	Connecticut	44	Fresh Market Sweet Corn	366.5
12	Florida	44	Fresh Market Sweet Corn	22,636.6
13	Georgia	44	Fresh Market Sweet Corn	12,846.7
23	Maine	44	Fresh Market Sweet Corn	102.0
25	Massachusetts	44	Fresh Market Sweet Corn	222.9
31	Nebraska	44	Fresh Market Sweet Corn	236.2
33	New Hampshire	44	Fresh Market Sweet Corn	144.2
34	New Jersey	44	Fresh Market Sweet Corn	1,074.0
36	New York	44	Fresh Market Sweet Corn	1,848.1
42	Pennsylvania	44	Fresh Market Sweet Corn	117.4
44	Rhode Island	44	Fresh Market Sweet Corn	93.9
54	West Virginia	44	Fresh Market Sweet Corn	10.0
4	Arizona	45	Chile Peppers	594.0
35	New Mexico	45	Chile Peppers	3,100.1
10	Delaware	46	Processing Beans	4,643.0
13	Georgia	46	Processing Beans	102.0
17	Illinois	46	Processing Beans	1,335.2
18	Indiana	46	Processing Beans	864.6
24	Maryland	46	Processing Beans	1,541.8
26	Michigan	46	Processing Beans	2,707.2
27	Minnesota	46	Processing Beans	946.7
34	New Jersey	46	Processing Beans	163.9
36	New York	46	Processing Beans	97.7
41	Oregon	46	Processing Beans	1,230.5
42	Pennsylvania	46	Processing Beans	82.2
48	Texas	46	Processing Beans	635.0
51	Virginia	46	Processing Beans	2,999.4
53	Washington	46	Processing Beans	1,298.4



State Code	State Name	Crop Code	Crop Name	Irrigated Acres
55	Wisconsin	46	Processing Beans	25,375.5
4	Arizona	47	Dry Beans	6,062.2
6	California	47	Dry Beans	22,320.3
8	Colorado	47	Dry Beans	29,725.9
16	Idaho	47	Dry Beans	29,415.4
20	Kansas	47	Dry Beans	4,132.4
26	Michigan	47	Dry Beans	4,955.0
27	Minnesota	47	Dry Beans	38,257.8
30	Montana	47	Dry Beans	5,290.6
31	Nebraska	47	Dry Beans	133,297.1
35	New Mexico	47	Dry Beans	8,215.2
38	North Dakota	47	Dry Beans	18,683.0
41	Oregon	47	Dry Beans	4,038.2
46	South Dakota	47	Dry Beans	4,506.5
48	Texas	47	Dry Beans	8,826.9
53	Washington	47	Dry Beans	20,868.8
55	Wisconsin	47	Dry Beans	3,257.7
56	Wyoming	47	Dry Beans	37,326.3
6	California	49	Safflower	34,007.9
16	Idaho	49	Safflower	67.7
30	Montana	49	Safflower	126.3
31	Nebraska	49	Safflower	40.0
49	Utah	49	Safflower	1,408.2
20	Kansas	50	Hybrid Sorghum Seed	1,005.1
35	New Mexico	50	Hybrid Sorghum Seed	632.0
48	Texas	50	Hybrid Sorghum Seed	56,547.7
4	Arizona	51	Grain Sorghum	2,797.4
5	Arkansas	51	Grain Sorghum	44,706.0
6	California	51	Grain Sorghum	1,033.2
8	Colorado	51	Grain Sorghum	15,099.9
10	Delaware	51	Grain Sorghum	10.2
13	Georgia	51	Grain Sorghum	1,542.9
17	Illinois	51	Grain Sorghum	190.7
20	Kansas	51	Grain Sorghum	109,601.0
21	Kentucky	51	Grain Sorghum	12.0
22	Louisiana	51	Grain Sorghum	5,894.8
24	Maryland	51	Grain Sorghum	74.8
28	Mississippi	51	Grain Sorghum	3,821.9
29	Missouri	51	Grain Sorghum	2,601.2
31	Nebraska	51	Grain Sorghum	5,148.7

State Code	State Name	Crop Code	Crop Name	Irrigated Acres
35	New Mexico	51	Grain Sorghum	6,316.0
37	North Carolina	51	Grain Sorghum	34.6
40	Oklahoma	51	Grain Sorghum	20,054.8
45	South Carolina	51	Grain Sorghum	169.1
46	South Dakota	51	Grain Sorghum	143.5
47	Tennessee	51	Grain Sorghum	583.3
48	Texas	51	Grain Sorghum	223,827.6
6	California	52	Table Grapes	79,615.6
45	South Carolina	52	Table Grapes	50.2
6	California	53	Grapes	386,335.9
8	Colorado	53	Grapes	254.4
13	Georgia	53	Grapes	172.0
16	Idaho	53	Grapes	746.0
28	Mississippi	53	Grapes	167.6
31	Nebraska	53	Grapes	10.5
37	North Carolina	53	Grapes	177.7
41	Oregon	53	Grapes	3,240.0
48	Texas	53	Grapes	867.1
53	Washington	53	Grapes	51,438.3
NULL	#N/A	53	Grapes	498.4
4	Arizona	54	Apples	723.1
6	California	54	Apples	5,240.0
8	Colorado	54	Apples	412.5
9	Connecticut	54	Apples	20.1
16	Idaho	54	Apples	1,764.4
23	Maine	54	Apples	121.1
25	Massachusetts	54	Apples	112.9
26	Michigan	54	Apples	4,535.5
27	Minnesota	54	Apples	281.3
34	New Jersey	54	Apples	221.1
35	New Mexico	54	Apples	16.2
36	New York	54	Apples	6,295.4
37	North Carolina	54	Apples	59.5
41	Oregon	54	Apples	2,886.3
42	Pennsylvania	54	Apples	2,258.5
44	Rhode Island	54	Apples	10.7
49	Utah	54	Apples	570.2
50	Vermont	54	Apples	109.4
51	Virginia	54	Apples	693.2
53	Washington	54	Apples	128,242.8

State Code	State Name	Crop Code	Crop Name	Irrigated Acres
55	Wisconsin	54	Apples	192.2
6	California	55	Cultivated Wild Rice	13,877.6
27	Minnesota	55	Cultivated Wild Rice	10,435.6
6	California	57	Cherries	24,725.2
16	Idaho	57	Cherries	462.9
26	Michigan	57	Cherries	344.9
30	Montana	57	Cherries	265.7
41	Oregon	57	Cherries	5,107.9
49	Utah	57	Cherries	127.5
53	Washington	57	Cherries	30,814.1
8	Colorado	59	Silage Sorghum	2,621.0
20	Kansas	59	Silage Sorghum	7,433.2
6	California	60	Figs	4,592.1
17	Illinois	62	Hybrid Corn Seed	54,569.2
18	Indiana	62	Hybrid Corn Seed	37,819.5
19	Iowa	62	Hybrid Corn Seed	13,426.0
26	Michigan	62	Hybrid Corn Seed	37,144.5
27	Minnesota	62	Hybrid Corn Seed	5,505.9
31	Nebraska	62	Hybrid Corn Seed	131,570.3
39	Ohio	62	Hybrid Corn Seed	233.3
46	South Dakota	62	Hybrid Corn Seed	3,270.3
55	Wisconsin	62	Hybrid Corn Seed	4,717.6
10	Delaware	64	Green Peas	4,036.1
16	Idaho	64	Green Peas	4,234.4
24	Maryland	64	Green Peas	1,196.6
26	Michigan	64	Green Peas	1,734.1
27	Minnesota	64	Green Peas	13,163.9
41	Oregon	64	Green Peas	4,456.2
53	Washington	64	Green Peas	18,062.4
55	Wisconsin	64	Green Peas	7,910.1
16	Idaho	67	Dry Peas	1,786.8
41	Oregon	67	Dry Peas	1,090.3
53	Washington	67	Dry Peas	6,072.1
16	Idaho	69	Mustard	481.4
30	Montana	69	Mustard	260.3
38	North Dakota	69	Mustard	98.2
12	Florida	72	Cabbage	2,731.8
13	Georgia	72	Cabbage	883.4
48	Texas	72	Cabbage	1,487.5
6	California	74	Mint	2,213.3

State Code	State Name	Crop Code	Crop Name	Irrigated Acres
16	Idaho	74	Mint	2,502.2
18	Indiana	74	Mint	2,490.1
41	Oregon	74	Mint	1,211.0
46	South Dakota	74	Mint	1,024.3
53	Washington	74	Mint	15,810.2
55	Wisconsin	74	Mint	395.5
1	Alabama	75	Peanuts	10,995.5
5	Arkansas	75	Peanuts	4,461.3
12	Florida	75	Peanuts	43,497.3
13	Georgia	75	Peanuts	297,213.0
22	Louisiana	75	Peanuts	646.7
28	Mississippi	75	Peanuts	8,826.8
29	Missouri	75	Peanuts	59.3
35	New Mexico	75	Peanuts	6,412.0
37	North Carolina	75	Peanuts	1,036.4
40	Oklahoma	75	Peanuts	12,456.0
45	South Carolina	75	Peanuts	14,959.0
48	Texas	75	Peanuts	125,625.8
51	Virginia	75	Peanuts	101.4
8	Colorado	78	Sunflowers	13,576.2
20	Kansas	78	Sunflowers	21,334.3
27	Minnesota	78	Sunflowers	648.9
31	Nebraska	78	Sunflowers	3,642.9
38	North Dakota	78	Sunflowers	2,591.0
40	Oklahoma	78	Sunflowers	1,912.0
46	South Dakota	78	Sunflowers	244.1
48	Texas	78	Sunflowers	19,504.6
56	Wyoming	78	Sunflowers	1,705.3
1	Alabama	81	Soybeans	11,236.6
5	Arkansas	81	Soybeans	1,853,995.3
8	Colorado	81	Soybeans	7,856.4
10	Delaware	81	Soybeans	26,219.7
12	Florida	81	Soybeans	2,155.6
13	Georgia	81	Soybeans	34,158.6
17	Illinois	81	Soybeans	111,685.9
18	Indiana	81	Soybeans	83,913.1
19	Iowa	81	Soybeans	58,362.7
20	Kansas	81	Soybeans	356,347.9
21	Kentucky	81	Soybeans	7,909.2
22	Louisiana	81	Soybeans	300,927.5

State Code	State Name	Crop Code	Crop Name	Irrigated Acres
24	Maryland	81	Soybeans	19,873.0
26	Michigan	81	Soybeans	57,770.6
27	Minnesota	81	Soybeans	82,609.3
28	Mississippi	81	Soybeans	869,815.5
29	Missouri	81	Soybeans	472,297.9
30	Montana	81	Soybeans	102.9
31	Nebraska	81	Soybeans	2,129,333.9
34	New Jersey	81	Soybeans	3,926.6
36	New York	81	Soybeans	70.4
37	North Carolina	81	Soybeans	4,292.0
38	North Dakota	81	Soybeans	44,615.0
39	Ohio	81	Soybeans	12,173.6
40	Oklahoma	81	Soybeans	22,015.7
42	Pennsylvania	81	Soybeans	283.0
45	South Carolina	81	Soybeans	8,669.9
46	South Dakota	81	Soybeans	99,769.1
47	Tennessee	81	Soybeans	32,624.2
48	Texas	81	Soybeans	21,960.8
51	Virginia	81	Soybeans	6,127.4
53	Washington	81	Soybeans	180.8
54	West Virginia	81	Soybeans	30.0
55	Wisconsin	81	Soybeans	28,630.9
12	Florida	83	Peppers	6,815.3
13	Georgia	83	Peppers	37.5
37	North Carolina	83	Peppers	118.3
45	South Carolina	83	Peppers	474.5
2	Alaska	84	Potatoes	10.5
4	Arizona	84	Potatoes	3,715.1
5	Arkansas	84	Potatoes	410.0
6	California	84	Potatoes	20,355.9
8	Colorado	84	Potatoes	64,463.7
10	Delaware	84	Potatoes	1,073.8
12	Florida	84	Potatoes	28,534.8
13	Georgia	84	Potatoes	1,063.9
16	Idaho	84	Potatoes	303,907.6
17	Illinois	84	Potatoes	2,156.7
18	Indiana	84	Potatoes	806.8
19	Iowa	84	Potatoes	696.5
20	Kansas	84	Potatoes	4,046.4
23	Maine	84	Potatoes	11,121.4

State Code	State Name	Crop Code	Crop Name	Irrigated Acres
24	Maryland	84	Potatoes	2,248.1
26	Michigan	84	Potatoes	30,124.8
27	Minnesota	84	Potatoes	34,355.0
29	Missouri	84	Potatoes	8,412.5
30	Montana	84	Potatoes	8,039.5
31	Nebraska	84	Potatoes	13,126.7
32	Nevada	84	Potatoes	6,211.3
34	New Jersey	84	Potatoes	424.0
35	New Mexico	84	Potatoes	6,242.8
36	New York	84	Potatoes	741.0
38	North Dakota	84	Potatoes	25,158.9
40	Oklahoma	84	Potatoes	368.4
41	Oregon	84	Potatoes	29,998.4
46	South Dakota	84	Potatoes	436.8
48	Texas	84	Potatoes	15,620.1
53	Washington	84	Potatoes	102,317.8
55	Wisconsin	84	Potatoes	45,797.9
56	Wyoming	84	Potatoes	40.0
1	Alabama	86	Fresh Market Tomatoes	9.2
5	Arkansas	86	Fresh Market Tomatoes	839.8
6	California	86	Fresh Market Tomatoes	14,414.4
12	Florida	86	Fresh Market Tomatoes	24,661.5
13	Georgia	86	Fresh Market Tomatoes	2,024.2
21	Kentucky	86	Fresh Market Tomatoes	8.0
24	Maryland	86	Fresh Market Tomatoes	31.9
37	North Carolina	86	Fresh Market Tomatoes	336.8
45	South Carolina	86	Fresh Market Tomatoes	884.1
47	Tennessee	86	Fresh Market Tomatoes	2,155.4
51	Virginia	86	Fresh Market Tomatoes	822.0
6	California	87	Tomatoes	241,728.5
10	Delaware	87	Tomatoes	140.0
24	Maryland	87	Tomatoes	134.0
34	New Jersey	87	Tomatoes	925.7
42	Pennsylvania	87	Tomatoes	954.2
4	Arizona	89	Pears	9.5
6	California	89	Pears	8,290.7
36	New York	89	Pears	13.4
41	Oregon	89	Pears	9,492.2
42	Pennsylvania	89	Pears	67.0
53	Washington	89	Pears	14,962.3

State Code	State Name	Crop Code	Crop Name	Irrigated Acres
4	Arizona	91	Barley	29,013.1
6	California	91	Barley	13,727.6
8	Colorado	91	Barley	86,073.4
10	Delaware	91	Barley	4,667.0
16	Idaho	91	Barley	223,313.0
20	Kansas	91	Barley	496.9
24	Maryland	91	Barley	1,447.1
27	Minnesota	91	Barley	1,137.9
30	Montana	91	Barley	211,306.7
31	Nebraska	91	Barley	378.7
38	North Dakota	91	Barley	8,665.8
40	Oklahoma	91	Barley	127.5
41	Oregon	91	Barley	10,047.6
42	Pennsylvania	91	Barley	7.0
45	South Carolina	91	Barley	86.4
46	South Dakota	91	Barley	44.4
48	Texas	91	Barley	1,430.5
49	Utah	91	Barley	2,982.1
51	Virginia	91	Barley	497.6
53	Washington	91	Barley	1,516.9
55	Wisconsin	91	Barley	30.0
56	Wyoming	91	Barley	42,397.6
6	California	92	Plums	16,675.0
16	Idaho	92	Plums	164.0
41	Oregon	92	Plums	267.0
53	Washington	92	Plums	176.1
20	Kansas	94	Rye	140.0
40	Oklahoma	94	Rye	120.5
48	Texas	94	Rye	180.5
37	North Carolina	105	Fresh Market Beans	401.1
51	Virginia	105	Fresh Market Beans	1,038.1
6	California	107	Alfalfa Seed	8,631.5
16	Idaho	107	Alfalfa Seed	1,266.8
30	Montana	107	Alfalfa Seed	1,504.4
32	Nevada	107	Alfalfa Seed	1,412.1
41	Oregon	107	Alfalfa Seed	233.0
49	Utah	107	Alfalfa Seed	109.4
53	Washington	107	Alfalfa Seed	4,679.0
56	Wyoming	107	Alfalfa Seed	5,982.9
53	Washington	114	Buckwheat	877.6

State Code	State Name	Crop Code	Crop Name	Irrigated Acres
17	Illinois	147	Pumpkins	3,711.7
6	California	154	Strawberries	421.1
22	Louisiana	156	Sweet Potatoes	2,135.0
4	Arizona	201	Grapefruit	303.9
6	California	201	Grapefruit	6,948.4
4	Arizona	202	Lemons	6,280.6
6	California	202	Lemons	36,463.0
4	Arizona	205	Mandarins	181.2
6	California	205	Mandarins	23,491.8
NULL	#N/A	205	Mandarins	14.7
4	Arizona	206	Minneola Tangelos	1,081.3
6	California	206	Minneola Tangelos	5,733.9
4	Arizona	215	Navel Oranges	685.0
6	California	215	Navel Oranges	118,614.1
NULL	#N/A	215	Navel Oranges	20.5
4	Arizona	216	Sweet Oranges	22.5
6	California	216	Sweet Oranges	383.0
4	Arizona	217	Valencia Oranges	198.4
6	California	217	Valencia Oranges	32,821.7
6	California	218	Fresh Apricots	2,388.1
16	Idaho	218	Fresh Apricots	5.0
53	Washington	218	Fresh Apricots	779.6
6	California	219	Processing Apricots	3,122.0
6	California	220	Fresh Nectarines	15,251.4
16	Idaho	220	Fresh Nectarines	84.2
53	Washington	220	Fresh Nectarines	1,045.8
6	California	221	Processing Cling Peaches	17,037.9
6	California	222	Processing Freestone	2,744.1
4	Arizona	223	Fresh Freestone Peaches	22.6
6	California	223	Fresh Freestone Peaches	17,587.6
16	Idaho	223	Fresh Freestone Peaches	657.5
41	Oregon	223	Fresh Freestone Peaches	55.6
49	Utah	223	Fresh Freestone Peaches	233.9
53	Washington	223	Fresh Freestone Peaches	1,262.3
48	Texas	224	Early & Midseason Oranges	3,251.9
48	Texas	225	Late Oranges	724.0
48	Texas	226	All Other Grapefruit	0.8
48	Texas	228	Ruby Red Grapefruit	848.8
12	Florida	229	Flue Cured Tobacco	1,102.4
13	Georgia	229	Flue Cured Tobacco	5,881.6



State Code	State Name	Crop Code	Crop Name	Irrigated Acres
45	South Carolina	229	Flue Cured Tobacco	273.0
4	Arizona	237	Orlando Tangelos	19.8
6	California	237	Orlando Tangelos	3.3
48	Texas	238	Rio Red & Star Ruby	9,855.7
40	Oklahoma	396	Sesame	240.8
48	Texas	396	Sesame	765.2
4	Arizona	470	Pistachios	1,732.0
6	California	470	Pistachios	83,624.5
35	New Mexico	470	Pistachios	116.5
6	California	501	Olives	22,518.9

## **Appendix C**

### **Stakeholder Input**

- Exhibit 1. Press Release**
- Exhibit 2. Newspaper Advertisement**
- Exhibit 3. Listening Session Agenda**
- Exhibit 4. Stakeholder Comments**

## **Exhibit 1. Press Release**

## PRESS RELEASE:

### **Growers and Other Stakeholders Invited to Listening Session on Federal Insurance for Crops Produced under Irrigation**

Farmers know better than most people that fresh water is a precious commodity. In some areas, major crops are generally irrigated, while in other areas irrigation is used primarily to supplement natural rainfall. Each state has unique systems for determining who gets water and how much they get. Throughout the United States there are areas where the amount of irrigation water available to producers can vary from year to year, and can be significantly impacted by drought. In some areas, this means less water is available for agricultural use, particularly in recent years.

Because some farmers are required to use less water while others are offered alternative approaches to their water allocations, production of irrigated crops is changing. Many producers already face reductions from their historical water use; others will in the future. These reductions come from a variety of reasons including reduced well capacity, compliance with interstate river compacts, and water right administration policies. The reduction in the supply of irrigation water creates challenges for the farmers who use the water, the organizations that manage water use, and the public/private sector programs that insure farmers' yields or revenues.

As a result, the United States Department of Agriculture (USDA), Risk Management Agency (RMA) is evaluating how Federal Crop Insurance currently addresses producers intending to apply reduced irrigation. Furthermore, RMA is evaluating a limited irrigation guarantee for producers who apply less water than they may have historically applied to their irrigated acreage. As a result of this USDA initiative, RMA issued a contract to study initially the impacts of "limited irrigation" on crop insurance for all crops in all states.

As part of the contract study, six listening sessions are being held to gather input from interested stakeholders. One will be at the [*Insert Location and Address*]. The session will start at [*Insert Time and Date*]. Grower, insurance industry representatives, and other interested stakeholders are encouraged to attend and share their concerns and feedback about limited irrigation and ideas to address the crop insurance consequences of the changing irrigation water situation in future years.

For more information contact:

Randy Landgren

Project Manager

Watts and Associates, Inc. under contract to USDA RMA

[rlandgren@wattsandassociates.com](mailto:rlandgren@wattsandassociates.com)

406-252-7776

## **Exhibit 2. Sample Newspaper Advertisement**

**Woodland Democrat, California**

Watts and Associates (W&A) will be conducting a listening session for the **USDA Risk Management Agency on the impact of reduced irrigation on risk management through FCIC crop insurance**. W&A seeks input from stakeholders (farmers, insurance agents and companies, extension agents and faculty, irrigation suppliers, water board representatives, etc.). While this is an open forum, W&A is particularly interested in obtaining the following information: input on strategies to reduce the amount of irrigation water required, effects of the reduced irrigation on production, and the effects of reduced irrigation on crop insurance.

The listening session will be at the  
**Heidrick Ag History Center**  
1962 Hays Lane, Woodland, CA

The session will start at 9 A.M., March 6, 2014

*All are welcome*

## **Exhibit 3. Listening Session Agenda**

## Crop Insurance and Reduced Irrigation Listening Session Agenda

- Introductions
  - Watts and Associates, Inc.
  - Attendees
- Purpose
  - Gather stakeholder input
  - Learn about how irrigation has been changing
  - W&A is to make recommendation to USDA insuring the irrigated practice
- Background
  - FCIC Insurance
  - Insured irrigated crops
  - The “Irrigated Practice”
  - “Limited Irrigation”
  - Challenges of reduced irrigation
- Input
  - Strategies to reduce the amount of irrigation water required,
  - Effects of the reduced irrigation on production, and
  - The effects of reduced irrigation on crop insurance
- Questions



## Exhibit 4. Stakeholder Comments (sorted by theme<sup>1</sup>)

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<sup>1</sup> Comments were made by producers unless marked with an (a) to identify a comment made by a producer association representative, an (i) to identify a comment made by an insurance industry stakeholder, an (e) to identify an educator. The Contractor believes many insurance industry representatives who made comments are also producers.

**Comments addressing whether producers have knowledge of the existing crop insurance program language pertaining to irrigated vs non-irrigated practices:**

*We separate dryland from irrigated in regard to the non-irrigated corners of our fields.*

*We are not covered on our full APH and the worst thing we can do is overplant, because that costs us money.*

*The APH will take care of your coverage if you don't take care of it yourself.*

*A lot of the producers did not know they have choices when irrigation problems arise under the current crop insurance system. (a)*

*The language specifically says that you have to employ the practice that established your guarantee. (i)*

**Comments addressing irrigation water related risk management needs:**

*Irrigation issues are varied and depend on not just irrigation but also heat units received and soil type.*

*State has authority to stop producers from irrigating (i)*

*State authorities placed flow meters on well heads and have a key to turn the well off.*

*State laws and enforcement need to be addressed in the insurance language. (i)*

*May get a flood on the east side of the county and not get a drop on the west side of the county. (e)*

*Water not the only factor that impacts yield. (e)*

*Yields on a lot of farms are based on the structure of the farm, like land leveling. (e)*

*The day is coming when regulators will step in and adjust the availability of water for your irrigation practices so start now getting your irrigation practices in line to achieve the maximum non-irrigated yields or some hybrid of the two. (i)*

*I see a real challenge with perennial crops because if you have a yield this year and a dry year and another dry year, that will really reduce yields. (i)*

*That is the challenge of the perennials because what you do this year doesn't only affect this years crop, but the next years crop and potential beyond. (i)*

*Here, we don't have the problem of supplemental rain. If it doesn't rain, you turn the irrigators on. (i)*

**Comments addressing willingness to participate in a crop insurance program**

*Resource definitions limiting participation.*

*Until the problems surrounding the "general to the area" phrase in the policy are address, a lot of producers are not going to feel they have a true safety net in insurance.*

*Insurance doesn't fit for irrigated crops in this area.*

*The management decision needs to be kept as close to the producer as possible. (a)*

*We need to make sure you've thought through all the unintended consequences are considered when you make your recommended changes.*

*The system seems to be working here.*

**Comments addressing irrigation related management practices and techniques:**

*There are producers who report their land as dryland and irrigate. (i)*

*Capacity of an individual pivot must also be taken into account.*

*Varieties and other crops which need less water are being planted in the rotations. (p)*

*There are numerous government programs designed to help producers use less water to grow crops, such as the Phaucet Program. (e)*

*Heat reduces our yields in this area.*

*We need to get the government to agree to re-investigate the advisability of planting into cover crops in this region. There is a tremendous amount of water retained in the soil when you use a cover crop.*

*Need to allow for practices recommended by local experts to be used and still covered by the insurance. (e)*

*Make sure you document any changes you make to your irrigation practices so your yields are verified when the regulators come.*

*If we can increase our organic matter from 1.5% to 3 or 4%, that would be a great help to our production activities.*

*Here the water usage is recorded. I cannot just turn on the water whenever I want.*

*What about perennial crops? Growers change their methodology of how they irrigate, going to more efficient systems.*

*Where is a cotton/almond grower going to put his water? To his trees.*

*We've been managing this irrigation issue for years and years. Irrigation is a self-managing problem. (a)*

*Producers change their crop rotations or the amount of acres they irrigate during times of limited water availability.*

*Determining whether a farmer irrigated adequately or not falls under the Good Farming Practice clause. (i)*

*Canal company sends out letters that need to discuss the natural cause of the reduction in irrigation water. (i)*

### **Comments addressing potential underwriting requirements:**

*Producers are responsible for proving the cause of loss in any case (i)*

*The general crop provision language is problematic in and of itself. (i)*

*State laws and enforcement need to be addressed in the insurance language. (i)*

*How are you going to address crops planed in the previous year and harvested this year?*

*It gets back to the rating on the history of that particular piece of dirt. (i)*

*The phrase "General to the area" can be problematic, it allows for too much subjectivity on the part of the loss adjustor and review board. (e)*

*Whatever language is changed or added to the documents needs to address cool versus warm season crops, double cropping practices, etc...*

*Even after you make changes to the language, there needs to be a way to address issues at a sub-regional level based on geographic formations. (e)*

*Typically, your data for insurance comes from the scam artists or the really good producers, neither of which provide the data which is applicable to everyone. (e)*

*Using local CSP type processes and reporting might help with tracking irrigation water usage.*

*It seems to make some sense to provide broad language by perennial versus annual crops or fruits and vegetables versus field versus tree. (a)*

*The producers APH itself has a self-regulating nature.*

*We do not have state monitored pumps on our wells. (a)*

*Some districts put a limit on the amount of groundwater a producer can pull and the producers pay a penalty if they use more than allowed.*

*We can bank some of our water in wet years.*

*Our APH is not only based on the average irrigation over the last ten years but also the average precipitation.*

*It takes time to build our APH so it should also be given the same amount of time to go down.*

*You cannot compare us with Nebraska. We do not have governmental regulations where the government can come in a shut off our water.*

*We turn in our power records to support our loss claims.*

*My association believes changes to irrigation language should be done by the individual RMA regional office like they are doing in Kansas. (a)*

*Water Boards need to document the cause of water restriction. (i)*

*You'll never be able to create irrigation language without opening loopholes that people will find to game the system.*

**Comments addressing what type of risk management insurance would be appropriate for Limited Irrigation:**

*Third practice called, maybe, Supplemental Water. (i)*

*Seek an approach where the producer is not going to lose 2/3rds of their irrigated yield when they lose access to some of their water.*

*The plan needs to take into account the imperfections of the program based on a national crop program.*

*Overhead heat needs to be accounted for in any changes.*

*Sometimes there is not enough water to overcome the effects of weather like high heat and winds combined.*

*If they are going to talk about reducing APH because of irrigation, let's up it. I have 600 pounds APH trying to raise a crop of 1800 pounds because I changed how I irrigate so I don't have near enough coverage.*

## **Appendix D**

# **State-level Irrigation Reporting Requirements and Information Collected by the State**

**Table D1. Reporting Requirements**

State	Registration	Monitoring
Alabama	100,000 gallons of water or more per day for irrigation	
Alaska	500 gallons per day	
Arizona	Any amount, groundwater has time limit	Arizona has a database for all users whose groundwater withdrawal rate exceeds 35 gpm in five areas (Phoenix, Tucson, Pinal Prescott and Santa Cruz)
Arkansas	Registration involves reporting water use for the past water year	
California	withdrawal of surface water is by permit	There is no comprehensive permit process for groundwater use.
Colorado	by permit regardless of amount	
Connecticut	50,000 gpd	
Delaware	50,000 gpd; special permit >100,000gpd	
Florida	1,000,000 gpd and for wells greater than six inches in diameter.	Water use data are reported monthly, quarterly or annually, depending on the management district
Georgia	100,000 gpd on a monthly average	Data is not gathered and complied for irrigation
Hawaii	more than 25,000 gpm	
Idaho	Any use	
Illinois	100,000 gpd capacity	
Indiana	more than 100,000 gpd	
Iowa	over 25,000 gpd	An annual water use report form
Kansas	>1,000,000 gallons	An annual water use report
Kentucky	10,000 gpd	may not have a reporting requirement
Louisiana	Groundwater registration	more than 1,000,000 gpd report withdrawal information quarterly, all other facilities receive a questionnaire every five years
Maine	all significant groundwater withdrawals	reports of surface and groundwater withdrawals for agricultural use
Maryland	All withdrawals with additional registration procedures for withdrawals over 10,000 gpd	periodic reporting

State	Registration	Monitoring
Massachusetts	in excess of 100,000 gpd or 9,000,000 gallons in any three month period	water meters
Michigan	over 2,000,000 gpd must be permitted	over 100,000 gpd must be reported
Minnesota	10,000 gallons in any one day or 1,000,000 gallons in a year	new water withdrawals must be equipped with a flow meter
Mississippi	New uses after 1985 in excess of 20,000 gpd	water use is reported annually on a voluntary basis
Missouri	over 100,000 gpd	report withdrawals annually
Montana	in excess of 35 gpm	
Nebraska	All surface water and some groundwater extraction requires permits	may be required to submit a report
Nevada	New use after 1905	the right holder is required to file proof once water has been put to beneficial use
New Hampshire	Groundwater >57,600 gallons over any 24-hour period over	
New Jersey	100,000 gpd	
New Mexico	New uses after 1907	maintains water-use databases
New York	No comprehensive program	
North Carolina	1,000,000 gallons of water a day or more renewed every 5 years	Annual reporting of withdrawals for surface and ground water users of more than 10,000 gpd
North Dakota	>12.5 acre-feet per year	“reports”
Ohio	100,000 gpd except in stressed area where every withdrawal may require a permit	annual reports
Oklahoma	2 acre feet per year or based on yield studies	The amount of unappropriated water must be documented
Oregon	any new use	irrigation districts report water use annually
Pennsylvania	10,000, 20,000 and 100,000 gpd depending on source	periodic reports for some sources
Rhode Island	50,000,000 gallons per year	
South Carolina	3,000,000 gallons per month	Annual report
South Dakota	>18 gpm	
Tennessee	Agriculture exempt from permitting	Encouraged to report withdrawal

State	Registration	Monitoring
Texas	Any new use	
Utah	all withdrawals of surface and groundwater are permitted	One time file of proof of quantity etc.
Vermont	No comprehensive program	Farms using more than 57,600 gpd
Virginia	300,000 gallons per month or more in a declared management area	
Washington	Any use since 1917 (5,000 gpd exception for irrigation)	no mandatory reporting or monitoring of withdrawals
West Virginia	no water withdrawal regulation	
Wisconsin	New groundwater withdrawals over 100,000 gpd	groundwater withdrawals over 100,000 gpd, however surface water withdrawals for agricultural or irrigation purposes do not require a permit
Wyoming	Some groundwater extraction since 1947	State Engineer may require water use reports

Source: After <http://www.ncsl.org/issues-research/env-res/state-water-withdrawal-regulations.aspx#ct>



**Table D2. Links to Irrigation Survey Information by State**

State	Link to Irrigation Survey Information
California	<a href="http://www.water.ca.gov/landwateruse/surveys.cfm">http://www.water.ca.gov/landwateruse/surveys.cfm</a>
Colorado	<a href="http://www.pacinst.org/wp-content/uploads/2013/05/pacinst-crb-ag.pdf">http://www.pacinst.org/wp-content/uploads/2013/05/pacinst-crb-ag.pdf</a>
Georgia	<a href="http://www.nespal.org/sirp/agwateruse/facts/survey/default.asp">http://www.nespal.org/sirp/agwateruse/facts/survey/default.asp</a>
Illinois	<a href="http://isws.illinois.edu/pubdoc/RR/ISWSRR-118.pdf">http://isws.illinois.edu/pubdoc/RR/ISWSRR-118.pdf</a>
Kansas	<a href="http://www.ksre.ksu.edu/irrigate/OOW/P12/Rogers12Trends.pdf">http://www.ksre.ksu.edu/irrigate/OOW/P12/Rogers12Trends.pdf</a>
Kentucky	<a href="http://www.uky.edu/Ag/Agronomy/Extension/ssnv/ssnvl211.pdf">http://www.uky.edu/Ag/Agronomy/Extension/ssnv/ssnvl211.pdf</a>
Michigan	<a href="http://www.michigan.gov/documents/deq/deq-wd-wurp-agriculturereport06_208259_7.pdf">http://www.michigan.gov/documents/deq/deq-wd-wurp-agriculturereport06_208259_7.pdf</a>
Missouri	<a href="http://agebb.missouri.edu/irrigate/survey/nbh98.htm">http://agebb.missouri.edu/irrigate/survey/nbh98.htm</a> , <a href="http://agebb.missouri.edu/irrigate/survey/nbh01.htm">http://agebb.missouri.edu/irrigate/survey/nbh01.htm</a> , <a href="http://agebb.missouri.edu/irrigate/survey/nbh04.htm">http://agebb.missouri.edu/irrigate/survey/nbh04.htm</a>
Montana	<a href="http://www.nass.usda.gov/Statistics_by_State/Montana/Publications/Press_Releases_Miscellaneous/historic/fris.pdf">http://www.nass.usda.gov/Statistics_by_State/Montana/Publications/Press_Releases_Miscellaneous/historic/fris.pdf</a>
Nebraska	
South Carolina	<a href="http://www.clemson.edu/irrig/Survey/SURVEY00.PDF">http://www.clemson.edu/irrig/Survey/SURVEY00.PDF</a>
Texas	<a href="http://www.twdb.state.tx.us/publications/reports/numbered_reports/doc/R347/R347.pdf">http://www.twdb.state.tx.us/publications/reports/numbered_reports/doc/R347/R347.pdf</a> , <a href="http://www.twdb.texas.gov/publications/reports/contracted_reports/doc/0704830691_RegionF/IrrigationReport.pdf">http://www.twdb.texas.gov/publications/reports/contracted_reports/doc/0704830691_RegionF/IrrigationReport.pdf</a>

**Table D3. Information Collected on Water Extraction Applications by State**

State	Withdrawal ID	Date of Pump/Well Installation	Pump Capacity (gals/min)	Location of Well, Pump, Diversion Works	Intake Elevation / Depth of Pump Intake	Depth of Water Bearing Formation	Depth to Static Water Level	Water Source (Aquifer/Surface Name)
Alabama	X	X	X	X	X			X
Alaska		X	X	X		X	X	X
Arizona								
Arkansas		X		X	X			X
California	X	X	X	X				X
Colorado			X	X				X
Connecticut				X				X
Delaware	X		X	X				X
Florida	X	X	X	X				
Georgia	X			X				
Hawaii	X	X		X				
Idaho	X		X	X	X (Location)			X
Indiana	X	X	X	X	X	X	X	X
Iowa		X		X	X	X	X	X
Kansas	X	X	X	X	X		X	X
Kentucky				X	X			X
Maine	X			X	X			
Maryland	X			X				
Massachusetts			X	X				X
Michigan			X	X				X
Minnesota		X		X				X
Mississippi	X	X	X	X				
Missouri			X					X
Montana				X				X

State	Withdrawal ID	Date of Pump/Well Installation	Pump Capacity (gals/min)	Location of Well, Pump, Diversion Works	Intake Elevation / Depth of Pump Intake	Depth of Water Bearing Formation	Depth to Static Water Level	Water Source (Aquifer/Surface Name)
Nebraska		X		X				X
Nevada								X
New Hampshire	X	X	X	X	X			X
New Jersey				X				X
New Mexico				X				X
New York	X		X	X	X			X
North Carolina				X				X
North Dakota	X		X	X				X
Ohio			X	X				
Oklahoma	X		X				X	X
Oregon		X	X	X	X			X
Pennsylvania	X		X					X
South Carolina				X		X	X	X
South Dakota	X			X				X
Tennessee	X		X	X				X
Texas				X				X
Utah	X			X				X
Vermont			X	X	X			X
Virginia	X			X				X
Washington								
Wyoming								

**Table D3. Information Collected on Water Extraction Applications by State (Continued)**

State	Avg Withdrawal (gals/year or acre feet/year)	Max Withdrawal (gal/day or gal/min or cubic ft/sec)	Acres Irrigated from Source	Avg Inch/year applied	Number of Months Irrigate	Irrigate Days/Month	Water Usage Intent	Map of Diversion Points
Alabama	X	X	X	X	X	X		
Alaska	X	X		X	X		X	
Arizona								
Arkansas	X		X		X		X	
California	X		X		X		X	X
Colorado		X	X				X	X
Connecticut		X			X	X		
Delaware	X	X	X				X	X
Florida		X	X				X	X
Georgia			X				X	X
Hawaii	X	X	X		X		X	X
Idaho		X	X		X	X	X	X
Indiana	X	X					X	X
Iowa	X		X		X	X	X	X
Kansas	X	X					X	X
Kentucky	X	X	X	X	X	X	X	X
Maine			X				X	X
Maryland			X				X	
Massachusetts		X	X					
Michigan	X	X			X		X	
Minnesota	X	X	X	X	X		X	X
Mississippi	X	X	X				X	X
Missouri	X	X	X		X	X	X	
Montana	X		X		X	X	X	X

State	Avg Withdrawal (gals/year or acre feet/year)	Max Withdrawal (gal/day or gal/min or cubic ft/sec)	Acres Irrigated from Source	Avg Inch/year applied	Number of Months Irrigate	Irrigate Days/Month	Water Usage Intent	Map of Diversion Points
Nebraska		X	X				X	X
Nevada		X	X		X	X	X	
New Hampshire	X	X					X	
New Jersey		X				X	X	X
New Mexico			X	X			X	
New York		X					X	X
North Carolina	X	X			X	X	X	X
North Dakota		X			X	X	X	
Ohio	X	X					X	X
Oklahoma	X		X				X	X
Oregon			X				X	X
Pennsylvania	X	X					X	X
South Carolina	X		X				X	X
South Dakota	X	X	X		X		X	X
Tennessee	X				X	X	X	X
Texas	X		X				X	X
Utah	X	X	X		X		X	
Vermont		X					X	X
Virginia	X		X	X			X	
Washington		X			X	X	X	X
Wyoming							X	X

**Table D4. Information Collected on Water Usage Reporting Forms by State**

State	Location of Pump/Diversion Point Description	Acres Irrigated	Irrigation Usage (acre inches)			Irrigation Usage (Gallons used)			Notes
			Unit	Crop	Farm	Unit	Crop	Farm	
Alabama	Withdrawal Name				X			X	Million Gallons/Day - Monthly Use reporting
Alaska	Source Name/Meter Reading							X	
Arizona	Withdrawal Location/DWR Well Registration							X	Online Reporting available, two short forms available- one for Santa Cruz AMA, another for all other areas.
Arkansas	X	X					X	X	
California	Source and Diversion Works Name, Section/Township	X			X			X	Measurement Description on Form, Yearly Reporting
Colorado								X	
Connecticut	Diversion Name							X	Gallons pumped/Day- Monthly Use reporting
Delaware									
Florida									Water use is reported to the districts and then to the State, but water permits are through the State itself.

State	Location of Pump/Diversion Point Description	Acres Irrigated	Irrigation Usage (acre inches)			Irrigation Usage (Gallons used)			Notes
			Unit	Crop	Farm	Unit	Crop	Farm	
		X					X	Multiple Water Reporting Forms depending on conditions of permit, with Annual, Periodic, and Summary Forms available.	
							X	Reporting form unavailable	
							X	Monthly Water Use Reporting	
							X	Online Reporting for registered users, screenshots unavailable	
							X	Yearly Reporting	
Georgia	Reporting from Aquifer or Multiple Aquifers					X		Daily/Monthly Reporting	
Hawaii	Ground: State Well Number/Name, Surface: Gage ID/Name						X	Monthly Reporting for both Surface/Ground	
Idaho	Diversion Name and Site Tag Number			X			X	Yearly reporting, typically submitted by Water Master rather than Producer unless requested	
Illinois	Well/intake/Township information						X	Water Use Breakdown by Self-Supplied and Purchased, Online reporting available	
Indiana	Well/intake information, Source ID,						X	Monthly/Annual Reporting for Ground/Surface, Online Submission	
Iowa	Name and Type of Water Source	X		X			X	Monthly/Annual Reporting	
Kansas	Section/Township/Range	X					X	Annual Reporting - Total use by Gallon, forms are mailed to water rights holders	

State	Location of Pump/Diversion Point Description	Acres Irrigated	Irrigation Usage (acre inches)			Irrigation Usage (Gallons used)			Notes
			Unit	Crop	Farm	Unit	Crop	Farm	
Kentucky								Agricultural water users are exempt from Reporting due to Chapter 22, Article 26 of the newest Legislature.	
Louisiana	DOTD Well Number/Parish						X	Reporting not required	
Maine	Water Source info, If Groundwater Well, Distance from/identification of Nearest Surface Water Body. Municipality and Township						X	Gallons per Hour/Day, Daily and Monthly Predictions/Actuals for Year	
Maryland		X		X				Required to be submitted 30 days after form received. Monthly Reporting for Year.	
Massachusetts	Withdrawal Point and Location						X	Annual Reporting, separate forms for reporting water use for growing cranberries and for other crops.	
Michigan	Pump ID, Location, capacity, Water Source Information	X		X	X		X	Monthly Reporting for Year	
Minnesota		X					X	Received screenshots of online process from Sean Hunt on 4/30	



State	Location of Pump/Diversion Point Description	Acres Irrigated	Irrigation Usage (acre inches)			Irrigation Usage (Gallons used)			Notes
			Unit	Crop	Farm	Unit	Crop	Farm	
Mississippi								Water reporting records are taken during permitting process and voluntary reporting	
Missouri	Water Use Information: Withdrawal/Intake ID Number, Well Cert#, Water Body Name, etc	X			X			X Monthly Reporting for Year, online reporting available-permitting for new users and reporting is on the same form	
Montana	Location and Type of Device Used				X			X Annual Reporting, Multiple Reporting Forms available- Flow Meter, Hour Meter, Open Channel, Staff Gage, Static Level, Watt Hour Meter can be used. Not all Water Districts required to submit reports and some reporting information is obtained via meters, those that are will be sent in by producers in the form of a spreadsheet or written statement with few exceptions. These exceptions vary from one district to another. Some districts also participate in Adjacent State Transfers.	
Nebraska								Reporting required Yes, in sub-areas, have form Volunteer Reports Reporting not required Yes, for all District required flow meters (sub areas) Yes, in sub-areas, have form Yes, in sub-areas, have form	

State	Location of Pump/Diversion Point Description	Acres Irrigated	Irrigation Usage (acre inches)			Irrigation Usage (Gallons used)			Notes
			Unit	Crop	Farm	Unit	Crop	Farm	
									Volunteer Reports Reporting required, provided by meters Reporting required, provided by meters Yes, in sub-areas Reporting required, provided by meters Reporting required, provided by meters Reporting required, provided by meters Reporting not required Reporting required, provided by meters Reporting required, provided by meters Reporting not required Reporting required, provided by meters Reporting required, provided by meters Reporting required, provided by meters Reporting required, provided by meters Reporting required, provided by meters Reporting required, provided by meters
Nevada	Well Name or Basin Number							X	
New Hampshire	Source Name and Destination ID							X	Monthly Online Reporting Process

State	Location of Pump/Diversion Point Description	Acres Irrigated	Irrigation Usage (acre inches)			Irrigation Usage (Gallons used)			Notes
			Unit	Crop	Farm	Unit	Crop	Farm	
New Jersey	Source Name , Well/Intake Information	X					X		Quarterly or Annual Online Reporting Process
New Mexico	Location of Well, Number, Subdivision/Township (for Ground) also USGS Coordinates and Lat/Long (for Surface), Source Information	X			X				Separate Forms for Ground and Surface Water
New York	Source Name/Type							X	Monthly Reporting Due March 31 of Each Year. General Map (USGS) and Interbasin Diversions (if any) also required Application and Reporting on the same form
North Carolina	Source and Well ID Numbers, Lat/Long							X	
North Dakota	N/A	X			X				Online Reporting
Ohio	Facility Well ID (Ground) or Intake ID (Surface), Source/Well Number							X	Annual Reporting
Oklahoma	Pump/Diversion Point kept on file	X			X				Water is Pre-Allocated, Report is only to verify
Oregon	Facility Report ID	X			X			X	October through September of following year (Annual) reporting
Pennsylvania								X	Online Annual Reporting from Jan to Dec, Unable to acquire screenshots, but have sample Subfacility Report

State	Location of Pump/Diversion Point Description	Acres Irrigated	Irrigation Usage (acre inches)			Irrigation Usage (Gallons used)			Notes
			Unit	Crop	Farm	Unit	Crop	Farm	
Rhode Island								X	Only major water suppliers (50million gallons/year or more) are required to report. Agricultural needs are pre-estimated and privately verified by consumers *See email in State file*
South Carolina	Source(ground), name of well or wells utilized							X	Actual Reporting Forms mailed strictly to water-rights holders, but requirements visible in other documents.
South Dakota		X		X			X		Monthly/Annual Reporting due by December 2 of each year
Tennessee	Source/Intake Information							X	Daily Averages Annual Report due by March 1 of each year
Texas	Aquifer/Source/Well Information for Purchased and Self-Supplied Water							X	Municipal Water Use Survey due December 31 of each year. Forms for Ground/Surface/Purchased/Self-Supplied available.
Utah	Source/Well Information		X		X		X	X	Annual Online Reporting when requested. Water is allocated and monitored.
Vermont	Facility ID (Water Source)							X	Daily/Monthly forms Annually submitted
Virginia	Well Number							X	Online Reporting available, Montly/Annual Withdrawal Amounts. Excess over 10,000 gallons/day is required to be reported, below that is voluntary
Washington	Only Meter Type				X			X	Online Reporting available. Reporting due by January 31 each year

State	Location of Pump/Diversion Point Description	Acres Irrigated	Irrigation Usage (acre inches)			Irrigation Usage (Gallons used)			Notes
			Unit	Crop	Farm	Unit	Crop	Farm	
West Virginia									Farmers and Irrigators are exempt from filling out both an application/permit and reporting water use in West Virginia Annual Reporting due March 1 for previous year, majority of information that would supplement the actual permitting process as is typical in most States is taken from the water reporting form instead. Reporting not required
Wisconsin	Source Name, Well Number, Public Water System ID (if applicable)						X		
Wyoming	N/A								

## **Appendix E**

### **Historical Precipitation by State and County**

**Table E1. Historical Precipitation by State and County –  
5 Month Average and Standard Deviation**

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
AL	Baldwin	33.9	8.4	AL	Limestone	20.8	4.3
AL	Barbour	22.3	6.1	AL	Macon	22.5	6.7
AL	Bibb	22.6	6.6	AL	Madison	22.4	4.9
AL	Blount	25.1	6.1	AL	Marengo	23.6	6.2
AL	Bullock	25.0	6.4	AL	Marion	26.1	5.5
AL	Butler	25.6	7.1	AL	Marshall	21.9	4.6
AL	Calhoun	22.2	5.7	AL	Mobile	31.0	7.8
AL	Chambers	23.7	5.5	AL	Montgomery	23.3	4.8
AL	Cherokee	25.9	5.3	AL	Morgan	24.9	5.0
AL	Chilton	23.5	6.2	AL	Pickens	23.9	5.9
AL	Clarke	26.6	6.3	AL	Pike	21.7	6.1
AL	Clay	24.1	6.3	AL	Randolph	22.9	6.5
AL	Cleburne	24.0	6.1	AL	Shelby	21.0	5.1
AL	Coffee	25.8	7.3	AL	Sumter	23.7	6.7
AL	Colbert	22.5	5.5	AL	Talladega	23.3	5.9
AL	Conecuh	24.5	7.2	AL	Tallapoosa	23.9	6.1
AL	Coosa	25.2	6.3	AL	Tuscaloosa	23.5	5.4
AL	Covington	27.7	7.9	AL	Walker	24.9	5.8
AL	Crenshaw	24.5	6.5	AL	Washington	28.9	7.5
AL	Cullman	24.0	4.4	AL	Winston	25.7	5.1
AL	Dale	18.1	5.9	AZ	Apache	7.3	1.9
AL	Dallas	21.3	6.1	AZ	Cochise	8.4	1.8
AL	Dekalb	23.5	4.3	AZ	Coconino	6.7	1.7
AL	Elmore	22.0	6.5	AZ	Gila	7.5	2.1
AL	Escambia	30.2	7.4	AZ	Graham	5.9	1.6
AL	Etowah	23.3	5.1	AZ	Greenlee	9.9	3.1
AL	Fayette	24.5	5.9	AZ	La Paz	2.1	1.1
AL	Franklin	23.9	5.3	AZ	Maricopa	3.6	1.7
AL	Geneva	26.5	7.2	AZ	Mohave	3.2	1.2
AL	Greene	22.3	6.2	AZ	Navajo	7.4	1.8
AL	Hale	22.9	5.0	AZ	Pima	7.1	2.0
AL	Henry	25.2	7.1	AZ	Pinal	4.3	1.4
AL	Houston	21.1	6.0	AZ	Santa Cruz	9.8	2.6
AL	Jackson	23.5	4.2	AZ	Yavapai	6.6	1.9
AL	Jefferson	24.7	5.2	AZ	Yuma	1.6	1.0
AL	Lamar	24.9	7.1	AR	Arkansas	21.7	5.6
AL	Lauderdale	21.8	5.3	AR	Ashley	23.7	7.6
AL	Lawrence	23.5	5.5	AR	Baxter	19.1	4.8
AL	Lee	24.9	6.3	AR	Benton	24.1	6.2

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
AR	Boone	21.5	5.6	AR	Monroe	22.8	6.1
AR	Bradley	23.2	7.0	AR	Montgomery	21.3	6.6
AR	Carroll	23.5	6.1	AR	Nevada	24.2	7.2
AR	Chicot	22.4	7.0	AR	Newton	24.1	6.8
AR	Clark	24.6	7.4	AR	Ouachita	22.7	6.8
AR	Clay	21.1	5.4	AR	Perry	23.1	6.2
AR	Cleburne	23.0	6.3	AR	Phillips	22.1	6.3
AR	Cleveland	32.2	9.5	AR	Pike	24.7	7.4
AR	Columbia	22.6	7.8	AR	Poinsett	26.6	6.4
AR	Conway	21.7	6.9	AR	Polk	27.4	7.2
AR	Craighead	19.7	5.1	AR	Pope	15.8	5.0
AR	Crawford	25.2	6.4	AR	Prairie	22.3	7.2
AR	Crittenden	23.5	6.7	AR	Pulaski	21.6	6.2
AR	Cross	21.7	6.0	AR	Randolph	21.1	5.4
AR	Dallas	23.3	6.8	AR	St. Francis	22.1	5.7
AR	Desha	21.9	6.3	AR	Saline	24.7	6.6
AR	Drew	22.6	6.6	AR	Scott	23.3	6.9
AR	Faulkner	22.7	5.8	AR	Searcy	21.1	5.7
AR	Franklin	24.5	5.8	AR	Sebastian	21.2	6.0
AR	Fulton	21.1	5.1	AR	Sevier	19.3	6.0
AR	Garland	24.0	6.5	AR	Sharp	21.2	5.2
AR	Grant	23.9	7.2	AR	Stone	23.3	6.7
AR	Greene	21.3	6.1	AR	Union	22.1	6.7
AR	Hempstead	23.9	7.4	AR	Washington	22.3	5.6
AR	Hot Spring	25.2	7.4	AR	White	23.2	6.5
AR	Howard	25.0	7.6	AR	Woodruff	17.7	4.6
AR	Independence	22.0	5.7	AR	Yell	21.6	5.9
AR	Izard	21.4	6.1	CA	Alameda	2.1	1.3
AR	Jackson	22.1	6.0	CA	Amador	4.7	2.9
AR	Jefferson	22.6	7.5	CA	Butte	5.5	3.1
AR	Johnson	23.2	6.0	CA	Calaveras	5.9	3.3
AR	Lafayette	23.6	6.1	CA	Colusa	2.1	1.5
AR	Lawrence	20.8	5.7	CA	Contra Costa	2.3	1.5
AR	Lee	22.3	5.8	CA	Del Norte	9.9	4.9
AR	Lincoln	25.2	6.9	CA	El Dorado	5.5	3.0
AR	Little River	23.5	6.9	CA	Fresno	3.1	1.9
AR	Logan	22.2	5.8	CA	Glenn	2.7	1.7
AR	Lonoke	22.0	5.9	CA	Humboldt	7.8	3.6
AR	Madison	23.5	6.1	CA	Imperial	0.6	0.7
AR	Miller	21.0	7.0	CA	Inyo	1.0	0.6
AR	Mississippi	19.9	5.2	CA	Kern	1.4	1.0



State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
CA	Kings	1.1	0.9	CA	Yuba	8.6	4.8
CA	Lake	3.1	2.2	CO	Adams	10.6	2.8
CA	Lassen	3.2	1.6	CO	Alamosa	5.3	1.6
CA	Los Angeles	1.7	1.6	CO	Arapahoe	9.5	3.1
CA	Madera	3.5	2.3	CO	Baca	11.7	3.1
CA	Marin	3.9	2.7	CO	Bent	9.4	2.7
CA	Mariposa	6.4	3.4	CO	Boulder	13.5	3.2
CA	Mendocino	5.0	2.8	CO	Chaffee	6.9	2.3
CA	Merced	1.6	1.1	CO	Cheyenne	12.8	3.0
CA	Modoc	4.6	1.5	CO	Clear Creek	11.4	2.8
CA	Mono	3.5	1.4	CO	Conejos	5.1	1.5
CA	Monterey	2.4	1.7	CO	Crowley	8.3	3.2
CA	Napa	3.5	2.3	CO	Custer	9.3	2.6
CA	Nevada	7.2	3.4	CO	Delta	5.7	1.8
CA	Orange	1.5	1.3	CO	Denver	10.7	3.3
CA	Placer	5.6	2.8	CO	Dolores	4.8	1.7
CA	Plumas	5.0	2.2	CO	Douglas	12.2	3.0
CA	Riverside	1.4	1.0	CO	Eagle	10.9	2.3
CA	Sacramento	2.1	1.2	CO	Elbert	10.5	3.1
CA	San Benito	1.9	1.5	CO	El Paso	12.5	3.3
CA	San Bernardino	1.8	1.0	CO	Fremont	8.8	3.2
CA	San Diego	2.2	1.4	CO	Garfield	6.9	2.1
CA	San Francisco	2.5	1.8	CO	Grand	8.7	2.0
CA	San Joaquin	2.0	1.2	CO	Gunnison	6.9	1.6
CA	San Luis Obispo	1.8	1.5	CO	Hinsdale	8.7	2.4
CA	San Mateo	3.1	1.9	CO	Huerfano	10.1	2.8
CA	Santa Barbara	1.8	1.6	CO	Jackson	9.6	2.2
CA	Santa Clara	2.2	1.4	CO	Jefferson	11.8	3.0
CA	Santa Cruz	3.0	2.2	CO	Kiowa	11.3	3.6
CA	Shasta	7.0	3.2	CO	Kit Carson	12.0	3.2
CA	Sierra	7.2	3.5	CO	Lake	8.3	1.7
CA	Siskiyou	5.5	2.2	CO	La Plata	9.0	2.7
CA	Solano	2.4	1.8	CO	Larimer	7.8	2.9
CA	Sonoma	4.0	2.4	CO	Las Animas	10.7	2.4
CA	Stanislaus	1.6	1.2	CO	Lincoln	11.2	2.9
CA	Tehama	6.4	3.1	CO	Logan	12.0	2.7
CA	Trinity	5.2	2.7	CO	Mesa	5.7	1.9
CA	Tulare	3.9	2.5	CO	Mineral	9.4	2.5
CA	Tuolumne	5.9	3.3	CO	Moffat	5.7	1.7
CA	Ventura	1.4	1.4	CO	Montezuma	7.2	2.3
CA	Yolo	2.1	1.5	CO	Montrose	5.9	1.9

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
CO	Morgan	10.1	2.7	FL	Desoto	34.5	7.4
CO	Otero	9.4	2.5	FL	Dixie	33.3	9.9
CO	Ouray	10.3	2.5	FL	Duval	29.6	7.6
CO	Park	9.6	2.2	FL	Escambia	30.6	8.4
CO	Phillips	13.5	3.8	FL	Flagler	30.5	7.8
CO	Pitkin	8.8	2.0	FL	Gadsden	29.5	7.0
CO	Prowers	10.7	2.9	FL	Gilchrist	29.6	6.9
CO	Pueblo	9.3	2.7	FL	Glades	34.9	6.3
CO	Rio Blanco	6.7	1.7	FL	Gulf	34.4	8.9
CO	Rio Grande	5.1	1.5	FL	Hamilton	28.4	6.8
CO	Routt	9.1	2.1	FL	Hardee	34.0	6.3
CO	Saguache	6.5	1.9	FL	Hendry	38.0	6.0
CO	San Juan	11.6	3.4	FL	Hernando	32.8	7.2
CO	San Miguel	9.6	2.6	FL	Highlands	34.2	6.3
CO	Sedgwick	13.3	3.5	FL	Hillsborough	29.0	6.1
CO	Summit	8.3	1.8	FL	Holmes	29.4	7.4
CO	Teller	10.5	2.7	FL	Indian River	31.4	7.2
CO	Washington	11.1	2.5	FL	Jackson	26.2	6.1
CO	Weld	9.7	2.6	FL	Jefferson	29.1	8.0
CO	Yuma	13.1	2.8	FL	Lafayette	31.8	7.9
CT	Fairfield	20.8	5.5	FL	Lake	28.2	6.0
CT	Hartford	22.8	6.1	FL	Lee	35.0	6.3
CT	Litchfield	23.5	5.5	FL	Leon	33.1	8.0
CT	New Haven	19.0	5.3	FL	Levy	35.4	8.0
CT	New London	20.8	4.9	FL	Liberty	35.1	7.7
CT	Tolland	23.2	5.4	FL	Madison	27.0	7.3
CT	Windham	20.7	4.5	FL	Manatee	35.6	7.4
DE	Kent	19.2	5.4	FL	Marion	31.5	6.5
DE	New Castle	21.4	5.2	FL	Martin	35.6	7.6
DE	Sussex	20.3	4.8	FL	Miami-Dade	37.9	9.4
FL	Alachua	29.0	5.8	FL	Monroe	26.6	6.5
FL	Baker	32.8	7.7	FL	Nassau	27.3	7.9
FL	Bay	25.4	6.5	FL	Okaloosa	28.9	7.6
FL	Bradford	32.8	7.2	FL	Okeechobee	33.4	8.0
FL	Brevard	29.6	6.8	FL	Orange	28.0	5.9
FL	Broward	32.8	7.2	FL	Osceola	30.8	8.0
FL	Charlotte	31.9	7.2	FL	Palm Beach	39.4	7.0
FL	Citrus	33.0	7.5	FL	Pasco	27.5	5.1
FL	Collier	36.2	6.4	FL	Pinellas	31.8	7.0
FL	Columbia	31.1	6.8	FL	Polk	31.6	5.5
FL	Dade	36.8	7.4	FL	Putnam	29.1	6.9

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
FL	St. Johns	28.8	7.8	GA	Decatur	27.1	6.6
FL	St. Lucie	27.0	6.3	GA	Dekalb	19.7	5.2
FL	Santa Rosa	30.8	8.4	GA	Dodge	22.3	5.0
FL	Sarasota	31.7	6.7	GA	Dooly	29.7	6.3
FL	Seminole	28.4	7.2	GA	Dougherty	22.1	5.3
FL	Sumter	31.2	6.7	GA	Early	23.8	6.7
FL	Suwannee	28.8	8.5	GA	Elbert	21.5	6.0
FL	Taylor	30.2	7.2	GA	Fannin	28.7	5.2
FL	Volusia	30.1	7.6	GA	Fayette	17.2	4.3
FL	Wakulla	34.6	8.3	GA	Floyd	23.4	5.5
FL	Washington	28.1	7.1	GA	Forsyth	23.2	6.1
GA	Appling	31.0	7.1	GA	Fulton	20.6	4.8
GA	Bacon	24.3	5.2	GA	Glynn	26.8	7.2
GA	Baker	22.8	5.9	GA	Grady	27.1	6.7
GA	Baldwin	20.9	5.7	GA	Greene	20.8	5.1
GA	Banks	21.7	5.4	GA	Habersham	24.9	6.0
GA	Bartow	19.3	4.6	GA	Hall	21.2	5.3
GA	Berrien	28.9	7.1	GA	Harris	21.1	5.5
GA	Bibb	20.5	4.9	GA	Hart	20.9	5.8
GA	Brantley	30.5	6.5	GA	Henry	25.8	6.1
GA	Bulloch	24.8	6.9	GA	Houston	21.7	5.1
GA	Burke	21.9	5.3	GA	Irwin	28.3	5.9
GA	Calhoun	22.0	5.4	GA	Jasper	21.1	5.9
GA	Camden	28.3	6.6	GA	Jeff Davis	23.7	5.1
GA	Candler	23.8	7.3	GA	Jefferson	21.2	5.9
GA	Carroll	22.3	5.7	GA	Johnson	22.9	5.8
GA	Charlton	28.1	6.7	GA	Laurens	21.4	5.4
GA	Chatham	28.6	7.4	GA	Lee	25.6	5.6
GA	Chattahoochee	17.4	5.2	GA	Liberty	28.1	7.4
GA	Chattooga	23.7	5.9	GA	Lowndes	23.9	6.0
GA	Cherokee	23.7	5.5	GA	Mcintosh	27.3	6.8
GA	Clarke	22.2	6.0	GA	Madison	16.4	4.9
GA	Clay	23.0	5.7	GA	Miller	26.3	7.7
GA	Clayton	21.6	5.5	GA	Mitchell	24.9	6.4
GA	Clinch	27.4	6.0	GA	Murray	23.1	5.1
GA	Cobb	20.9	5.7	GA	Muscogee	22.2	6.2
GA	Coffee	25.3	5.5	GA	Newton	21.0	5.9
GA	Colquitt	24.6	6.1	GA	Oconee	19.3	4.7
GA	Columbia	21.8	5.3	GA	Oglethorpe	20.9	5.7
GA	Coweta	22.3	5.6	GA	Paulding	22.9	5.2
GA	Crisp	21.4	5.5	GA	Pickens	25.1	5.7

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
GA	Pierce	28.4	6.7	ID	Camas	4.5	2.0
GA	Polk	23.0	5.5	ID	Canyon	3.8	1.4
GA	Pulaski	21.1	5.4	ID	Caribou	7.8	2.2
GA	Quitman	25.3	5.8	ID	Cassia	5.4	1.9
GA	Rabun	30.1	7.1	ID	Clark	7.5	2.3
GA	Randolph	24.1	6.4	ID	Clearwater	11.6	2.6
GA	Richmond	19.9	4.9	ID	Custer	5.4	1.5
GA	Screven	28.0	7.1	ID	Elmore	2.7	1.3
GA	Seminole	30.7	9.1	ID	Franklin	7.3	2.5
GA	Stephens	25.5	7.1	ID	Fremont	8.6	2.5
GA	Sumter	22.5	5.7	ID	Gem	5.2	1.8
GA	Talbot	23.2	6.6	ID	Gooding	3.1	1.3
GA	Tattnall	25.6	6.3	ID	Idaho	11.5	2.3
GA	Thomas	26.2	6.6	ID	Jefferson	5.1	1.9
GA	Tift	22.8	5.7	ID	Jerome	3.7	1.4
GA	Toombs	27.3	6.7	ID	Kootenai	8.6	2.4
GA	Troup	22.5	5.6	ID	Latah	8.9	2.1
GA	Turner	24.0	5.6	ID	Lemhi	6.5	1.6
GA	Union	24.9	5.2	ID	Lewis	10.3	2.3
GA	Upton	22.1	6.0	ID	Lincoln	3.4	1.4
GA	Walker	23.8	4.9	ID	Madison	6.1	2.1
GA	Warren	21.4	5.2	ID	Minidoka	4.2	1.8
GA	Washington	21.6	5.9	ID	Nez Perce	5.9	1.5
GA	Wayne	27.4	6.9	ID	Owyhee	4.2	1.4
GA	White	28.3	6.4	ID	Payette	3.6	1.4
GA	Wilcox	22.0	5.5	ID	Power	8.1	2.8
GA	Wilkes	21.2	5.8	ID	Shoshone	11.6	3.1
GA	Wilkinson	21.5	5.9	ID	Teton	8.2	2.5
GA	Worth	23.8	5.8	ID	Twin Falls	4.2	1.6
ID	Ada	4.7	1.7	ID	Valley	8.1	2.1
ID	Adams	7.1	2.2	ID	Washington	5.4	2.0
ID	Bannock	6.6	2.4	IL	Adams	21.8	5.9
ID	Bear Lake	5.9	2.0	IL	Bureau	22.5	5.0
ID	Benewah	9.6	2.3	IL	Carroll	22.6	5.7
ID	Bingham	4.9	2.0	IL	Champaign	20.3	4.7
ID	Blaine	5.5	2.2	IL	Christian	19.9	5.3
ID	Boise	6.7	2.3	IL	Clay	20.6	5.3
ID	Bonner	10.3	2.5	IL	Clinton	21.0	5.9
ID	Bonneville	7.3	2.3	IL	Coles	19.1	5.3
ID	Boundary	7.7	2.0	IL	Cook	20.8	4.1
ID	Butte	5.3	2.2	IL	Crawford	21.6	5.1

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
IL	Dekalb	21.5	5.4	IL	Monroe	20.7	6.0
IL	Douglas	21.7	5.5	IL	Montgomery	22.3	6.3
IL	Dupage	20.5	4.3	IL	Morgan	21.6	6.3
IL	Edgar	22.2	6.3	IL	Moultrie	22.3	5.4
IL	Edwards	19.2	4.9	IL	Ogle	20.7	4.9
IL	Fayette	21.8	5.5	IL	Peoria	20.8	5.3
IL	Ford	21.1	4.8	IL	Perry	21.5	6.3
IL	Franklin	20.8	5.9	IL	Pike	21.1	6.6
IL	Greene	20.2	6.5	IL	Pope	22.8	5.3
IL	Grundy	21.0	5.3	IL	Pulaski	24.5	5.8
IL	Hancock	22.4	6.3	IL	Putnam	21.0	5.2
IL	Hardin	23.9	6.5	IL	Randolph	21.3	5.2
IL	Henderson	21.6	6.5	IL	Richland	22.1	5.8
IL	Henry	22.3	5.6	IL	Rock Island	21.9	5.6
IL	Iroquois	22.2	5.6	IL	St. Clair	21.0	5.2
IL	Jackson	19.4	5.2	IL	Saline	22.0	6.3
IL	Jasper	21.5	5.3	IL	Sangamon	22.5	5.7
IL	Jefferson	21.4	5.1	IL	Schuyler	22.9	7.0
IL	Jersey	20.7	6.0	IL	Scott	22.1	6.6
IL	Jo Daviess	22.3	5.4	IL	Shelby	21.8	5.0
IL	Kane	19.8	4.5	IL	Stephenson	21.3	5.2
IL	Kankakee	23.1	5.0	IL	Union	22.9	6.1
IL	Knox	22.3	5.7	IL	Vermilion	21.7	4.9
IL	Lake	18.9	4.1	IL	Wabash	22.5	5.3
IL	La Salle	21.4	5.4	IL	Warren	21.8	5.8
IL	Lawrence	20.8	4.8	IL	Washington	20.1	5.6
IL	Lee	21.8	5.0	IL	Wayne	21.9	5.3
IL	Livingston	21.5	4.6	IL	White	22.7	5.9
IL	Logan	22.0	5.7	IL	Whiteside	21.4	5.2
IL	Mcdonough	18.6	5.2	IL	Will	20.8	5.2
IL	Mchenry	21.2	4.7	IL	Winnebago	22.3	5.8
IL	Mclean	20.3	4.9	IL	Woodford	21.7	5.2
IL	Macon	19.9	5.2	IN	Adams	20.6	4.5
IL	Macoupin	20.4	5.1	IN	Allen	20.1	4.1
IL	Madison	21.0	5.9	IN	Bartholomew	22.2	5.4
IL	Marion	20.8	5.1	IN	Benton	23.0	5.0
IL	Marshall	21.1	5.2	IN	Blackford	21.1	4.8
IL	Mason	20.8	6.0	IN	Boone	23.6	5.8
IL	Massac	22.3	5.6	IN	Carroll	21.5	4.7
IL	Menard	19.1	5.7	IN	Cass	22.6	4.6
IL	Mercer	21.6	6.5	IN	Clinton	22.1	4.8

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
IN	Daviess	22.9	5.7	IN	Posey	23.7	5.8
IN	Decatur	23.1	5.4	IN	Pulaski	21.8	4.2
IN	Dekalb	20.5	4.0	IN	Putnam	23.6	5.6
IN	Delaware	20.9	5.3	IN	Randolph	21.2	4.7
IN	Dubois	23.8	6.6	IN	Rush	23.0	5.1
IN	Elkhart	19.1	4.0	IN	St. Joseph	21.8	3.6
IN	Fountain	22.6	5.2	IN	Scott	25.3	5.0
IN	Franklin	22.1	4.7	IN	Shelby	21.3	4.8
IN	Fulton	21.7	4.9	IN	Spencer	21.8	4.9
IN	Gibson	23.2	5.3	IN	Starke	24.3	4.6
IN	Grant	21.5	5.1	IN	Steuben	20.3	3.9
IN	Hamilton	22.1	4.8	IN	Sullivan	22.5	5.5
IN	Hancock	23.5	5.6	IN	Tippecanoe	22.0	4.5
IN	Henry	22.5	5.2	IN	Tipton	21.0	5.2
IN	Howard	22.1	5.0	IN	Vanderburgh	21.5	5.3
IN	Huntington	21.6	4.4	IN	Vermillion	20.3	5.2
IN	Jackson	23.2	5.8	IN	Vigo	20.4	5.3
IN	Jasper	22.5	5.8	IN	Wabash	22.7	4.2
IN	Jay	20.7	5.1	IN	Warrick	22.8	5.2
IN	Jefferson	22.9	5.4	IN	Wayne	21.0	5.2
IN	Jennings	23.0	5.2	IN	Wells	21.5	4.6
IN	Johnson	25.3	5.7	IN	Whitley	20.4	4.4
IN	Knox	23.0	4.6	IA	Adair	22.8	5.9
IN	Kosciusko	20.7	4.5	IA	Adams	23.2	5.4
IN	Lagrange	20.5	4.1	IA	Allamakee	22.8	5.5
IN	Lake	21.7	5.6	IA	Appanoose	23.6	7.2
IN	Laporte	22.3	4.7	IA	Audubon	22.9	5.7
IN	Lawrence	26.2	5.6	IA	Benton	22.6	5.9
IN	Madison	21.3	4.7	IA	Black Hawk	22.8	6.1
IN	Marion	22.1	4.9	IA	Boone	23.8	6.1
IN	Marshall	23.1	3.9	IA	Bremer	24.0	5.8
IN	Martin	23.3	6.0	IA	Buchanan	28.9	6.4
IN	Monroe	21.8	5.0	IA	Buena Vista	21.8	5.4
IN	Montgomery	22.9	5.5	IA	Butler	23.3	5.7
IN	Morgan	22.7	5.6	IA	Calhoun	22.0	5.9
IN	Orange	24.0	6.4	IA	Carroll	22.2	5.7
IN	Owen	24.2	5.7	IA	Cass	22.8	6.8
IN	Parke	23.5	6.2	IA	Cedar	21.5	5.3
IN	Perry	23.6	5.0	IA	Cerro Gordo	23.2	6.1
IN	Pike	25.8	5.9	IA	Cherokee	20.6	5.0
IN	Porter	20.7	3.8	IA	Chickasaw	23.7	6.2

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
IA	Clarke	24.4	6.3	IA	Madison	22.6	5.9
IA	Clay	18.4	4.8	IA	Mahaska	23.3	6.5
IA	Clayton	22.3	5.0	IA	Marion	23.5	6.4
IA	Clinton	21.3	5.3	IA	Marshall	21.3	5.6
IA	Crawford	21.2	5.8	IA	Mitchell	23.3	5.8
IA	Dallas	22.7	5.4	IA	Monona	20.8	5.1
IA	Davis	24.1	7.0	IA	Monroe	23.4	6.4
IA	Decatur	23.7	6.1	IA	Montgomery	24.0	6.5
IA	Delaware	23.2	6.0	IA	Muscatine	22.8	6.4
IA	Des Moines	21.9	6.4	IA	O'Brien	19.9	4.4
IA	Dickinson	20.5	5.2	IA	Osceola	19.8	4.5
IA	Dubuque	22.3	5.6	IA	Page	23.8	5.6
IA	Emmet	20.1	5.3	IA	Palo Alto	21.2	5.4
IA	Fayette	24.5	5.6	IA	Plymouth	19.3	5.0
IA	Floyd	23.0	5.8	IA	Pocahontas	21.8	5.4
IA	Franklin	24.0	5.6	IA	Polk	22.2	6.0
IA	Fremont	22.7	6.1	IA	Pottawattamie	23.1	6.1
IA	Greene	21.9	5.5	IA	Poweshiek	23.0	6.2
IA	Grundy	22.9	6.1	IA	Ringgold	23.4	6.1
IA	Guthrie	23.9	6.1	IA	Sac	21.4	5.4
IA	Hamilton	22.7	6.6	IA	Scott	21.1	5.4
IA	Hancock	21.6	5.2	IA	Shelby	22.6	5.5
IA	Hardin	23.3	5.8	IA	Sioux	19.2	4.4
IA	Harrison	22.1	5.1	IA	Story	23.8	6.3
IA	Henry	22.7	7.2	IA	Tama	23.0	6.4
IA	Howard	23.2	5.4	IA	Taylor	24.5	5.7
IA	Humboldt	23.4	5.3	IA	Union	23.4	6.5
IA	Ida	21.4	4.8	IA	Van Buren	23.5	7.1
IA	Iowa	23.7	7.1	IA	Wapello	22.8	6.4
IA	Jackson	21.5	5.5	IA	Warren	23.1	6.2
IA	Jasper	24.6	5.8	IA	Washington	22.1	6.9
IA	Jefferson	22.7	6.7	IA	Wayne	23.7	6.8
IA	Johnson	21.6	6.3	IA	Webster	23.1	5.7
IA	Jones	23.3	6.6	IA	Winnebago	22.6	5.6
IA	Keokuk	22.6	7.0	IA	Winneshiek	22.7	5.6
IA	Kossuth	20.8	4.7	IA	Woodbury	18.5	4.2
IA	Lee	22.7	6.5	IA	Worth	22.5	6.1
IA	Linn	24.7	6.2	IA	Wright	22.7	5.7
IA	Louisa	23.3	6.4	KS	Allen	26.3	7.6
IA	Lucas	24.0	6.1	KS	Anderson	24.4	6.5
IA	Lyon	18.9	5.0	KS	Atchison	23.6	6.9

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
KS	Barber	16.6	5.8	KS	Johnson	22.6	6.4
KS	Barton	17.4	5.4	KS	Kearny	13.0	4.2
KS	Bourbon	25.0	7.4	KS	Kingman	19.4	6.1
KS	Brown	23.9	6.9	KS	Kiowa	16.0	4.6
KS	Butler	23.1	6.9	KS	Labette	24.0	6.1
KS	Chase	22.6	6.9	KS	Lane	14.7	4.5
KS	Chautauqua	23.2	6.8	KS	Leavenworth	25.4	6.8
KS	Cherokee	24.4	7.0	KS	Lincoln	19.0	6.4
KS	Cheyenne	12.8	3.5	KS	Logan	12.6	3.0
KS	Clark	15.0	4.5	KS	Lyon	24.1	7.2
KS	Clay	20.7	6.4	KS	Mcpherson	20.2	6.6
KS	Cloud	19.7	6.2	KS	Marion	21.5	6.9
KS	Coffey	23.0	7.1	KS	Marshall	22.0	6.5
KS	Comanche	16.8	4.5	KS	Meade	15.2	4.8
KS	Cowley	21.0	6.6	KS	Miami	24.4	6.7
KS	Crawford	26.0	7.5	KS	Mitchell	18.0	5.8
KS	Decatur	15.6	4.0	KS	Montgomery	23.8	6.5
KS	Dickinson	21.5	6.1	KS	Morris	20.7	7.1
KS	Doniphan	23.8	6.8	KS	Morton	12.4	3.6
KS	Douglas	22.9	6.5	KS	Nemaha	23.3	6.9
KS	Elk	23.2	7.3	KS	Neosho	33.7	9.4
KS	Ellis	16.3	5.0	KS	Ness	15.1	4.4
KS	Ellsworth	18.5	5.3	KS	Norton	16.4	4.1
KS	Finney	13.4	4.2	KS	Osage	23.5	7.0
KS	Ford	14.8	4.6	KS	Ottawa	19.8	6.8
KS	Franklin	24.6	6.8	KS	Pawnee	16.7	5.1
KS	Gearry	19.9	6.0	KS	Phillips	17.0	4.9
KS	Gove	17.1	5.6	KS	Pottawatomie	22.5	6.6
KS	Graham	16.2	4.9	KS	Pratt	16.8	5.0
KS	Grant	12.0	3.7	KS	Rawlins	15.0	4.2
KS	Gray	14.6	4.3	KS	Reno	20.2	6.5
KS	Greeley	14.6	4.1	KS	Republic	20.5	5.7
KS	Greenwood	23.8	8.5	KS	Rice	18.3	5.8
KS	Hamilton	11.6	3.5	KS	Riley	22.4	6.4
KS	Harper	19.1	6.4	KS	Rooks	17.3	5.5
KS	Harvey	20.2	6.8	KS	Rush	17.7	5.7
KS	Haskell	13.2	4.0	KS	Russell	17.2	5.6
KS	Hodgeman	15.3	5.0	KS	Saline	27.2	8.6
KS	Jackson	23.8	6.3	KS	Scott	14.0	3.6
KS	Jefferson	24.4	6.5	KS	Sedgwick	21.6	7.0
KS	Jewell	17.8	4.9	KS	Seward	13.2	3.8



State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
KS	Shawnee	21.8	6.0	KY	Harlan	23.9	4.6
KS	Sheridan	15.1	4.6	KY	Harrison	21.7	5.2
KS	Sherman	13.9	3.7	KY	Henderson	21.8	4.7
KS	Smith	17.4	4.9	KY	Hopkins	22.5	5.2
KS	Stafford	17.0	5.2	KY	Jefferson	21.6	5.1
KS	Stanton	12.7	3.3	KY	Johnson	22.2	4.4
KS	Stevens	13.2	4.1	KY	Knott	21.4	4.8
KS	Sumner	21.3	7.3	KY	Knox	24.3	5.0
KS	Thomas	14.6	4.3	KY	Larue	24.8	5.7
KS	Trego	15.7	4.5	KY	Laurel	23.6	4.9
KS	Wabaunsee	23.5	7.0	KY	Lawrence	19.6	4.3
KS	Wallace	13.7	3.4	KY	Lee	19.8	4.3
KS	Washington	21.8	6.3	KY	Livingston	22.8	6.7
KS	Wichita	13.2	3.9	KY	Logan	23.6	5.2
KS	Wilson	23.8	7.8	KY	Lyon	20.4	5.3
KS	Woodson	23.9	7.2	KY	Mccracken	22.8	5.6
KS	Wyandotte	24.1	7.0	KY	Mccreary	24.4	5.4
KY	Allen	24.0	5.5	KY	Mclean	20.6	4.9
KY	Boone	21.1	5.0	KY	Madison	23.3	5.0
KY	Boyd	21.5	4.7	KY	Marion	23.7	6.2
KY	Boyle	22.7	5.4	KY	Marshall	22.5	5.3
KY	Breathitt	21.2	5.1	KY	Martin	19.8	4.0
KY	Breckinridge	23.8	5.9	KY	Mason	22.2	5.1
KY	Bullitt	23.6	6.3	KY	Meade	25.9	5.0
KY	Butler	22.6	6.0	KY	Montgomery	22.7	5.1
KY	Caldwell	21.7	5.9	KY	Morgan	22.0	4.3
KY	Calloway	23.9	5.4	KY	Nelson	23.7	5.6
KY	Carter	23.1	4.3	KY	Ohio	22.4	5.1
KY	Christian	20.0	4.9	KY	Oldham	25.1	5.4
KY	Clay	24.3	5.2	KY	Owsley	23.1	4.8
KY	Edmonson	23.6	5.1	KY	Perry	21.5	4.6
KY	Elliott	22.4	4.6	KY	Powell	19.4	4.9
KY	Estill	20.4	5.2	KY	Pulaski	23.9	5.3
KY	Fayette	22.7	5.2	KY	Rockcastle	23.5	4.5
KY	Franklin	22.5	5.2	KY	Rowan	23.6	5.0
KY	Gallatin	22.1	5.5	KY	Russell	24.9	5.8
KY	Garrard	25.4	5.4	KY	Warren	22.6	5.7
KY	Grayson	22.7	5.1	KY	Wayne	23.3	4.7
KY	Green	24.6	5.7	KY	Webster	21.8	4.7
KY	Greenup	20.7	4.6	KY	Woodford	23.6	5.6
KY	Hardin	24.5	6.2	LA	Acadia	29.3	7.5

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
LA	Allen	28.4	7.6	LA	Tangipahoa	29.8	6.8
LA	Assumption	31.0	7.4	LA	Tensas	22.6	6.7
LA	Avoyelles	26.5	7.1	LA	Terrebonne	34.9	8.9
LA	Beauregard	26.2	8.0	LA	Union	21.9	6.3
LA	Bienville	25.2	7.6	LA	Vermilion	32.4	8.6
LA	Bossier	20.7	6.6	LA	Vernon	22.0	6.5
LA	Caddo	20.0	5.7	LA	Webster	22.7	7.7
LA	Calcasieu	23.2	6.3	LA	West Baton Rouge	30.5	7.7
LA	Caldwell	23.2	7.2	ME	Androscoggin	21.8	5.0
LA	Cameron	29.6	7.5	ME	Aroostook	19.6	3.7
LA	Catahoula	25.1	6.2	ME	Cumberland	20.7	5.2
LA	Claiborne	23.6	7.4	ME	Franklin	20.1	3.9
LA	De Soto	22.2	6.4	ME	Hancock	21.4	5.1
LA	East Baton Rouge	28.9	7.7	ME	Kennebec	19.8	4.7
LA	East Carroll	23.3	6.3	ME	Knox	21.1	5.1
LA	East Feliciana	28.4	7.4	ME	Lincoln	20.8	4.6
LA	Franklin	24.7	6.3	ME	Oxford	21.0	4.4
LA	Grant	24.3	7.0	ME	Penobscot	20.3	4.2
LA	Iberia	31.9	6.9	ME	Piscataquis	20.5	4.4
LA	Iberville	29.7	8.4	ME	Somerset	20.4	4.1
LA	Jefferson	33.7	8.1	ME	Waldo	20.6	5.3
LA	Jefferson Davis	29.2	7.7	ME	Washington	19.3	4.4
LA	Lafayette	29.8	7.0	ME	York	21.7	5.6
LA	Lafourche	34.4	7.2	MD	Allegany	20.4	4.4
LA	La Salle	29.2	7.5	MD	Anne Arundel	19.5	5.5
LA	Lincoln	23.0	7.1	MD	Baltimore	19.9	5.4
LA	Madison	19.2	5.2	MD	Calvert	22.6	6.7
LA	Morehouse	23.3	7.7	MD	Carroll	20.5	5.1
LA	Natchitoches	22.9	7.4	MD	Frederick	22.2	5.4
LA	Orleans	25.2	6.7	MD	Garrett	22.4	4.6
LA	Ouachita	23.4	6.9	MD	Harford	22.4	6.1
LA	Plaquemines	34.9	8.2	MD	Kent	21.3	5.4
LA	Pointe Coupee	27.8	9.2	MD	Montgomery	20.3	5.6
LA	Rapides	23.6	5.4	MD	Prince George'S	21.3	5.1
LA	Richland	25.8	7.5	MD	Queen Anne'S	25.7	6.5
LA	Sabine	20.3	5.4	MD	St. Mary'S	22.8	6.2
LA	St. John The Baptist	31.8	9.3	MD	Somerset	23.5	6.7
LA	St. Landry	27.7	7.5	MD	Talbot	22.2	6.1
LA	St. Martin	34.9	8.4	MD	Washington	19.2	4.8
LA	St. Mary	29.3	6.8	MD	Wicomico	22.1	4.8
LA	St. Tammany	29.3	8.1	MD	Worcester	19.4	5.0

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
MA	Barnstable	17.8	4.2	MI	Houghton	14.3	3.6
MA	Berkshire	22.0	4.7	MI	Huron	17.2	3.4
MA	Bristol	19.5	4.9	MI	Ingham	17.5	3.8
MA	Dukes	17.9	4.3	MI	Ionia	18.5	3.6
MA	Essex	20.5	5.2	MI	Iosco	16.6	2.7
MA	Franklin	20.0	4.4	MI	Iron	20.2	4.0
MA	Hampden	21.9	4.7	MI	Isabella	17.9	3.7
MA	Hampshire	21.1	5.2	MI	Jackson	17.3	3.4
MA	Middlesex	20.5	5.1	MI	Kalamazoo	18.1	3.6
MA	Norfolk	20.9	4.9	MI	Kalkaska	18.0	3.0
MA	Plymouth	21.1	4.9	MI	Kent	18.2	3.8
MA	Suffolk	20.5	5.7	MI	Keweenaw	15.9	4.3
MA	Worcester	21.5	4.6	MI	Lake	18.6	5.1
MI	Alcona	19.9	3.1	MI	Lapeer	17.6	4.4
MI	Alger	17.4	3.7	MI	Leelanau	16.3	2.8
MI	Allegan	16.4	4.6	MI	Lenawee	19.1	3.8
MI	Alpena	16.1	2.9	MI	Livingston	19.1	3.9
MI	Arenac	16.8	3.3	MI	Luce	15.5	3.2
MI	Baraga	17.7	3.6	MI	Mackinac	15.2	3.1
MI	Barry	18.7	4.1	MI	Macomb	18.3	3.5
MI	Bay	17.0	2.9	MI	Manistee	17.5	3.7
MI	Benzie	17.9	3.4	MI	Marquette	16.3	3.2
MI	Berrien	19.3	3.9	MI	Mason	17.7	4.6
MI	Branch	20.1	4.5	MI	Mecosta	18.3	4.3
MI	Calhoun	18.6	4.1	MI	Midland	16.2	3.0
MI	Cass	20.5	4.1	MI	Missaukee	17.0	3.3
MI	Charlevoix	16.4	3.0	MI	Monroe	20.7	3.8
MI	Cheboygan	15.9	3.7	MI	Montcalm	18.2	3.6
MI	Chippewa	17.0	3.1	MI	Montmorency	14.8	3.0
MI	Clinton	17.3	3.3	MI	Muskegon	16.5	3.6
MI	Crawford	18.4	3.9	MI	Newaygo	18.7	3.7
MI	Delta	17.2	3.5	MI	Oakland	15.8	3.4
MI	Dickinson	15.9	3.9	MI	Oceana	17.9	4.3
MI	Eaton	18.1	3.6	MI	Ogemaw	17.0	3.0
MI	Emmet	17.3	3.1	MI	Ontonagon	18.9	3.5
MI	Genesee	18.7	3.9	MI	Oscoda	15.5	3.1
MI	Gladwin	17.7	3.2	MI	Otsego	15.7	2.6
MI	Gogebic	19.5	3.7	MI	Ottawa	19.2	5.2
MI	Grand Traverse	17.2	2.9	MI	Presque Isle	17.0	3.0
MI	Gratiot	17.4	3.7	MI	Roscommon	15.0	3.2
MI	Hillsdale	20.5	4.0	MI	Saginaw	18.2	3.4

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
MI	St. Clair	16.5	3.2	MN	Koochiching	16.7	3.3
MI	St. Joseph	20.3	4.2	MN	Lac Qui Parle	17.8	4.5
MI	Sanilac	18.0	3.8	MN	Lake	17.7	2.9
MI	Schoolcraft	17.2	4.1	MN	Lake Of The Woods	17.3	4.1
MI	Shiawassee	16.7	4.0	MN	Lyon	18.3	4.8
MI	Tuscola	17.3	3.3	MN	McLeod	19.7	4.3
MI	Van Buren	19.0	4.7	MN	Mahnomen	16.6	3.7
MI	Washtenaw	18.4	3.6	MN	Marshall	15.3	3.6
MI	Wayne	18.1	3.7	MN	Martin	20.9	5.3
MN	Aitkin	19.7	4.5	MN	Meeker	18.8	4.7
MN	Anoka	22.1	4.8	MN	Mille Lacs	20.5	5.3
MN	Becker	18.7	4.1	MN	Morrison	18.4	4.1
MN	Beltrami	18.0	3.7	MN	Mower	22.4	5.3
MN	Benton	15.8	3.8	MN	Murray	19.9	5.2
MN	Big Stone	17.0	4.0	MN	Nicollet	21.0	5.8
MN	Blue Earth	23.4	5.0	MN	Nobles	19.4	4.7
MN	Brown	19.2	4.4	MN	Norman	17.1	3.9
MN	Carlton	20.1	4.3	MN	Olmsted	21.4	4.9
MN	Carver	17.8	4.8	MN	Otter Tail	19.0	3.8
MN	Cass	18.3	3.7	MN	Pennington	17.0	4.4
MN	Chippewa	17.7	4.7	MN	Pine	21.2	4.5
MN	Chisago	21.3	5.1	MN	Pipestone	18.2	4.6
MN	Clay	17.4	4.4	MN	Polk	16.0	3.3
MN	Clearwater	18.5	4.4	MN	Pope	17.6	4.6
MN	Cook	16.7	3.3	MN	Ramsey	20.3	4.6
MN	Cottonwood	19.7	4.4	MN	Red Lake	16.5	4.5
MN	Crow Wing	17.2	4.1	MN	Redwood	18.5	4.4
MN	Dakota	21.2	5.0	MN	Renville	20.2	5.0
MN	Douglas	17.5	4.6	MN	Rice	21.8	4.9
MN	Faribault	21.6	5.3	MN	Roseau	15.9	4.0
MN	Fillmore	24.4	5.3	MN	St. Louis	19.0	3.2
MN	Freeborn	22.3	5.5	MN	Scott	21.4	5.9
MN	Goodhue	21.0	4.7	MN	Sherburne	20.4	4.4
MN	Hennepin	22.0	5.0	MN	Sibley	21.0	5.1
MN	Houston	23.6	5.8	MN	Stearns	19.5	4.5
MN	Isanti	20.8	5.8	MN	Steele	21.4	5.0
MN	Itasca	18.9	3.9	MN	Stevens	17.5	4.1
MN	Jackson	19.9	4.3	MN	Swift	18.5	4.5
MN	Kanabec	19.7	4.8	MN	Todd	18.9	4.6
MN	Kandiyohi	20.5	5.0	MN	Traverse	17.3	4.2
MN	Kittson	14.2	3.5	MN	Wabasha	21.8	5.2

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
MN	Wadena	18.8	4.3	MS	Monroe	23.1	5.9
MN	Waseca	21.7	5.1	MS	Montgomery	24.5	6.2
MN	Washington	18.8	4.2	MS	Neshoba	24.4	6.7
MN	Watonwan	20.1	4.9	MS	Newton	23.0	6.3
MN	Wilkin	18.4	4.4	MS	Noxubee	23.4	5.8
MN	Winona	21.4	5.1	MS	Oktibbeha	23.4	6.6
MN	Wright	21.6	5.6	MS	Panola	23.3	5.7
MN	Yellow Medicine	18.8	4.4	MS	Pearl River	30.4	7.3
MS	Adams	25.4	7.3	MS	Perry	30.9	7.1
MS	Alcorn	23.4	6.0	MS	Pike	28.2	6.7
MS	Attala	25.1	6.8	MS	Pontotoc	24.7	6.2
MS	Benton	24.8	6.6	MS	Prentiss	23.6	6.5
MS	Bolivar	23.9	6.4	MS	Quitman	23.7	7.0
MS	Calhoun	24.1	7.0	MS	Rankin	23.3	6.5
MS	Carroll	22.4	6.3	MS	Scott	26.4	6.4
MS	Claiborne	24.1	6.5	MS	Sharkey	22.3	7.0
MS	Clarke	28.9	6.7	MS	Simpson	25.3	6.1
MS	Coahoma	22.4	6.6	MS	Smith	22.7	5.8
MS	Copiah	26.6	6.0	MS	Stone	30.6	7.3
MS	Covington	25.6	5.9	MS	Sunflower	22.9	6.4
MS	Desoto	24.1	5.4	MS	Tallahatchie	25.5	7.1
MS	Forrest	23.5	5.9	MS	Tate	23.3	5.8
MS	Grenada	24.7	6.3	MS	Tippah	23.9	5.1
MS	Hancock	32.9	8.6	MS	Tishomingo	24.3	6.6
MS	Harrison	30.9	7.8	MS	Tunica	22.6	5.7
MS	Hinds	20.0	5.8	MS	Warren	30.1	7.2
MS	Holmes	24.5	6.9	MS	Washington	20.5	6.3
MS	Humphreys	24.0	7.1	MS	Wayne	25.8	5.6
MS	Itawamba	25.5	6.3	MS	Webster	24.3	6.4
MS	Jackson	30.1	8.3	MS	Wilkinson	28.5	7.2
MS	Jones	25.7	6.0	MS	Winston	24.9	6.9
MS	Lafayette	24.3	5.7	MS	Yalobusha	24.2	5.9
MS	Lauderdale	23.7	7.7	MS	Yazoo	24.2	6.3
MS	Lawrence	26.5	6.6	MO	Adair	23.6	7.9
MS	Leake	23.6	6.4	MO	Atchison	22.8	6.4
MS	Lee	23.9	6.3	MO	Audrain	23.6	7.7
MS	Lincoln	26.4	6.3	MO	Barry	23.5	5.9
MS	Lowndes	22.0	6.1	MO	Barton	27.2	7.6
MS	Madison	23.2	6.6	MO	Bates	24.7	7.3
MS	Marion	27.9	6.2	MO	Benton	22.0	6.9
MS	Marshall	23.9	5.4	MO	Bollinger	22.7	5.3

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
MO	Boone	23.5	7.1	MO	Macon	22.1	7.3
MO	Butler	19.6	5.2	MO	Madison	22.2	6.3
MO	Caldwell	23.5	6.1	MO	Maries	23.0	6.2
MO	Callaway	20.9	6.3	MO	Marion	22.3	7.5
MO	Cape Girardeau	22.9	5.7	MO	Mercer	23.5	6.5
MO	Carroll	24.2	7.2	MO	Miller	23.1	6.9
MO	Cass	22.4	6.3	MO	Moniteau	23.4	6.7
MO	Cedar	24.2	6.5	MO	Monroe	25.7	8.1
MO	Chariton	23.7	6.6	MO	Morgan	23.8	7.2
MO	Christian	22.9	5.8	MO	New Madrid	22.9	6.3
MO	Clay	22.8	6.1	MO	Newton	27.5	6.1
MO	Cole	22.2	6.9	MO	Nodaway	23.9	6.5
MO	Dade	24.1	6.3	MO	Oregon	21.6	5.7
MO	Dallas	22.8	5.3	MO	Osage	23.3	7.8
MO	Daviess	25.5	7.2	MO	Ozark	21.9	5.5
MO	Dekalb	23.6	6.2	MO	Pemiscot	21.6	5.5
MO	Dent	23.1	5.6	MO	Perry	21.8	5.8
MO	Douglas	22.3	5.3	MO	Pettis	21.8	6.8
MO	Dunklin	21.3	5.8	MO	Phelps	23.2	6.6
MO	Franklin	21.6	6.6	MO	Pike	20.5	6.4
MO	Gasconade	21.0	7.0	MO	Platte	22.5	6.5
MO	Gentry	22.0	6.1	MO	Polk	23.4	5.7
MO	Greene	24.9	5.8	MO	Pulaski	22.0	6.0
MO	Grundy	23.6	6.7	MO	Putnam	23.7	7.5
MO	Harrison	24.2	6.8	MO	Ralls	21.3	6.3
MO	Henry	24.9	7.7	MO	Randolph	23.4	7.0
MO	Hickory	21.9	6.3	MO	Ray	26.5	7.3
MO	Holt	24.7	6.8	MO	Reynolds	22.4	7.2
MO	Howard	22.7	7.0	MO	Ripley	22.6	5.2
MO	Howell	19.7	5.0	MO	St. Charles	20.1	5.5
MO	Jackson	25.3	6.2	MO	St. Clair	23.9	6.2
MO	Jasper	24.2	6.0	MO	St. Francois	22.2	6.4
MO	Jefferson	20.8	5.9	MO	St. Louis	20.2	5.3
MO	Johnson	22.1	6.6	MO	Saline	23.9	7.5
MO	Laclede	22.8	7.3	MO	Scotland	22.4	7.6
MO	Lafayette	24.7	7.0	MO	Scott	21.7	5.4
MO	Lawrence	24.0	6.1	MO	Shannon	22.8	5.6
MO	Lewis	22.1	5.8	MO	Shelby	23.1	6.3
MO	Lincoln	20.8	5.9	MO	Stone	23.0	6.1
MO	Linn	26.0	7.3	MO	Sullivan	29.0	8.3
MO	Livingston	23.3	6.2	MO	Taney	21.9	5.6

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
MO	Texas	22.3	5.4	MT	Petroleum	9.7	2.9
MO	Vernon	25.1	7.7	MT	Phillips	9.7	2.8
MO	Warren	21.6	7.0	MT	Pondera	9.2	2.9
MO	Washington	21.0	5.6	MT	Powder River	9.9	2.6
MO	Wayne	21.6	5.1	MT	Powell	9.2	2.2
MO	Webster	22.3	6.2	MT	Prairie	9.8	3.2
MO	Wright	22.5	6.0	MT	Ravalli	7.7	1.7
MT	Beaverhead	7.9	1.9	MT	Richland	10.5	3.0
MT	Big Horn	9.4	2.9	MT	Roosevelt	9.7	2.9
MT	Blaine	9.6	2.4	MT	Rosebud	9.5	2.7
MT	Broadwater	7.8	2.1	MT	Sanders	9.7	2.5
MT	Carbon	10.3	2.8	MT	Sheridan	10.4	3.1
MT	Carter	11.0	3.1	MT	Silver Bow	8.4	2.1
MT	Cascade	10.5	2.8	MT	Stillwater	11.4	2.5
MT	Chouteau	11.1	3.0	MT	Sweet Grass	11.3	3.1
MT	Custer	9.9	3.1	MT	Teton	8.9	2.9
MT	Daniels	11.1	3.0	MT	Toole	9.0	2.9
MT	Dawson	10.9	3.4	MT	Treasure	9.1	2.8
MT	Deer Lodge	8.5	2.6	MT	Valley	11.2	3.1
MT	Fallon	9.5	3.0	MT	Wheatland	10.2	2.7
MT	Fergus	12.9	3.2	MT	Wibaux	10.8	3.2
MT	Flathead	10.4	2.4	MT	Yellowstone	8.8	2.7
MT	Gallatin	10.7	2.0	NE	Adams	18.0	4.2
MT	Garfield	9.1	2.7	NE	Antelope	18.4	4.0
MT	Glacier	11.5	3.6	NE	Arthur	14.9	3.5
MT	Golden Valley	11.4	3.1	NE	Banner	11.3	2.7
MT	Granite	8.5	2.1	NE	Blaine	16.2	4.9
MT	Hill	8.6	2.7	NE	Box Butte	11.3	2.7
MT	Jefferson	7.9	2.2	NE	Boyd	17.1	4.7
MT	Judith Basin	11.7	3.0	NE	Brown	17.2	4.8
MT	Lake	10.2	2.4	NE	Buffalo	18.3	4.9
MT	Lewis And Clark	10.1	2.8	NE	Burt	18.0	4.4
MT	Liberty	8.0	2.5	NE	Butler	19.8	4.9
MT	Lincoln	7.9	2.1	NE	Cass	22.5	6.3
MT	McCone	10.1	3.4	NE	Cedar	18.4	4.9
MT	Madison	9.0	1.9	NE	Chase	14.6	3.9
MT	Meagher	10.2	2.4	NE	Cherry	15.2	3.6
MT	Mineral	8.7	2.1	NE	Cheyenne	13.0	3.1
MT	Missoula	8.5	1.8	NE	Clay	21.0	5.2
MT	Musselshell	9.9	2.9	NE	Colfax	19.1	4.3
MT	Park	10.6	1.9	NE	Cuming	20.3	5.2

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
NE	Custer	16.3	4.1	NE	Pawnee	22.4	6.4
NE	Dawes	13.7	3.5	NE	Perkins	15.4	4.9
NE	Dawson	15.5	4.1	NE	Phelps	18.5	5.3
NE	Deuel	12.8	3.0	NE	Platte	19.4	4.9
NE	Dixon	20.5	4.4	NE	Polk	19.4	5.1
NE	Dodge	20.6	5.1	NE	Red Willow	15.3	4.1
NE	Douglas	19.8	4.9	NE	Richardson	23.6	6.3
NE	Dundy	13.3	3.5	NE	Rock	17.0	4.8
NE	Fillmore	19.4	4.4	NE	Saline	20.3	5.0
NE	Franklin	16.8	5.0	NE	Sarpy	20.0	5.3
NE	Frontier	15.4	4.1	NE	Saunders	19.5	5.1
NE	Furnas	15.5	4.0	NE	Scotts Bluff	10.8	3.2
NE	Gage	21.4	5.4	NE	Seward	19.3	4.6
NE	Garden	14.5	3.2	NE	Sheridan	13.9	3.1
NE	Garfield	17.1	4.1	NE	Sherman	18.1	4.1
NE	Gosper	17.0	4.6	NE	Sioux	13.2	3.2
NE	Grant	12.4	3.2	NE	Stanton	20.1	4.1
NE	Greeley	18.2	4.9	NE	Thayer	20.3	5.0
NE	Hall	18.1	4.8	NE	Thurston	19.7	4.8
NE	Harlan	17.3	4.6	NE	Valley	16.0	3.8
NE	Hayes	15.0	3.9	NE	Washington	21.6	4.8
NE	Hitchcock	15.0	3.9	NE	Wayne	18.5	4.1
NE	Holt	17.5	3.9	NE	Webster	18.6	5.0
NE	Hooker	16.1	4.4	NE	Wheeler	18.7	4.7
NE	Howard	18.0	4.6	NV	Churchill	2.7	1.2
NE	Jefferson	21.5	5.7	NV	Clark	2.1	1.1
NE	Johnson	21.7	6.0	NV	Douglas	3.4	1.7
NE	Kearney	18.4	5.4	NV	Elko	5.2	1.7
NE	Keith	13.9	3.8	NV	Esmeralda	2.5	1.2
NE	Kimball	10.9	2.9	NV	Eureka	4.5	1.7
NE	Knox	19.2	4.3	NV	Humboldt	3.4	1.4
NE	Lancaster	18.6	4.7	NV	Lander	3.8	1.6
NE	Lincoln	14.9	3.9	NV	Lincoln	4.1	1.7
NE	Logan	14.7	3.8	NV	Lyon	2.4	1.2
NE	Madison	19.8	4.0	NV	Mineral	2.5	1.2
NE	Merrick	18.9	4.8	NV	Nye	2.7	1.2
NE	Morrill	13.1	3.3	NV	Pershing	2.9	1.4
NE	Nance	19.2	4.5	NV	Storey	3.1	1.8
NE	Nemaha	22.0	6.4	NV	Washoe	2.8	1.2
NE	Nuckolls	18.8	4.5	NV	White Pine	4.9	1.6
NE	Otoe	21.8	5.8	NV	Carson (City)	2.1	1.3



State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
NH	Belknap	19.7	4.9	NM	Lea	9.5	3.3
NH	Carroll	23.0	5.0	NM	Lincoln	10.7	2.5
NH	Cheshire	20.0	4.4	NM	Los Alamos	11.5	3.4
NH	Coos	21.7	3.9	NM	Luna	5.6	2.1
NH	Grafton	19.3	3.9	NM	Mckinley	7.9	2.5
NH	Hillsborough	19.9	4.9	NM	Mora	13.5	3.4
NH	Merrimack	20.1	4.8	NM	Otero	9.4	2.4
NH	Rockingham	21.3	5.5	NM	Quay	11.6	3.6
NH	Strafford	21.1	5.1	NM	Rio Arriba	7.9	2.1
NH	Sullivan	19.3	4.3	NM	Roosevelt	10.8	3.1
NJ	Atlantic	20.1	4.9	NM	Sandoval	7.9	2.1
NJ	Bergen	22.2	6.1	NM	San Juan	4.8	1.7
NJ	Burlington	20.4	4.9	NM	San Miguel	10.8	2.8
NJ	Cape May	19.1	4.9	NM	Santa Fe	6.9	1.8
NJ	Cumberland	20.3	5.2	NM	Sierra	7.1	2.4
NJ	Essex	22.1	5.9	NM	Socorro	6.4	1.6
NJ	Hudson	23.6	6.4	NM	Taos	9.1	2.5
NJ	Hunterdon	23.5	5.9	NM	Torrance	7.6	2.0
NJ	Mercer	21.4	5.4	NM	Union	12.0	2.8
NJ	Middlesex	23.2	5.5	NM	Valencia	5.2	1.9
NJ	Monmouth	23.6	6.0	NY	Albany	19.6	5.1
NJ	Morris	24.5	5.7	NY	Allegany	19.0	4.3
NJ	Ocean	20.7	4.5	NY	Bronx	23.0	6.4
NJ	Passaic	23.5	6.5	NY	Broome	21.1	4.4
NJ	Somerset	19.1	6.3	NY	Cattaraugus	22.0	4.5
NJ	Sussex	20.3	5.9	NY	Cayuga	18.2	4.2
NJ	Union	24.2	6.3	NY	Chautauqua	19.5	3.9
NJ	Warren	25.1	6.6	NY	Chemung	18.5	4.8
NM	Bernalillo	6.3	1.9	NY	Chenango	20.2	4.3
NM	Catron	7.9	2.1	NY	Clinton	17.8	3.8
NM	Chaves	9.3	3.2	NY	Columbia	19.9	5.7
NM	Cibola	6.9	1.8	NY	Cortland	19.3	4.1
NM	Colfax	11.5	3.0	NY	Delaware	22.9	5.2
NM	Curry	10.6	3.3	NY	Dutchess	22.0	5.3
NM	De Baca	9.2	3.7	NY	Erie	20.7	4.3
NM	Dona Ana	6.5	2.0	NY	Essex	19.2	3.3
NM	Eddy	9.2	3.4	NY	Franklin	19.6	3.4
NM	Grant	8.2	2.2	NY	Genesee	18.1	3.4
NM	Guadalupe	9.7	3.2	NY	Greene	23.6	6.8
NM	Harding	11.4	3.0	NY	Hamilton	19.8	4.2
NM	Hidalgo	6.6	1.9	NY	Herkimer	23.1	3.6

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
NY	Jefferson	17.0	3.5	NC	Bertie	24.5	5.9
NY	Lewis	18.7	3.5	NC	Bladen	27.2	5.8
NY	Livingston	17.0	3.4	NC	Brunswick	29.5	6.9
NY	Madison	20.9	4.7	NC	Buncombe	20.9	4.7
NY	Monroe	16.3	3.7	NC	Burke	22.9	4.7
NY	Nassau	21.2	5.6	NC	Cabarrus	22.3	5.5
NY	New York	22.5	6.9	NC	Caldwell	23.8	5.5
NY	Niagara	16.0	3.4	NC	Carteret	26.6	6.7
NY	Oneida	23.7	3.9	NC	Caswell	19.9	5.0
NY	Onondaga	20.7	5.0	NC	Chatham	22.7	5.1
NY	Ontario	17.3	3.8	NC	Cherokee	25.3	5.0
NY	Orange	21.6	6.0	NC	Chowan	25.1	5.6
NY	Orleans	16.9	3.8	NC	Clay	30.2	6.0
NY	Oswego	17.0	3.7	NC	Cleveland	22.8	5.8
NY	Otsego	20.7	4.4	NC	Columbus	25.7	6.0
NY	Putnam	22.8	5.6	NC	Craven	29.3	6.5
NY	Queens	20.7	5.5	NC	Cumberland	21.3	5.0
NY	Rensselaer	20.6	5.3	NC	Dare	26.1	7.2
NY	St. Lawrence	18.5	3.1	NC	Davidson	21.3	4.6
NY	Saratoga	21.1	5.6	NC	Davie	21.4	4.4
NY	Schenectady	25.5	6.0	NC	Duplin	30.4	5.7
NY	Schoharie	19.9	4.4	NC	Durham	23.1	5.1
NY	Schuyler	17.1	4.2	NC	Edgecombe	23.6	5.3
NY	Steuben	17.8	3.9	NC	Forsyth	20.3	3.6
NY	Suffolk	19.7	5.0	NC	Franklin	23.2	5.5
NY	Sullivan	25.2	6.2	NC	Gaston	18.8	5.1
NY	Tioga	19.0	4.6	NC	Graham	26.3	4.6
NY	Tompkins	19.1	4.2	NC	Granville	23.0	5.6
NY	Ulster	26.4	6.7	NC	Greene	31.3	6.5
NY	Warren	20.1	4.7	NC	Guilford	22.2	4.9
NY	Washington	19.7	4.8	NC	Halifax	22.7	5.7
NY	Wayne	17.9	4.5	NC	Harnett	25.6	6.1
NY	Westchester	24.1	5.8	NC	Haywood	23.7	4.2
NY	Wyoming	21.2	4.3	NC	Henderson	25.3	6.3
NY	Yates	13.1	3.6	NC	Hoke	20.6	5.2
NC	Alamance	20.5	5.0	NC	Hyde	32.9	6.5
NC	Alexander	26.2	4.7	NC	Iredell	21.4	4.2
NC	Anson	22.8	5.5	NC	Jackson	23.1	5.2
NC	Ashe	24.8	5.4	NC	Johnston	23.9	5.5
NC	Avery	26.8	5.5	NC	Lee	22.9	5.0
NC	Beaufort	26.9	5.5	NC	Lenoir	26.9	5.3

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
NC	Lincoln	21.9	6.0	NC	Yancey	29.4	8.6
NC	Mcdowell	26.1	6.9	ND	Adams	9.6	3.0
NC	Macon	30.3	6.4	ND	Barnes	14.3	4.0
NC	Madison	21.4	3.5	ND	Benson	14.4	3.1
NC	Martin	25.7	6.1	ND	Billings	12.1	3.0
NC	Mecklenburg	19.7	5.5	ND	Bottineau	12.7	3.5
NC	Mitchell	32.3	6.5	ND	Bowman	11.6	2.9
NC	Montgomery	22.6	5.5	ND	Burke	13.0	3.9
NC	Nash	15.4	4.5	ND	Burleigh	13.6	3.9
NC	New Hanover	31.6	7.7	ND	Cass	15.8	3.9
NC	Northampton	24.0	5.5	ND	Cavalier	13.9	3.4
NC	Onslow	30.1	6.7	ND	Dickey	15.4	4.3
NC	Orange	19.8	4.5	ND	Divide	11.4	3.6
NC	Pamlico	32.0	6.6	ND	Dunn	12.2	3.1
NC	Pasquotank	24.1	5.9	ND	Emmons	13.3	3.6
NC	Pender	27.8	6.0	ND	Foster	14.6	3.6
NC	Person	21.9	5.7	ND	Golden Valley	11.0	3.2
NC	Pitt	25.8	6.3	ND	Grand Forks	13.4	3.2
NC	Polk	29.0	7.9	ND	Grant	12.4	3.0
NC	Randolph	22.0	4.8	ND	Griggs	15.0	3.8
NC	Richmond	24.3	6.4	ND	Hettinger	12.5	3.3
NC	Robeson	22.8	4.4	ND	Kidder	13.5	4.1
NC	Rockingham	21.8	5.7	ND	Lamoure	14.6	4.1
NC	Rowan	20.6	4.4	ND	Logan	13.7	3.8
NC	Rutherford	23.8	5.5	ND	Mchenry	12.6	3.2
NC	Sampson	25.1	4.9	ND	Mcintosh	14.3	3.7
NC	Scotland	20.3	4.6	ND	Mckenzie	11.1	3.2
NC	Stanly	23.8	6.8	ND	Mclean	13.0	3.1
NC	Stokes	22.6	4.6	ND	Mercer	8.6	2.6
NC	Surry	23.2	5.7	ND	Morton	12.8	3.3
NC	Swain	24.7	5.0	ND	Mountrail	13.6	4.2
NC	Transylvania	33.6	8.0	ND	Nelson	14.0	3.1
NC	Union	18.8	4.2	ND	Oliver	13.2	3.3
NC	Vance	22.4	5.4	ND	Pembina	14.1	3.5
NC	Wake	22.5	4.3	ND	Pierce	13.4	3.5
NC	Warren	22.8	5.7	ND	Ramsey	13.4	3.5
NC	Washington	27.1	5.9	ND	Ransom	15.3	4.3
NC	Watauga	26.4	5.2	ND	Renville	12.6	3.5
NC	Wilkes	24.0	4.7	ND	Richland	14.9	4.0
NC	Wilson	24.4	6.5	ND	Rolette	16.1	4.2
NC	Yadkin	21.5	4.3	ND	Sargent	15.3	4.4

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
ND	Sheridan	13.1	3.5	OH	Knox	22.4	4.9
ND	Stark	12.0	2.8	OH	Lake	18.7	5.0
ND	Stutsman	14.0	3.7	OH	Lawrence	23.9	4.5
ND	Towner	13.2	3.9	OH	Licking	19.7	4.1
ND	Traill	14.6	3.5	OH	Logan	20.6	4.9
ND	Walsh	13.9	3.5	OH	Lorain	17.8	4.5
ND	Ward	12.0	3.1	OH	Lucas	17.6	4.2
ND	Wells	13.3	3.7	OH	Madison	21.5	5.4
ND	Williams	10.6	2.9	OH	Marion	18.7	4.2
OH	Allen	18.2	3.9	OH	Medina	20.3	4.8
OH	Ashtabula	19.7	4.2	OH	Mercer	19.7	5.5
OH	Athens	20.4	4.7	OH	Miami	24.4	5.6
OH	Butler	19.2	5.1	OH	Monroe	22.8	5.1
OH	Champaign	22.1	5.2	OH	Montgomery	20.1	4.5
OH	Clark	22.3	5.4	OH	Morgan	21.9	5.4
OH	Clermont	20.8	5.8	OH	Muskingum	20.4	4.6
OH	Clinton	20.6	5.2	OH	Noble	22.7	5.0
OH	Columbiana	20.1	4.9	OH	Paulding	19.1	4.2
OH	Coshocton	21.4	4.8	OH	Perry	21.7	5.8
OH	Crawford	21.3	4.3	OH	Pickaway	21.0	5.2
OH	Cuyahoga	18.1	3.6	OH	Pike	21.1	4.9
OH	Darke	20.3	4.8	OH	Portage	21.2	5.1
OH	Defiance	17.7	3.8	OH	Preble	21.2	4.7
OH	Fairfield	18.8	4.8	OH	Putnam	19.6	4.5
OH	Fayette	20.8	4.9	OH	Richland	21.8	4.2
OH	Franklin	20.8	4.6	OH	Sandusky	19.1	3.6
OH	Fulton	18.9	4.3	OH	Scioto	21.3	4.7
OH	Gallia	21.1	4.6	OH	Seneca	19.9	4.5
OH	Geauga	22.8	4.8	OH	Shelby	20.8	5.3
OH	Greene	21.9	5.6	OH	Summit	19.1	4.5
OH	Guernsey	21.0	5.1	OH	Trumbull	20.2	4.3
OH	Hamilton	23.0	5.4	OH	Tuscarawas	20.0	4.6
OH	Hancock	19.8	4.1	OH	Union	20.4	4.7
OH	Hardin	19.9	5.3	OH	Van Wert	20.7	4.6
OH	Henry	19.5	4.4	OH	Warren	20.4	5.0
OH	Highland	22.2	5.2	OH	Washington	21.9	4.4
OH	Hocking	22.5	6.4	OH	Wayne	18.7	4.3
OH	Holmes	21.6	4.7	OH	Williams	19.4	3.8
OH	Huron	20.3	4.2	OH	Wood	18.0	3.7
OH	Jackson	21.5	4.9	OH	Wyandot	20.1	5.1
OH	Jefferson	21.2	4.8	OK	Alfalfa	18.4	6.1

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
OK	Atoka	22.9	7.0	OK	Mayes	23.5	7.0
OK	Beaver	14.2	3.8	OK	Murray	20.7	6.2
OK	Beckham	15.7	4.8	OK	Muskogee	21.1	6.3
OK	Blaine	17.7	5.4	OK	Noble	20.6	6.2
OK	Bryan	21.5	7.8	OK	Okfuskee	22.5	6.0
OK	Caddo	18.1	6.0	OK	Oklahoma	18.0	4.9
OK	Carter	19.1	6.2	OK	Osage	24.4	7.2
OK	Cherokee	23.5	6.4	OK	Ottawa	23.5	5.9
OK	Cimarron	12.3	3.8	OK	Pawnee	21.7	6.1
OK	Cleveland	20.8	6.5	OK	Payne	20.7	6.1
OK	Coal	23.7	6.7	OK	Pittsburg	21.0	6.7
OK	Comanche	15.2	4.9	OK	Pontotoc	21.4	6.9
OK	Cotton	18.6	5.8	OK	Pushmataha	23.6	6.6
OK	Craig	23.8	7.2	OK	Rogers	22.9	7.0
OK	Creek	22.1	6.8	OK	Seminole	21.8	7.2
OK	Custer	18.1	6.4	OK	Sequoyah	23.2	6.2
OK	Delaware	22.7	6.3	OK	Stephens	19.8	5.9
OK	Dewey	17.1	5.1	OK	Texas	10.8	2.4
OK	Ellis	13.5	3.9	OK	Tillman	13.1	4.4
OK	Garfield	20.1	6.1	OK	Tulsa	21.8	6.1
OK	Garvin	19.6	6.2	OK	Washita	15.0	4.9
OK	Grady	19.1	5.9	OK	Woods	16.6	4.7
OK	Grant	21.1	7.6	OK	Woodward	15.4	4.0
OK	Greer	16.0	5.3	OR	Baker	5.2	1.7
OK	Harmon	15.1	5.0	OR	Benton	9.0	3.0
OK	Harper	16.7	5.8	OR	Clackamas	15.5	3.5
OK	Haskell	23.9	6.6	OR	Clatsop	15.6	3.8
OK	Hughes	22.0	6.8	OR	Columbia	10.2	2.8
OK	Jackson	14.3	5.1	OR	Coos	10.5	3.7
OK	Johnston	32.7	11.4	OR	Crook	4.4	1.5
OK	Kay	21.7	6.5	OR	Curry	13.9	5.2
OK	Kingfisher	19.4	6.2	OR	Deschutes	4.2	1.4
OK	Kiowa	16.3	5.2	OR	Douglas	9.5	2.9
OK	Le Flore	22.7	6.3	OR	Gilliam	3.7	1.2
OK	Lincoln	21.2	6.4	OR	Grant	5.7	1.6
OK	Logan	17.5	5.6	OR	Harney	4.0	1.3
OK	Love	19.5	6.0	OR	Hood River	5.1	1.6
OK	Mcclain	19.9	6.3	OR	Jackson	6.1	2.0
OK	Mccurtain	23.7	6.3	OR	Jefferson	4.1	1.5
OK	Major	18.7	5.3	OR	Josephine	6.5	2.9
OK	Marshall	20.9	6.9	OR	Klamath	6.2	1.7

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
OR	Lake	4.5	1.4	PA	Elk	22.9	4.5
OR	Lane	12.8	3.4	PA	Erie	19.7	4.2
OR	Lincoln	17.4	4.5	PA	Fayette	22.8	4.6
OR	Linn	14.5	3.7	PA	Forest	23.2	4.8
OR	Malheur	4.0	1.4	PA	Franklin	21.8	4.9
OR	Marion	12.8	3.4	PA	Greene	21.2	5.2
OR	Morrow	4.1	1.2	PA	Huntingdon	20.0	4.0
OR	Multnomah	11.1	2.9	PA	Indiana	22.6	4.0
OR	Polk	13.6	4.3	PA	Lancaster	20.7	4.8
OR	Sherman	3.3	1.2	PA	Lawrence	20.9	5.1
OR	Tillamook	17.8	4.6	PA	Lebanon	22.4	5.4
OR	Umatilla	5.2	1.3	PA	Lehigh	22.5	5.5
OR	Union	8.0	2.1	PA	Luzerne	21.5	5.0
OR	Wallowa	8.1	2.1	PA	Lycoming	21.1	4.7
OR	Wasco	3.0	1.1	PA	Mckean	22.8	4.4
OR	Washington	7.3	2.3	PA	Mercer	22.6	4.3
OR	Wheeler	5.4	1.7	PA	Mifflin	20.5	4.7
OR	Yamhill	7.6	2.5	PA	Monroe	22.6	6.1
PA	Adams	20.0	4.7	PA	Montgomery	21.1	5.1
PA	Allegheny	18.7	3.2	PA	Northumberland	21.6	5.4
PA	Armstrong	22.3	4.7	PA	Philadelphia	22.1	5.5
PA	Beaver	20.0	4.0	PA	Pike	21.3	5.8
PA	Bedford	19.3	4.5	PA	Potter	21.6	4.1
PA	Berks	22.1	4.8	PA	Snyder	19.0	4.9
PA	Blair	20.8	4.1	PA	Somerset	23.6	4.4
PA	Bradford	18.2	4.3	PA	Sullivan	22.7	5.6
PA	Bucks	22.8	5.4	PA	Susquehanna	21.6	4.6
PA	Butler	21.5	4.6	PA	Tioga	18.8	4.0
PA	Cambria	21.3	3.7	PA	Union	21.8	5.1
PA	Cameron	21.7	4.3	PA	Venango	23.1	4.7
PA	Carbon	29.0	6.8	PA	Warren	24.4	4.6
PA	Centre	20.0	4.3	PA	Washington	19.2	3.8
PA	Chester	22.7	5.3	PA	Wayne	23.5	5.2
PA	Clarion	23.6	5.4	PA	Westmoreland	23.2	3.7
PA	Clearfield	17.4	3.9	PA	York	19.6	4.8
PA	Clinton	22.5	4.4	RI	Kent	19.9	4.9
PA	Columbia	22.1	5.6	RI	Newport	19.0	4.5
PA	Crawford	22.1	4.1	RI	Providence	21.4	5.0
PA	Cumberland	22.2	4.8	RI	Washington	21.3	5.1
PA	Dauphin	23.0	5.3	SC	Abbeville	20.6	5.8
PA	Delaware	20.2	6.3	SC	Allendale	25.8	5.5

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
SC	Anderson	20.6	4.9	SD	Bennett	13.7	3.3
SC	Bamberg	24.3	6.7	SD	Bon Homme	17.2	4.1
SC	Barnwell	22.8	5.3	SD	Brookings	18.5	4.4
SC	Beaufort	27.4	6.3	SD	Brown	14.8	4.2
SC	Berkeley	27.9	6.0	SD	Brule	14.7	4.0
SC	Calhoun	25.1	5.3	SD	Buffalo	13.9	4.2
SC	Charleston	26.1	5.0	SD	Butte	11.7	3.1
SC	Cherokee	21.6	5.7	SD	Campbell	12.6	3.2
SC	Chester	21.8	5.3	SD	Charles Mix	16.4	3.7
SC	Chesterfield	22.9	4.8	SD	Clark	15.8	4.3
SC	Clarendon	26.1	5.6	SD	Clay	18.1	4.3
SC	Colleton	27.2	5.8	SD	Codington	17.1	4.1
SC	Darlington	24.2	4.5	SD	Corson	12.7	2.9
SC	Dillon	23.8	5.8	SD	Custer	13.8	2.9
SC	Dorchester	27.8	6.2	SD	Davison	15.5	4.1
SC	Edgefield	22.2	6.4	SD	Day	15.4	3.7
SC	Fairfield	21.5	4.8	SD	Deuel	17.4	4.1
SC	Florence	24.4	4.7	SD	Dewey	13.0	3.4
SC	Georgetown	26.8	5.4	SD	Edmunds	14.2	3.6
SC	Greenville	27.1	6.4	SD	Fall River	11.8	2.8
SC	Greenwood	17.3	4.8	SD	Faulk	14.3	3.7
SC	Horry	24.4	5.1	SD	Gregory	17.1	4.4
SC	Laurens	20.6	5.4	SD	Haakon	12.8	3.2
SC	Lee	22.7	5.2	SD	Hamlin	17.1	4.4
SC	Lexington	24.1	6.3	SD	Hand	15.0	5.1
SC	Mccormick	20.9	5.2	SD	Hanson	16.5	4.4
SC	Marion	25.5	5.0	SD	Harding	11.0	2.8
SC	Marlboro	24.5	5.6	SD	Hughes	13.8	3.6
SC	Newberry	21.5	5.1	SD	Hutchinson	16.6	4.4
SC	Oconee	29.3	7.4	SD	Hyde	14.2	3.6
SC	Orangeburg	22.2	5.4	SD	Jackson	12.8	3.0
SC	Pickens	23.4	6.0	SD	Jerauld	16.5	4.6
SC	Richland	21.6	4.8	SD	Jones	13.7	4.2
SC	Saluda	21.9	5.6	SD	Kingsbury	17.1	4.2
SC	Spartanburg	22.7	5.4	SD	Lake	17.9	4.4
SC	Sumter	21.3	5.6	SD	Lawrence	17.5	4.6
SC	Union	21.0	4.6	SD	Lincoln	17.7	4.5
SC	Williamsburg	26.5	5.3	SD	Lyman	13.2	3.1
SC	York	18.2	4.8	SD	Mccook	21.6	4.8
SD	Aurora	16.2	4.5	SD	Mcperson	14.7	3.4
SD	Beadle	14.9	4.4	SD	Marshall	15.9	4.3

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
SD	Meade	12.5	3.1	TN	Fayette	23.4	5.3
SD	Mellette	14.0	3.1	TN	Fentress	25.7	5.0
SD	Miner	17.7	5.5	TN	Franklin	22.7	4.6
SD	Minnehaha	19.7	4.2	TN	Gibson	24.2	5.7
SD	Moody	17.4	4.6	TN	Giles	23.4	5.7
SD	Pennington	14.5	3.6	TN	Greene	21.6	4.5
SD	Perkins	12.5	3.0	TN	Grundy	24.8	4.9
SD	Potter	14.0	3.4	TN	Hamblen	19.4	4.0
SD	Roberts	15.9	4.0	TN	Hamilton	24.4	5.4
SD	Sanborn	15.6	3.7	TN	Hardeman	23.0	5.0
SD	Shannon	11.0	2.6	TN	Hardin	24.4	7.0
SD	Spink	15.0	4.0	TN	Hawkins	20.9	4.5
SD	Stanley	11.9	3.3	TN	Haywood	23.2	5.7
SD	Sully	13.5	3.6	TN	Henderson	23.1	5.8
SD	Todd	14.6	3.6	TN	Henry	23.0	6.4
SD	Tripp	13.9	3.8	TN	Hickman	23.6	6.2
SD	Walworth	12.0	3.1	TN	Houston	26.9	6.7
SD	Yankton	17.6	4.6	TN	Jackson	25.6	5.9
SD	Ziebach	12.7	3.3	TN	Jefferson	22.9	4.7
TN	Anderson	22.5	5.4	TN	Johnson	23.4	4.6
TN	Bedford	24.2	4.6	TN	Knox	23.6	4.6
TN	Benton	24.6	5.7	TN	Lauderdale	23.5	6.0
TN	Bledsoe	22.4	5.0	TN	Lawrence	24.5	6.1
TN	Blount	23.8	4.5	TN	Lewis	22.8	5.3
TN	Bradley	23.1	5.8	TN	Lincoln	22.9	5.2
TN	Campbell	23.9	5.0	TN	Loudon	23.2	5.6
TN	Cannon	24.8	5.3	TN	Mcminn	23.5	6.2
TN	Carroll	22.6	6.5	TN	Mcnairy	24.2	5.7
TN	Carter	22.6	4.3	TN	Macon	25.3	5.9
TN	Cheatham	22.3	5.0	TN	Madison	23.1	5.9
TN	Chester	26.5	6.6	TN	Marion	27.0	5.1
TN	Claiborne	22.1	5.7	TN	Marshall	23.6	5.3
TN	Clay	23.9	5.3	TN	Mauzy	24.1	5.3
TN	Cocke	21.6	3.9	TN	Meigs	24.4	5.6
TN	Coffee	23.2	4.7	TN	Monroe	25.4	5.4
TN	Crockett	26.1	6.6	TN	Montgomery	24.0	5.3
TN	Cumberland	25.1	5.7	TN	Moore	27.1	5.6
TN	Davidson	24.7	5.2	TN	Morgan	24.3	5.5
TN	Decatur	24.3	5.9	TN	Obion	22.7	5.6
TN	Dekalb	23.3	4.8	TN	Overton	24.8	5.1
TN	Dickson	24.9	5.4	TN	Perry	25.5	5.7



State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
TN	Pickett	24.9	4.7	TX	Brazos	18.6	5.9
TN	Putnam	25.6	5.6	TX	Brewster	8.8	2.5
TN	Rhea	24.3	5.3	TX	Briscoe	14.4	4.2
TN	Roane	24.6	5.0	TX	Brooks	14.6	6.0
TN	Robertson	22.6	5.3	TX	Brown	15.4	4.9
TN	Rutherford	22.9	4.5	TX	Burleson	17.3	6.2
TN	Scott	25.4	5.6	TX	Burnet	13.7	4.8
TN	Sequatchie	24.0	4.9	TX	Caldwell	17.7	5.9
TN	Sevier	28.3	5.4	TX	Calhoun	19.5	7.5
TN	Shelby	22.9	4.8	TX	Callahan	14.3	5.0
TN	Smith	23.6	5.6	TX	Cameron	13.1	4.4
TN	Stewart	23.2	5.6	TX	Camp	19.8	7.4
TN	Sullivan	20.7	4.2	TX	Carson	13.9	4.2
TN	Sumner	23.2	5.4	TX	Cass	20.7	6.7
TN	Tipton	23.1	5.8	TX	Castro	12.1	4.1
TN	Trousdale	30.7	6.6	TX	Chambers	27.5	9.6
TN	Unicoi	23.7	4.2	TX	Cherokee	20.5	6.9
TN	Van Buren	23.8	4.7	TX	Childress	15.4	5.2
TN	Warren	23.6	5.1	TX	Cochran	11.7	4.3
TN	Wayne	26.0	6.2	TX	Coke	12.6	4.8
TN	Weakley	23.9	5.5	TX	Coleman	15.2	3.8
TN	White	24.7	4.9	TX	Collin	16.1	5.4
TN	Williamson	23.9	5.2	TX	Collingsworth	13.7	4.8
TN	Wilson	24.0	4.9	TX	Colorado	20.9	7.5
TX	Anderson	17.3	5.7	TX	Comal	17.3	6.1
TX	Angelina	19.0	5.6	TX	Comanche	16.1	6.1
TX	Aransas	18.2	7.2	TX	Concho	13.9	4.2
TX	Atascosa	15.2	6.0	TX	Cooke	22.9	7.6
TX	Austin	18.5	6.5	TX	Coryell	16.9	6.1
TX	Bailey	11.5	3.8	TX	Cottle	14.1	5.4
TX	Bandera	17.3	7.2	TX	Crane	8.5	4.0
TX	Bastrop	16.9	5.6	TX	Crockett	11.1	4.5
TX	Baylor	13.8	5.0	TX	Crosby	14.5	4.9
TX	Bee	17.1	6.7	TX	Culberson	5.7	2.3
TX	Bell	13.8	4.4	TX	Dallas	17.4	6.0
TX	Bexar	15.6	5.2	TX	Dawson	10.8	4.6
TX	Blanco	16.5	6.2	TX	Deaf Smith	12.0	4.1
TX	Borden	12.5	4.9	TX	Denton	15.8	6.0
TX	Bosque	17.0	6.7	TX	Dewitt	18.5	6.6
TX	Bowie	21.9	6.9	TX	Dickens	12.9	5.0
TX	Brazoria	22.7	7.9	TX	Dimmit	11.8	5.4

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
TX	Donley	15.0	5.1	TX	Hunt	20.2	7.0
TX	Duval	14.9	5.7	TX	Hutchinson	12.7	3.4
TX	Ector	8.0	3.2	TX	Jack	17.1	6.7
TX	Edwards	13.4	5.9	TX	Jasper	24.2	7.1
TX	Ellis	17.6	5.8	TX	Jeff Davis	10.9	3.3
TX	El Paso	5.6	2.0	TX	Jefferson	27.9	7.8
TX	Erath	16.8	5.1	TX	Jim Hogg	12.8	6.3
TX	Falls	17.6	6.3	TX	Jim Wells	12.7	5.6
TX	Fayette	18.7	6.2	TX	Johnson	17.5	6.2
TX	Fisher	14.3	5.3	TX	Jones	14.8	5.5
TX	Floyd	13.3	5.2	TX	Kaufman	15.1	5.4
TX	Fort Bend	21.0	7.1	TX	Kendall	18.2	8.2
TX	Franklin	20.0	7.3	TX	Kenedy	15.3	5.2
TX	Frio	14.2	6.0	TX	Kent	14.5	5.4
TX	Gaines	10.7	4.3	TX	Kerr	15.7	5.9
TX	Galveston	23.5	8.0	TX	Kimble	13.1	4.5
TX	Garza	13.1	4.6	TX	King	14.2	4.9
TX	Gillespie	16.5	6.5	TX	Kinney	12.8	5.7
TX	Goliad	18.0	5.7	TX	Kleberg	15.5	5.6
TX	Gonzales	18.4	5.9	TX	Knox	14.8	4.9
TX	Gray	15.3	4.2	TX	Lamar	21.2	7.1
TX	Grayson	19.8	6.5	TX	Lamb	11.9	4.2
TX	Gregg	17.6	5.9	TX	Lampasas	15.7	5.4
TX	Guadalupe	11.8	5.4	TX	La Salle	12.1	5.8
TX	Hale	12.5	4.0	TX	Lavaca	19.9	6.4
TX	Hall	13.9	4.2	TX	Lee	16.3	5.7
TX	Hansford	13.2	3.9	TX	Leon	18.3	6.0
TX	Hardin	26.1	6.6	TX	Liberty	25.0	8.0
TX	Harris	23.5	8.6	TX	Lipscomb	14.2	3.7
TX	Harrison	19.0	5.9	TX	Live Oak	13.0	5.3
TX	Hartley	11.9	3.4	TX	Llano	14.7	4.6
TX	Haskell	14.7	5.0	TX	Lubbock	11.9	4.0
TX	Hays	16.9	5.3	TX	Lynn	12.7	4.7
TX	Henderson	18.2	6.8	TX	Mcculloch	14.5	5.2
TX	Hidalgo	13.1	4.6	TX	Mclennan	17.0	5.5
TX	Hill	17.0	6.5	TX	Mcmullen	14.8	6.1
TX	Hockley	12.1	4.4	TX	Madison	19.7	6.1
TX	Hood	16.5	6.0	TX	Marion	20.2	6.9
TX	Hopkins	20.6	7.3	TX	Mason	15.0	5.5
TX	Houston	20.0	6.2	TX	Matagorda	23.0	8.6
TX	Hudspeth	6.4	2.3	TX	Maverick	12.6	6.2

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
TX	Medina	15.0	6.5	TX	Sherman	12.2	3.3
TX	Menard	12.6	4.0	TX	Smith	17.0	6.1
TX	Midland	8.9	3.8	TX	Somervell	16.0	6.0
TX	Mills	15.0	4.8	TX	Starr	12.0	4.9
TX	Montague	18.3	6.2	TX	Stephens	15.4	5.6
TX	Montgomery	18.2	6.6	TX	Sterling	11.4	4.7
TX	Moore	12.0	3.5	TX	Stonewall	13.6	4.8
TX	Morris	20.3	7.1	TX	Sutton	12.7	5.6
TX	Motley	13.9	5.0	TX	Swisher	13.2	3.7
TX	Nacogdoches	20.6	6.3	TX	Tarrant	16.3	5.7
TX	Navarro	16.0	5.3	TX	Taylor	13.4	4.5
TX	Nolan	13.2	5.2	TX	Terrell	6.4	2.8
TX	Nueces	16.6	6.3	TX	Terry	11.7	4.6
TX	Ochiltree	14.1	4.0	TX	Throckmorton	19.5	6.1
TX	Oldham	12.7	3.3	TX	Titus	21.0	7.5
TX	Orange	27.4	8.5	TX	Tom Green	12.0	4.1
TX	Palo Pinto	16.0	6.2	TX	Travis	17.0	5.5
TX	Panola	20.9	6.8	TX	Tyler	23.3	6.6
TX	Parker	19.0	6.2	TX	Upshur	20.6	8.4
TX	Parmer	11.8	3.8	TX	Upton	8.0	3.9
TX	Pecos	7.6	2.9	TX	Val Verde	10.9	4.5
TX	Polk	22.4	6.9	TX	Van Zandt	19.5	6.4
TX	Potter	13.2	3.5	TX	Victoria	24.6	8.0
TX	Presidio	8.1	2.7	TX	Walker	18.3	5.5
TX	Rains	19.1	6.0	TX	Ward	7.2	2.9
TX	Randall	13.3	4.3	TX	Washington	19.2	5.6
TX	Reagan	10.7	4.1	TX	Webb	12.7	5.1
TX	Real	15.1	5.7	TX	Wharton	23.3	7.4
TX	Red River	20.9	7.0	TX	Wheeler	14.8	4.8
TX	Reeves	8.3	3.4	TX	Wichita	16.1	5.4
TX	Refugio	22.4	8.4	TX	Willacy	13.6	5.3
TX	Runnels	13.0	4.2	TX	Williamson	15.9	5.2
TX	Rusk	20.2	6.4	TX	Wilson	15.5	6.5
TX	Sabine	22.0	5.9	TX	Winkler	7.3	3.2
TX	San Augustine	21.3	6.1	TX	Wise	18.0	6.3
TX	San Patricio	19.3	6.9	TX	Wood	18.5	6.4
TX	San Saba	16.2	4.9	TX	Yoakum	12.2	4.4
TX	Schleicher	10.3	4.4	TX	Young	16.2	5.5
TX	Scurry	13.0	4.7	TX	Zavala	11.7	4.9
TX	Shackelford	15.4	5.6	UT	Beaver	9.0	3.2
TX	Shelby	23.1	6.7	UT	Box Elder	6.2	2.1

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
UT	Cache	7.4	2.6	VA	Accomack	20.0	5.4
UT	Carbon	6.0	2.0	VA	Albemarle	22.6	5.2
UT	Daggett	5.7	1.8	VA	Alleghany	18.5	3.8
UT	Davis	8.5	3.0	VA	Amelia	22.0	5.2
UT	Duchesne	4.6	1.9	VA	Appomattox	21.8	6.9
UT	Emery	5.7	1.9	VA	Arlington	19.7	5.2
UT	Garfield	5.6	1.8	VA	Augusta	19.1	5.0
UT	Grand	3.4	1.4	VA	Bath	20.8	4.1
UT	Iron	6.5	1.9	VA	Bland	19.7	4.0
UT	Juab	4.9	1.7	VA	Botetourt	20.8	4.9
UT	Kane	4.4	1.4	VA	Buchanan	22.8	5.7
UT	Millard	4.9	1.7	VA	Campbell	20.0	4.8
UT	Morgan	7.4	3.0	VA	Caroline	20.4	4.9
UT	Piute	4.4	1.5	VA	Carroll	20.9	4.5
UT	Rich	5.8	2.0	VA	Charles	18.3	5.6
UT	Salt Lake	10.4	3.4	VA	Culpeper	27.8	5.7
UT	San Juan	4.7	1.5	VA	Cumberland	20.3	4.2
UT	Sanpete	6.1	1.7	VA	Dickenson	20.5	4.7
UT	Sevier	5.4	1.7	VA	Fairfax	19.3	4.0
UT	Summit	7.4	2.4	VA	Fauquier	24.2	4.6
UT	Tooele	5.3	1.8	VA	Fluvanna	20.3	5.1
UT	Uintah	4.0	1.4	VA	Franklin	22.5	5.7
UT	Utah	7.6	2.7	VA	Frederick	20.5	4.3
UT	Wasatch	6.5	2.1	VA	Fredericksburg	22.8	5.2
UT	Washington	4.7	1.6	VA	Giles	19.5	3.4
UT	Wayne	4.2	1.5	VA	Goochland	20.6	4.7
UT	Weber	8.5	3.0	VA	Greensville	21.9	5.5
VT	Addison	20.9	4.3	VA	Halifax	21.2	5.5
VT	Bennington	20.5	4.2	NC	Halifax	14.9	4.3
VT	Caledonia	21.1	3.9	VA	Hanover	19.5	5.6
VT	Chittenden	22.5	4.2	VA	Henrico	25.1	6.3
VT	Essex	22.9	3.6	VA	Henry	22.8	5.4
VT	Franklin	22.1	3.8	VA	Highland	21.1	4.2
VT	Grand Isle	18.3	3.3	VA	King And Queen	21.5	6.2
VT	Lamoille	24.3	4.6	VA	King William	22.6	6.6
VT	Orange	25.6	4.2	VA	Lee	23.4	5.2
VT	Orleans	26.6	4.6	VA	Loudoun	20.9	5.0
VT	Rutland	20.1	4.8	VA	Louisa	20.9	5.4
VT	Washington	21.2	4.3	VA	Madison	26.6	6.0
VT	Windham	22.3	4.9	VA	Mathews	31.6	6.8
VT	Windsor	23.0	4.8	VA	Mecklenburg	20.9	5.0

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
VA	Montgomery	19.2	3.8	WA	Clark	10.4	2.8
VA	Nelson	21.3	5.5	WA	Columbia	6.0	1.6
VA	Northampton	21.9	5.5	WA	Cowlitz	11.6	3.2
VA	Nottoway	24.2	6.2	WA	Douglas	3.2	1.2
VA	Orange	21.3	5.0	WA	Ferry	7.3	2.4
VA	Page	20.4	5.2	WA	Franklin	2.8	0.9
VA	Patrick	25.5	6.1	WA	Garfield	5.9	1.9
VA	Pittsylvania	21.3	4.8	WA	Grant	2.6	0.9
VA	Prince Edward	19.0	4.8	WA	Grays Harbor	19.5	4.5
VA	Prince George	22.7	6.3	WA	Island	6.7	1.7
VA	Pulaski	18.5	3.5	WA	Jefferson	21.1	4.6
VA	Rappahannock	20.6	5.0	WA	King	17.1	3.6
VA	Richmond	21.8	6.3	WA	Kitsap	9.7	2.9
VA	Roanoke	21.9	4.9	WA	Kittitas	8.8	2.4
VA	Rockbridge	19.6	5.0	WA	Klickitat	3.9	1.2
VA	Rockingham	19.0	5.1	WA	Lewis	10.7	2.7
VA	Russell	21.0	4.5	WA	Lincoln	4.3	1.3
VA	Shenandoah	18.9	4.1	WA	Mason	12.5	3.4
VA	Smyth	21.4	4.4	WA	Okanogan	4.4	1.7
VA	Sussex	23.5	5.7	WA	Pacific	18.6	4.3
VA	Tazewell	22.3	3.8	WA	Pend Oreille	9.8	2.5
VA	Warren	20.0	4.7	WA	Pierce	13.5	3.1
VA	Washington	21.9	3.9	WA	San Juan	6.1	1.3
VA	Wise	23.7	5.0	WA	Skagit	13.5	2.9
VA	Wythe	19.5	3.8	WA	Skamania	18.6	4.9
VA	York	24.0	6.8	WA	Snohomish	15.5	3.4
VA	Chesapeake	25.7	6.1	WA	Spokane	5.8	1.4
VA	Hampton	28.0	5.8	WA	Stevens	8.0	2.3
VA	Norfolk (City)	21.0	5.7	WA	Thurston	10.0	2.8
VA	Manassas	28.1	6.0	WA	Walla Walla	4.2	1.3
VA	Newport News	19.3	5.0	WA	Whatcom	13.8	3.1
VA	Norfolk	23.7	5.8	WA	Whitman	5.5	1.3
VA	Norfolk (City)	28.3	7.0	WA	Yakima	2.7	0.9
VA	Petersburg	24.6	6.7	WV	Barbour	25.1	5.3
VA	Suffolk	24.4	5.6	WV	Berkeley	21.2	4.9
VA	Virginia Beach	22.5	5.7	WV	Boone	24.0	5.2
VA	Waynesboro	23.5	6.0	WV	Braxton	24.6	5.3
WA	Adams	3.5	1.1	WV	Brooke	17.7	4.2
WA	Benton	2.4	0.8	WV	Cabell	28.4	5.0
WA	Chelan	4.3	1.4	WV	Calhoun	23.2	5.0
WA	Clallam	12.9	2.8	WV	Doddridge	23.8	5.0

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
WV	Fayette	25.9	4.5	WV	Wood	21.0	4.4
WV	Gilmer	23.1	4.2	WV	Wyoming	24.8	4.3
WV	Grant	23.2	4.5	WI	Adams	22.1	4.2
WV	Greenbrier	21.2	4.0	WI	Ashland	19.6	4.3
WV	Hampshire	18.8	4.8	WI	Barron	21.5	4.8
WV	Hancock	20.8	5.0	WI	Brown	19.7	3.8
WV	Hardy	18.8	4.2	WI	Buffalo	22.2	5.2
WV	Harrison	21.2	4.9	WI	Burnett	20.9	4.8
WV	Jackson	22.3	4.2	WI	Calumet	18.5	3.5
WV	Kanawha	22.7	4.2	WI	Chippewa	21.4	5.0
WV	Lewis	25.8	4.9	WI	Clark	21.5	4.5
WV	Lincoln	22.4	4.3	WI	Columbia	22.3	5.1
WV	Logan	24.2	4.9	WI	Crawford	22.3	5.1
WV	Marion	24.0	5.5	WI	Dane	22.0	4.7
WV	Marshall	22.5	4.8	WI	Dodge	21.1	4.5
WV	Mason	20.3	4.1	WI	Door	17.7	3.3
WV	Mercer	20.6	3.6	WI	Douglas	20.7	4.7
WV	Mineral	20.8	4.4	WI	Dunn	20.3	4.2
WV	Mingo	24.0	4.3	WI	Eau Claire	22.3	4.8
WV	Monongalia	21.7	5.3	WI	Florence	19.4	4.0
WV	Monroe	18.6	3.3	WI	Fond Du Lac	18.1	3.8
WV	Morgan	20.7	5.0	WI	Forest	19.2	3.9
WV	Nicholas	26.4	5.0	WI	Grant	20.9	5.0
WV	Ohio	21.0	4.4	WI	Green	21.9	5.4
WV	Pendleton	20.7	4.7	WI	Green Lake	23.9	4.9
WV	Pocahontas	21.9	4.0	WI	Iowa	22.3	5.6
WV	Preston	28.2	6.2	WI	Iron	20.1	4.0
WV	Putnam	20.7	4.4	WI	Jackson	21.8	4.5
WV	Raleigh	22.2	4.0	WI	Jefferson	22.6	4.7
WV	Randolph	28.7	5.2	WI	Juneau	19.8	4.1
WV	Ritchie	22.0	4.3	WI	Kenosha	19.8	4.4
WV	Roane	22.4	5.0	WI	Kewaunee	17.7	3.8
WV	Summers	19.1	3.7	WI	La Crosse	21.6	5.1
WV	Taylor	25.3	5.3	WI	Lafayette	22.0	5.2
WV	Tucker	28.2	5.5	WI	Langlade	19.7	3.8
WV	Tyler	23.0	4.5	WI	Lincoln	21.1	4.3
WV	Upshur	25.6	4.8	WI	Manitowoc	17.3	3.7
WV	Wayne	23.0	4.4	WI	Marathon	20.8	4.0
WV	Webster	27.9	5.6	WI	Marinette	18.7	3.6
WV	Wetzel	27.3	5.8	WI	Marquette	20.8	4.9
WV	Wirt	23.9	5.2	WI	Milwaukee	22.0	5.2

State	County	5 Month Avg	5 Month SD	State	County	5 Month Avg	5 Month SD
WI	Monroe	22.0	4.8	WY	Lincoln	6.3	1.9
WI	Oconto	18.6	3.7	WY	Natrona	7.6	2.1
WI	Oneida	19.0	4.2	WY	Niobrara	11.1	2.8
WI	Outagamie	19.5	4.0	WY	Park	8.3	1.7
WI	Ozaukee	18.8	4.6	WY	Platte	9.7	2.6
WI	Pepin	24.0	6.0	WY	Sheridan	10.5	2.7
WI	Pierce	21.9	4.6	WY	Sublette	6.7	1.9
WI	Polk	20.7	4.9	WY	Sweetwater	5.3	1.6
WI	Portage	20.4	3.8	WY	Teton	9.2	2.1
WI	Price	20.8	4.6	WY	Yellowstone National Park	10.3	2.1
WI	Racine	19.5	4.4	WY	Uinta	5.3	1.9
WI	Richland	23.1	6.2	WY	Washakie	6.2	1.7
WI	Rock	20.6	4.9	WY	Weston	11.1	2.6
WI	Rusk	21.0	4.9				
WI	Sauk	21.6	5.3				
WI	Sawyer	20.7	4.7				
WI	Shawano	19.4	4.0				
WI	Sheboygan	18.1	3.8				
WI	Taylor	21.4	4.5				
WI	Trempealeau	21.8	5.0				
WI	Vernon	22.1	5.4				
WI	Vilas	20.2	4.4				
WI	Walworth	23.9	5.0				
WI	Washburn	20.5	5.3				
WI	Washington	20.5	4.5				
WI	Waukesha	22.9	5.2				
WI	Waupaca	20.0	4.0				
WI	Waushara	20.4	4.5				
WI	Winnebago	18.5	4.2				
WI	Wood	18.6	3.6				
WY	Albany	9.2	2.1				
WY	Big Horn	4.6	1.3				
WY	Campbell	9.1	2.4				
WY	Carbon	6.8	1.8				
WY	Converse	8.4	2.4				
WY	Crook	12.7	3.0				
WY	Fremont	6.3	2.0				
WY	Goshen	10.1	2.5				
WY	Hot Springs	7.9	2.5				
WY	Johnson	8.4	2.4				
WY	Laramie	11.1	2.6				

## Appendix F

### Critical Precipitation Periods by State



**Table F1. Critical Precipitation Periods by State**

State	Critical Precipitation Period	State	Critical Precipitation Period
Alabama	April - September	Nebraska - East	October - September
Alaska	April - September	Nebraska - West	April - September
Arizona	October - September	Nevada	October - September
Arkansas	April - September	New Hampshire	January to September
California	October - September	New Jersey	April - September
Colorado	April - September	New Mexico	October - September
Connecticut	April - September	New York	April - September
Delaware	April - September	North Carolina	April - September
Florida	April - September	North Dakota	October - September
Georgia	April - September	Ohio	April - September
Idaho	October - September	Oklahoma	January to September
Illinois	April - September	Oregon	October - September
Indiana	April - September	Pennsylvania	April - September
Iowa	April - September	Rhode Island	April - September
Kansas - East	January to September	South Carolina	April - September
Kansas - West	October - September	South Dakota	October - September
Kentucky	April - September	Tennessee	April - September
Louisiana	April - September	Texas	April - September
Maine	April - September	Utah	October - September
Maryland	April - September	Vermont	April - September
Massachusetts	April - September	Virginia	April - September
Michigan	April - September	Washington	October - September
Minnesota	April - September	West Virginia	April - September
Mississippi	April - September	Wisconsin	April - September
Missouri	April - September	Wyoming - Southeast	April - September
Montana	April - September	Wyoming - Northwest	October - September

## Appendix G

### USDA NASS Available Irrigation Information by Crop

**Table G1. 2012 County-level Census Data for Corn**

State	County	Data Item	Value
Alabama	Autauga	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Autauga	Corn, Grain, Irrigated - Operations With Area Harvested	2
Alabama	Bullock	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Bullock	Corn, Grain, Irrigated - Operations With Area Harvested	2
Alabama	Elmore	Corn, Grain, Irrigated - Acres Harvested	691
Alabama	Elmore	Corn, Grain, Irrigated - Operations With Area Harvested	8
Alabama	Greene	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Greene	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Hale	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Hale	Corn, Grain, Irrigated - Operations With Area Harvested	2
Alabama	Lowndes	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Lowndes	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Macon	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Macon	Corn, Grain, Irrigated - Operations With Area Harvested	2
Alabama	Marengo	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Marengo	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Montgomery	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Montgomery	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Perry	Corn, Grain, Irrigated - Acres Harvested	315
Alabama	Perry	Corn, Grain, Irrigated - Operations With Area Harvested	3
Alabama	Sumter	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Sumter	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Baldwin	Corn, Grain, Irrigated - Acres Harvested	330
Alabama	Baldwin	Corn, Grain, Irrigated - Operations With Area Harvested	4
Alabama	Clarke	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Clarke	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Escambia	Corn, Grain, Irrigated - Acres Harvested	24
Alabama	Escambia	Corn, Grain, Irrigated - Operations With Area Harvested	5
Alabama	Mobile	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Mobile	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Monroe	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Monroe	Corn, Grain, Irrigated - Operations With Area Harvested	2
Alabama	Calhoun	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Calhoun	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Cherokee	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Cherokee	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Cullman	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Cullman	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	De Kalb	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	De Kalb	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Jackson	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Jackson	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Saint Clair	Corn, Grain, Irrigated - Acres Harvested	22
Alabama	Saint Clair	Corn, Grain, Irrigated - Operations With Area Harvested	4
Alabama	Colbert	Corn, Grain, Irrigated - Acres Harvested	2,005
Alabama	Colbert	Corn, Grain, Irrigated - Operations With Area Harvested	7
Alabama	Franklin	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	2

State	County	Data Item	Value
Alabama	Lauderdale	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Lauderdale	Corn, Grain, Irrigated - Operations With Area Harvested	2
Alabama	Lawrence	Corn, Grain, Irrigated - Acres Harvested	2,065
Alabama	Lawrence	Corn, Grain, Irrigated - Operations With Area Harvested	7
Alabama	Limestone	Corn, Grain, Irrigated - Acres Harvested	4,938
Alabama	Limestone	Corn, Grain, Irrigated - Operations With Area Harvested	14
Alabama	Madison	Corn, Grain, Irrigated - Acres Harvested	3,103
Alabama	Madison	Corn, Grain, Irrigated - Operations With Area Harvested	5
Alabama	Chilton	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Chilton	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Jefferson	Corn, Grain, Irrigated - Acres Harvested	150
Alabama	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	6
Alabama	Lee	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Lee	Corn, Grain, Irrigated - Operations With Area Harvested	2
Alabama	Pickens	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Pickens	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Shelby	Corn, Grain, Irrigated - Acres Harvested	522
Alabama	Shelby	Corn, Grain, Irrigated - Operations With Area Harvested	4
Alabama	Talladega	Corn, Grain, Irrigated - Acres Harvested	2,081
Alabama	Talladega	Corn, Grain, Irrigated - Operations With Area Harvested	7
Alabama	Tallapoosa	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Tallapoosa	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Tuscaloosa	Corn, Grain, Irrigated - Acres Harvested	450
Alabama	Tuscaloosa	Corn, Grain, Irrigated - Operations With Area Harvested	5
Alabama	Barbour	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Barbour	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Coffee	Corn, Grain, Irrigated - Acres Harvested	904
Alabama	Coffee	Corn, Grain, Irrigated - Operations With Area Harvested	7
Alabama	Covington	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Covington	Corn, Grain, Irrigated - Operations With Area Harvested	1
Alabama	Crenshaw	Corn, Grain, Irrigated - Acres Harvested	842
Alabama	Crenshaw	Corn, Grain, Irrigated - Operations With Area Harvested	5
Alabama	Dale	Corn, Grain, Irrigated - Acres Harvested	(D)
Alabama	Dale	Corn, Grain, Irrigated - Operations With Area Harvested	2
Alabama	Geneva	Corn, Grain, Irrigated - Acres Harvested	719
Alabama	Geneva	Corn, Grain, Irrigated - Operations With Area Harvested	15
Alabama	Henry	Corn, Grain, Irrigated - Acres Harvested	1,298
Alabama	Henry	Corn, Grain, Irrigated - Operations With Area Harvested	12
Alabama	Houston	Corn, Grain, Irrigated - Acres Harvested	813
Alabama	Houston	Corn, Grain, Irrigated - Operations With Area Harvested	9
Alabama	Pike	Corn, Grain, Irrigated - Acres Harvested	646
Alabama	Pike	Corn, Grain, Irrigated - Operations With Area Harvested	5
Arizona	Navajo	Corn, Grain, Irrigated - Acres Harvested	(D)
Arizona	Navajo	Corn, Grain, Irrigated - Operations With Area Harvested	1
Arizona	Yavapai	Corn, Grain, Irrigated - Acres Harvested	(D)
Arizona	Yavapai	Corn, Grain, Irrigated - Operations With Area Harvested	1
Arizona	Cochise	Corn, Grain, Irrigated - Acres Harvested	18,699
Arizona	Cochise	Corn, Grain, Irrigated - Operations With Area Harvested	36
Arizona	Graham	Corn, Grain, Irrigated - Acres Harvested	4,068

State	County	Data Item	Value
Arizona	Graham	Corn, Grain, Irrigated - Operations With Area Harvested	7
Arizona	Greenlee	Corn, Grain, Irrigated - Acres Harvested	(D)
Arizona	Greenlee	Corn, Grain, Irrigated - Operations With Area Harvested	7
Arizona	Maricopa	Corn, Grain, Irrigated - Acres Harvested	1,374
Arizona	Maricopa	Corn, Grain, Irrigated - Operations With Area Harvested	12
Arizona	Pinal	Corn, Grain, Irrigated - Acres Harvested	2,983
Arizona	Pinal	Corn, Grain, Irrigated - Operations With Area Harvested	12
Arizona	Yuma	Corn, Grain, Irrigated - Acres Harvested	295
Arizona	Yuma	Corn, Grain, Irrigated - Operations With Area Harvested	4
Arkansas	Conway	Corn, Grain, Irrigated - Acres Harvested	(D)
Arkansas	Conway	Corn, Grain, Irrigated - Operations With Area Harvested	7
Arkansas	Faulkner	Corn, Grain, Irrigated - Acres Harvested	(D)
Arkansas	Faulkner	Corn, Grain, Irrigated - Operations With Area Harvested	3
Arkansas	Perry	Corn, Grain, Irrigated - Acres Harvested	(D)
Arkansas	Perry	Corn, Grain, Irrigated - Operations With Area Harvested	1
Arkansas	Pulaski	Corn, Grain, Irrigated - Acres Harvested	3,220
Arkansas	Pulaski	Corn, Grain, Irrigated - Operations With Area Harvested	11
Arkansas	Arkansas	Corn, Grain, Irrigated - Acres Harvested	32,047
Arkansas	Arkansas	Corn, Grain, Irrigated - Operations With Area Harvested	100
Arkansas	Crittenden	Corn, Grain, Irrigated - Acres Harvested	(D)
Arkansas	Crittenden	Corn, Grain, Irrigated - Operations With Area Harvested	32
Arkansas	Cross	Corn, Grain, Irrigated - Acres Harvested	9,911
Arkansas	Cross	Corn, Grain, Irrigated - Operations With Area Harvested	26
Arkansas	Lee	Corn, Grain, Irrigated - Acres Harvested	19,175
Arkansas	Lee	Corn, Grain, Irrigated - Operations With Area Harvested	36
Arkansas	Lonoke	Corn, Grain, Irrigated - Acres Harvested	25,501
Arkansas	Lonoke	Corn, Grain, Irrigated - Operations With Area Harvested	56
Arkansas	Monroe	Corn, Grain, Irrigated - Acres Harvested	28,478
Arkansas	Monroe	Corn, Grain, Irrigated - Operations With Area Harvested	68
Arkansas	Phillips	Corn, Grain, Irrigated - Acres Harvested	44,217
Arkansas	Phillips	Corn, Grain, Irrigated - Operations With Area Harvested	89
Arkansas	Prairie	Corn, Grain, Irrigated - Acres Harvested	(D)
Arkansas	Prairie	Corn, Grain, Irrigated - Operations With Area Harvested	47
Arkansas	Saint Francis	Corn, Grain, Irrigated - Acres Harvested	15,416
Arkansas	Saint Francis	Corn, Grain, Irrigated - Operations With Area Harvested	44
Arkansas	Woodruff	Corn, Grain, Irrigated - Acres Harvested	17,420
Arkansas	Woodruff	Corn, Grain, Irrigated - Operations With Area Harvested	39
Arkansas	Baxter	Corn, Grain, Irrigated - Acres Harvested	(D)
Arkansas	Baxter	Corn, Grain, Irrigated - Operations With Area Harvested	1
Arkansas	Izard	Corn, Grain, Irrigated - Acres Harvested	(D)
Arkansas	Izard	Corn, Grain, Irrigated - Operations With Area Harvested	2
Arkansas	Clay	Corn, Grain, Irrigated - Acres Harvested	34,007
Arkansas	Clay	Corn, Grain, Irrigated - Operations With Area Harvested	109
Arkansas	Craighead	Corn, Grain, Irrigated - Acres Harvested	29,460
Arkansas	Craighead	Corn, Grain, Irrigated - Operations With Area Harvested	82
Arkansas	Greene	Corn, Grain, Irrigated - Acres Harvested	25,944
Arkansas	Greene	Corn, Grain, Irrigated - Operations With Area Harvested	66
Arkansas	Independence	Corn, Grain, Irrigated - Acres Harvested	(D)
Arkansas	Independence	Corn, Grain, Irrigated - Operations With Area Harvested	18

State	County	Data Item	Value
Arkansas	Jackson	Corn, Grain, Irrigated - Acres Harvested	9,754
Arkansas	Jackson	Corn, Grain, Irrigated - Operations With Area Harvested	27
Arkansas	Lawrence	Corn, Grain, Irrigated - Acres Harvested	5,222
Arkansas	Lawrence	Corn, Grain, Irrigated - Operations With Area Harvested	21
Arkansas	Mississippi	Corn, Grain, Irrigated - Acres Harvested	15,282
Arkansas	Mississippi	Corn, Grain, Irrigated - Operations With Area Harvested	60
Arkansas	Poinsett	Corn, Grain, Irrigated - Acres Harvested	19,630
Arkansas	Poinsett	Corn, Grain, Irrigated - Operations With Area Harvested	57
Arkansas	Randolph	Corn, Grain, Irrigated - Acres Harvested	4,374
Arkansas	Randolph	Corn, Grain, Irrigated - Operations With Area Harvested	19
Arkansas	White	Corn, Grain, Irrigated - Acres Harvested	4,346
Arkansas	White	Corn, Grain, Irrigated - Operations With Area Harvested	18
Arkansas	Ashley	Corn, Grain, Irrigated - Acres Harvested	17,909
Arkansas	Ashley	Corn, Grain, Irrigated - Operations With Area Harvested	36
Arkansas	Chicot	Corn, Grain, Irrigated - Acres Harvested	45,756
Arkansas	Chicot	Corn, Grain, Irrigated - Operations With Area Harvested	86
Arkansas	Desha	Corn, Grain, Irrigated - Acres Harvested	45,974
Arkansas	Desha	Corn, Grain, Irrigated - Operations With Area Harvested	82
Arkansas	Drew	Corn, Grain, Irrigated - Acres Harvested	17,677
Arkansas	Drew	Corn, Grain, Irrigated - Operations With Area Harvested	26
Arkansas	Jefferson	Corn, Grain, Irrigated - Acres Harvested	38,889
Arkansas	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	66
Arkansas	Lincoln	Corn, Grain, Irrigated - Acres Harvested	(D)
Arkansas	Lincoln	Corn, Grain, Irrigated - Operations With Area Harvested	48
Arkansas	Lafayette	Corn, Grain, Irrigated - Acres Harvested	11,406
Arkansas	Lafayette	Corn, Grain, Irrigated - Operations With Area Harvested	21
Arkansas	Little River	Corn, Grain, Irrigated - Acres Harvested	4,733
Arkansas	Little River	Corn, Grain, Irrigated - Operations With Area Harvested	6
Arkansas	Miller	Corn, Grain, Irrigated - Acres Harvested	2,540
Arkansas	Miller	Corn, Grain, Irrigated - Operations With Area Harvested	3
Arkansas	Crawford	Corn, Grain, Irrigated - Acres Harvested	1,224
Arkansas	Crawford	Corn, Grain, Irrigated - Operations With Area Harvested	12
Arkansas	Johnson	Corn, Grain, Irrigated - Acres Harvested	(D)
Arkansas	Johnson	Corn, Grain, Irrigated - Operations With Area Harvested	2
Arkansas	Logan	Corn, Grain, Irrigated - Acres Harvested	464
Arkansas	Logan	Corn, Grain, Irrigated - Operations With Area Harvested	4
Arkansas	Pope	Corn, Grain, Irrigated - Acres Harvested	(D)
Arkansas	Pope	Corn, Grain, Irrigated - Operations With Area Harvested	1
Arkansas	Yell	Corn, Grain, Irrigated - Acres Harvested	411
Arkansas	Yell	Corn, Grain, Irrigated - Operations With Area Harvested	4
California	Contra Costa	Corn, Grain, Irrigated - Acres Harvested	1,851
California	Contra Costa	Corn, Grain, Irrigated - Operations With Area Harvested	4
California	Monterey	Corn, Grain, Irrigated - Acres Harvested	(D)
California	Monterey	Corn, Grain, Irrigated - Operations With Area Harvested	3
California	Napa	Corn, Grain, Irrigated - Acres Harvested	4
California	Napa	Corn, Grain, Irrigated - Operations With Area Harvested	4
California	San Benito	Corn, Grain, Irrigated - Acres Harvested	12
California	San Benito	Corn, Grain, Irrigated - Operations With Area Harvested	6
California	San Luis Obispo	Corn, Grain, Irrigated - Acres Harvested	264

State	County	Data Item	Value
California	San Luis Obispo	Corn, Grain, Irrigated - Operations With Area Harvested	9
California	San Mateo	Corn, Grain, Irrigated - Acres Harvested	(D)
California	San Mateo	Corn, Grain, Irrigated - Operations With Area Harvested	1
California	Santa Clara	Corn, Grain, Irrigated - Acres Harvested	3
California	Santa Clara	Corn, Grain, Irrigated - Operations With Area Harvested	3
California	Sonoma	Corn, Grain, Irrigated - Acres Harvested	12
California	Sonoma	Corn, Grain, Irrigated - Operations With Area Harvested	12
California	Modoc	Corn, Grain, Irrigated - Acres Harvested	(D)
California	Modoc	Corn, Grain, Irrigated - Operations With Area Harvested	2
California	Humboldt	Corn, Grain, Irrigated - Acres Harvested	9
California	Humboldt	Corn, Grain, Irrigated - Operations With Area Harvested	9
California	Mendocino	Corn, Grain, Irrigated - Acres Harvested	(D)
California	Mendocino	Corn, Grain, Irrigated - Operations With Area Harvested	1
California	Butte	Corn, Grain, Irrigated - Acres Harvested	499
California	Butte	Corn, Grain, Irrigated - Operations With Area Harvested	4
California	Colusa	Corn, Grain, Irrigated - Acres Harvested	5,799
California	Colusa	Corn, Grain, Irrigated - Operations With Area Harvested	27
California	Glenn	Corn, Grain, Irrigated - Acres Harvested	7,236
California	Glenn	Corn, Grain, Irrigated - Operations With Area Harvested	43
California	Sacramento	Corn, Grain, Irrigated - Acres Harvested	15,372
California	Sacramento	Corn, Grain, Irrigated - Operations With Area Harvested	52
California	Solano	Corn, Grain, Irrigated - Acres Harvested	9,005
California	Solano	Corn, Grain, Irrigated - Operations With Area Harvested	28
California	Sutter	Corn, Grain, Irrigated - Acres Harvested	11,254
California	Sutter	Corn, Grain, Irrigated - Operations With Area Harvested	32
California	Tehama	Corn, Grain, Irrigated - Acres Harvested	719
California	Tehama	Corn, Grain, Irrigated - Operations With Area Harvested	6
California	Yolo	Corn, Grain, Irrigated - Acres Harvested	14,454
California	Yolo	Corn, Grain, Irrigated - Operations With Area Harvested	48
California	Yuba	Corn, Grain, Irrigated - Acres Harvested	(D)
California	Yuba	Corn, Grain, Irrigated - Operations With Area Harvested	1
California	Fresno	Corn, Grain, Irrigated - Acres Harvested	4,183
California	Fresno	Corn, Grain, Irrigated - Operations With Area Harvested	29
California	Kern	Corn, Grain, Irrigated - Acres Harvested	4,598
California	Kern	Corn, Grain, Irrigated - Operations With Area Harvested	16
California	Kings	Corn, Grain, Irrigated - Acres Harvested	8,486
California	Kings	Corn, Grain, Irrigated - Operations With Area Harvested	56
California	Madera	Corn, Grain, Irrigated - Acres Harvested	2,104
California	Madera	Corn, Grain, Irrigated - Operations With Area Harvested	11
California	Merced	Corn, Grain, Irrigated - Acres Harvested	19,255
California	Merced	Corn, Grain, Irrigated - Operations With Area Harvested	74
California	San Joaquin	Corn, Grain, Irrigated - Acres Harvested	49,930
California	San Joaquin	Corn, Grain, Irrigated - Operations With Area Harvested	87
California	Stanislaus	Corn, Grain, Irrigated - Acres Harvested	2,392
California	Stanislaus	Corn, Grain, Irrigated - Operations With Area Harvested	27
California	Tulare	Corn, Grain, Irrigated - Acres Harvested	15,873
California	Tulare	Corn, Grain, Irrigated - Operations With Area Harvested	69
California	Amador	Corn, Grain, Irrigated - Acres Harvested	(D)
California	Amador	Corn, Grain, Irrigated - Operations With Area Harvested	1

State	County	Data Item	Value
California	El Dorado	Corn, Grain, Irrigated - Acres Harvested	18
California	El Dorado	Corn, Grain, Irrigated - Operations With Area Harvested	10
California	Nevada	Corn, Grain, Irrigated - Acres Harvested	4
California	Nevada	Corn, Grain, Irrigated - Operations With Area Harvested	4
California	Placer	Corn, Grain, Irrigated - Acres Harvested	(D)
California	Placer	Corn, Grain, Irrigated - Operations With Area Harvested	5
California	Tuolumne	Corn, Grain, Irrigated - Acres Harvested	5
California	Tuolumne	Corn, Grain, Irrigated - Operations With Area Harvested	5
California	Shasta	Corn, Grain, Irrigated - Acres Harvested	60
California	Shasta	Corn, Grain, Irrigated - Operations With Area Harvested	6
California	Imperial	Corn, Grain, Irrigated - Acres Harvested	580
California	Imperial	Corn, Grain, Irrigated - Operations With Area Harvested	4
California	Los Angeles	Corn, Grain, Irrigated - Acres Harvested	(D)
California	Los Angeles	Corn, Grain, Irrigated - Operations With Area Harvested	2
California	Orange	Corn, Grain, Irrigated - Acres Harvested	370
California	Orange	Corn, Grain, Irrigated - Operations With Area Harvested	8
California	Riverside	Corn, Grain, Irrigated - Acres Harvested	(D)
California	Riverside	Corn, Grain, Irrigated - Operations With Area Harvested	10
California	San Bernardino	Corn, Grain, Irrigated - Acres Harvested	16
California	San Bernardino	Corn, Grain, Irrigated - Operations With Area Harvested	5
California	San Diego	Corn, Grain, Irrigated - Acres Harvested	492
California	San Diego	Corn, Grain, Irrigated - Operations With Area Harvested	8
California	Santa Barbara	Corn, Grain, Irrigated - Acres Harvested	(D)
California	Santa Barbara	Corn, Grain, Irrigated - Operations With Area Harvested	1
Colorado	Adams	Corn, Grain, Irrigated - Acres Harvested	4,801
Colorado	Adams	Corn, Grain, Irrigated - Operations With Area Harvested	26
Colorado	Arapahoe	Corn, Grain, Irrigated - Acres Harvested	(D)
Colorado	Arapahoe	Corn, Grain, Irrigated - Operations With Area Harvested	3
Colorado	Cheyenne	Corn, Grain, Irrigated - Acres Harvested	16,751
Colorado	Cheyenne	Corn, Grain, Irrigated - Operations With Area Harvested	35
Colorado	Douglas	Corn, Grain, Irrigated - Acres Harvested	(D)
Colorado	Douglas	Corn, Grain, Irrigated - Operations With Area Harvested	2
Colorado	El Paso	Corn, Grain, Irrigated - Acres Harvested	726
Colorado	El Paso	Corn, Grain, Irrigated - Operations With Area Harvested	6
Colorado	Elbert	Corn, Grain, Irrigated - Acres Harvested	(D)
Colorado	Elbert	Corn, Grain, Irrigated - Operations With Area Harvested	2
Colorado	Kiowa	Corn, Grain, Irrigated - Acres Harvested	556
Colorado	Kiowa	Corn, Grain, Irrigated - Operations With Area Harvested	4
Colorado	Kit Carson	Corn, Grain, Irrigated - Acres Harvested	70,666
Colorado	Kit Carson	Corn, Grain, Irrigated - Operations With Area Harvested	143
Colorado	Lincoln	Corn, Grain, Irrigated - Acres Harvested	1,676
Colorado	Lincoln	Corn, Grain, Irrigated - Operations With Area Harvested	7
Colorado	Phillips	Corn, Grain, Irrigated - Acres Harvested	64,191
Colorado	Phillips	Corn, Grain, Irrigated - Operations With Area Harvested	99
Colorado	Washington	Corn, Grain, Irrigated - Acres Harvested	26,192
Colorado	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	71
Colorado	Yuma	Corn, Grain, Irrigated - Acres Harvested	178,203
Colorado	Yuma	Corn, Grain, Irrigated - Operations With Area Harvested	228
Colorado	Boulder	Corn, Grain, Irrigated - Acres Harvested	933



State	County	Data Item	Value
Colorado	Boulder	Corn, Grain, Irrigated - Operations With Area Harvested	16
Colorado	Broomfield	Corn, Grain, Irrigated - Acres Harvested	591
Colorado	Broomfield	Corn, Grain, Irrigated - Operations With Area Harvested	5
Colorado	Larimer	Corn, Grain, Irrigated - Acres Harvested	8,419
Colorado	Larimer	Corn, Grain, Irrigated - Operations With Area Harvested	61
Colorado	Logan	Corn, Grain, Irrigated - Acres Harvested	52,824
Colorado	Logan	Corn, Grain, Irrigated - Operations With Area Harvested	172
Colorado	Morgan	Corn, Grain, Irrigated - Acres Harvested	42,927
Colorado	Morgan	Corn, Grain, Irrigated - Operations With Area Harvested	191
Colorado	Sedgwick	Corn, Grain, Irrigated - Acres Harvested	29,360
Colorado	Sedgwick	Corn, Grain, Irrigated - Operations With Area Harvested	59
Colorado	Weld	Corn, Grain, Irrigated - Acres Harvested	78,273
Colorado	Weld	Corn, Grain, Irrigated - Operations With Area Harvested	425
Colorado	Baca	Corn, Grain, Irrigated - Acres Harvested	29,047
Colorado	Baca	Corn, Grain, Irrigated - Operations With Area Harvested	78
Colorado	Bent	Corn, Grain, Irrigated - Acres Harvested	(D)
Colorado	Bent	Corn, Grain, Irrigated - Operations With Area Harvested	21
Colorado	Crowley	Corn, Grain, Irrigated - Acres Harvested	222
Colorado	Crowley	Corn, Grain, Irrigated - Operations With Area Harvested	8
Colorado	Las Animas	Corn, Grain, Irrigated - Acres Harvested	26
Colorado	Las Animas	Corn, Grain, Irrigated - Operations With Area Harvested	5
Colorado	Otero	Corn, Grain, Irrigated - Acres Harvested	5,583
Colorado	Otero	Corn, Grain, Irrigated - Operations With Area Harvested	82
Colorado	Prowers	Corn, Grain, Irrigated - Acres Harvested	13,893
Colorado	Prowers	Corn, Grain, Irrigated - Operations With Area Harvested	46
Colorado	Pueblo	Corn, Grain, Irrigated - Acres Harvested	3,808
Colorado	Pueblo	Corn, Grain, Irrigated - Operations With Area Harvested	49
Colorado	Delta	Corn, Grain, Irrigated - Acres Harvested	4,279
Colorado	Delta	Corn, Grain, Irrigated - Operations With Area Harvested	48
Colorado	Dolores	Corn, Grain, Irrigated - Acres Harvested	(D)
Colorado	Dolores	Corn, Grain, Irrigated - Operations With Area Harvested	1
Colorado	La Plata	Corn, Grain, Irrigated - Acres Harvested	(D)
Colorado	La Plata	Corn, Grain, Irrigated - Operations With Area Harvested	2
Colorado	Mesa	Corn, Grain, Irrigated - Acres Harvested	3,844
Colorado	Mesa	Corn, Grain, Irrigated - Operations With Area Harvested	44
Colorado	Montezuma	Corn, Grain, Irrigated - Acres Harvested	(D)
Colorado	Montezuma	Corn, Grain, Irrigated - Operations With Area Harvested	8
Colorado	Montrose	Corn, Grain, Irrigated - Acres Harvested	10,083
Colorado	Montrose	Corn, Grain, Irrigated - Operations With Area Harvested	108
Connecticut	Hartford	Corn, Grain, Irrigated - Acres Harvested	(D)
Connecticut	Hartford	Corn, Grain, Irrigated - Operations With Area Harvested	2
Connecticut	New London	Corn, Grain, Irrigated - Acres Harvested	(D)
Connecticut	New London	Corn, Grain, Irrigated - Operations With Area Harvested	1
Connecticut	Tolland	Corn, Grain, Irrigated - Acres Harvested	(D)
Connecticut	Tolland	Corn, Grain, Irrigated - Operations With Area Harvested	1
Delaware	Kent	Corn, Grain, Irrigated - Acres Harvested	13,658
Delaware	Kent	Corn, Grain, Irrigated - Operations With Area Harvested	70
Delaware	New Castle	Corn, Grain, Irrigated - Acres Harvested	3,005
Delaware	New Castle	Corn, Grain, Irrigated - Operations With Area Harvested	13

State	County	Data Item	Value
Delaware	Sussex	Corn, Grain, Irrigated - Acres Harvested	51,931
Delaware	Sussex	Corn, Grain, Irrigated - Operations With Area Harvested	229
Florida	Alachua	Corn, Grain, Irrigated - Acres Harvested	2,258
Florida	Alachua	Corn, Grain, Irrigated - Operations With Area Harvested	13
Florida	Bradford	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Bradford	Corn, Grain, Irrigated - Operations With Area Harvested	6
Florida	Flagler	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Flagler	Corn, Grain, Irrigated - Operations With Area Harvested	2
Florida	Gilchrist	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Gilchrist	Corn, Grain, Irrigated - Operations With Area Harvested	2
Florida	Hillsborough	Corn, Grain, Irrigated - Acres Harvested	29
Florida	Hillsborough	Corn, Grain, Irrigated - Operations With Area Harvested	3
Florida	Lake	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Lake	Corn, Grain, Irrigated - Operations With Area Harvested	3
Florida	Levy	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Levy	Corn, Grain, Irrigated - Operations With Area Harvested	4
Florida	Marion	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Marion	Corn, Grain, Irrigated - Operations With Area Harvested	3
Florida	Putnam	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Putnam	Corn, Grain, Irrigated - Operations With Area Harvested	1
Florida	St. Johns	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	St. Johns	Corn, Grain, Irrigated - Operations With Area Harvested	2
Florida	Volusia	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Volusia	Corn, Grain, Irrigated - Operations With Area Harvested	3
Florida	Baker	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Baker	Corn, Grain, Irrigated - Operations With Area Harvested	2
Florida	Columbia	Corn, Grain, Irrigated - Acres Harvested	1,076
Florida	Columbia	Corn, Grain, Irrigated - Operations With Area Harvested	15
Florida	Dixie	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Dixie	Corn, Grain, Irrigated - Operations With Area Harvested	1
Florida	Hamilton	Corn, Grain, Irrigated - Acres Harvested	3,705
Florida	Hamilton	Corn, Grain, Irrigated - Operations With Area Harvested	12
Florida	Lafayette	Corn, Grain, Irrigated - Acres Harvested	2,910
Florida	Lafayette	Corn, Grain, Irrigated - Operations With Area Harvested	11
Florida	Madison	Corn, Grain, Irrigated - Acres Harvested	1,843
Florida	Madison	Corn, Grain, Irrigated - Operations With Area Harvested	22
Florida	Nassau	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Nassau	Corn, Grain, Irrigated - Operations With Area Harvested	1
Florida	Suwannee	Corn, Grain, Irrigated - Acres Harvested	2,003
Florida	Suwannee	Corn, Grain, Irrigated - Operations With Area Harvested	26
Florida	Taylor	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Taylor	Corn, Grain, Irrigated - Operations With Area Harvested	3
Florida	Bay	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Bay	Corn, Grain, Irrigated - Operations With Area Harvested	1
Florida	Calhoun	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Calhoun	Corn, Grain, Irrigated - Operations With Area Harvested	1
Florida	Escambia	Corn, Grain, Irrigated - Acres Harvested	810
Florida	Escambia	Corn, Grain, Irrigated - Operations With Area Harvested	5
Florida	Gadsden	Corn, Grain, Irrigated - Acres Harvested	107

State	County	Data Item	Value
Florida	Gadsden	Corn, Grain, Irrigated - Operations With Area Harvested	3
Florida	Holmes	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Holmes	Corn, Grain, Irrigated - Operations With Area Harvested	1
Florida	Jackson	Corn, Grain, Irrigated - Acres Harvested	1,472
Florida	Jackson	Corn, Grain, Irrigated - Operations With Area Harvested	13
Florida	Jefferson	Corn, Grain, Irrigated - Acres Harvested	14
Florida	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	6
Florida	Leon	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Leon	Corn, Grain, Irrigated - Operations With Area Harvested	2
Florida	Okaloosa	Corn, Grain, Irrigated - Acres Harvested	7
Florida	Okaloosa	Corn, Grain, Irrigated - Operations With Area Harvested	3
Florida	Santa Rosa	Corn, Grain, Irrigated - Acres Harvested	43
Florida	Santa Rosa	Corn, Grain, Irrigated - Operations With Area Harvested	9
Florida	Wakulla	Corn, Grain, Irrigated - Acres Harvested	10
Florida	Wakulla	Corn, Grain, Irrigated - Operations With Area Harvested	6
Florida	Walton	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Walton	Corn, Grain, Irrigated - Operations With Area Harvested	2
Florida	Washington	Corn, Grain, Irrigated - Acres Harvested	286
Florida	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	5
Florida	Collier	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Collier	Corn, Grain, Irrigated - Operations With Area Harvested	2
Florida	Glades	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Glades	Corn, Grain, Irrigated - Operations With Area Harvested	1
Florida	Hardee	Corn, Grain, Irrigated - Acres Harvested	3
Florida	Hardee	Corn, Grain, Irrigated - Operations With Area Harvested	3
Florida	Miami-Dade	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Miami-Dade	Corn, Grain, Irrigated - Operations With Area Harvested	2
Florida	Palm Beach	Corn, Grain, Irrigated - Acres Harvested	(D)
Florida	Palm Beach	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Bleckley	Corn, Grain, Irrigated - Acres Harvested	4,363
Georgia	Bleckley	Corn, Grain, Irrigated - Operations With Area Harvested	19
Georgia	Crawford	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Crawford	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Dodge	Corn, Grain, Irrigated - Acres Harvested	1,722
Georgia	Dodge	Corn, Grain, Irrigated - Operations With Area Harvested	14
Georgia	Greene	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Greene	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Houston	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Houston	Corn, Grain, Irrigated - Operations With Area Harvested	10
Georgia	Jasper	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Jasper	Corn, Grain, Irrigated - Operations With Area Harvested	3
Georgia	Johnson	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Johnson	Corn, Grain, Irrigated - Operations With Area Harvested	4
Georgia	Laurens	Corn, Grain, Irrigated - Acres Harvested	1,521
Georgia	Laurens	Corn, Grain, Irrigated - Operations With Area Harvested	20
Georgia	Montgomery	Corn, Grain, Irrigated - Acres Harvested	1,551
Georgia	Montgomery	Corn, Grain, Irrigated - Operations With Area Harvested	13
Georgia	Morgan	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Morgan	Corn, Grain, Irrigated - Operations With Area Harvested	1

State	County	Data Item	Value
Georgia	Newton	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Newton	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Peach	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Peach	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Pulaski	Corn, Grain, Irrigated - Acres Harvested	2,643
Georgia	Pulaski	Corn, Grain, Irrigated - Operations With Area Harvested	21
Georgia	Treutlen	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Treutlen	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Twiggs	Corn, Grain, Irrigated - Acres Harvested	593
Georgia	Twiggs	Corn, Grain, Irrigated - Operations With Area Harvested	7
Georgia	Washington	Corn, Grain, Irrigated - Acres Harvested	3,152
Georgia	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	18
Georgia	Wheeler	Corn, Grain, Irrigated - Acres Harvested	651
Georgia	Wheeler	Corn, Grain, Irrigated - Operations With Area Harvested	8
Georgia	Wilkinson	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Wilkinson	Corn, Grain, Irrigated - Operations With Area Harvested	2
Georgia	Bulloch	Corn, Grain, Irrigated - Acres Harvested	2,664
Georgia	Bulloch	Corn, Grain, Irrigated - Operations With Area Harvested	20
Georgia	Burke	Corn, Grain, Irrigated - Acres Harvested	9,278
Georgia	Burke	Corn, Grain, Irrigated - Operations With Area Harvested	33
Georgia	Candler	Corn, Grain, Irrigated - Acres Harvested	156
Georgia	Candler	Corn, Grain, Irrigated - Operations With Area Harvested	11
Georgia	Effingham	Corn, Grain, Irrigated - Acres Harvested	375
Georgia	Effingham	Corn, Grain, Irrigated - Operations With Area Harvested	6
Georgia	Emanuel	Corn, Grain, Irrigated - Acres Harvested	177
Georgia	Emanuel	Corn, Grain, Irrigated - Operations With Area Harvested	3
Georgia	Glascoek	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Glascoek	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Jefferson	Corn, Grain, Irrigated - Acres Harvested	6,649
Georgia	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	36
Georgia	Jenkins	Corn, Grain, Irrigated - Acres Harvested	2,508
Georgia	Jenkins	Corn, Grain, Irrigated - Operations With Area Harvested	21
Georgia	Screven	Corn, Grain, Irrigated - Acres Harvested	4,854
Georgia	Screven	Corn, Grain, Irrigated - Operations With Area Harvested	39
Georgia	Barrow	Corn, Grain, Irrigated - Acres Harvested	15
Georgia	Barrow	Corn, Grain, Irrigated - Operations With Area Harvested	3
Georgia	Dawson	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Dawson	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Fannin	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Fannin	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Hall	Corn, Grain, Irrigated - Acres Harvested	5
Georgia	Hall	Corn, Grain, Irrigated - Operations With Area Harvested	5
Georgia	Oconee	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Oconee	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Pickens	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Pickens	Corn, Grain, Irrigated - Operations With Area Harvested	2
Georgia	Walton	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Walton	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Elbert	Corn, Grain, Irrigated - Acres Harvested	(D)

State	County	Data Item	Value
Georgia	Elbert	Corn, Grain, Irrigated - Operations With Area Harvested	2
Georgia	Franklin	Corn, Grain, Irrigated - Acres Harvested	175
Georgia	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	4
Georgia	Habersham	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Habersham	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Hart	Corn, Grain, Irrigated - Acres Harvested	533
Georgia	Hart	Corn, Grain, Irrigated - Operations With Area Harvested	5
Georgia	Madison	Corn, Grain, Irrigated - Acres Harvested	42
Georgia	Madison	Corn, Grain, Irrigated - Operations With Area Harvested	3
Georgia	Rabun	Corn, Grain, Irrigated - Acres Harvested	9
Georgia	Rabun	Corn, Grain, Irrigated - Operations With Area Harvested	3
Georgia	Wilkes	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Wilkes	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Bartow	Corn, Grain, Irrigated - Acres Harvested	715
Georgia	Bartow	Corn, Grain, Irrigated - Operations With Area Harvested	5
Georgia	Chattooga	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Chattooga	Corn, Grain, Irrigated - Operations With Area Harvested	2
Georgia	Floyd	Corn, Grain, Irrigated - Acres Harvested	480
Georgia	Floyd	Corn, Grain, Irrigated - Operations With Area Harvested	5
Georgia	Gordon	Corn, Grain, Irrigated - Acres Harvested	1,020
Georgia	Gordon	Corn, Grain, Irrigated - Operations With Area Harvested	4
Georgia	Murray	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Murray	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Atkinson	Corn, Grain, Irrigated - Acres Harvested	1,095
Georgia	Atkinson	Corn, Grain, Irrigated - Operations With Area Harvested	16
Georgia	Ben Hill	Corn, Grain, Irrigated - Acres Harvested	1,926
Georgia	Ben Hill	Corn, Grain, Irrigated - Operations With Area Harvested	14
Georgia	Berrien	Corn, Grain, Irrigated - Acres Harvested	2,150
Georgia	Berrien	Corn, Grain, Irrigated - Operations With Area Harvested	33
Georgia	Brooks	Corn, Grain, Irrigated - Acres Harvested	1,001
Georgia	Brooks	Corn, Grain, Irrigated - Operations With Area Harvested	13
Georgia	Clinch	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Clinch	Corn, Grain, Irrigated - Operations With Area Harvested	3
Georgia	Coffee	Corn, Grain, Irrigated - Acres Harvested	3,469
Georgia	Coffee	Corn, Grain, Irrigated - Operations With Area Harvested	27
Georgia	Colquitt	Corn, Grain, Irrigated - Acres Harvested	1,546
Georgia	Colquitt	Corn, Grain, Irrigated - Operations With Area Harvested	10
Georgia	Cook	Corn, Grain, Irrigated - Acres Harvested	453
Georgia	Cook	Corn, Grain, Irrigated - Operations With Area Harvested	7
Georgia	Crisp	Corn, Grain, Irrigated - Acres Harvested	835
Georgia	Crisp	Corn, Grain, Irrigated - Operations With Area Harvested	3
Georgia	Dooly	Corn, Grain, Irrigated - Acres Harvested	1,575
Georgia	Dooly	Corn, Grain, Irrigated - Operations With Area Harvested	12
Georgia	Echols	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Echols	Corn, Grain, Irrigated - Operations With Area Harvested	4
Georgia	Irwin	Corn, Grain, Irrigated - Acres Harvested	5,986
Georgia	Irwin	Corn, Grain, Irrigated - Operations With Area Harvested	37
Georgia	Jeff Davis	Corn, Grain, Irrigated - Acres Harvested	1,667
Georgia	Jeff Davis	Corn, Grain, Irrigated - Operations With Area Harvested	15

State	County	Data Item	Value
Georgia	Lanier	Corn, Grain, Irrigated - Acres Harvested	778
Georgia	Lanier	Corn, Grain, Irrigated - Operations With Area Harvested	13
Georgia	Lowndes	Corn, Grain, Irrigated - Acres Harvested	1,677
Georgia	Lowndes	Corn, Grain, Irrigated - Operations With Area Harvested	13
Georgia	Telfair	Corn, Grain, Irrigated - Acres Harvested	1,377
Georgia	Telfair	Corn, Grain, Irrigated - Operations With Area Harvested	17
Georgia	Tift	Corn, Grain, Irrigated - Acres Harvested	1,297
Georgia	Tift	Corn, Grain, Irrigated - Operations With Area Harvested	16
Georgia	Turner	Corn, Grain, Irrigated - Acres Harvested	877
Georgia	Turner	Corn, Grain, Irrigated - Operations With Area Harvested	19
Georgia	Wilcox	Corn, Grain, Irrigated - Acres Harvested	1,822
Georgia	Wilcox	Corn, Grain, Irrigated - Operations With Area Harvested	27
Georgia	Worth	Corn, Grain, Irrigated - Acres Harvested	5,707
Georgia	Worth	Corn, Grain, Irrigated - Operations With Area Harvested	31
Georgia	Appling	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Appling	Corn, Grain, Irrigated - Operations With Area Harvested	3
Georgia	Bacon	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Bacon	Corn, Grain, Irrigated - Operations With Area Harvested	3
Georgia	Brantley	Corn, Grain, Irrigated - Acres Harvested	231
Georgia	Brantley	Corn, Grain, Irrigated - Operations With Area Harvested	4
Georgia	Bryan	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Bryan	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Charlton	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Charlton	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Evans	Corn, Grain, Irrigated - Acres Harvested	701
Georgia	Evans	Corn, Grain, Irrigated - Operations With Area Harvested	6
Georgia	Pierce	Corn, Grain, Irrigated - Acres Harvested	2,913
Georgia	Pierce	Corn, Grain, Irrigated - Operations With Area Harvested	15
Georgia	Tattnall	Corn, Grain, Irrigated - Acres Harvested	2,122
Georgia	Tattnall	Corn, Grain, Irrigated - Operations With Area Harvested	30
Georgia	Toombs	Corn, Grain, Irrigated - Acres Harvested	2,396
Georgia	Toombs	Corn, Grain, Irrigated - Operations With Area Harvested	14
Georgia	Ware	Corn, Grain, Irrigated - Acres Harvested	2,024
Georgia	Ware	Corn, Grain, Irrigated - Operations With Area Harvested	7
Georgia	Wayne	Corn, Grain, Irrigated - Acres Harvested	806
Georgia	Wayne	Corn, Grain, Irrigated - Operations With Area Harvested	6
Georgia	Baker	Corn, Grain, Irrigated - Acres Harvested	6,185
Georgia	Baker	Corn, Grain, Irrigated - Operations With Area Harvested	27
Georgia	Calhoun	Corn, Grain, Irrigated - Acres Harvested	6,877
Georgia	Calhoun	Corn, Grain, Irrigated - Operations With Area Harvested	31
Georgia	Clay	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Clay	Corn, Grain, Irrigated - Operations With Area Harvested	4
Georgia	Decatur	Corn, Grain, Irrigated - Acres Harvested	5,218
Georgia	Decatur	Corn, Grain, Irrigated - Operations With Area Harvested	23
Georgia	Dougherty	Corn, Grain, Irrigated - Acres Harvested	1,908
Georgia	Dougherty	Corn, Grain, Irrigated - Operations With Area Harvested	5
Georgia	Early	Corn, Grain, Irrigated - Acres Harvested	5,635
Georgia	Early	Corn, Grain, Irrigated - Operations With Area Harvested	39
Georgia	Grady	Corn, Grain, Irrigated - Acres Harvested	3,808

State	County	Data Item	Value
Georgia	Grady	Corn, Grain, Irrigated - Operations With Area Harvested	26
Georgia	Lee	Corn, Grain, Irrigated - Acres Harvested	4,119
Georgia	Lee	Corn, Grain, Irrigated - Operations With Area Harvested	18
Georgia	Miller	Corn, Grain, Irrigated - Acres Harvested	5,577
Georgia	Miller	Corn, Grain, Irrigated - Operations With Area Harvested	23
Georgia	Mitchell	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Mitchell	Corn, Grain, Irrigated - Operations With Area Harvested	53
Georgia	Randolph	Corn, Grain, Irrigated - Acres Harvested	4,528
Georgia	Randolph	Corn, Grain, Irrigated - Operations With Area Harvested	18
Georgia	Seminole	Corn, Grain, Irrigated - Acres Harvested	7,621
Georgia	Seminole	Corn, Grain, Irrigated - Operations With Area Harvested	16
Georgia	Stewart	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Stewart	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Sumter	Corn, Grain, Irrigated - Acres Harvested	6,493
Georgia	Sumter	Corn, Grain, Irrigated - Operations With Area Harvested	26
Georgia	Terrell	Corn, Grain, Irrigated - Acres Harvested	7,168
Georgia	Terrell	Corn, Grain, Irrigated - Operations With Area Harvested	33
Georgia	Thomas	Corn, Grain, Irrigated - Acres Harvested	1,618
Georgia	Thomas	Corn, Grain, Irrigated - Operations With Area Harvested	17
Georgia	Webster	Corn, Grain, Irrigated - Acres Harvested	105
Georgia	Webster	Corn, Grain, Irrigated - Operations With Area Harvested	3
Georgia	Fayette	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Fayette	Corn, Grain, Irrigated - Operations With Area Harvested	2
Georgia	Harris	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Harris	Corn, Grain, Irrigated - Operations With Area Harvested	2
Georgia	Lamar	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Lamar	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Macon	Corn, Grain, Irrigated - Acres Harvested	3,884
Georgia	Macon	Corn, Grain, Irrigated - Operations With Area Harvested	21
Georgia	Marion	Corn, Grain, Irrigated - Acres Harvested	750
Georgia	Marion	Corn, Grain, Irrigated - Operations With Area Harvested	7
Georgia	Meriwether	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Meriwether	Corn, Grain, Irrigated - Operations With Area Harvested	7
Georgia	Pike	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Pike	Corn, Grain, Irrigated - Operations With Area Harvested	1
Georgia	Schley	Corn, Grain, Irrigated - Acres Harvested	156
Georgia	Schley	Corn, Grain, Irrigated - Operations With Area Harvested	3
Georgia	Taylor	Corn, Grain, Irrigated - Acres Harvested	302
Georgia	Taylor	Corn, Grain, Irrigated - Operations With Area Harvested	13
Georgia	Upson	Corn, Grain, Irrigated - Acres Harvested	(D)
Georgia	Upson	Corn, Grain, Irrigated - Operations With Area Harvested	2
Hawaii	Kauai	Corn, Grain, Irrigated - Acres Harvested	2,267
Hawaii	Kauai	Corn, Grain, Irrigated - Operations With Area Harvested	5
Hawaii	Maui & Kalwao	Corn, Grain, Irrigated - Acres Harvested	(D)
Hawaii	Maui & Kalwao	Corn, Grain, Irrigated - Operations With Area Harvested	3
Hawaii	Honolulu	Corn, Grain, Irrigated - Acres Harvested	(D)
Hawaii	Honolulu	Corn, Grain, Irrigated - Operations With Area Harvested	7
Idaho	Bingham	Corn, Grain, Irrigated - Acres Harvested	2,473
Idaho	Bingham	Corn, Grain, Irrigated - Operations With Area Harvested	13

State	County	Data Item	Value
Idaho	Bonneville	Corn, Grain, Irrigated - Acres Harvested	624
Idaho	Bonneville	Corn, Grain, Irrigated - Operations With Area Harvested	5
Idaho	Custer	Corn, Grain, Irrigated - Acres Harvested	(D)
Idaho	Custer	Corn, Grain, Irrigated - Operations With Area Harvested	1
Idaho	Franklin	Corn, Grain, Irrigated - Acres Harvested	1,066
Idaho	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	19
Idaho	Jefferson	Corn, Grain, Irrigated - Acres Harvested	(D)
Idaho	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	1
Idaho	Oneida	Corn, Grain, Irrigated - Acres Harvested	(D)
Idaho	Oneida	Corn, Grain, Irrigated - Operations With Area Harvested	1
Idaho	Power	Corn, Grain, Irrigated - Acres Harvested	1,844
Idaho	Power	Corn, Grain, Irrigated - Operations With Area Harvested	8
Idaho	Camas	Corn, Grain, Irrigated - Acres Harvested	(D)
Idaho	Camas	Corn, Grain, Irrigated - Operations With Area Harvested	1
Idaho	Cassia	Corn, Grain, Irrigated - Acres Harvested	1,119
Idaho	Cassia	Corn, Grain, Irrigated - Operations With Area Harvested	16
Idaho	Gooding	Corn, Grain, Irrigated - Acres Harvested	14,157
Idaho	Gooding	Corn, Grain, Irrigated - Operations With Area Harvested	70
Idaho	Jerome	Corn, Grain, Irrigated - Acres Harvested	3,942
Idaho	Jerome	Corn, Grain, Irrigated - Operations With Area Harvested	25
Idaho	Lincoln	Corn, Grain, Irrigated - Acres Harvested	3,702
Idaho	Lincoln	Corn, Grain, Irrigated - Operations With Area Harvested	13
Idaho	Minidoka	Corn, Grain, Irrigated - Acres Harvested	1,837
Idaho	Minidoka	Corn, Grain, Irrigated - Operations With Area Harvested	5
Idaho	Twin Falls	Corn, Grain, Irrigated - Acres Harvested	20,828
Idaho	Twin Falls	Corn, Grain, Irrigated - Operations With Area Harvested	225
Idaho	Ada	Corn, Grain, Irrigated - Acres Harvested	5,571
Idaho	Ada	Corn, Grain, Irrigated - Operations With Area Harvested	52
Idaho	Adams	Corn, Grain, Irrigated - Acres Harvested	(D)
Idaho	Adams	Corn, Grain, Irrigated - Operations With Area Harvested	1
Idaho	Canyon	Corn, Grain, Irrigated - Acres Harvested	29,887
Idaho	Canyon	Corn, Grain, Irrigated - Operations With Area Harvested	250
Idaho	Elmore	Corn, Grain, Irrigated - Acres Harvested	8,575
Idaho	Elmore	Corn, Grain, Irrigated - Operations With Area Harvested	14
Idaho	Gem	Corn, Grain, Irrigated - Acres Harvested	4,148
Idaho	Gem	Corn, Grain, Irrigated - Operations With Area Harvested	52
Idaho	Owyhee	Corn, Grain, Irrigated - Acres Harvested	21,055
Idaho	Owyhee	Corn, Grain, Irrigated - Operations With Area Harvested	103
Idaho	Payette	Corn, Grain, Irrigated - Acres Harvested	7,446
Idaho	Payette	Corn, Grain, Irrigated - Operations With Area Harvested	58
Idaho	Washington	Corn, Grain, Irrigated - Acres Harvested	3,500
Idaho	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	32
Illinois	De Witt	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	De Witt	Corn, Grain, Irrigated - Operations With Area Harvested	2
Illinois	Logan	Corn, Grain, Irrigated - Acres Harvested	926
Illinois	Logan	Corn, Grain, Irrigated - Operations With Area Harvested	10
Illinois	Marshall	Corn, Grain, Irrigated - Acres Harvested	947
Illinois	Marshall	Corn, Grain, Irrigated - Operations With Area Harvested	10
Illinois	Mason	Corn, Grain, Irrigated - Acres Harvested	57,732



State	County	Data Item	Value
Illinois	Mason	Corn, Grain, Irrigated - Operations With Area Harvested	180
Illinois	Mclean	Corn, Grain, Irrigated - Acres Harvested	1,411
Illinois	Mclean	Corn, Grain, Irrigated - Operations With Area Harvested	9
Illinois	Menard	Corn, Grain, Irrigated - Acres Harvested	2,913
Illinois	Menard	Corn, Grain, Irrigated - Operations With Area Harvested	17
Illinois	Peoria	Corn, Grain, Irrigated - Acres Harvested	1,711
Illinois	Peoria	Corn, Grain, Irrigated - Operations With Area Harvested	9
Illinois	Tazewell	Corn, Grain, Irrigated - Acres Harvested	27,508
Illinois	Tazewell	Corn, Grain, Irrigated - Operations With Area Harvested	87
Illinois	Woodford	Corn, Grain, Irrigated - Acres Harvested	332
Illinois	Woodford	Corn, Grain, Irrigated - Operations With Area Harvested	4
Illinois	Champaign	Corn, Grain, Irrigated - Acres Harvested	11,831
Illinois	Champaign	Corn, Grain, Irrigated - Operations With Area Harvested	27
Illinois	Ford	Corn, Grain, Irrigated - Acres Harvested	480
Illinois	Ford	Corn, Grain, Irrigated - Operations With Area Harvested	6
Illinois	Iroquois	Corn, Grain, Irrigated - Acres Harvested	2,963
Illinois	Iroquois	Corn, Grain, Irrigated - Operations With Area Harvested	5
Illinois	Kankakee	Corn, Grain, Irrigated - Acres Harvested	7,613
Illinois	Kankakee	Corn, Grain, Irrigated - Operations With Area Harvested	33
Illinois	Livingston	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Livingston	Corn, Grain, Irrigated - Operations With Area Harvested	2
Illinois	Piatt	Corn, Grain, Irrigated - Acres Harvested	745
Illinois	Piatt	Corn, Grain, Irrigated - Operations With Area Harvested	3
Illinois	Vermilion	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Vermilion	Corn, Grain, Irrigated - Operations With Area Harvested	2
Illinois	Clark	Corn, Grain, Irrigated - Acres Harvested	3,515
Illinois	Clark	Corn, Grain, Irrigated - Operations With Area Harvested	16
Illinois	Clay	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Clay	Corn, Grain, Irrigated - Operations With Area Harvested	2
Illinois	Crawford	Corn, Grain, Irrigated - Acres Harvested	4,625
Illinois	Crawford	Corn, Grain, Irrigated - Operations With Area Harvested	28
Illinois	Douglas	Corn, Grain, Irrigated - Acres Harvested	3
Illinois	Douglas	Corn, Grain, Irrigated - Operations With Area Harvested	3
Illinois	Edgar	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Edgar	Corn, Grain, Irrigated - Operations With Area Harvested	2
Illinois	Effingham	Corn, Grain, Irrigated - Acres Harvested	708
Illinois	Effingham	Corn, Grain, Irrigated - Operations With Area Harvested	6
Illinois	Fayette	Corn, Grain, Irrigated - Acres Harvested	4
Illinois	Fayette	Corn, Grain, Irrigated - Operations With Area Harvested	3
Illinois	Lawrence	Corn, Grain, Irrigated - Acres Harvested	8,021
Illinois	Lawrence	Corn, Grain, Irrigated - Operations With Area Harvested	24
Illinois	Richland	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Richland	Corn, Grain, Irrigated - Operations With Area Harvested	2
Illinois	Boone	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Boone	Corn, Grain, Irrigated - Operations With Area Harvested	2
Illinois	Cook	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Cook	Corn, Grain, Irrigated - Operations With Area Harvested	1
Illinois	De Kalb	Corn, Grain, Irrigated - Acres Harvested	1,529
Illinois	De Kalb	Corn, Grain, Irrigated - Operations With Area Harvested	8

State	County	Data Item	Value
Illinois	Grundy	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Grundy	Corn, Grain, Irrigated - Operations With Area Harvested	1
Illinois	Kendall	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Kendall	Corn, Grain, Irrigated - Operations With Area Harvested	2
Illinois	La Salle	Corn, Grain, Irrigated - Acres Harvested	4,702
Illinois	La Salle	Corn, Grain, Irrigated - Operations With Area Harvested	14
Illinois	Mchenry	Corn, Grain, Irrigated - Acres Harvested	7,259
Illinois	Mchenry	Corn, Grain, Irrigated - Operations With Area Harvested	31
Illinois	Will	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Will	Corn, Grain, Irrigated - Operations With Area Harvested	1
Illinois	Bureau	Corn, Grain, Irrigated - Acres Harvested	9,260
Illinois	Bureau	Corn, Grain, Irrigated - Operations With Area Harvested	40
Illinois	Carroll	Corn, Grain, Irrigated - Acres Harvested	5,111
Illinois	Carroll	Corn, Grain, Irrigated - Operations With Area Harvested	9
Illinois	Henry	Corn, Grain, Irrigated - Acres Harvested	7,168
Illinois	Henry	Corn, Grain, Irrigated - Operations With Area Harvested	36
Illinois	Lee	Corn, Grain, Irrigated - Acres Harvested	22,485
Illinois	Lee	Corn, Grain, Irrigated - Operations With Area Harvested	51
Illinois	Mercer	Corn, Grain, Irrigated - Acres Harvested	5,071
Illinois	Mercer	Corn, Grain, Irrigated - Operations With Area Harvested	19
Illinois	Ogle	Corn, Grain, Irrigated - Acres Harvested	575
Illinois	Ogle	Corn, Grain, Irrigated - Operations With Area Harvested	4
Illinois	Putnam	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Putnam	Corn, Grain, Irrigated - Operations With Area Harvested	2
Illinois	Rock Island	Corn, Grain, Irrigated - Acres Harvested	3,099
Illinois	Rock Island	Corn, Grain, Irrigated - Operations With Area Harvested	21
Illinois	Whiteside	Corn, Grain, Irrigated - Acres Harvested	47,795
Illinois	Whiteside	Corn, Grain, Irrigated - Operations With Area Harvested	134
Illinois	Winnebago	Corn, Grain, Irrigated - Acres Harvested	342
Illinois	Winnebago	Corn, Grain, Irrigated - Operations With Area Harvested	3
Illinois	Edwards	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Edwards	Corn, Grain, Irrigated - Operations With Area Harvested	1
Illinois	Gallatin	Corn, Grain, Irrigated - Acres Harvested	16,008
Illinois	Gallatin	Corn, Grain, Irrigated - Operations With Area Harvested	33
Illinois	Jefferson	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	3
Illinois	Massac	Corn, Grain, Irrigated - Acres Harvested	3,970
Illinois	Massac	Corn, Grain, Irrigated - Operations With Area Harvested	12
Illinois	Pope	Corn, Grain, Irrigated - Acres Harvested	198
Illinois	Pope	Corn, Grain, Irrigated - Operations With Area Harvested	3
Illinois	Wabash	Corn, Grain, Irrigated - Acres Harvested	699
Illinois	Wabash	Corn, Grain, Irrigated - Operations With Area Harvested	4
Illinois	Wayne	Corn, Grain, Irrigated - Acres Harvested	1,694
Illinois	Wayne	Corn, Grain, Irrigated - Operations With Area Harvested	5
Illinois	White	Corn, Grain, Irrigated - Acres Harvested	9,605
Illinois	White	Corn, Grain, Irrigated - Operations With Area Harvested	27
Illinois	Alexander	Corn, Grain, Irrigated - Acres Harvested	2,836
Illinois	Alexander	Corn, Grain, Irrigated - Operations With Area Harvested	8
Illinois	Clinton	Corn, Grain, Irrigated - Acres Harvested	489

State	County	Data Item	Value
Illinois	Clinton	Corn, Grain, Irrigated - Operations With Area Harvested	5
Illinois	Jackson	Corn, Grain, Irrigated - Acres Harvested	768
Illinois	Jackson	Corn, Grain, Irrigated - Operations With Area Harvested	6
Illinois	Monroe	Corn, Grain, Irrigated - Acres Harvested	3,019
Illinois	Monroe	Corn, Grain, Irrigated - Operations With Area Harvested	19
Illinois	Perry	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Perry	Corn, Grain, Irrigated - Operations With Area Harvested	2
Illinois	Pulaski	Corn, Grain, Irrigated - Acres Harvested	932
Illinois	Pulaski	Corn, Grain, Irrigated - Operations With Area Harvested	3
Illinois	Randolph	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Randolph	Corn, Grain, Irrigated - Operations With Area Harvested	3
Illinois	St Clair	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	St Clair	Corn, Grain, Irrigated - Operations With Area Harvested	3
Illinois	Union	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Union	Corn, Grain, Irrigated - Operations With Area Harvested	2
Illinois	Washington	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	2
Illinois	Adams	Corn, Grain, Irrigated - Acres Harvested	1,777
Illinois	Adams	Corn, Grain, Irrigated - Operations With Area Harvested	14
Illinois	Brown	Corn, Grain, Irrigated - Acres Harvested	275
Illinois	Brown	Corn, Grain, Irrigated - Operations With Area Harvested	3
Illinois	Fulton	Corn, Grain, Irrigated - Acres Harvested	1,423
Illinois	Fulton	Corn, Grain, Irrigated - Operations With Area Harvested	4
Illinois	Hancock	Corn, Grain, Irrigated - Acres Harvested	2,480
Illinois	Hancock	Corn, Grain, Irrigated - Operations With Area Harvested	14
Illinois	Henderson	Corn, Grain, Irrigated - Acres Harvested	7,241
Illinois	Henderson	Corn, Grain, Irrigated - Operations With Area Harvested	33
Illinois	Knox	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Knox	Corn, Grain, Irrigated - Operations With Area Harvested	1
Illinois	McDonough	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	McDonough	Corn, Grain, Irrigated - Operations With Area Harvested	2
Illinois	Schuyler	Corn, Grain, Irrigated - Acres Harvested	1,091
Illinois	Schuyler	Corn, Grain, Irrigated - Operations With Area Harvested	4
Illinois	Warren	Corn, Grain, Irrigated - Acres Harvested	5,818
Illinois	Warren	Corn, Grain, Irrigated - Operations With Area Harvested	3
Illinois	Cass	Corn, Grain, Irrigated - Acres Harvested	17,639
Illinois	Cass	Corn, Grain, Irrigated - Operations With Area Harvested	54
Illinois	Greene	Corn, Grain, Irrigated - Acres Harvested	6,240
Illinois	Greene	Corn, Grain, Irrigated - Operations With Area Harvested	9
Illinois	Madison	Corn, Grain, Irrigated - Acres Harvested	412
Illinois	Madison	Corn, Grain, Irrigated - Operations With Area Harvested	8
Illinois	Montgomery	Corn, Grain, Irrigated - Acres Harvested	(D)
Illinois	Montgomery	Corn, Grain, Irrigated - Operations With Area Harvested	1
Illinois	Morgan	Corn, Grain, Irrigated - Acres Harvested	3,599
Illinois	Morgan	Corn, Grain, Irrigated - Operations With Area Harvested	12
Illinois	Pike	Corn, Grain, Irrigated - Acres Harvested	1,085
Illinois	Pike	Corn, Grain, Irrigated - Operations With Area Harvested	9
Illinois	Sangamon	Corn, Grain, Irrigated - Acres Harvested	698
Illinois	Sangamon	Corn, Grain, Irrigated - Operations With Area Harvested	4

State	County	Data Item	Value
Illinois	Scott	Corn, Grain, Irrigated - Acres Harvested	3,111
Illinois	Scott	Corn, Grain, Irrigated - Operations With Area Harvested	10
Indiana	Bartholomew	Corn, Grain, Irrigated - Acres Harvested	8,879
Indiana	Bartholomew	Corn, Grain, Irrigated - Operations With Area Harvested	40
Indiana	Boone	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Boone	Corn, Grain, Irrigated - Operations With Area Harvested	4
Indiana	Clinton	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Clinton	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Decatur	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Decatur	Corn, Grain, Irrigated - Operations With Area Harvested	2
Indiana	Hamilton	Corn, Grain, Irrigated - Acres Harvested	2,649
Indiana	Hamilton	Corn, Grain, Irrigated - Operations With Area Harvested	3
Indiana	Hancock	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Hancock	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Johnson	Corn, Grain, Irrigated - Acres Harvested	1,773
Indiana	Johnson	Corn, Grain, Irrigated - Operations With Area Harvested	8
Indiana	Madison	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Madison	Corn, Grain, Irrigated - Operations With Area Harvested	2
Indiana	Marion	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Marion	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Rush	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Rush	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Shelby	Corn, Grain, Irrigated - Acres Harvested	2,436
Indiana	Shelby	Corn, Grain, Irrigated - Operations With Area Harvested	18
Indiana	Tipton	Corn, Grain, Irrigated - Acres Harvested	693
Indiana	Tipton	Corn, Grain, Irrigated - Operations With Area Harvested	3
Indiana	Randolph	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Randolph	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Wayne	Corn, Grain, Irrigated - Acres Harvested	481
Indiana	Wayne	Corn, Grain, Irrigated - Operations With Area Harvested	6
Indiana	Carroll	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Carroll	Corn, Grain, Irrigated - Operations With Area Harvested	6
Indiana	Cass	Corn, Grain, Irrigated - Acres Harvested	1,211
Indiana	Cass	Corn, Grain, Irrigated - Operations With Area Harvested	6
Indiana	Elkhart	Corn, Grain, Irrigated - Acres Harvested	16,049
Indiana	Elkhart	Corn, Grain, Irrigated - Operations With Area Harvested	63
Indiana	Fulton	Corn, Grain, Irrigated - Acres Harvested	16,947
Indiana	Fulton	Corn, Grain, Irrigated - Operations With Area Harvested	62
Indiana	Kosciusko	Corn, Grain, Irrigated - Acres Harvested	11,159
Indiana	Kosciusko	Corn, Grain, Irrigated - Operations With Area Harvested	49
Indiana	Marshall	Corn, Grain, Irrigated - Acres Harvested	9,949
Indiana	Marshall	Corn, Grain, Irrigated - Operations With Area Harvested	41
Indiana	Miami	Corn, Grain, Irrigated - Acres Harvested	2,085
Indiana	Miami	Corn, Grain, Irrigated - Operations With Area Harvested	11
Indiana	St. Joseph	Corn, Grain, Irrigated - Acres Harvested	21,286
Indiana	St. Joseph	Corn, Grain, Irrigated - Operations With Area Harvested	61
Indiana	Wabash	Corn, Grain, Irrigated - Acres Harvested	1,607
Indiana	Wabash	Corn, Grain, Irrigated - Operations With Area Harvested	8
Indiana	Adams	Corn, Grain, Irrigated - Acres Harvested	13

State	County	Data Item	Value
Indiana	Adams	Corn, Grain, Irrigated - Operations With Area Harvested	8
Indiana	Allen	Corn, Grain, Irrigated - Acres Harvested	153
Indiana	Allen	Corn, Grain, Irrigated - Operations With Area Harvested	4
Indiana	De Kalb	Corn, Grain, Irrigated - Acres Harvested	359
Indiana	De Kalb	Corn, Grain, Irrigated - Operations With Area Harvested	4
Indiana	Huntington	Corn, Grain, Irrigated - Acres Harvested	424
Indiana	Huntington	Corn, Grain, Irrigated - Operations With Area Harvested	4
Indiana	Lagrange	Corn, Grain, Irrigated - Acres Harvested	17,048
Indiana	Lagrange	Corn, Grain, Irrigated - Operations With Area Harvested	73
Indiana	Noble	Corn, Grain, Irrigated - Acres Harvested	10,688
Indiana	Noble	Corn, Grain, Irrigated - Operations With Area Harvested	27
Indiana	Steuben	Corn, Grain, Irrigated - Acres Harvested	1,589
Indiana	Steuben	Corn, Grain, Irrigated - Operations With Area Harvested	10
Indiana	Whitley	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Whitley	Corn, Grain, Irrigated - Operations With Area Harvested	2
Indiana	Benton	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Benton	Corn, Grain, Irrigated - Operations With Area Harvested	3
Indiana	Jasper	Corn, Grain, Irrigated - Acres Harvested	14,049
Indiana	Jasper	Corn, Grain, Irrigated - Operations With Area Harvested	43
Indiana	La Porte	Corn, Grain, Irrigated - Acres Harvested	38,590
Indiana	La Porte	Corn, Grain, Irrigated - Operations With Area Harvested	117
Indiana	Lake	Corn, Grain, Irrigated - Acres Harvested	6,438
Indiana	Lake	Corn, Grain, Irrigated - Operations With Area Harvested	16
Indiana	Newton	Corn, Grain, Irrigated - Acres Harvested	4,425
Indiana	Newton	Corn, Grain, Irrigated - Operations With Area Harvested	5
Indiana	Porter	Corn, Grain, Irrigated - Acres Harvested	6,074
Indiana	Porter	Corn, Grain, Irrigated - Operations With Area Harvested	31
Indiana	Pulaski	Corn, Grain, Irrigated - Acres Harvested	10,924
Indiana	Pulaski	Corn, Grain, Irrigated - Operations With Area Harvested	45
Indiana	Starke	Corn, Grain, Irrigated - Acres Harvested	17,152
Indiana	Starke	Corn, Grain, Irrigated - Operations With Area Harvested	60
Indiana	White	Corn, Grain, Irrigated - Acres Harvested	3,531
Indiana	White	Corn, Grain, Irrigated - Operations With Area Harvested	17
Indiana	Jackson	Corn, Grain, Irrigated - Acres Harvested	1,677
Indiana	Jackson	Corn, Grain, Irrigated - Operations With Area Harvested	12
Indiana	Lawrence	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Lawrence	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Monroe	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Monroe	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Orange	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Orange	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Washington	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Clark	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Clark	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Dearborn	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Dearborn	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Franklin	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	1

State	County	Data Item	Value
Indiana	Jefferson	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Jennings	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Jennings	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Ripley	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Ripley	Corn, Grain, Irrigated - Operations With Area Harvested	2
Indiana	Daviess	Corn, Grain, Irrigated - Acres Harvested	5,120
Indiana	Daviess	Corn, Grain, Irrigated - Operations With Area Harvested	11
Indiana	Dubois	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Dubois	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Gibson	Corn, Grain, Irrigated - Acres Harvested	3,115
Indiana	Gibson	Corn, Grain, Irrigated - Operations With Area Harvested	17
Indiana	Greene	Corn, Grain, Irrigated - Acres Harvested	1,728
Indiana	Greene	Corn, Grain, Irrigated - Operations With Area Harvested	5
Indiana	Knox	Corn, Grain, Irrigated - Acres Harvested	20,870
Indiana	Knox	Corn, Grain, Irrigated - Operations With Area Harvested	66
Indiana	Martin	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Martin	Corn, Grain, Irrigated - Operations With Area Harvested	3
Indiana	Pike	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Pike	Corn, Grain, Irrigated - Operations With Area Harvested	1
Indiana	Posey	Corn, Grain, Irrigated - Acres Harvested	11,254
Indiana	Posey	Corn, Grain, Irrigated - Operations With Area Harvested	43
Indiana	Spencer	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Spencer	Corn, Grain, Irrigated - Operations With Area Harvested	2
Indiana	Sullivan	Corn, Grain, Irrigated - Acres Harvested	3,581
Indiana	Sullivan	Corn, Grain, Irrigated - Operations With Area Harvested	19
Indiana	Vanderburgh	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Vanderburgh	Corn, Grain, Irrigated - Operations With Area Harvested	2
Indiana	Clay	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Clay	Corn, Grain, Irrigated - Operations With Area Harvested	2
Indiana	Fountain	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Fountain	Corn, Grain, Irrigated - Operations With Area Harvested	2
Indiana	Montgomery	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Montgomery	Corn, Grain, Irrigated - Operations With Area Harvested	5
Indiana	Parke	Corn, Grain, Irrigated - Acres Harvested	1,710
Indiana	Parke	Corn, Grain, Irrigated - Operations With Area Harvested	12
Indiana	Putnam	Corn, Grain, Irrigated - Acres Harvested	18
Indiana	Putnam	Corn, Grain, Irrigated - Operations With Area Harvested	3
Indiana	Tippecanoe	Corn, Grain, Irrigated - Acres Harvested	2,790
Indiana	Tippecanoe	Corn, Grain, Irrigated - Operations With Area Harvested	10
Indiana	Vermillion	Corn, Grain, Irrigated - Acres Harvested	(D)
Indiana	Vermillion	Corn, Grain, Irrigated - Operations With Area Harvested	4
Indiana	Vigo	Corn, Grain, Irrigated - Acres Harvested	704
Indiana	Vigo	Corn, Grain, Irrigated - Operations With Area Harvested	6
Indiana	Warren	Corn, Grain, Irrigated - Acres Harvested	1,720
Indiana	Warren	Corn, Grain, Irrigated - Operations With Area Harvested	4
Iowa	Boone	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Boone	Corn, Grain, Irrigated - Operations With Area Harvested	3
Iowa	Dallas	Corn, Grain, Irrigated - Acres Harvested	(D)

State	County	Data Item	Value
Iowa	Dallas	Corn, Grain, Irrigated - Operations With Area Harvested	2
Iowa	Hamilton	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Hamilton	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Jasper	Corn, Grain, Irrigated - Acres Harvested	687
Iowa	Jasper	Corn, Grain, Irrigated - Operations With Area Harvested	5
Iowa	Marshall	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Marshall	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Polk	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Polk	Corn, Grain, Irrigated - Operations With Area Harvested	2
Iowa	Story	Corn, Grain, Irrigated - Acres Harvested	269
Iowa	Story	Corn, Grain, Irrigated - Operations With Area Harvested	4
Iowa	Webster	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Webster	Corn, Grain, Irrigated - Operations With Area Harvested	2
Iowa	Cedar	Corn, Grain, Irrigated - Acres Harvested	272
Iowa	Cedar	Corn, Grain, Irrigated - Operations With Area Harvested	3
Iowa	Iowa	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Iowa	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Jackson	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Jackson	Corn, Grain, Irrigated - Operations With Area Harvested	3
Iowa	Jones	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Jones	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Linn	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Linn	Corn, Grain, Irrigated - Operations With Area Harvested	2
Iowa	Muscatine	Corn, Grain, Irrigated - Acres Harvested	4,841
Iowa	Muscatine	Corn, Grain, Irrigated - Operations With Area Harvested	36
Iowa	Butler	Corn, Grain, Irrigated - Acres Harvested	344
Iowa	Butler	Corn, Grain, Irrigated - Operations With Area Harvested	4
Iowa	Cerro Gordo	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Cerro Gordo	Corn, Grain, Irrigated - Operations With Area Harvested	2
Iowa	Floyd	Corn, Grain, Irrigated - Acres Harvested	1,415
Iowa	Floyd	Corn, Grain, Irrigated - Operations With Area Harvested	9
Iowa	Hancock	Corn, Grain, Irrigated - Acres Harvested	737
Iowa	Hancock	Corn, Grain, Irrigated - Operations With Area Harvested	6
Iowa	Kossuth	Corn, Grain, Irrigated - Acres Harvested	239
Iowa	Kossuth	Corn, Grain, Irrigated - Operations With Area Harvested	3
Iowa	Mitchell	Corn, Grain, Irrigated - Acres Harvested	911
Iowa	Mitchell	Corn, Grain, Irrigated - Operations With Area Harvested	4
Iowa	Worth	Corn, Grain, Irrigated - Acres Harvested	995
Iowa	Worth	Corn, Grain, Irrigated - Operations With Area Harvested	7
Iowa	Allamakee	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Allamakee	Corn, Grain, Irrigated - Operations With Area Harvested	2
Iowa	Bremer	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Bremer	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Chickasaw	Corn, Grain, Irrigated - Acres Harvested	120
Iowa	Chickasaw	Corn, Grain, Irrigated - Operations With Area Harvested	3
Iowa	Clayton	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Clayton	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Delaware	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Delaware	Corn, Grain, Irrigated - Operations With Area Harvested	2

State	County	Data Item	Value
Iowa	Fayette	Corn, Grain, Irrigated - Acres Harvested	88
Iowa	Fayette	Corn, Grain, Irrigated - Operations With Area Harvested	5
Iowa	Howard	Corn, Grain, Irrigated - Acres Harvested	68
Iowa	Howard	Corn, Grain, Irrigated - Operations With Area Harvested	7
Iowa	Winneshiek	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Winneshiek	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Buena Vista	Corn, Grain, Irrigated - Acres Harvested	618
Iowa	Buena Vista	Corn, Grain, Irrigated - Operations With Area Harvested	3
Iowa	Clay	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Clay	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Dickinson	Corn, Grain, Irrigated - Acres Harvested	744
Iowa	Dickinson	Corn, Grain, Irrigated - Operations With Area Harvested	8
Iowa	Emmet	Corn, Grain, Irrigated - Acres Harvested	201
Iowa	Emmet	Corn, Grain, Irrigated - Operations With Area Harvested	3
Iowa	Lyon	Corn, Grain, Irrigated - Acres Harvested	1,071
Iowa	Lyon	Corn, Grain, Irrigated - Operations With Area Harvested	13
Iowa	O'Brien	Corn, Grain, Irrigated - Acres Harvested	431
Iowa	O'Brien	Corn, Grain, Irrigated - Operations With Area Harvested	4
Iowa	Osceola	Corn, Grain, Irrigated - Acres Harvested	1,057
Iowa	Osceola	Corn, Grain, Irrigated - Operations With Area Harvested	10
Iowa	Palo Alto	Corn, Grain, Irrigated - Acres Harvested	3,455
Iowa	Palo Alto	Corn, Grain, Irrigated - Operations With Area Harvested	25
Iowa	Plymouth	Corn, Grain, Irrigated - Acres Harvested	1,420
Iowa	Plymouth	Corn, Grain, Irrigated - Operations With Area Harvested	10
Iowa	Pocahontas	Corn, Grain, Irrigated - Acres Harvested	383
Iowa	Pocahontas	Corn, Grain, Irrigated - Operations With Area Harvested	6
Iowa	Sioux	Corn, Grain, Irrigated - Acres Harvested	5,033
Iowa	Sioux	Corn, Grain, Irrigated - Operations With Area Harvested	35
Iowa	Decatur	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Decatur	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Warren	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Warren	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Des Moines	Corn, Grain, Irrigated - Acres Harvested	2,540
Iowa	Des Moines	Corn, Grain, Irrigated - Operations With Area Harvested	16
Iowa	Jefferson	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	2
Iowa	Lee	Corn, Grain, Irrigated - Acres Harvested	953
Iowa	Lee	Corn, Grain, Irrigated - Operations With Area Harvested	4
Iowa	Louisa	Corn, Grain, Irrigated - Acres Harvested	7,127
Iowa	Louisa	Corn, Grain, Irrigated - Operations With Area Harvested	33
Iowa	Mahaska	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Mahaska	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Wapello	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Wapello	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Washington	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Cass	Corn, Grain, Irrigated - Acres Harvested	330
Iowa	Cass	Corn, Grain, Irrigated - Operations With Area Harvested	3
Iowa	Fremont	Corn, Grain, Irrigated - Acres Harvested	6,175



State	County	Data Item	Value
Iowa	Fremont	Corn, Grain, Irrigated - Operations With Area Harvested	18
Iowa	Mills	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Mills	Corn, Grain, Irrigated - Operations With Area Harvested	2
Iowa	Montgomery	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Montgomery	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Page	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Page	Corn, Grain, Irrigated - Operations With Area Harvested	2
Iowa	Pottawattamie	Corn, Grain, Irrigated - Acres Harvested	2,378
Iowa	Pottawattamie	Corn, Grain, Irrigated - Operations With Area Harvested	9
Iowa	Calhoun	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Calhoun	Corn, Grain, Irrigated - Operations With Area Harvested	2
Iowa	Carroll	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Carroll	Corn, Grain, Irrigated - Operations With Area Harvested	2
Iowa	Crawford	Corn, Grain, Irrigated - Acres Harvested	965
Iowa	Crawford	Corn, Grain, Irrigated - Operations With Area Harvested	5
Iowa	Greene	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Greene	Corn, Grain, Irrigated - Operations With Area Harvested	7
Iowa	Guthrie	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Guthrie	Corn, Grain, Irrigated - Operations With Area Harvested	3
Iowa	Harrison	Corn, Grain, Irrigated - Acres Harvested	17,035
Iowa	Harrison	Corn, Grain, Irrigated - Operations With Area Harvested	57
Iowa	Ida	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Ida	Corn, Grain, Irrigated - Operations With Area Harvested	1
Iowa	Monona	Corn, Grain, Irrigated - Acres Harvested	40,063
Iowa	Monona	Corn, Grain, Irrigated - Operations With Area Harvested	96
Iowa	Sac	Corn, Grain, Irrigated - Acres Harvested	198
Iowa	Sac	Corn, Grain, Irrigated - Operations With Area Harvested	3
Iowa	Shelby	Corn, Grain, Irrigated - Acres Harvested	(D)
Iowa	Shelby	Corn, Grain, Irrigated - Operations With Area Harvested	2
Iowa	Woodbury	Corn, Grain, Irrigated - Acres Harvested	3,618
Iowa	Woodbury	Corn, Grain, Irrigated - Operations With Area Harvested	15
Kansas	Barton	Corn, Grain, Irrigated - Acres Harvested	15,492
Kansas	Barton	Corn, Grain, Irrigated - Operations With Area Harvested	43
Kansas	Dickinson	Corn, Grain, Irrigated - Acres Harvested	1,793
Kansas	Dickinson	Corn, Grain, Irrigated - Operations With Area Harvested	21
Kansas	Ellis	Corn, Grain, Irrigated - Acres Harvested	(D)
Kansas	Ellis	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kansas	Ellsworth	Corn, Grain, Irrigated - Acres Harvested	155
Kansas	Ellsworth	Corn, Grain, Irrigated - Operations With Area Harvested	3
Kansas	Lincoln	Corn, Grain, Irrigated - Acres Harvested	332
Kansas	Lincoln	Corn, Grain, Irrigated - Operations With Area Harvested	4
Kansas	Marion	Corn, Grain, Irrigated - Acres Harvested	2,140
Kansas	Marion	Corn, Grain, Irrigated - Operations With Area Harvested	15
Kansas	Mcpherson	Corn, Grain, Irrigated - Acres Harvested	18,673
Kansas	Mcpherson	Corn, Grain, Irrigated - Operations With Area Harvested	114
Kansas	Rice	Corn, Grain, Irrigated - Acres Harvested	13,289
Kansas	Rice	Corn, Grain, Irrigated - Operations With Area Harvested	47
Kansas	Rush	Corn, Grain, Irrigated - Acres Harvested	5,591
Kansas	Rush	Corn, Grain, Irrigated - Operations With Area Harvested	28

State	County	Data Item	Value
Kansas	Russell	Corn, Grain, Irrigated - Acres Harvested	(D)
Kansas	Russell	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kansas	Saline	Corn, Grain, Irrigated - Acres Harvested	486
Kansas	Saline	Corn, Grain, Irrigated - Operations With Area Harvested	10
Kansas	Anderson	Corn, Grain, Irrigated - Acres Harvested	901
Kansas	Anderson	Corn, Grain, Irrigated - Operations With Area Harvested	12
Kansas	Coffey	Corn, Grain, Irrigated - Acres Harvested	541
Kansas	Coffey	Corn, Grain, Irrigated - Operations With Area Harvested	8
Kansas	Douglas	Corn, Grain, Irrigated - Acres Harvested	2,086
Kansas	Douglas	Corn, Grain, Irrigated - Operations With Area Harvested	11
Kansas	Franklin	Corn, Grain, Irrigated - Acres Harvested	1,454
Kansas	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	8
Kansas	Geary	Corn, Grain, Irrigated - Acres Harvested	2,020
Kansas	Geary	Corn, Grain, Irrigated - Operations With Area Harvested	12
Kansas	Johnson	Corn, Grain, Irrigated - Acres Harvested	26
Kansas	Johnson	Corn, Grain, Irrigated - Operations With Area Harvested	3
Kansas	Miami	Corn, Grain, Irrigated - Acres Harvested	470
Kansas	Miami	Corn, Grain, Irrigated - Operations With Area Harvested	5
Kansas	Morris	Corn, Grain, Irrigated - Acres Harvested	(D)
Kansas	Morris	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kansas	Shawnee	Corn, Grain, Irrigated - Acres Harvested	11,891
Kansas	Shawnee	Corn, Grain, Irrigated - Operations With Area Harvested	53
Kansas	Wabaunsee	Corn, Grain, Irrigated - Acres Harvested	3,406
Kansas	Wabaunsee	Corn, Grain, Irrigated - Operations With Area Harvested	13
Kansas	Clay	Corn, Grain, Irrigated - Acres Harvested	15,628
Kansas	Clay	Corn, Grain, Irrigated - Operations With Area Harvested	59
Kansas	Cloud	Corn, Grain, Irrigated - Acres Harvested	7,089
Kansas	Cloud	Corn, Grain, Irrigated - Operations With Area Harvested	67
Kansas	Jewell	Corn, Grain, Irrigated - Acres Harvested	9,964
Kansas	Jewell	Corn, Grain, Irrigated - Operations With Area Harvested	24
Kansas	Mitchell	Corn, Grain, Irrigated - Acres Harvested	3,674
Kansas	Mitchell	Corn, Grain, Irrigated - Operations With Area Harvested	27
Kansas	Osborne	Corn, Grain, Irrigated - Acres Harvested	2,357
Kansas	Osborne	Corn, Grain, Irrigated - Operations With Area Harvested	31
Kansas	Ottawa	Corn, Grain, Irrigated - Acres Harvested	1,600
Kansas	Ottawa	Corn, Grain, Irrigated - Operations With Area Harvested	15
Kansas	Phillips	Corn, Grain, Irrigated - Acres Harvested	2,463
Kansas	Phillips	Corn, Grain, Irrigated - Operations With Area Harvested	16
Kansas	Republic	Corn, Grain, Irrigated - Acres Harvested	23,915
Kansas	Republic	Corn, Grain, Irrigated - Operations With Area Harvested	96
Kansas	Rooks	Corn, Grain, Irrigated - Acres Harvested	1,317
Kansas	Rooks	Corn, Grain, Irrigated - Operations With Area Harvested	9
Kansas	Smith	Corn, Grain, Irrigated - Acres Harvested	3,912
Kansas	Smith	Corn, Grain, Irrigated - Operations With Area Harvested	45
Kansas	Washington	Corn, Grain, Irrigated - Acres Harvested	5,215
Kansas	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	31
Kansas	Brown	Corn, Grain, Irrigated - Acres Harvested	3,432
Kansas	Brown	Corn, Grain, Irrigated - Operations With Area Harvested	14
Kansas	Doniphan	Corn, Grain, Irrigated - Acres Harvested	896

State	County	Data Item	Value
Kansas	Doniphan	Corn, Grain, Irrigated - Operations With Area Harvested	5
Kansas	Jackson	Corn, Grain, Irrigated - Acres Harvested	318
Kansas	Jackson	Corn, Grain, Irrigated - Operations With Area Harvested	3
Kansas	Jefferson	Corn, Grain, Irrigated - Acres Harvested	2,240
Kansas	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	18
Kansas	Leavenworth	Corn, Grain, Irrigated - Acres Harvested	(D)
Kansas	Leavenworth	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kansas	Marshall	Corn, Grain, Irrigated - Acres Harvested	1,961
Kansas	Marshall	Corn, Grain, Irrigated - Operations With Area Harvested	13
Kansas	Nemaha	Corn, Grain, Irrigated - Acres Harvested	753
Kansas	Nemaha	Corn, Grain, Irrigated - Operations With Area Harvested	9
Kansas	Pottawatomie	Corn, Grain, Irrigated - Acres Harvested	11,801
Kansas	Pottawatomie	Corn, Grain, Irrigated - Operations With Area Harvested	45
Kansas	Riley	Corn, Grain, Irrigated - Acres Harvested	1,482
Kansas	Riley	Corn, Grain, Irrigated - Operations With Area Harvested	12
Kansas	Wyandotte	Corn, Grain, Irrigated - Acres Harvested	(D)
Kansas	Wyandotte	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kansas	Cheyenne	Corn, Grain, Irrigated - Acres Harvested	29,498
Kansas	Cheyenne	Corn, Grain, Irrigated - Operations With Area Harvested	77
Kansas	Decatur	Corn, Grain, Irrigated - Acres Harvested	8,188
Kansas	Decatur	Corn, Grain, Irrigated - Operations With Area Harvested	41
Kansas	Graham	Corn, Grain, Irrigated - Acres Harvested	6,525
Kansas	Graham	Corn, Grain, Irrigated - Operations With Area Harvested	32
Kansas	Norton	Corn, Grain, Irrigated - Acres Harvested	9,186
Kansas	Norton	Corn, Grain, Irrigated - Operations With Area Harvested	35
Kansas	Rawlins	Corn, Grain, Irrigated - Acres Harvested	12,142
Kansas	Rawlins	Corn, Grain, Irrigated - Operations With Area Harvested	52
Kansas	Sheridan	Corn, Grain, Irrigated - Acres Harvested	49,852
Kansas	Sheridan	Corn, Grain, Irrigated - Operations With Area Harvested	144
Kansas	Sherman	Corn, Grain, Irrigated - Acres Harvested	65,478
Kansas	Sherman	Corn, Grain, Irrigated - Operations With Area Harvested	121
Kansas	Thomas	Corn, Grain, Irrigated - Acres Harvested	57,009
Kansas	Thomas	Corn, Grain, Irrigated - Operations With Area Harvested	112
Kansas	Barber	Corn, Grain, Irrigated - Acres Harvested	3,421
Kansas	Barber	Corn, Grain, Irrigated - Operations With Area Harvested	11
Kansas	Comanche	Corn, Grain, Irrigated - Acres Harvested	(D)
Kansas	Comanche	Corn, Grain, Irrigated - Operations With Area Harvested	8
Kansas	Edwards	Corn, Grain, Irrigated - Acres Harvested	57,210
Kansas	Edwards	Corn, Grain, Irrigated - Operations With Area Harvested	92
Kansas	Harper	Corn, Grain, Irrigated - Acres Harvested	590
Kansas	Harper	Corn, Grain, Irrigated - Operations With Area Harvested	3
Kansas	Harvey	Corn, Grain, Irrigated - Acres Harvested	22,765
Kansas	Harvey	Corn, Grain, Irrigated - Operations With Area Harvested	83
Kansas	Kingman	Corn, Grain, Irrigated - Acres Harvested	9,126
Kansas	Kingman	Corn, Grain, Irrigated - Operations With Area Harvested	32
Kansas	Kiowa	Corn, Grain, Irrigated - Acres Harvested	21,855
Kansas	Kiowa	Corn, Grain, Irrigated - Operations With Area Harvested	34
Kansas	Pawnee	Corn, Grain, Irrigated - Acres Harvested	32,977
Kansas	Pawnee	Corn, Grain, Irrigated - Operations With Area Harvested	80

State	County	Data Item	Value
Kansas	Pratt	Corn, Grain, Irrigated - Acres Harvested	45,619
Kansas	Pratt	Corn, Grain, Irrigated - Operations With Area Harvested	118
Kansas	Reno	Corn, Grain, Irrigated - Acres Harvested	19,567
Kansas	Reno	Corn, Grain, Irrigated - Operations With Area Harvested	86
Kansas	Sedgwick	Corn, Grain, Irrigated - Acres Harvested	19,758
Kansas	Sedgwick	Corn, Grain, Irrigated - Operations With Area Harvested	74
Kansas	Stafford	Corn, Grain, Irrigated - Acres Harvested	36,134
Kansas	Stafford	Corn, Grain, Irrigated - Operations With Area Harvested	117
Kansas	Sumner	Corn, Grain, Irrigated - Acres Harvested	5,762
Kansas	Sumner	Corn, Grain, Irrigated - Operations With Area Harvested	20
Kansas	Allen	Corn, Grain, Irrigated - Acres Harvested	(D)
Kansas	Allen	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kansas	Bourbon	Corn, Grain, Irrigated - Acres Harvested	(D)
Kansas	Bourbon	Corn, Grain, Irrigated - Operations With Area Harvested	3
Kansas	Butler	Corn, Grain, Irrigated - Acres Harvested	2,399
Kansas	Butler	Corn, Grain, Irrigated - Operations With Area Harvested	11
Kansas	Cherokee	Corn, Grain, Irrigated - Acres Harvested	660
Kansas	Cherokee	Corn, Grain, Irrigated - Operations With Area Harvested	4
Kansas	Cowley	Corn, Grain, Irrigated - Acres Harvested	1,186
Kansas	Cowley	Corn, Grain, Irrigated - Operations With Area Harvested	10
Kansas	Crawford	Corn, Grain, Irrigated - Acres Harvested	707
Kansas	Crawford	Corn, Grain, Irrigated - Operations With Area Harvested	5
Kansas	Greenwood	Corn, Grain, Irrigated - Acres Harvested	(D)
Kansas	Greenwood	Corn, Grain, Irrigated - Operations With Area Harvested	2
Kansas	Labette	Corn, Grain, Irrigated - Acres Harvested	(D)
Kansas	Labette	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kansas	Montgomery	Corn, Grain, Irrigated - Acres Harvested	1,848
Kansas	Montgomery	Corn, Grain, Irrigated - Operations With Area Harvested	6
Kansas	Wilson	Corn, Grain, Irrigated - Acres Harvested	676
Kansas	Wilson	Corn, Grain, Irrigated - Operations With Area Harvested	3
Kansas	Clark	Corn, Grain, Irrigated - Acres Harvested	750
Kansas	Clark	Corn, Grain, Irrigated - Operations With Area Harvested	3
Kansas	Finney	Corn, Grain, Irrigated - Acres Harvested	80,695
Kansas	Finney	Corn, Grain, Irrigated - Operations With Area Harvested	153
Kansas	Ford	Corn, Grain, Irrigated - Acres Harvested	31,966
Kansas	Ford	Corn, Grain, Irrigated - Operations With Area Harvested	67
Kansas	Grant	Corn, Grain, Irrigated - Acres Harvested	39,187
Kansas	Grant	Corn, Grain, Irrigated - Operations With Area Harvested	84
Kansas	Gray	Corn, Grain, Irrigated - Acres Harvested	54,041
Kansas	Gray	Corn, Grain, Irrigated - Operations With Area Harvested	123
Kansas	Hamilton	Corn, Grain, Irrigated - Acres Harvested	5,574
Kansas	Hamilton	Corn, Grain, Irrigated - Operations With Area Harvested	14
Kansas	Haskell	Corn, Grain, Irrigated - Acres Harvested	54,420
Kansas	Haskell	Corn, Grain, Irrigated - Operations With Area Harvested	79
Kansas	Hodgeman	Corn, Grain, Irrigated - Acres Harvested	(D)
Kansas	Hodgeman	Corn, Grain, Irrigated - Operations With Area Harvested	55
Kansas	Kearny	Corn, Grain, Irrigated - Acres Harvested	21,312
Kansas	Kearny	Corn, Grain, Irrigated - Operations With Area Harvested	50
Kansas	Meade	Corn, Grain, Irrigated - Acres Harvested	86,136

State	County	Data Item	Value
Kansas	Meade	Corn, Grain, Irrigated - Operations With Area Harvested	121
Kansas	Morton	Corn, Grain, Irrigated - Acres Harvested	23,082
Kansas	Morton	Corn, Grain, Irrigated - Operations With Area Harvested	54
Kansas	Seward	Corn, Grain, Irrigated - Acres Harvested	44,826
Kansas	Seward	Corn, Grain, Irrigated - Operations With Area Harvested	61
Kansas	Stanton	Corn, Grain, Irrigated - Acres Harvested	43,137
Kansas	Stanton	Corn, Grain, Irrigated - Operations With Area Harvested	62
Kansas	Stevens	Corn, Grain, Irrigated - Acres Harvested	97,886
Kansas	Stevens	Corn, Grain, Irrigated - Operations With Area Harvested	81
Kansas	Gove	Corn, Grain, Irrigated - Acres Harvested	12,664
Kansas	Gove	Corn, Grain, Irrigated - Operations With Area Harvested	63
Kansas	Greeley	Corn, Grain, Irrigated - Acres Harvested	12,025
Kansas	Greeley	Corn, Grain, Irrigated - Operations With Area Harvested	31
Kansas	Lane	Corn, Grain, Irrigated - Acres Harvested	5,919
Kansas	Lane	Corn, Grain, Irrigated - Operations With Area Harvested	21
Kansas	Logan	Corn, Grain, Irrigated - Acres Harvested	6,049
Kansas	Logan	Corn, Grain, Irrigated - Operations With Area Harvested	26
Kansas	Ness	Corn, Grain, Irrigated - Acres Harvested	702
Kansas	Ness	Corn, Grain, Irrigated - Operations With Area Harvested	11
Kansas	Scott	Corn, Grain, Irrigated - Acres Harvested	15,644
Kansas	Scott	Corn, Grain, Irrigated - Operations With Area Harvested	56
Kansas	Trego	Corn, Grain, Irrigated - Acres Harvested	2,375
Kansas	Trego	Corn, Grain, Irrigated - Operations With Area Harvested	17
Kansas	Wallace	Corn, Grain, Irrigated - Acres Harvested	38,243
Kansas	Wallace	Corn, Grain, Irrigated - Operations With Area Harvested	56
Kansas	Wichita	Corn, Grain, Irrigated - Acres Harvested	25,423
Kansas	Wichita	Corn, Grain, Irrigated - Operations With Area Harvested	75
Kentucky	Bath	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Bath	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Boyle	Corn, Grain, Irrigated - Acres Harvested	90
Kentucky	Boyle	Corn, Grain, Irrigated - Operations With Area Harvested	3
Kentucky	Fleming	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Fleming	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Garrard	Corn, Grain, Irrigated - Acres Harvested	42
Kentucky	Garrard	Corn, Grain, Irrigated - Operations With Area Harvested	4
Kentucky	Harrison	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Harrison	Corn, Grain, Irrigated - Operations With Area Harvested	4
Kentucky	Jessamine	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Jessamine	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Lincoln	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Lincoln	Corn, Grain, Irrigated - Operations With Area Harvested	2
Kentucky	Madison	Corn, Grain, Irrigated - Acres Harvested	20
Kentucky	Madison	Corn, Grain, Irrigated - Operations With Area Harvested	7
Kentucky	Mason	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Mason	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Nicholas	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Nicholas	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Scott	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Scott	Corn, Grain, Irrigated - Operations With Area Harvested	5

State	County	Data Item	Value
Kentucky	Shelby	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Shelby	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Washington	Corn, Grain, Irrigated - Acres Harvested	37
Kentucky	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	4
Kentucky	Allen	Corn, Grain, Irrigated - Acres Harvested	10
Kentucky	Allen	Corn, Grain, Irrigated - Operations With Area Harvested	10
Kentucky	Butler	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Butler	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Green	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Green	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Hardin	Corn, Grain, Irrigated - Acres Harvested	178
Kentucky	Hardin	Corn, Grain, Irrigated - Operations With Area Harvested	6
Kentucky	Hart	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Hart	Corn, Grain, Irrigated - Operations With Area Harvested	2
Kentucky	Larue	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Larue	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Marion	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Marion	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Metcalf	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Metcalf	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Nelson	Corn, Grain, Irrigated - Acres Harvested	194
Kentucky	Nelson	Corn, Grain, Irrigated - Operations With Area Harvested	3
Kentucky	Warren	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Warren	Corn, Grain, Irrigated - Operations With Area Harvested	2
Kentucky	Bell	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Bell	Corn, Grain, Irrigated - Operations With Area Harvested	2
Kentucky	Clay	Corn, Grain, Irrigated - Acres Harvested	117
Kentucky	Clay	Corn, Grain, Irrigated - Operations With Area Harvested	3
Kentucky	Harlan	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Harlan	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Lawrence	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Lawrence	Corn, Grain, Irrigated - Operations With Area Harvested	2
Kentucky	Lee	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Lee	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Lewis	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Lewis	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Morgan	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Morgan	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Pulaski	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Pulaski	Corn, Grain, Irrigated - Operations With Area Harvested	2
Kentucky	Rockcastle	Corn, Grain, Irrigated - Acres Harvested	15
Kentucky	Rockcastle	Corn, Grain, Irrigated - Operations With Area Harvested	3
Kentucky	Caldwell	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Caldwell	Corn, Grain, Irrigated - Operations With Area Harvested	6
Kentucky	Christian	Corn, Grain, Irrigated - Acres Harvested	732
Kentucky	Christian	Corn, Grain, Irrigated - Operations With Area Harvested	5
Kentucky	Crittenden	Corn, Grain, Irrigated - Acres Harvested	808
Kentucky	Crittenden	Corn, Grain, Irrigated - Operations With Area Harvested	10
Kentucky	Daviess	Corn, Grain, Irrigated - Acres Harvested	6,587

State	County	Data Item	Value
Kentucky	Daviess	Corn, Grain, Irrigated - Operations With Area Harvested	20
Kentucky	Hancock	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Hancock	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Henderson	Corn, Grain, Irrigated - Acres Harvested	4,355
Kentucky	Henderson	Corn, Grain, Irrigated - Operations With Area Harvested	13
Kentucky	Hopkins	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Hopkins	Corn, Grain, Irrigated - Operations With Area Harvested	2
Kentucky	Logan	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Logan	Corn, Grain, Irrigated - Operations With Area Harvested	2
Kentucky	McLean	Corn, Grain, Irrigated - Acres Harvested	986
Kentucky	McLean	Corn, Grain, Irrigated - Operations With Area Harvested	6
Kentucky	Muhlenberg	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Muhlenberg	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Ohio	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Ohio	Corn, Grain, Irrigated - Operations With Area Harvested	3
Kentucky	Todd	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Todd	Corn, Grain, Irrigated - Operations With Area Harvested	3
Kentucky	Union	Corn, Grain, Irrigated - Acres Harvested	1,826
Kentucky	Union	Corn, Grain, Irrigated - Operations With Area Harvested	8
Kentucky	Webster	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Webster	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Boone	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Boone	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Carroll	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Carroll	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Henry	Corn, Grain, Irrigated - Acres Harvested	14
Kentucky	Henry	Corn, Grain, Irrigated - Operations With Area Harvested	9
Kentucky	Oldham	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Oldham	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Pendleton	Corn, Grain, Irrigated - Acres Harvested	310
Kentucky	Pendleton	Corn, Grain, Irrigated - Operations With Area Harvested	4
Kentucky	Ballard	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Ballard	Corn, Grain, Irrigated - Operations With Area Harvested	2
Kentucky	Calloway	Corn, Grain, Irrigated - Acres Harvested	1,234
Kentucky	Calloway	Corn, Grain, Irrigated - Operations With Area Harvested	18
Kentucky	Carlisle	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Carlisle	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Fulton	Corn, Grain, Irrigated - Acres Harvested	1,613
Kentucky	Fulton	Corn, Grain, Irrigated - Operations With Area Harvested	5
Kentucky	Graves	Corn, Grain, Irrigated - Acres Harvested	1,542
Kentucky	Graves	Corn, Grain, Irrigated - Operations With Area Harvested	18
Kentucky	Hickman	Corn, Grain, Irrigated - Acres Harvested	3,916
Kentucky	Hickman	Corn, Grain, Irrigated - Operations With Area Harvested	10
Kentucky	Lyon	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Lyon	Corn, Grain, Irrigated - Operations With Area Harvested	1
Kentucky	Mccracken	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Mccracken	Corn, Grain, Irrigated - Operations With Area Harvested	2
Kentucky	Trigg	Corn, Grain, Irrigated - Acres Harvested	(D)
Kentucky	Trigg	Corn, Grain, Irrigated - Operations With Area Harvested	3

State	County	Data Item	Value
Louisiana	Avoyelles	Corn, Grain, Irrigated - Acres Harvested	2,305
Louisiana	Avoyelles	Corn, Grain, Irrigated - Operations With Area Harvested	7
Louisiana	Catahoula	Corn, Grain, Irrigated - Acres Harvested	10,375
Louisiana	Catahoula	Corn, Grain, Irrigated - Operations With Area Harvested	23
Louisiana	Concordia	Corn, Grain, Irrigated - Acres Harvested	6,137
Louisiana	Concordia	Corn, Grain, Irrigated - Operations With Area Harvested	20
Louisiana	Evangeline	Corn, Grain, Irrigated - Acres Harvested	(D)
Louisiana	Evangeline	Corn, Grain, Irrigated - Operations With Area Harvested	1
Louisiana	Grant	Corn, Grain, Irrigated - Acres Harvested	(D)
Louisiana	Grant	Corn, Grain, Irrigated - Operations With Area Harvested	2
Louisiana	Pointe Coupee	Corn, Grain, Irrigated - Acres Harvested	(D)
Louisiana	Pointe Coupee	Corn, Grain, Irrigated - Operations With Area Harvested	1
Louisiana	Rapides	Corn, Grain, Irrigated - Acres Harvested	2,004
Louisiana	Rapides	Corn, Grain, Irrigated - Operations With Area Harvested	10
Louisiana	Saint Landry	Corn, Grain, Irrigated - Acres Harvested	(D)
Louisiana	Saint Landry	Corn, Grain, Irrigated - Operations With Area Harvested	1
Louisiana	East Baton Rouge	Corn, Grain, Irrigated - Acres Harvested	18
Louisiana	East Baton Rouge	Corn, Grain, Irrigated - Operations With Area Harvested	4
Louisiana	Caldwell	Corn, Grain, Irrigated - Acres Harvested	1,190
Louisiana	Caldwell	Corn, Grain, Irrigated - Operations With Area Harvested	7
Louisiana	Ouachita	Corn, Grain, Irrigated - Acres Harvested	1,145
Louisiana	Ouachita	Corn, Grain, Irrigated - Operations With Area Harvested	6
Louisiana	East Carroll	Corn, Grain, Irrigated - Acres Harvested	42,604
Louisiana	East Carroll	Corn, Grain, Irrigated - Operations With Area Harvested	81
Louisiana	Franklin	Corn, Grain, Irrigated - Acres Harvested	47,812
Louisiana	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	106
Louisiana	Madison	Corn, Grain, Irrigated - Acres Harvested	35,036
Louisiana	Madison	Corn, Grain, Irrigated - Operations With Area Harvested	73
Louisiana	Morehouse	Corn, Grain, Irrigated - Acres Harvested	62,578
Louisiana	Morehouse	Corn, Grain, Irrigated - Operations With Area Harvested	102
Louisiana	Richland	Corn, Grain, Irrigated - Acres Harvested	36,855
Louisiana	Richland	Corn, Grain, Irrigated - Operations With Area Harvested	92
Louisiana	Tensas	Corn, Grain, Irrigated - Acres Harvested	12,983
Louisiana	Tensas	Corn, Grain, Irrigated - Operations With Area Harvested	34
Louisiana	West Carroll	Corn, Grain, Irrigated - Acres Harvested	16,966
Louisiana	West Carroll	Corn, Grain, Irrigated - Operations With Area Harvested	44
Louisiana	Caddo	Corn, Grain, Irrigated - Acres Harvested	6,601
Louisiana	Caddo	Corn, Grain, Irrigated - Operations With Area Harvested	12
Louisiana	Red River	Corn, Grain, Irrigated - Acres Harvested	(D)
Louisiana	Red River	Corn, Grain, Irrigated - Operations With Area Harvested	1
Louisiana	Lafayette	Corn, Grain, Irrigated - Acres Harvested	(D)
Louisiana	Lafayette	Corn, Grain, Irrigated - Operations With Area Harvested	1
Louisiana	Lafourche	Corn, Grain, Irrigated - Acres Harvested	(D)
Louisiana	Lafourche	Corn, Grain, Irrigated - Operations With Area Harvested	2
Louisiana	Allen	Corn, Grain, Irrigated - Acres Harvested	(D)
Louisiana	Allen	Corn, Grain, Irrigated - Operations With Area Harvested	2
Louisiana	Beauregard	Corn, Grain, Irrigated - Acres Harvested	130
Louisiana	Beauregard	Corn, Grain, Irrigated - Operations With Area Harvested	3
Louisiana	Natchitoches	Corn, Grain, Irrigated - Acres Harvested	3,603



State	County	Data Item	Value
Louisiana	Natchitoches	Corn, Grain, Irrigated - Operations With Area Harvested	7
Maine	Penobscot	Corn, Grain, Irrigated - Acres Harvested	(D)
Maine	Penobscot	Corn, Grain, Irrigated - Operations With Area Harvested	1
Maine	Washington	Corn, Grain, Irrigated - Acres Harvested	(D)
Maine	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	1
Maine	Kennebec	Corn, Grain, Irrigated - Acres Harvested	(D)
Maine	Kennebec	Corn, Grain, Irrigated - Operations With Area Harvested	2
Maine	Lincoln	Corn, Grain, Irrigated - Acres Harvested	(D)
Maine	Lincoln	Corn, Grain, Irrigated - Operations With Area Harvested	1
Maine	Sagadahoc	Corn, Grain, Irrigated - Acres Harvested	(D)
Maine	Sagadahoc	Corn, Grain, Irrigated - Operations With Area Harvested	2
Maryland	Dorchester	Corn, Grain, Irrigated - Acres Harvested	11,631
Maryland	Dorchester	Corn, Grain, Irrigated - Operations With Area Harvested	64
Maryland	Somerset	Corn, Grain, Irrigated - Acres Harvested	(D)
Maryland	Somerset	Corn, Grain, Irrigated - Operations With Area Harvested	3
Maryland	Wicomico	Corn, Grain, Irrigated - Acres Harvested	4,559
Maryland	Wicomico	Corn, Grain, Irrigated - Operations With Area Harvested	28
Maryland	Worcester	Corn, Grain, Irrigated - Acres Harvested	3,309
Maryland	Worcester	Corn, Grain, Irrigated - Operations With Area Harvested	15
Maryland	Baltimore	Corn, Grain, Irrigated - Acres Harvested	(D)
Maryland	Baltimore	Corn, Grain, Irrigated - Operations With Area Harvested	3
Maryland	Carroll	Corn, Grain, Irrigated - Acres Harvested	(D)
Maryland	Carroll	Corn, Grain, Irrigated - Operations With Area Harvested	4
Maryland	Frederick	Corn, Grain, Irrigated - Acres Harvested	(D)
Maryland	Frederick	Corn, Grain, Irrigated - Operations With Area Harvested	1
Maryland	Harford	Corn, Grain, Irrigated - Acres Harvested	(D)
Maryland	Harford	Corn, Grain, Irrigated - Operations With Area Harvested	1
Maryland	Montgomery	Corn, Grain, Irrigated - Acres Harvested	(D)
Maryland	Montgomery	Corn, Grain, Irrigated - Operations With Area Harvested	1
Maryland	Washington	Corn, Grain, Irrigated - Acres Harvested	232
Maryland	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	5
Maryland	Anne Arundel	Corn, Grain, Irrigated - Acres Harvested	(D)
Maryland	Anne Arundel	Corn, Grain, Irrigated - Operations With Area Harvested	1
Maryland	Calvert	Corn, Grain, Irrigated - Acres Harvested	(D)
Maryland	Calvert	Corn, Grain, Irrigated - Operations With Area Harvested	1
Maryland	Charles	Corn, Grain, Irrigated - Acres Harvested	(D)
Maryland	Charles	Corn, Grain, Irrigated - Operations With Area Harvested	3
Maryland	Prince Georges	Corn, Grain, Irrigated - Acres Harvested	18
Maryland	Prince Georges	Corn, Grain, Irrigated - Operations With Area Harvested	4
Maryland	St Marys	Corn, Grain, Irrigated - Acres Harvested	30
Maryland	St Marys	Corn, Grain, Irrigated - Operations With Area Harvested	16
Maryland	Caroline	Corn, Grain, Irrigated - Acres Harvested	12,076
Maryland	Caroline	Corn, Grain, Irrigated - Operations With Area Harvested	100
Maryland	Cecil	Corn, Grain, Irrigated - Acres Harvested	(D)
Maryland	Cecil	Corn, Grain, Irrigated - Operations With Area Harvested	1
Maryland	Kent	Corn, Grain, Irrigated - Acres Harvested	3,468
Maryland	Kent	Corn, Grain, Irrigated - Operations With Area Harvested	26
Maryland	Queen Annes	Corn, Grain, Irrigated - Acres Harvested	8,646
Maryland	Queen Annes	Corn, Grain, Irrigated - Operations With Area Harvested	48

State	County	Data Item	Value
Maryland	Talbot	Corn, Grain, Irrigated - Acres Harvested	5,557
Maryland	Talbot	Corn, Grain, Irrigated - Operations With Area Harvested	26
Massachusetts	Dukes	Corn, Grain, Irrigated - Acres Harvested	(D)
Massachusetts	Dukes	Corn, Grain, Irrigated - Operations With Area Harvested	1
Massachusetts	Franklin	Corn, Grain, Irrigated - Acres Harvested	(D)
Massachusetts	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	2
Massachusetts	Hampden	Corn, Grain, Irrigated - Acres Harvested	(D)
Massachusetts	Hampden	Corn, Grain, Irrigated - Operations With Area Harvested	1
Massachusetts	Hampshire	Corn, Grain, Irrigated - Acres Harvested	(D)
Massachusetts	Hampshire	Corn, Grain, Irrigated - Operations With Area Harvested	1
Massachusetts	Middlesex	Corn, Grain, Irrigated - Acres Harvested	8
Massachusetts	Middlesex	Corn, Grain, Irrigated - Operations With Area Harvested	4
Michigan	Gratiot	Corn, Grain, Irrigated - Acres Harvested	4,065
Michigan	Gratiot	Corn, Grain, Irrigated - Operations With Area Harvested	24
Michigan	Isabella	Corn, Grain, Irrigated - Acres Harvested	1,550
Michigan	Isabella	Corn, Grain, Irrigated - Operations With Area Harvested	4
Michigan	Mecosta	Corn, Grain, Irrigated - Acres Harvested	7,944
Michigan	Mecosta	Corn, Grain, Irrigated - Operations With Area Harvested	17
Michigan	Midland	Corn, Grain, Irrigated - Acres Harvested	493
Michigan	Midland	Corn, Grain, Irrigated - Operations With Area Harvested	4
Michigan	Montcalm	Corn, Grain, Irrigated - Acres Harvested	21,436
Michigan	Montcalm	Corn, Grain, Irrigated - Operations With Area Harvested	75
Michigan	Osceola	Corn, Grain, Irrigated - Acres Harvested	(D)
Michigan	Osceola	Corn, Grain, Irrigated - Operations With Area Harvested	2
Michigan	Bay	Corn, Grain, Irrigated - Acres Harvested	1,988
Michigan	Bay	Corn, Grain, Irrigated - Operations With Area Harvested	20
Michigan	Huron	Corn, Grain, Irrigated - Acres Harvested	984
Michigan	Huron	Corn, Grain, Irrigated - Operations With Area Harvested	11
Michigan	Saginaw	Corn, Grain, Irrigated - Acres Harvested	626
Michigan	Saginaw	Corn, Grain, Irrigated - Operations With Area Harvested	5
Michigan	Sanilac	Corn, Grain, Irrigated - Acres Harvested	291
Michigan	Sanilac	Corn, Grain, Irrigated - Operations With Area Harvested	4
Michigan	Tuscola	Corn, Grain, Irrigated - Acres Harvested	2,570
Michigan	Tuscola	Corn, Grain, Irrigated - Operations With Area Harvested	23
Michigan	Cheboygan	Corn, Grain, Irrigated - Acres Harvested	(D)
Michigan	Cheboygan	Corn, Grain, Irrigated - Operations With Area Harvested	1
Michigan	Presque Isle	Corn, Grain, Irrigated - Acres Harvested	(D)
Michigan	Presque Isle	Corn, Grain, Irrigated - Operations With Area Harvested	2
Michigan	Antrim	Corn, Grain, Irrigated - Acres Harvested	103
Michigan	Antrim	Corn, Grain, Irrigated - Operations With Area Harvested	4
Michigan	Grand Traverse	Corn, Grain, Irrigated - Acres Harvested	(D)
Michigan	Grand Traverse	Corn, Grain, Irrigated - Operations With Area Harvested	4
Michigan	Leelanau	Corn, Grain, Irrigated - Acres Harvested	(D)
Michigan	Leelanau	Corn, Grain, Irrigated - Operations With Area Harvested	3
Michigan	Manistee	Corn, Grain, Irrigated - Acres Harvested	380
Michigan	Manistee	Corn, Grain, Irrigated - Operations With Area Harvested	4
Michigan	Missaukee	Corn, Grain, Irrigated - Acres Harvested	1,280
Michigan	Missaukee	Corn, Grain, Irrigated - Operations With Area Harvested	12
Michigan	Wexford	Corn, Grain, Irrigated - Acres Harvested	(D)

State	County	Data Item	Value
Michigan	Wexford	Corn, Grain, Irrigated - Operations With Area Harvested	1
Michigan	Barry	Corn, Grain, Irrigated - Acres Harvested	1,730
Michigan	Barry	Corn, Grain, Irrigated - Operations With Area Harvested	13
Michigan	Branch	Corn, Grain, Irrigated - Acres Harvested	27,498
Michigan	Branch	Corn, Grain, Irrigated - Operations With Area Harvested	90
Michigan	Calhoun	Corn, Grain, Irrigated - Acres Harvested	6,221
Michigan	Calhoun	Corn, Grain, Irrigated - Operations With Area Harvested	25
Michigan	Clinton	Corn, Grain, Irrigated - Acres Harvested	834
Michigan	Clinton	Corn, Grain, Irrigated - Operations With Area Harvested	7
Michigan	Eaton	Corn, Grain, Irrigated - Acres Harvested	799
Michigan	Eaton	Corn, Grain, Irrigated - Operations With Area Harvested	12
Michigan	Hillsdale	Corn, Grain, Irrigated - Acres Harvested	4,575
Michigan	Hillsdale	Corn, Grain, Irrigated - Operations With Area Harvested	29
Michigan	Ingham	Corn, Grain, Irrigated - Acres Harvested	(D)
Michigan	Ingham	Corn, Grain, Irrigated - Operations With Area Harvested	2
Michigan	Ionia	Corn, Grain, Irrigated - Acres Harvested	3,276
Michigan	Ionia	Corn, Grain, Irrigated - Operations With Area Harvested	16
Michigan	Jackson	Corn, Grain, Irrigated - Acres Harvested	2,350
Michigan	Jackson	Corn, Grain, Irrigated - Operations With Area Harvested	13
Michigan	Shiawassee	Corn, Grain, Irrigated - Acres Harvested	378
Michigan	Shiawassee	Corn, Grain, Irrigated - Operations With Area Harvested	5
Michigan	St Joseph	Corn, Grain, Irrigated - Acres Harvested	72,244
Michigan	St Joseph	Corn, Grain, Irrigated - Operations With Area Harvested	186
Michigan	Lapeer	Corn, Grain, Irrigated - Acres Harvested	273
Michigan	Lapeer	Corn, Grain, Irrigated - Operations With Area Harvested	7
Michigan	Lenawee	Corn, Grain, Irrigated - Acres Harvested	2,512
Michigan	Lenawee	Corn, Grain, Irrigated - Operations With Area Harvested	9
Michigan	Macomb	Corn, Grain, Irrigated - Acres Harvested	288
Michigan	Macomb	Corn, Grain, Irrigated - Operations With Area Harvested	12
Michigan	Monroe	Corn, Grain, Irrigated - Acres Harvested	2,919
Michigan	Monroe	Corn, Grain, Irrigated - Operations With Area Harvested	8
Michigan	St Clair	Corn, Grain, Irrigated - Acres Harvested	(D)
Michigan	St Clair	Corn, Grain, Irrigated - Operations With Area Harvested	2
Michigan	Washtenaw	Corn, Grain, Irrigated - Acres Harvested	846
Michigan	Washtenaw	Corn, Grain, Irrigated - Operations With Area Harvested	12
Michigan	Wayne	Corn, Grain, Irrigated - Acres Harvested	(D)
Michigan	Wayne	Corn, Grain, Irrigated - Operations With Area Harvested	1
Michigan	Allegan	Corn, Grain, Irrigated - Acres Harvested	15,970
Michigan	Allegan	Corn, Grain, Irrigated - Operations With Area Harvested	51
Michigan	Berrien	Corn, Grain, Irrigated - Acres Harvested	8,563
Michigan	Berrien	Corn, Grain, Irrigated - Operations With Area Harvested	45
Michigan	Cass	Corn, Grain, Irrigated - Acres Harvested	45,496
Michigan	Cass	Corn, Grain, Irrigated - Operations With Area Harvested	91
Michigan	Kalamazoo	Corn, Grain, Irrigated - Acres Harvested	27,999
Michigan	Kalamazoo	Corn, Grain, Irrigated - Operations With Area Harvested	64
Michigan	Kent	Corn, Grain, Irrigated - Acres Harvested	3,509
Michigan	Kent	Corn, Grain, Irrigated - Operations With Area Harvested	14
Michigan	Ottawa	Corn, Grain, Irrigated - Acres Harvested	7,430
Michigan	Ottawa	Corn, Grain, Irrigated - Operations With Area Harvested	36

State	County	Data Item	Value
Michigan	Van Buren	Corn, Grain, Irrigated - Acres Harvested	18,996
Michigan	Van Buren	Corn, Grain, Irrigated - Operations With Area Harvested	28
Michigan	Chippewa	Corn, Grain, Irrigated - Acres Harvested	(D)
Michigan	Chippewa	Corn, Grain, Irrigated - Operations With Area Harvested	1
Michigan	Delta	Corn, Grain, Irrigated - Acres Harvested	(D)
Michigan	Delta	Corn, Grain, Irrigated - Operations With Area Harvested	1
Michigan	Dickinson	Corn, Grain, Irrigated - Acres Harvested	(D)
Michigan	Dickinson	Corn, Grain, Irrigated - Operations With Area Harvested	1
Michigan	Gogebic	Corn, Grain, Irrigated - Acres Harvested	(D)
Michigan	Gogebic	Corn, Grain, Irrigated - Operations With Area Harvested	2
Michigan	Mason	Corn, Grain, Irrigated - Acres Harvested	1,091
Michigan	Mason	Corn, Grain, Irrigated - Operations With Area Harvested	9
Michigan	Muskegon	Corn, Grain, Irrigated - Acres Harvested	985
Michigan	Muskegon	Corn, Grain, Irrigated - Operations With Area Harvested	10
Michigan	Newaygo	Corn, Grain, Irrigated - Acres Harvested	2,078
Michigan	Newaygo	Corn, Grain, Irrigated - Operations With Area Harvested	10
Michigan	Oceana	Corn, Grain, Irrigated - Acres Harvested	4,869
Michigan	Oceana	Corn, Grain, Irrigated - Operations With Area Harvested	24
Minnesota	Benton	Corn, Grain, Irrigated - Acres Harvested	5,620
Minnesota	Benton	Corn, Grain, Irrigated - Operations With Area Harvested	24
Minnesota	Kandiyohi	Corn, Grain, Irrigated - Acres Harvested	15,345
Minnesota	Kandiyohi	Corn, Grain, Irrigated - Operations With Area Harvested	37
Minnesota	Meeker	Corn, Grain, Irrigated - Acres Harvested	5,771
Minnesota	Meeker	Corn, Grain, Irrigated - Operations With Area Harvested	36
Minnesota	Morrison	Corn, Grain, Irrigated - Acres Harvested	13,028
Minnesota	Morrison	Corn, Grain, Irrigated - Operations With Area Harvested	85
Minnesota	Renville	Corn, Grain, Irrigated - Acres Harvested	84
Minnesota	Renville	Corn, Grain, Irrigated - Operations With Area Harvested	3
Minnesota	Scott	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Scott	Corn, Grain, Irrigated - Operations With Area Harvested	2
Minnesota	Sherburne	Corn, Grain, Irrigated - Acres Harvested	16,213
Minnesota	Sherburne	Corn, Grain, Irrigated - Operations With Area Harvested	56
Minnesota	Sibley	Corn, Grain, Irrigated - Acres Harvested	20
Minnesota	Sibley	Corn, Grain, Irrigated - Operations With Area Harvested	5
Minnesota	Stearns	Corn, Grain, Irrigated - Acres Harvested	30,680
Minnesota	Stearns	Corn, Grain, Irrigated - Operations With Area Harvested	243
Minnesota	Todd	Corn, Grain, Irrigated - Acres Harvested	6,182
Minnesota	Todd	Corn, Grain, Irrigated - Operations With Area Harvested	45
Minnesota	Wadena	Corn, Grain, Irrigated - Acres Harvested	12,561
Minnesota	Wadena	Corn, Grain, Irrigated - Operations With Area Harvested	54
Minnesota	Wright	Corn, Grain, Irrigated - Acres Harvested	2,211
Minnesota	Wright	Corn, Grain, Irrigated - Operations With Area Harvested	26
Minnesota	Anoka	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Anoka	Corn, Grain, Irrigated - Operations With Area Harvested	3
Minnesota	Chisago	Corn, Grain, Irrigated - Acres Harvested	223
Minnesota	Chisago	Corn, Grain, Irrigated - Operations With Area Harvested	3
Minnesota	Crow Wing	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Crow Wing	Corn, Grain, Irrigated - Operations With Area Harvested	2
Minnesota	Isanti	Corn, Grain, Irrigated - Acres Harvested	2,774

State	County	Data Item	Value
Minnesota	Isanti	Corn, Grain, Irrigated - Operations With Area Harvested	16
Minnesota	Mille Lacs	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Mille Lacs	Corn, Grain, Irrigated - Operations With Area Harvested	1
Minnesota	Ramsey	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Ramsey	Corn, Grain, Irrigated - Operations With Area Harvested	1
Minnesota	Washington	Corn, Grain, Irrigated - Acres Harvested	1,337
Minnesota	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	7
Minnesota	Cass	Corn, Grain, Irrigated - Acres Harvested	1,480
Minnesota	Cass	Corn, Grain, Irrigated - Operations With Area Harvested	4
Minnesota	Hubbard	Corn, Grain, Irrigated - Acres Harvested	9,473
Minnesota	Hubbard	Corn, Grain, Irrigated - Operations With Area Harvested	11
Minnesota	Itasca	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Itasca	Corn, Grain, Irrigated - Operations With Area Harvested	2
Minnesota	Becker	Corn, Grain, Irrigated - Acres Harvested	1,364
Minnesota	Becker	Corn, Grain, Irrigated - Operations With Area Harvested	7
Minnesota	Clay	Corn, Grain, Irrigated - Acres Harvested	6,869
Minnesota	Clay	Corn, Grain, Irrigated - Operations With Area Harvested	9
Minnesota	Kittson	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Kittson	Corn, Grain, Irrigated - Operations With Area Harvested	1
Minnesota	Marshall	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Marshall	Corn, Grain, Irrigated - Operations With Area Harvested	2
Minnesota	Norman	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Norman	Corn, Grain, Irrigated - Operations With Area Harvested	2
Minnesota	Pennington	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Pennington	Corn, Grain, Irrigated - Operations With Area Harvested	1
Minnesota	Polk	Corn, Grain, Irrigated - Acres Harvested	412
Minnesota	Polk	Corn, Grain, Irrigated - Operations With Area Harvested	6
Minnesota	Red Lake	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Red Lake	Corn, Grain, Irrigated - Operations With Area Harvested	1
Minnesota	Blue Earth	Corn, Grain, Irrigated - Acres Harvested	965
Minnesota	Blue Earth	Corn, Grain, Irrigated - Operations With Area Harvested	5
Minnesota	Brown	Corn, Grain, Irrigated - Acres Harvested	1,375
Minnesota	Brown	Corn, Grain, Irrigated - Operations With Area Harvested	20
Minnesota	Faribault	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Faribault	Corn, Grain, Irrigated - Operations With Area Harvested	5
Minnesota	Freeborn	Corn, Grain, Irrigated - Acres Harvested	1,496
Minnesota	Freeborn	Corn, Grain, Irrigated - Operations With Area Harvested	10
Minnesota	Le Sueur	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Le Sueur	Corn, Grain, Irrigated - Operations With Area Harvested	4
Minnesota	Martin	Corn, Grain, Irrigated - Acres Harvested	283
Minnesota	Martin	Corn, Grain, Irrigated - Operations With Area Harvested	4
Minnesota	Rice	Corn, Grain, Irrigated - Acres Harvested	497
Minnesota	Rice	Corn, Grain, Irrigated - Operations With Area Harvested	6
Minnesota	Steele	Corn, Grain, Irrigated - Acres Harvested	422
Minnesota	Steele	Corn, Grain, Irrigated - Operations With Area Harvested	6
Minnesota	Waseca	Corn, Grain, Irrigated - Acres Harvested	5
Minnesota	Waseca	Corn, Grain, Irrigated - Operations With Area Harvested	3
Minnesota	Watonwan	Corn, Grain, Irrigated - Acres Harvested	2,613
Minnesota	Watonwan	Corn, Grain, Irrigated - Operations With Area Harvested	12

State	County	Data Item	Value
Minnesota	Dakota	Corn, Grain, Irrigated - Acres Harvested	35,958
Minnesota	Dakota	Corn, Grain, Irrigated - Operations With Area Harvested	147
Minnesota	Dodge	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Dodge	Corn, Grain, Irrigated - Operations With Area Harvested	4
Minnesota	Fillmore	Corn, Grain, Irrigated - Acres Harvested	17
Minnesota	Fillmore	Corn, Grain, Irrigated - Operations With Area Harvested	9
Minnesota	Goodhue	Corn, Grain, Irrigated - Acres Harvested	3,076
Minnesota	Goodhue	Corn, Grain, Irrigated - Operations With Area Harvested	18
Minnesota	Houston	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Houston	Corn, Grain, Irrigated - Operations With Area Harvested	1
Minnesota	Mower	Corn, Grain, Irrigated - Acres Harvested	2,138
Minnesota	Mower	Corn, Grain, Irrigated - Operations With Area Harvested	16
Minnesota	Olmsted	Corn, Grain, Irrigated - Acres Harvested	71
Minnesota	Olmsted	Corn, Grain, Irrigated - Operations With Area Harvested	5
Minnesota	Wabasha	Corn, Grain, Irrigated - Acres Harvested	1,095
Minnesota	Wabasha	Corn, Grain, Irrigated - Operations With Area Harvested	7
Minnesota	Cottonwood	Corn, Grain, Irrigated - Acres Harvested	1,138
Minnesota	Cottonwood	Corn, Grain, Irrigated - Operations With Area Harvested	8
Minnesota	Lincoln	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Lincoln	Corn, Grain, Irrigated - Operations With Area Harvested	4
Minnesota	Lyon	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Lyon	Corn, Grain, Irrigated - Operations With Area Harvested	1
Minnesota	Nobles	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Nobles	Corn, Grain, Irrigated - Operations With Area Harvested	1
Minnesota	Pipestone	Corn, Grain, Irrigated - Acres Harvested	2,246
Minnesota	Pipestone	Corn, Grain, Irrigated - Operations With Area Harvested	6
Minnesota	Rock	Corn, Grain, Irrigated - Acres Harvested	1,570
Minnesota	Rock	Corn, Grain, Irrigated - Operations With Area Harvested	10
Minnesota	Big Stone	Corn, Grain, Irrigated - Acres Harvested	1,146
Minnesota	Big Stone	Corn, Grain, Irrigated - Operations With Area Harvested	11
Minnesota	Chippewa	Corn, Grain, Irrigated - Acres Harvested	3,540
Minnesota	Chippewa	Corn, Grain, Irrigated - Operations With Area Harvested	11
Minnesota	Douglas	Corn, Grain, Irrigated - Acres Harvested	2,534
Minnesota	Douglas	Corn, Grain, Irrigated - Operations With Area Harvested	27
Minnesota	Grant	Corn, Grain, Irrigated - Acres Harvested	3,224
Minnesota	Grant	Corn, Grain, Irrigated - Operations With Area Harvested	20
Minnesota	Lac Qui Parle	Corn, Grain, Irrigated - Acres Harvested	2,237
Minnesota	Lac Qui Parle	Corn, Grain, Irrigated - Operations With Area Harvested	14
Minnesota	Otter Tail	Corn, Grain, Irrigated - Acres Harvested	27,535
Minnesota	Otter Tail	Corn, Grain, Irrigated - Operations With Area Harvested	137
Minnesota	Pope	Corn, Grain, Irrigated - Acres Harvested	20,457
Minnesota	Pope	Corn, Grain, Irrigated - Operations With Area Harvested	49
Minnesota	Stevens	Corn, Grain, Irrigated - Acres Harvested	13,261
Minnesota	Stevens	Corn, Grain, Irrigated - Operations With Area Harvested	38
Minnesota	Swift	Corn, Grain, Irrigated - Acres Harvested	18,360
Minnesota	Swift	Corn, Grain, Irrigated - Operations With Area Harvested	60
Minnesota	Traverse	Corn, Grain, Irrigated - Acres Harvested	325
Minnesota	Traverse	Corn, Grain, Irrigated - Operations With Area Harvested	3
Minnesota	Wilkin	Corn, Grain, Irrigated - Acres Harvested	1,030

State	County	Data Item	Value
Minnesota	Wilkin	Corn, Grain, Irrigated - Operations With Area Harvested	4
Minnesota	Yellow Medicine	Corn, Grain, Irrigated - Acres Harvested	(D)
Minnesota	Yellow Medicine	Corn, Grain, Irrigated - Operations With Area Harvested	1
Mississippi	Attala	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Attala	Corn, Grain, Irrigated - Operations With Area Harvested	2
Mississippi	Carroll	Corn, Grain, Irrigated - Acres Harvested	3,995
Mississippi	Carroll	Corn, Grain, Irrigated - Operations With Area Harvested	12
Mississippi	Holmes	Corn, Grain, Irrigated - Acres Harvested	18,702
Mississippi	Holmes	Corn, Grain, Irrigated - Operations With Area Harvested	22
Mississippi	Montgomery	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Montgomery	Corn, Grain, Irrigated - Operations With Area Harvested	3
Mississippi	Webster	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Webster	Corn, Grain, Irrigated - Operations With Area Harvested	2
Mississippi	Chickasaw	Corn, Grain, Irrigated - Acres Harvested	1,556
Mississippi	Chickasaw	Corn, Grain, Irrigated - Operations With Area Harvested	8
Mississippi	Clay	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Clay	Corn, Grain, Irrigated - Operations With Area Harvested	1
Mississippi	Lowndes	Corn, Grain, Irrigated - Acres Harvested	2,029
Mississippi	Lowndes	Corn, Grain, Irrigated - Operations With Area Harvested	7
Mississippi	Noxubee	Corn, Grain, Irrigated - Acres Harvested	8,710
Mississippi	Noxubee	Corn, Grain, Irrigated - Operations With Area Harvested	71
Mississippi	Oktibbeha	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Oktibbeha	Corn, Grain, Irrigated - Operations With Area Harvested	2
Mississippi	Winston	Corn, Grain, Irrigated - Acres Harvested	30
Mississippi	Winston	Corn, Grain, Irrigated - Operations With Area Harvested	4
Mississippi	Humphreys	Corn, Grain, Irrigated - Acres Harvested	20,416
Mississippi	Humphreys	Corn, Grain, Irrigated - Operations With Area Harvested	50
Mississippi	Issaquena	Corn, Grain, Irrigated - Acres Harvested	5,656
Mississippi	Issaquena	Corn, Grain, Irrigated - Operations With Area Harvested	13
Mississippi	Leflore	Corn, Grain, Irrigated - Acres Harvested	56,766
Mississippi	Leflore	Corn, Grain, Irrigated - Operations With Area Harvested	83
Mississippi	Sharkey	Corn, Grain, Irrigated - Acres Harvested	23,118
Mississippi	Sharkey	Corn, Grain, Irrigated - Operations With Area Harvested	31
Mississippi	Sunflower	Corn, Grain, Irrigated - Acres Harvested	55,561
Mississippi	Sunflower	Corn, Grain, Irrigated - Operations With Area Harvested	88
Mississippi	Washington	Corn, Grain, Irrigated - Acres Harvested	50,891
Mississippi	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	89
Mississippi	Yazoo	Corn, Grain, Irrigated - Acres Harvested	20,748
Mississippi	Yazoo	Corn, Grain, Irrigated - Operations With Area Harvested	35
Mississippi	Benton	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Benton	Corn, Grain, Irrigated - Operations With Area Harvested	2
Mississippi	Calhoun	Corn, Grain, Irrigated - Acres Harvested	573
Mississippi	Calhoun	Corn, Grain, Irrigated - Operations With Area Harvested	6
Mississippi	De Soto	Corn, Grain, Irrigated - Acres Harvested	708
Mississippi	De Soto	Corn, Grain, Irrigated - Operations With Area Harvested	7
Mississippi	Grenada	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Grenada	Corn, Grain, Irrigated - Operations With Area Harvested	1
Mississippi	Lafayette	Corn, Grain, Irrigated - Acres Harvested	140
Mississippi	Lafayette	Corn, Grain, Irrigated - Operations With Area Harvested	3

State	County	Data Item	Value
Mississippi	Marshall	Corn, Grain, Irrigated - Acres Harvested	1,057
Mississippi	Marshall	Corn, Grain, Irrigated - Operations With Area Harvested	5
Mississippi	Panola	Corn, Grain, Irrigated - Acres Harvested	5,610
Mississippi	Panola	Corn, Grain, Irrigated - Operations With Area Harvested	11
Mississippi	Tate	Corn, Grain, Irrigated - Acres Harvested	190
Mississippi	Tate	Corn, Grain, Irrigated - Operations With Area Harvested	4
Mississippi	Yalobusha	Corn, Grain, Irrigated - Acres Harvested	109
Mississippi	Yalobusha	Corn, Grain, Irrigated - Operations With Area Harvested	4
Mississippi	Lee	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Lee	Corn, Grain, Irrigated - Operations With Area Harvested	1
Mississippi	Pontotoc	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Pontotoc	Corn, Grain, Irrigated - Operations With Area Harvested	4
Mississippi	Tippah	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Tippah	Corn, Grain, Irrigated - Operations With Area Harvested	1
Mississippi	Tishomingo	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Tishomingo	Corn, Grain, Irrigated - Operations With Area Harvested	2
Mississippi	Covington	Corn, Grain, Irrigated - Acres Harvested	140
Mississippi	Covington	Corn, Grain, Irrigated - Operations With Area Harvested	3
Mississippi	Jefferson Davis	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Jefferson Davis	Corn, Grain, Irrigated - Operations With Area Harvested	2
Mississippi	Lamar	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Lamar	Corn, Grain, Irrigated - Operations With Area Harvested	1
Mississippi	Lawrence	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Lawrence	Corn, Grain, Irrigated - Operations With Area Harvested	1
Mississippi	Simpson	Corn, Grain, Irrigated - Acres Harvested	745
Mississippi	Simpson	Corn, Grain, Irrigated - Operations With Area Harvested	5
Mississippi	Forrest	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Forrest	Corn, Grain, Irrigated - Operations With Area Harvested	3
Mississippi	Greene	Corn, Grain, Irrigated - Acres Harvested	13
Mississippi	Greene	Corn, Grain, Irrigated - Operations With Area Harvested	5
Mississippi	Jones	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Jones	Corn, Grain, Irrigated - Operations With Area Harvested	3
Mississippi	Lauderdale	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Lauderdale	Corn, Grain, Irrigated - Operations With Area Harvested	2
Mississippi	Newton	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Newton	Corn, Grain, Irrigated - Operations With Area Harvested	3
Mississippi	Pearl River	Corn, Grain, Irrigated - Acres Harvested	6
Mississippi	Pearl River	Corn, Grain, Irrigated - Operations With Area Harvested	3
Mississippi	Perry	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Perry	Corn, Grain, Irrigated - Operations With Area Harvested	1
Mississippi	Adams	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Adams	Corn, Grain, Irrigated - Operations With Area Harvested	1
Mississippi	Claiborne	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Claiborne	Corn, Grain, Irrigated - Operations With Area Harvested	1
Mississippi	Franklin	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	2
Mississippi	Hinds	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Hinds	Corn, Grain, Irrigated - Operations With Area Harvested	2
Mississippi	Jefferson	Corn, Grain, Irrigated - Acres Harvested	(D)



State	County	Data Item	Value
Mississippi	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	1
Mississippi	Warren	Corn, Grain, Irrigated - Acres Harvested	2,262
Mississippi	Warren	Corn, Grain, Irrigated - Operations With Area Harvested	10
Mississippi	Wilkinson	Corn, Grain, Irrigated - Acres Harvested	(D)
Mississippi	Wilkinson	Corn, Grain, Irrigated - Operations With Area Harvested	1
Mississippi	Bolivar	Corn, Grain, Irrigated - Acres Harvested	48,257
Mississippi	Bolivar	Corn, Grain, Irrigated - Operations With Area Harvested	93
Mississippi	Coahoma	Corn, Grain, Irrigated - Acres Harvested	34,697
Mississippi	Coahoma	Corn, Grain, Irrigated - Operations With Area Harvested	65
Mississippi	Quitman	Corn, Grain, Irrigated - Acres Harvested	9,384
Mississippi	Quitman	Corn, Grain, Irrigated - Operations With Area Harvested	24
Mississippi	Tallahatchie	Corn, Grain, Irrigated - Acres Harvested	31,758
Mississippi	Tallahatchie	Corn, Grain, Irrigated - Operations With Area Harvested	44
Mississippi	Tunica	Corn, Grain, Irrigated - Acres Harvested	16,758
Mississippi	Tunica	Corn, Grain, Irrigated - Operations With Area Harvested	24
Missouri	Benton	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Benton	Corn, Grain, Irrigated - Operations With Area Harvested	2
Missouri	Boone	Corn, Grain, Irrigated - Acres Harvested	2,388
Missouri	Boone	Corn, Grain, Irrigated - Operations With Area Harvested	9
Missouri	Callaway	Corn, Grain, Irrigated - Acres Harvested	2,551
Missouri	Callaway	Corn, Grain, Irrigated - Operations With Area Harvested	9
Missouri	Cole	Corn, Grain, Irrigated - Acres Harvested	255
Missouri	Cole	Corn, Grain, Irrigated - Operations With Area Harvested	8
Missouri	Cooper	Corn, Grain, Irrigated - Acres Harvested	382
Missouri	Cooper	Corn, Grain, Irrigated - Operations With Area Harvested	9
Missouri	Howard	Corn, Grain, Irrigated - Acres Harvested	1,052
Missouri	Howard	Corn, Grain, Irrigated - Operations With Area Harvested	4
Missouri	Miller	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Miller	Corn, Grain, Irrigated - Operations With Area Harvested	2
Missouri	Moniteau	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Moniteau	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Morgan	Corn, Grain, Irrigated - Acres Harvested	15
Missouri	Morgan	Corn, Grain, Irrigated - Operations With Area Harvested	3
Missouri	Osage	Corn, Grain, Irrigated - Acres Harvested	961
Missouri	Osage	Corn, Grain, Irrigated - Operations With Area Harvested	22
Missouri	Pettis	Corn, Grain, Irrigated - Acres Harvested	132
Missouri	Pettis	Corn, Grain, Irrigated - Operations With Area Harvested	3
Missouri	Polk	Corn, Grain, Irrigated - Acres Harvested	432
Missouri	Polk	Corn, Grain, Irrigated - Operations With Area Harvested	5
Missouri	Saline	Corn, Grain, Irrigated - Acres Harvested	1,990
Missouri	Saline	Corn, Grain, Irrigated - Operations With Area Harvested	7
Missouri	Franklin	Corn, Grain, Irrigated - Acres Harvested	354
Missouri	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	5
Missouri	Gasconade	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Gasconade	Corn, Grain, Irrigated - Operations With Area Harvested	2
Missouri	Lincoln	Corn, Grain, Irrigated - Acres Harvested	685
Missouri	Lincoln	Corn, Grain, Irrigated - Operations With Area Harvested	3
Missouri	Montgomery	Corn, Grain, Irrigated - Acres Harvested	2,138
Missouri	Montgomery	Corn, Grain, Irrigated - Operations With Area Harvested	14

State	County	Data Item	Value
Missouri	Perry	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Perry	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	St Charles	Corn, Grain, Irrigated - Acres Harvested	336
Missouri	St Charles	Corn, Grain, Irrigated - Operations With Area Harvested	5
Missouri	St Louis	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	St Louis	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Ste Genevieve	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Ste Genevieve	Corn, Grain, Irrigated - Operations With Area Harvested	2
Missouri	Warren	Corn, Grain, Irrigated - Acres Harvested	262
Missouri	Warren	Corn, Grain, Irrigated - Operations With Area Harvested	4
Missouri	Adair	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Adair	Corn, Grain, Irrigated - Operations With Area Harvested	3
Missouri	Carroll	Corn, Grain, Irrigated - Acres Harvested	1,969
Missouri	Carroll	Corn, Grain, Irrigated - Operations With Area Harvested	9
Missouri	Chariton	Corn, Grain, Irrigated - Acres Harvested	1,962
Missouri	Chariton	Corn, Grain, Irrigated - Operations With Area Harvested	11
Missouri	Grundy	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Grundy	Corn, Grain, Irrigated - Operations With Area Harvested	3
Missouri	Linn	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Linn	Corn, Grain, Irrigated - Operations With Area Harvested	2
Missouri	Livingston	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Livingston	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Macon	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Macon	Corn, Grain, Irrigated - Operations With Area Harvested	2
Missouri	Mercer	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Mercer	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Putnam	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Putnam	Corn, Grain, Irrigated - Operations With Area Harvested	2
Missouri	Randolph	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Randolph	Corn, Grain, Irrigated - Operations With Area Harvested	2
Missouri	Audrain	Corn, Grain, Irrigated - Acres Harvested	8,458
Missouri	Audrain	Corn, Grain, Irrigated - Operations With Area Harvested	45
Missouri	Clark	Corn, Grain, Irrigated - Acres Harvested	1,974
Missouri	Clark	Corn, Grain, Irrigated - Operations With Area Harvested	10
Missouri	Knox	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Knox	Corn, Grain, Irrigated - Operations With Area Harvested	2
Missouri	Lewis	Corn, Grain, Irrigated - Acres Harvested	1,533
Missouri	Lewis	Corn, Grain, Irrigated - Operations With Area Harvested	7
Missouri	Marion	Corn, Grain, Irrigated - Acres Harvested	2,545
Missouri	Marion	Corn, Grain, Irrigated - Operations With Area Harvested	14
Missouri	Monroe	Corn, Grain, Irrigated - Acres Harvested	672
Missouri	Monroe	Corn, Grain, Irrigated - Operations With Area Harvested	7
Missouri	Pike	Corn, Grain, Irrigated - Acres Harvested	1,943
Missouri	Pike	Corn, Grain, Irrigated - Operations With Area Harvested	7
Missouri	Ralls	Corn, Grain, Irrigated - Acres Harvested	886
Missouri	Ralls	Corn, Grain, Irrigated - Operations With Area Harvested	6
Missouri	Scotland	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Scotland	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Shelby	Corn, Grain, Irrigated - Acres Harvested	1,099

State	County	Data Item	Value
Missouri	Shelby	Corn, Grain, Irrigated - Operations With Area Harvested	8
Missouri	Atchison	Corn, Grain, Irrigated - Acres Harvested	8,070
Missouri	Atchison	Corn, Grain, Irrigated - Operations With Area Harvested	29
Missouri	Buchanan	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Buchanan	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Clay	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Clay	Corn, Grain, Irrigated - Operations With Area Harvested	2
Missouri	Clinton	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Clinton	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Daviess	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Daviess	Corn, Grain, Irrigated - Operations With Area Harvested	2
Missouri	Gentry	Corn, Grain, Irrigated - Acres Harvested	11
Missouri	Gentry	Corn, Grain, Irrigated - Operations With Area Harvested	5
Missouri	Harrison	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Harrison	Corn, Grain, Irrigated - Operations With Area Harvested	2
Missouri	Holt	Corn, Grain, Irrigated - Acres Harvested	9,474
Missouri	Holt	Corn, Grain, Irrigated - Operations With Area Harvested	20
Missouri	Platte	Corn, Grain, Irrigated - Acres Harvested	958
Missouri	Platte	Corn, Grain, Irrigated - Operations With Area Harvested	6
Missouri	Ray	Corn, Grain, Irrigated - Acres Harvested	3,296
Missouri	Ray	Corn, Grain, Irrigated - Operations With Area Harvested	9
Missouri	Worth	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Worth	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Bollinger	Corn, Grain, Irrigated - Acres Harvested	2,143
Missouri	Bollinger	Corn, Grain, Irrigated - Operations With Area Harvested	17
Missouri	Howell	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Howell	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Ripley	Corn, Grain, Irrigated - Acres Harvested	1,725
Missouri	Ripley	Corn, Grain, Irrigated - Operations With Area Harvested	6
Missouri	Wayne	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Wayne	Corn, Grain, Irrigated - Operations With Area Harvested	2
Missouri	Webster	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Webster	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Wright	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Wright	Corn, Grain, Irrigated - Operations With Area Harvested	3
Missouri	Butler	Corn, Grain, Irrigated - Acres Harvested	17,828
Missouri	Butler	Corn, Grain, Irrigated - Operations With Area Harvested	61
Missouri	Cape Girardeau	Corn, Grain, Irrigated - Acres Harvested	6,530
Missouri	Cape Girardeau	Corn, Grain, Irrigated - Operations With Area Harvested	37
Missouri	Dunklin	Corn, Grain, Irrigated - Acres Harvested	16,274
Missouri	Dunklin	Corn, Grain, Irrigated - Operations With Area Harvested	60
Missouri	Mississippi	Corn, Grain, Irrigated - Acres Harvested	39,416
Missouri	Mississippi	Corn, Grain, Irrigated - Operations With Area Harvested	76
Missouri	New Madrid	Corn, Grain, Irrigated - Acres Harvested	53,544
Missouri	New Madrid	Corn, Grain, Irrigated - Operations With Area Harvested	163
Missouri	Pemiscot	Corn, Grain, Irrigated - Acres Harvested	16,506
Missouri	Pemiscot	Corn, Grain, Irrigated - Operations With Area Harvested	46
Missouri	Scott	Corn, Grain, Irrigated - Acres Harvested	35,281
Missouri	Scott	Corn, Grain, Irrigated - Operations With Area Harvested	78

State	County	Data Item	Value
Missouri	Stoddard	Corn, Grain, Irrigated - Acres Harvested	58,340
Missouri	Stoddard	Corn, Grain, Irrigated - Operations With Area Harvested	153
Missouri	Barry	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Barry	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Barton	Corn, Grain, Irrigated - Acres Harvested	6,629
Missouri	Barton	Corn, Grain, Irrigated - Operations With Area Harvested	26
Missouri	Dade	Corn, Grain, Irrigated - Acres Harvested	1,126
Missouri	Dade	Corn, Grain, Irrigated - Operations With Area Harvested	5
Missouri	Greene	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Greene	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Jasper	Corn, Grain, Irrigated - Acres Harvested	932
Missouri	Jasper	Corn, Grain, Irrigated - Operations With Area Harvested	8
Missouri	Lawrence	Corn, Grain, Irrigated - Acres Harvested	554
Missouri	Lawrence	Corn, Grain, Irrigated - Operations With Area Harvested	6
Missouri	Mcdonald	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Mcdonald	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Newton	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Newton	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Bates	Corn, Grain, Irrigated - Acres Harvested	1,688
Missouri	Bates	Corn, Grain, Irrigated - Operations With Area Harvested	8
Missouri	Cass	Corn, Grain, Irrigated - Acres Harvested	1,113
Missouri	Cass	Corn, Grain, Irrigated - Operations With Area Harvested	9
Missouri	Cedar	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Cedar	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Henry	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Henry	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Jackson	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	Jackson	Corn, Grain, Irrigated - Operations With Area Harvested	3
Missouri	Johnson	Corn, Grain, Irrigated - Acres Harvested	847
Missouri	Johnson	Corn, Grain, Irrigated - Operations With Area Harvested	8
Missouri	Lafayette	Corn, Grain, Irrigated - Acres Harvested	882
Missouri	Lafayette	Corn, Grain, Irrigated - Operations With Area Harvested	9
Missouri	St Clair	Corn, Grain, Irrigated - Acres Harvested	(D)
Missouri	St Clair	Corn, Grain, Irrigated - Operations With Area Harvested	1
Missouri	Vernon	Corn, Grain, Irrigated - Acres Harvested	3,165
Missouri	Vernon	Corn, Grain, Irrigated - Operations With Area Harvested	21
Montana	Golden Valley	Corn, Grain, Irrigated - Acres Harvested	(D)
Montana	Golden Valley	Corn, Grain, Irrigated - Operations With Area Harvested	2
Montana	Musselshell	Corn, Grain, Irrigated - Acres Harvested	(D)
Montana	Musselshell	Corn, Grain, Irrigated - Operations With Area Harvested	1
Montana	Petroleum	Corn, Grain, Irrigated - Acres Harvested	(D)
Montana	Petroleum	Corn, Grain, Irrigated - Operations With Area Harvested	1
Montana	Wheatland	Corn, Grain, Irrigated - Acres Harvested	(D)
Montana	Wheatland	Corn, Grain, Irrigated - Operations With Area Harvested	1
Montana	Blaine	Corn, Grain, Irrigated - Acres Harvested	139
Montana	Blaine	Corn, Grain, Irrigated - Operations With Area Harvested	5
Montana	Chouteau	Corn, Grain, Irrigated - Acres Harvested	590
Montana	Chouteau	Corn, Grain, Irrigated - Operations With Area Harvested	7
Montana	Hill	Corn, Grain, Irrigated - Acres Harvested	(D)

State	County	Data Item	Value
Montana	Hill	Corn, Grain, Irrigated - Operations With Area Harvested	1
Montana	Phillips	Corn, Grain, Irrigated - Acres Harvested	(D)
Montana	Phillips	Corn, Grain, Irrigated - Operations With Area Harvested	3
Montana	Pondera	Corn, Grain, Irrigated - Acres Harvested	(D)
Montana	Pondera	Corn, Grain, Irrigated - Operations With Area Harvested	2
Montana	Toole	Corn, Grain, Irrigated - Acres Harvested	365
Montana	Toole	Corn, Grain, Irrigated - Operations With Area Harvested	3
Montana	Dawson	Corn, Grain, Irrigated - Acres Harvested	1,977
Montana	Dawson	Corn, Grain, Irrigated - Operations With Area Harvested	23
Montana	McCone	Corn, Grain, Irrigated - Acres Harvested	380
Montana	McCone	Corn, Grain, Irrigated - Operations With Area Harvested	3
Montana	Richland	Corn, Grain, Irrigated - Acres Harvested	4,543
Montana	Richland	Corn, Grain, Irrigated - Operations With Area Harvested	32
Montana	Roosevelt	Corn, Grain, Irrigated - Acres Harvested	(D)
Montana	Roosevelt	Corn, Grain, Irrigated - Operations With Area Harvested	4
Montana	Sheridan	Corn, Grain, Irrigated - Acres Harvested	380
Montana	Sheridan	Corn, Grain, Irrigated - Operations With Area Harvested	3
Montana	Valley	Corn, Grain, Irrigated - Acres Harvested	1,680
Montana	Valley	Corn, Grain, Irrigated - Operations With Area Harvested	12
Montana	Flathead	Corn, Grain, Irrigated - Acres Harvested	(D)
Montana	Flathead	Corn, Grain, Irrigated - Operations With Area Harvested	2
Montana	Lake	Corn, Grain, Irrigated - Acres Harvested	1,100
Montana	Lake	Corn, Grain, Irrigated - Operations With Area Harvested	8
Montana	Ravalli	Corn, Grain, Irrigated - Acres Harvested	133
Montana	Ravalli	Corn, Grain, Irrigated - Operations With Area Harvested	5
Montana	Big Horn	Corn, Grain, Irrigated - Acres Harvested	(D)
Montana	Big Horn	Corn, Grain, Irrigated - Operations With Area Harvested	11
Montana	Carbon	Corn, Grain, Irrigated - Acres Harvested	(D)
Montana	Carbon	Corn, Grain, Irrigated - Operations With Area Harvested	34
Montana	Stillwater	Corn, Grain, Irrigated - Acres Harvested	825
Montana	Stillwater	Corn, Grain, Irrigated - Operations With Area Harvested	10
Montana	Treasure	Corn, Grain, Irrigated - Acres Harvested	2,297
Montana	Treasure	Corn, Grain, Irrigated - Operations With Area Harvested	17
Montana	Yellowstone	Corn, Grain, Irrigated - Acres Harvested	4,834
Montana	Yellowstone	Corn, Grain, Irrigated - Operations With Area Harvested	40
Montana	Custer	Corn, Grain, Irrigated - Acres Harvested	3,350
Montana	Custer	Corn, Grain, Irrigated - Operations With Area Harvested	20
Montana	Prairie	Corn, Grain, Irrigated - Acres Harvested	(D)
Montana	Prairie	Corn, Grain, Irrigated - Operations With Area Harvested	12
Montana	Rosebud	Corn, Grain, Irrigated - Acres Harvested	(D)
Montana	Rosebud	Corn, Grain, Irrigated - Operations With Area Harvested	14
Nebraska	Buffalo	Corn, Grain, Irrigated - Acres Harvested	168,461
Nebraska	Buffalo	Corn, Grain, Irrigated - Operations With Area Harvested	402
Nebraska	Custer	Corn, Grain, Irrigated - Acres Harvested	185,237
Nebraska	Custer	Corn, Grain, Irrigated - Operations With Area Harvested	407
Nebraska	Dawson	Corn, Grain, Irrigated - Acres Harvested	174,894
Nebraska	Dawson	Corn, Grain, Irrigated - Operations With Area Harvested	315
Nebraska	Greeley	Corn, Grain, Irrigated - Acres Harvested	58,060
Nebraska	Greeley	Corn, Grain, Irrigated - Operations With Area Harvested	163

State	County	Data Item	Value
Nebraska	Hall	Corn, Grain, Irrigated - Acres Harvested	174,796
Nebraska	Hall	Corn, Grain, Irrigated - Operations With Area Harvested	330
Nebraska	Howard	Corn, Grain, Irrigated - Acres Harvested	80,500
Nebraska	Howard	Corn, Grain, Irrigated - Operations With Area Harvested	265
Nebraska	Sherman	Corn, Grain, Irrigated - Acres Harvested	49,602
Nebraska	Sherman	Corn, Grain, Irrigated - Operations With Area Harvested	177
Nebraska	Valley	Corn, Grain, Irrigated - Acres Harvested	59,819
Nebraska	Valley	Corn, Grain, Irrigated - Operations With Area Harvested	185
Nebraska	Butler	Corn, Grain, Irrigated - Acres Harvested	67,235
Nebraska	Butler	Corn, Grain, Irrigated - Operations With Area Harvested	241
Nebraska	Cass	Corn, Grain, Irrigated - Acres Harvested	2,216
Nebraska	Cass	Corn, Grain, Irrigated - Operations With Area Harvested	18
Nebraska	Colfax	Corn, Grain, Irrigated - Acres Harvested	43,720
Nebraska	Colfax	Corn, Grain, Irrigated - Operations With Area Harvested	146
Nebraska	Dodge	Corn, Grain, Irrigated - Acres Harvested	75,709
Nebraska	Dodge	Corn, Grain, Irrigated - Operations With Area Harvested	265
Nebraska	Douglas	Corn, Grain, Irrigated - Acres Harvested	10,313
Nebraska	Douglas	Corn, Grain, Irrigated - Operations With Area Harvested	42
Nebraska	Hamilton	Corn, Grain, Irrigated - Acres Harvested	165,996
Nebraska	Hamilton	Corn, Grain, Irrigated - Operations With Area Harvested	358
Nebraska	Lancaster	Corn, Grain, Irrigated - Acres Harvested	12,461
Nebraska	Lancaster	Corn, Grain, Irrigated - Operations With Area Harvested	91
Nebraska	Merrick	Corn, Grain, Irrigated - Acres Harvested	110,460
Nebraska	Merrick	Corn, Grain, Irrigated - Operations With Area Harvested	267
Nebraska	Nance	Corn, Grain, Irrigated - Acres Harvested	39,026
Nebraska	Nance	Corn, Grain, Irrigated - Operations With Area Harvested	141
Nebraska	Platte	Corn, Grain, Irrigated - Acres Harvested	125,112
Nebraska	Platte	Corn, Grain, Irrigated - Operations With Area Harvested	457
Nebraska	Polk	Corn, Grain, Irrigated - Acres Harvested	90,690
Nebraska	Polk	Corn, Grain, Irrigated - Operations With Area Harvested	289
Nebraska	Sarpy	Corn, Grain, Irrigated - Acres Harvested	6,673
Nebraska	Sarpy	Corn, Grain, Irrigated - Operations With Area Harvested	28
Nebraska	Saunders	Corn, Grain, Irrigated - Acres Harvested	65,056
Nebraska	Saunders	Corn, Grain, Irrigated - Operations With Area Harvested	242
Nebraska	Seward	Corn, Grain, Irrigated - Acres Harvested	78,886
Nebraska	Seward	Corn, Grain, Irrigated - Operations With Area Harvested	230
Nebraska	Washington	Corn, Grain, Irrigated - Acres Harvested	10,576
Nebraska	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	52
Nebraska	York	Corn, Grain, Irrigated - Acres Harvested	175,324
Nebraska	York	Corn, Grain, Irrigated - Operations With Area Harvested	340
Nebraska	Arthur	Corn, Grain, Irrigated - Acres Harvested	(D)
Nebraska	Arthur	Corn, Grain, Irrigated - Operations With Area Harvested	7
Nebraska	Blaine	Corn, Grain, Irrigated - Acres Harvested	(D)
Nebraska	Blaine	Corn, Grain, Irrigated - Operations With Area Harvested	8
Nebraska	Boyd	Corn, Grain, Irrigated - Acres Harvested	3,121
Nebraska	Boyd	Corn, Grain, Irrigated - Operations With Area Harvested	15
Nebraska	Brown	Corn, Grain, Irrigated - Acres Harvested	27,041
Nebraska	Brown	Corn, Grain, Irrigated - Operations With Area Harvested	68
Nebraska	Cherry	Corn, Grain, Irrigated - Acres Harvested	24,115

State	County	Data Item	Value
Nebraska	Cherry	Corn, Grain, Irrigated - Operations With Area Harvested	43
Nebraska	Garfield	Corn, Grain, Irrigated - Acres Harvested	15,397
Nebraska	Garfield	Corn, Grain, Irrigated - Operations With Area Harvested	56
Nebraska	Holt	Corn, Grain, Irrigated - Acres Harvested	175,114
Nebraska	Holt	Corn, Grain, Irrigated - Operations With Area Harvested	351
Nebraska	Keya Paha	Corn, Grain, Irrigated - Acres Harvested	12,515
Nebraska	Keya Paha	Corn, Grain, Irrigated - Operations With Area Harvested	30
Nebraska	Logan	Corn, Grain, Irrigated - Acres Harvested	17,684
Nebraska	Logan	Corn, Grain, Irrigated - Operations With Area Harvested	35
Nebraska	Loup	Corn, Grain, Irrigated - Acres Harvested	3,637
Nebraska	Loup	Corn, Grain, Irrigated - Operations With Area Harvested	31
Nebraska	Mcpherson	Corn, Grain, Irrigated - Acres Harvested	1,886
Nebraska	Mcpherson	Corn, Grain, Irrigated - Operations With Area Harvested	14
Nebraska	Rock	Corn, Grain, Irrigated - Acres Harvested	(D)
Nebraska	Rock	Corn, Grain, Irrigated - Operations With Area Harvested	36
Nebraska	Thomas	Corn, Grain, Irrigated - Acres Harvested	(D)
Nebraska	Thomas	Corn, Grain, Irrigated - Operations With Area Harvested	3
Nebraska	Wheeler	Corn, Grain, Irrigated - Acres Harvested	(D)
Nebraska	Wheeler	Corn, Grain, Irrigated - Operations With Area Harvested	63
Nebraska	Antelope	Corn, Grain, Irrigated - Acres Harvested	143,184
Nebraska	Antelope	Corn, Grain, Irrigated - Operations With Area Harvested	394
Nebraska	Boone	Corn, Grain, Irrigated - Acres Harvested	114,182
Nebraska	Boone	Corn, Grain, Irrigated - Operations With Area Harvested	350
Nebraska	Burt	Corn, Grain, Irrigated - Acres Harvested	22,088
Nebraska	Burt	Corn, Grain, Irrigated - Operations With Area Harvested	98
Nebraska	Cedar	Corn, Grain, Irrigated - Acres Harvested	87,741
Nebraska	Cedar	Corn, Grain, Irrigated - Operations With Area Harvested	256
Nebraska	Cuming	Corn, Grain, Irrigated - Acres Harvested	34,763
Nebraska	Cuming	Corn, Grain, Irrigated - Operations With Area Harvested	167
Nebraska	Dakota	Corn, Grain, Irrigated - Acres Harvested	19,941
Nebraska	Dakota	Corn, Grain, Irrigated - Operations With Area Harvested	28
Nebraska	Dixon	Corn, Grain, Irrigated - Acres Harvested	16,428
Nebraska	Dixon	Corn, Grain, Irrigated - Operations With Area Harvested	67
Nebraska	Knox	Corn, Grain, Irrigated - Acres Harvested	41,614
Nebraska	Knox	Corn, Grain, Irrigated - Operations With Area Harvested	178
Nebraska	Madison	Corn, Grain, Irrigated - Acres Harvested	65,655
Nebraska	Madison	Corn, Grain, Irrigated - Operations With Area Harvested	236
Nebraska	Pierce	Corn, Grain, Irrigated - Acres Harvested	76,367
Nebraska	Pierce	Corn, Grain, Irrigated - Operations With Area Harvested	225
Nebraska	Stanton	Corn, Grain, Irrigated - Acres Harvested	17,010
Nebraska	Stanton	Corn, Grain, Irrigated - Operations With Area Harvested	85
Nebraska	Thurston	Corn, Grain, Irrigated - Acres Harvested	7,618
Nebraska	Thurston	Corn, Grain, Irrigated - Operations With Area Harvested	35
Nebraska	Wayne	Corn, Grain, Irrigated - Acres Harvested	31,916
Nebraska	Wayne	Corn, Grain, Irrigated - Operations With Area Harvested	83
Nebraska	Banner	Corn, Grain, Irrigated - Acres Harvested	5,989
Nebraska	Banner	Corn, Grain, Irrigated - Operations With Area Harvested	16
Nebraska	Box Butte	Corn, Grain, Irrigated - Acres Harvested	57,362
Nebraska	Box Butte	Corn, Grain, Irrigated - Operations With Area Harvested	135

State	County	Data Item	Value
Nebraska	Cheyenne	Corn, Grain, Irrigated - Acres Harvested	26,709
Nebraska	Cheyenne	Corn, Grain, Irrigated - Operations With Area Harvested	82
Nebraska	Dawes	Corn, Grain, Irrigated - Acres Harvested	5,358
Nebraska	Dawes	Corn, Grain, Irrigated - Operations With Area Harvested	22
Nebraska	Deuel	Corn, Grain, Irrigated - Acres Harvested	12,755
Nebraska	Deuel	Corn, Grain, Irrigated - Operations With Area Harvested	34
Nebraska	Garden	Corn, Grain, Irrigated - Acres Harvested	18,917
Nebraska	Garden	Corn, Grain, Irrigated - Operations With Area Harvested	50
Nebraska	Kimball	Corn, Grain, Irrigated - Acres Harvested	12,225
Nebraska	Kimball	Corn, Grain, Irrigated - Operations With Area Harvested	47
Nebraska	Morrill	Corn, Grain, Irrigated - Acres Harvested	72,465
Nebraska	Morrill	Corn, Grain, Irrigated - Operations With Area Harvested	189
Nebraska	Scotts Bluff	Corn, Grain, Irrigated - Acres Harvested	85,588
Nebraska	Scotts Bluff	Corn, Grain, Irrigated - Operations With Area Harvested	357
Nebraska	Sheridan	Corn, Grain, Irrigated - Acres Harvested	27,214
Nebraska	Sheridan	Corn, Grain, Irrigated - Operations With Area Harvested	78
Nebraska	Sioux	Corn, Grain, Irrigated - Acres Harvested	14,945
Nebraska	Sioux	Corn, Grain, Irrigated - Operations With Area Harvested	62
Nebraska	Adams	Corn, Grain, Irrigated - Acres Harvested	143,381
Nebraska	Adams	Corn, Grain, Irrigated - Operations With Area Harvested	297
Nebraska	Franklin	Corn, Grain, Irrigated - Acres Harvested	52,221
Nebraska	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	152
Nebraska	Furnas	Corn, Grain, Irrigated - Acres Harvested	39,448
Nebraska	Furnas	Corn, Grain, Irrigated - Operations With Area Harvested	129
Nebraska	Gosper	Corn, Grain, Irrigated - Acres Harvested	61,988
Nebraska	Gosper	Corn, Grain, Irrigated - Operations With Area Harvested	129
Nebraska	Harlan	Corn, Grain, Irrigated - Acres Harvested	57,511
Nebraska	Harlan	Corn, Grain, Irrigated - Operations With Area Harvested	136
Nebraska	Kearney	Corn, Grain, Irrigated - Acres Harvested	125,809
Nebraska	Kearney	Corn, Grain, Irrigated - Operations With Area Harvested	237
Nebraska	Phelps	Corn, Grain, Irrigated - Acres Harvested	145,580
Nebraska	Phelps	Corn, Grain, Irrigated - Operations With Area Harvested	287
Nebraska	Webster	Corn, Grain, Irrigated - Acres Harvested	34,173
Nebraska	Webster	Corn, Grain, Irrigated - Operations With Area Harvested	99
Nebraska	Clay	Corn, Grain, Irrigated - Acres Harvested	125,277
Nebraska	Clay	Corn, Grain, Irrigated - Operations With Area Harvested	263
Nebraska	Fillmore	Corn, Grain, Irrigated - Acres Harvested	137,261
Nebraska	Fillmore	Corn, Grain, Irrigated - Operations With Area Harvested	292
Nebraska	Gage	Corn, Grain, Irrigated - Acres Harvested	38,113
Nebraska	Gage	Corn, Grain, Irrigated - Operations With Area Harvested	207
Nebraska	Jefferson	Corn, Grain, Irrigated - Acres Harvested	50,414
Nebraska	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	183
Nebraska	Johnson	Corn, Grain, Irrigated - Acres Harvested	9,242
Nebraska	Johnson	Corn, Grain, Irrigated - Operations With Area Harvested	62
Nebraska	Nemaha	Corn, Grain, Irrigated - Acres Harvested	7,060
Nebraska	Nemaha	Corn, Grain, Irrigated - Operations With Area Harvested	30
Nebraska	Nuckolls	Corn, Grain, Irrigated - Acres Harvested	45,361
Nebraska	Nuckolls	Corn, Grain, Irrigated - Operations With Area Harvested	131
Nebraska	Otoe	Corn, Grain, Irrigated - Acres Harvested	4,921



State	County	Data Item	Value
Nebraska	Otoe	Corn, Grain, Irrigated - Operations With Area Harvested	31
Nebraska	Pawnee	Corn, Grain, Irrigated - Acres Harvested	3,127
Nebraska	Pawnee	Corn, Grain, Irrigated - Operations With Area Harvested	10
Nebraska	Richardson	Corn, Grain, Irrigated - Acres Harvested	2,886
Nebraska	Richardson	Corn, Grain, Irrigated - Operations With Area Harvested	19
Nebraska	Saline	Corn, Grain, Irrigated - Acres Harvested	70,542
Nebraska	Saline	Corn, Grain, Irrigated - Operations With Area Harvested	229
Nebraska	Thayer	Corn, Grain, Irrigated - Acres Harvested	83,582
Nebraska	Thayer	Corn, Grain, Irrigated - Operations With Area Harvested	229
Nebraska	Chase	Corn, Grain, Irrigated - Acres Harvested	131,150
Nebraska	Chase	Corn, Grain, Irrigated - Operations With Area Harvested	149
Nebraska	Dundy	Corn, Grain, Irrigated - Acres Harvested	69,889
Nebraska	Dundy	Corn, Grain, Irrigated - Operations With Area Harvested	92
Nebraska	Frontier	Corn, Grain, Irrigated - Acres Harvested	34,477
Nebraska	Frontier	Corn, Grain, Irrigated - Operations With Area Harvested	99
Nebraska	Hayes	Corn, Grain, Irrigated - Acres Harvested	39,905
Nebraska	Hayes	Corn, Grain, Irrigated - Operations With Area Harvested	66
Nebraska	Hitchcock	Corn, Grain, Irrigated - Acres Harvested	12,678
Nebraska	Hitchcock	Corn, Grain, Irrigated - Operations With Area Harvested	77
Nebraska	Keith	Corn, Grain, Irrigated - Acres Harvested	74,655
Nebraska	Keith	Corn, Grain, Irrigated - Operations With Area Harvested	134
Nebraska	Lincoln	Corn, Grain, Irrigated - Acres Harvested	165,425
Nebraska	Lincoln	Corn, Grain, Irrigated - Operations With Area Harvested	288
Nebraska	Perkins	Corn, Grain, Irrigated - Acres Harvested	106,278
Nebraska	Perkins	Corn, Grain, Irrigated - Operations With Area Harvested	159
Nebraska	Red Willow	Corn, Grain, Irrigated - Acres Harvested	31,864
Nebraska	Red Willow	Corn, Grain, Irrigated - Operations With Area Harvested	98
Nevada	White Pine	Corn, Grain, Irrigated - Acres Harvested	(D)
Nevada	White Pine	Corn, Grain, Irrigated - Operations With Area Harvested	1
Nevada	Churchill	Corn, Grain, Irrigated - Acres Harvested	852
Nevada	Churchill	Corn, Grain, Irrigated - Operations With Area Harvested	20
Nevada	Humboldt	Corn, Grain, Irrigated - Acres Harvested	(D)
Nevada	Humboldt	Corn, Grain, Irrigated - Operations With Area Harvested	2
Nevada	Lyon	Corn, Grain, Irrigated - Acres Harvested	(D)
Nevada	Lyon	Corn, Grain, Irrigated - Operations With Area Harvested	1
Nevada	Pershing	Corn, Grain, Irrigated - Acres Harvested	1,025
Nevada	Pershing	Corn, Grain, Irrigated - Operations With Area Harvested	7
Nevada	Clark	Corn, Grain, Irrigated - Acres Harvested	(D)
Nevada	Clark	Corn, Grain, Irrigated - Operations With Area Harvested	1
Nevada	Esmeralda	Corn, Grain, Irrigated - Acres Harvested	(D)
Nevada	Esmeralda	Corn, Grain, Irrigated - Operations With Area Harvested	1
Nevada	Lincoln	Corn, Grain, Irrigated - Acres Harvested	759
Nevada	Lincoln	Corn, Grain, Irrigated - Operations With Area Harvested	3
New Jersey	Burlington	Corn, Grain, Irrigated - Acres Harvested	717
New Jersey	Burlington	Corn, Grain, Irrigated - Operations With Area Harvested	13
New Jersey	Mercer	Corn, Grain, Irrigated - Acres Harvested	(D)
New Jersey	Mercer	Corn, Grain, Irrigated - Operations With Area Harvested	2
New Jersey	Middlesex	Corn, Grain, Irrigated - Acres Harvested	343
New Jersey	Middlesex	Corn, Grain, Irrigated - Operations With Area Harvested	6

State	County	Data Item	Value
New Jersey	Monmouth	Corn, Grain, Irrigated - Acres Harvested	52
New Jersey	Monmouth	Corn, Grain, Irrigated - Operations With Area Harvested	3
New Jersey	Ocean	Corn, Grain, Irrigated - Acres Harvested	(D)
New Jersey	Ocean	Corn, Grain, Irrigated - Operations With Area Harvested	2
New Jersey	Hunterdon	Corn, Grain, Irrigated - Acres Harvested	(D)
New Jersey	Hunterdon	Corn, Grain, Irrigated - Operations With Area Harvested	2
New Jersey	Morris	Corn, Grain, Irrigated - Acres Harvested	(D)
New Jersey	Morris	Corn, Grain, Irrigated - Operations With Area Harvested	2
New Jersey	Somerset	Corn, Grain, Irrigated - Acres Harvested	(D)
New Jersey	Somerset	Corn, Grain, Irrigated - Operations With Area Harvested	1
New Jersey	Sussex	Corn, Grain, Irrigated - Acres Harvested	(D)
New Jersey	Sussex	Corn, Grain, Irrigated - Operations With Area Harvested	2
New Jersey	Warren	Corn, Grain, Irrigated - Acres Harvested	14
New Jersey	Warren	Corn, Grain, Irrigated - Operations With Area Harvested	5
New Jersey	Atlantic	Corn, Grain, Irrigated - Acres Harvested	200
New Jersey	Atlantic	Corn, Grain, Irrigated - Operations With Area Harvested	13
New Jersey	Camden	Corn, Grain, Irrigated - Acres Harvested	(D)
New Jersey	Camden	Corn, Grain, Irrigated - Operations With Area Harvested	1
New Jersey	Cape May	Corn, Grain, Irrigated - Acres Harvested	27
New Jersey	Cape May	Corn, Grain, Irrigated - Operations With Area Harvested	8
New Jersey	Cumberland	Corn, Grain, Irrigated - Acres Harvested	1,278
New Jersey	Cumberland	Corn, Grain, Irrigated - Operations With Area Harvested	12
New Jersey	Gloucester	Corn, Grain, Irrigated - Acres Harvested	489
New Jersey	Gloucester	Corn, Grain, Irrigated - Operations With Area Harvested	13
New Jersey	Salem	Corn, Grain, Irrigated - Acres Harvested	6,140
New Jersey	Salem	Corn, Grain, Irrigated - Operations With Area Harvested	44
New Mexico	Curry	Corn, Grain, Irrigated - Acres Harvested	(D)
New Mexico	Curry	Corn, Grain, Irrigated - Operations With Area Harvested	13
New Mexico	Mora	Corn, Grain, Irrigated - Acres Harvested	(D)
New Mexico	Mora	Corn, Grain, Irrigated - Operations With Area Harvested	1
New Mexico	Roosevelt	Corn, Grain, Irrigated - Acres Harvested	(D)
New Mexico	Roosevelt	Corn, Grain, Irrigated - Operations With Area Harvested	2
New Mexico	San Miguel	Corn, Grain, Irrigated - Acres Harvested	(D)
New Mexico	San Miguel	Corn, Grain, Irrigated - Operations With Area Harvested	2
New Mexico	Torrance	Corn, Grain, Irrigated - Acres Harvested	(D)
New Mexico	Torrance	Corn, Grain, Irrigated - Operations With Area Harvested	1
New Mexico	Union	Corn, Grain, Irrigated - Acres Harvested	9,824
New Mexico	Union	Corn, Grain, Irrigated - Operations With Area Harvested	17
New Mexico	Rio Arriba	Corn, Grain, Irrigated - Acres Harvested	130
New Mexico	Rio Arriba	Corn, Grain, Irrigated - Operations With Area Harvested	15
New Mexico	San Juan	Corn, Grain, Irrigated - Acres Harvested	(D)
New Mexico	San Juan	Corn, Grain, Irrigated - Operations With Area Harvested	22
New Mexico	Sandoval	Corn, Grain, Irrigated - Acres Harvested	12
New Mexico	Sandoval	Corn, Grain, Irrigated - Operations With Area Harvested	7
New Mexico	Santa Fe	Corn, Grain, Irrigated - Acres Harvested	17
New Mexico	Santa Fe	Corn, Grain, Irrigated - Operations With Area Harvested	17
New Mexico	Taos	Corn, Grain, Irrigated - Acres Harvested	16
New Mexico	Taos	Corn, Grain, Irrigated - Operations With Area Harvested	9
New Mexico	Valencia	Corn, Grain, Irrigated - Acres Harvested	(D)

State	County	Data Item	Value
New Mexico	Valencia	Corn, Grain, Irrigated - Operations With Area Harvested	3
New Mexico	Chaves	Corn, Grain, Irrigated - Acres Harvested	(D)
New Mexico	Chaves	Corn, Grain, Irrigated - Operations With Area Harvested	1
New Mexico	Dona Ana	Corn, Grain, Irrigated - Acres Harvested	4
New Mexico	Dona Ana	Corn, Grain, Irrigated - Operations With Area Harvested	4
New Mexico	Lea	Corn, Grain, Irrigated - Acres Harvested	960
New Mexico	Lea	Corn, Grain, Irrigated - Operations With Area Harvested	6
New Mexico	Grant	Corn, Grain, Irrigated - Acres Harvested	(D)
New Mexico	Grant	Corn, Grain, Irrigated - Operations With Area Harvested	1
New Mexico	Hidalgo	Corn, Grain, Irrigated - Acres Harvested	(D)
New Mexico	Hidalgo	Corn, Grain, Irrigated - Operations With Area Harvested	1
New Mexico	Luna	Corn, Grain, Irrigated - Acres Harvested	(D)
New Mexico	Luna	Corn, Grain, Irrigated - Operations With Area Harvested	1
New Mexico	Sierra	Corn, Grain, Irrigated - Acres Harvested	12
New Mexico	Sierra	Corn, Grain, Irrigated - Operations With Area Harvested	6
New Mexico	Socorro	Corn, Grain, Irrigated - Acres Harvested	(D)
New Mexico	Socorro	Corn, Grain, Irrigated - Operations With Area Harvested	2
New York	Cayuga	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Cayuga	Corn, Grain, Irrigated - Operations With Area Harvested	2
New York	Oneida	Corn, Grain, Irrigated - Acres Harvested	9
New York	Oneida	Corn, Grain, Irrigated - Operations With Area Harvested	3
New York	Onondaga	Corn, Grain, Irrigated - Acres Harvested	3
New York	Onondaga	Corn, Grain, Irrigated - Operations With Area Harvested	3
New York	Otsego	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Otsego	Corn, Grain, Irrigated - Operations With Area Harvested	2
New York	Montgomery	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Montgomery	Corn, Grain, Irrigated - Operations With Area Harvested	1
New York	Schoharie	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Schoharie	Corn, Grain, Irrigated - Operations With Area Harvested	1
New York	Suffolk	Corn, Grain, Irrigated - Acres Harvested	45
New York	Suffolk	Corn, Grain, Irrigated - Operations With Area Harvested	5
New York	Jefferson	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	1
New York	St Lawrence	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	St Lawrence	Corn, Grain, Irrigated - Operations With Area Harvested	1
New York	Columbia	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Columbia	Corn, Grain, Irrigated - Operations With Area Harvested	2
New York	Delaware	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Delaware	Corn, Grain, Irrigated - Operations With Area Harvested	2
New York	Greene	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Greene	Corn, Grain, Irrigated - Operations With Area Harvested	1
New York	Orange	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Orange	Corn, Grain, Irrigated - Operations With Area Harvested	1
New York	Sullivan	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Sullivan	Corn, Grain, Irrigated - Operations With Area Harvested	1
New York	Ulster	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Ulster	Corn, Grain, Irrigated - Operations With Area Harvested	1
New York	Broome	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Broome	Corn, Grain, Irrigated - Operations With Area Harvested	1

State	County	Data Item	Value
New York	Tioga	Corn, Grain, Irrigated - Acres Harvested	72
New York	Tioga	Corn, Grain, Irrigated - Operations With Area Harvested	4
New York	Allegany	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Allegany	Corn, Grain, Irrigated - Operations With Area Harvested	2
New York	Steuben	Corn, Grain, Irrigated - Acres Harvested	447
New York	Steuben	Corn, Grain, Irrigated - Operations With Area Harvested	5
New York	Erie	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Erie	Corn, Grain, Irrigated - Operations With Area Harvested	2
New York	Genesee	Corn, Grain, Irrigated - Acres Harvested	486
New York	Genesee	Corn, Grain, Irrigated - Operations With Area Harvested	5
New York	Livingston	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Livingston	Corn, Grain, Irrigated - Operations With Area Harvested	3
New York	Monroe	Corn, Grain, Irrigated - Acres Harvested	8
New York	Monroe	Corn, Grain, Irrigated - Operations With Area Harvested	4
New York	Niagara	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Niagara	Corn, Grain, Irrigated - Operations With Area Harvested	3
New York	Ontario	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Ontario	Corn, Grain, Irrigated - Operations With Area Harvested	1
New York	Orleans	Corn, Grain, Irrigated - Acres Harvested	3
New York	Orleans	Corn, Grain, Irrigated - Operations With Area Harvested	3
New York	Seneca	Corn, Grain, Irrigated - Acres Harvested	17
New York	Seneca	Corn, Grain, Irrigated - Operations With Area Harvested	9
New York	Wayne	Corn, Grain, Irrigated - Acres Harvested	14
New York	Wayne	Corn, Grain, Irrigated - Operations With Area Harvested	6
New York	Wyoming	Corn, Grain, Irrigated - Acres Harvested	(D)
New York	Wyoming	Corn, Grain, Irrigated - Operations With Area Harvested	1
New York	Yates	Corn, Grain, Irrigated - Acres Harvested	5
New York	Yates	Corn, Grain, Irrigated - Operations With Area Harvested	5
North Carolina	Beaufort	Corn, Grain, Irrigated - Acres Harvested	1,549
North Carolina	Beaufort	Corn, Grain, Irrigated - Operations With Area Harvested	9
North Carolina	Carteret	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Carteret	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Greene	Corn, Grain, Irrigated - Acres Harvested	476
North Carolina	Greene	Corn, Grain, Irrigated - Operations With Area Harvested	9
North Carolina	Hyde	Corn, Grain, Irrigated - Acres Harvested	444
North Carolina	Hyde	Corn, Grain, Irrigated - Operations With Area Harvested	6
North Carolina	Johnston	Corn, Grain, Irrigated - Acres Harvested	645
North Carolina	Johnston	Corn, Grain, Irrigated - Operations With Area Harvested	13
North Carolina	Jones	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Jones	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Lenoir	Corn, Grain, Irrigated - Acres Harvested	583
North Carolina	Lenoir	Corn, Grain, Irrigated - Operations With Area Harvested	11
North Carolina	Pamlico	Corn, Grain, Irrigated - Acres Harvested	1,794
North Carolina	Pamlico	Corn, Grain, Irrigated - Operations With Area Harvested	6
North Carolina	Pitt	Corn, Grain, Irrigated - Acres Harvested	237
North Carolina	Pitt	Corn, Grain, Irrigated - Operations With Area Harvested	8
North Carolina	Wayne	Corn, Grain, Irrigated - Acres Harvested	430
North Carolina	Wayne	Corn, Grain, Irrigated - Operations With Area Harvested	11
North Carolina	Wilson	Corn, Grain, Irrigated - Acres Harvested	33

State	County	Data Item	Value
North Carolina	Wilson	Corn, Grain, Irrigated - Operations With Area Harvested	6
North Carolina	Alexander	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Alexander	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Catawba	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Catawba	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Chatham	Corn, Grain, Irrigated - Acres Harvested	22
North Carolina	Chatham	Corn, Grain, Irrigated - Operations With Area Harvested	6
North Carolina	Davidson	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Davidson	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Davie	Corn, Grain, Irrigated - Acres Harvested	8
North Carolina	Davie	Corn, Grain, Irrigated - Operations With Area Harvested	3
North Carolina	Iredell	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Iredell	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Lee	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Lee	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Randolph	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Randolph	Corn, Grain, Irrigated - Operations With Area Harvested	6
North Carolina	Rowan	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Rowan	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Wake	Corn, Grain, Irrigated - Acres Harvested	270
North Carolina	Wake	Corn, Grain, Irrigated - Operations With Area Harvested	12
North Carolina	Bertie	Corn, Grain, Irrigated - Acres Harvested	499
North Carolina	Bertie	Corn, Grain, Irrigated - Operations With Area Harvested	6
North Carolina	Chowan	Corn, Grain, Irrigated - Acres Harvested	635
North Carolina	Chowan	Corn, Grain, Irrigated - Operations With Area Harvested	8
North Carolina	Edgecombe	Corn, Grain, Irrigated - Acres Harvested	1,704
North Carolina	Edgecombe	Corn, Grain, Irrigated - Operations With Area Harvested	7
North Carolina	Gates	Corn, Grain, Irrigated - Acres Harvested	446
North Carolina	Gates	Corn, Grain, Irrigated - Operations With Area Harvested	4
North Carolina	Halifax	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Halifax	Corn, Grain, Irrigated - Operations With Area Harvested	3
North Carolina	Hertford	Corn, Grain, Irrigated - Acres Harvested	1,935
North Carolina	Hertford	Corn, Grain, Irrigated - Operations With Area Harvested	10
North Carolina	Martin	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Martin	Corn, Grain, Irrigated - Operations With Area Harvested	1
North Carolina	Nash	Corn, Grain, Irrigated - Acres Harvested	209
North Carolina	Nash	Corn, Grain, Irrigated - Operations With Area Harvested	5
North Carolina	Northampton	Corn, Grain, Irrigated - Acres Harvested	620
North Carolina	Northampton	Corn, Grain, Irrigated - Operations With Area Harvested	9
North Carolina	Perquimans	Corn, Grain, Irrigated - Acres Harvested	204
North Carolina	Perquimans	Corn, Grain, Irrigated - Operations With Area Harvested	6
North Carolina	Washington	Corn, Grain, Irrigated - Acres Harvested	903
North Carolina	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	8
North Carolina	Alleghany	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Alleghany	Corn, Grain, Irrigated - Operations With Area Harvested	1
North Carolina	Caldwell	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Caldwell	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Surry	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Surry	Corn, Grain, Irrigated - Operations With Area Harvested	1

State	County	Data Item	Value
North Carolina	Yadkin	Corn, Grain, Irrigated - Acres Harvested	6
North Carolina	Yadkin	Corn, Grain, Irrigated - Operations With Area Harvested	4
North Carolina	Caswell	Corn, Grain, Irrigated - Acres Harvested	44
North Carolina	Caswell	Corn, Grain, Irrigated - Operations With Area Harvested	7
North Carolina	Durham	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Durham	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Forsyth	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Forsyth	Corn, Grain, Irrigated - Operations With Area Harvested	1
North Carolina	Franklin	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	1
North Carolina	Granville	Corn, Grain, Irrigated - Acres Harvested	225
North Carolina	Granville	Corn, Grain, Irrigated - Operations With Area Harvested	10
North Carolina	Guilford	Corn, Grain, Irrigated - Acres Harvested	122
North Carolina	Guilford	Corn, Grain, Irrigated - Operations With Area Harvested	7
North Carolina	Orange	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Orange	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Person	Corn, Grain, Irrigated - Acres Harvested	36
North Carolina	Person	Corn, Grain, Irrigated - Operations With Area Harvested	5
North Carolina	Rockingham	Corn, Grain, Irrigated - Acres Harvested	256
North Carolina	Rockingham	Corn, Grain, Irrigated - Operations With Area Harvested	5
North Carolina	Stokes	Corn, Grain, Irrigated - Acres Harvested	41
North Carolina	Stokes	Corn, Grain, Irrigated - Operations With Area Harvested	6
North Carolina	Vance	Corn, Grain, Irrigated - Acres Harvested	108
North Carolina	Vance	Corn, Grain, Irrigated - Operations With Area Harvested	6
North Carolina	Warren	Corn, Grain, Irrigated - Acres Harvested	6
North Carolina	Warren	Corn, Grain, Irrigated - Operations With Area Harvested	3
North Carolina	Bladen	Corn, Grain, Irrigated - Acres Harvested	679
North Carolina	Bladen	Corn, Grain, Irrigated - Operations With Area Harvested	6
North Carolina	Columbus	Corn, Grain, Irrigated - Acres Harvested	520
North Carolina	Columbus	Corn, Grain, Irrigated - Operations With Area Harvested	13
North Carolina	Cumberland	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Cumberland	Corn, Grain, Irrigated - Operations With Area Harvested	5
North Carolina	Duplin	Corn, Grain, Irrigated - Acres Harvested	1,427
North Carolina	Duplin	Corn, Grain, Irrigated - Operations With Area Harvested	30
North Carolina	Harnett	Corn, Grain, Irrigated - Acres Harvested	33
North Carolina	Harnett	Corn, Grain, Irrigated - Operations With Area Harvested	6
North Carolina	Hoke	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Hoke	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Onslow	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Onslow	Corn, Grain, Irrigated - Operations With Area Harvested	1
North Carolina	Pender	Corn, Grain, Irrigated - Acres Harvested	151
North Carolina	Pender	Corn, Grain, Irrigated - Operations With Area Harvested	4
North Carolina	Robeson	Corn, Grain, Irrigated - Acres Harvested	3,255
North Carolina	Robeson	Corn, Grain, Irrigated - Operations With Area Harvested	17
North Carolina	Sampson	Corn, Grain, Irrigated - Acres Harvested	869
North Carolina	Sampson	Corn, Grain, Irrigated - Operations With Area Harvested	27
North Carolina	Scotland	Corn, Grain, Irrigated - Acres Harvested	1,526
North Carolina	Scotland	Corn, Grain, Irrigated - Operations With Area Harvested	5
North Carolina	Anson	Corn, Grain, Irrigated - Acres Harvested	(D)

State	County	Data Item	Value
North Carolina	Anson	Corn, Grain, Irrigated - Operations With Area Harvested	1
North Carolina	Cabarrus	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Cabarrus	Corn, Grain, Irrigated - Operations With Area Harvested	1
North Carolina	Cleveland	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Cleveland	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Montgomery	Corn, Grain, Irrigated - Acres Harvested	14
North Carolina	Montgomery	Corn, Grain, Irrigated - Operations With Area Harvested	4
North Carolina	Moore	Corn, Grain, Irrigated - Acres Harvested	49
North Carolina	Moore	Corn, Grain, Irrigated - Operations With Area Harvested	5
North Carolina	Richmond	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Richmond	Corn, Grain, Irrigated - Operations With Area Harvested	5
North Carolina	Stanly	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Stanly	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Burke	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Burke	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Henderson	Corn, Grain, Irrigated - Acres Harvested	120
North Carolina	Henderson	Corn, Grain, Irrigated - Operations With Area Harvested	3
North Carolina	Jackson	Corn, Grain, Irrigated - Acres Harvested	3
North Carolina	Jackson	Corn, Grain, Irrigated - Operations With Area Harvested	3
North Carolina	Polk	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Polk	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Carolina	Rutherford	Corn, Grain, Irrigated - Acres Harvested	(D)
North Carolina	Rutherford	Corn, Grain, Irrigated - Operations With Area Harvested	1
North Dakota	Eddy	Corn, Grain, Irrigated - Acres Harvested	(D)
North Dakota	Eddy	Corn, Grain, Irrigated - Operations With Area Harvested	1
North Dakota	Foster	Corn, Grain, Irrigated - Acres Harvested	1,498
North Dakota	Foster	Corn, Grain, Irrigated - Operations With Area Harvested	4
North Dakota	Kidder	Corn, Grain, Irrigated - Acres Harvested	4,380
North Dakota	Kidder	Corn, Grain, Irrigated - Operations With Area Harvested	22
North Dakota	Stutsman	Corn, Grain, Irrigated - Acres Harvested	3,387
North Dakota	Stutsman	Corn, Grain, Irrigated - Operations With Area Harvested	12
North Dakota	Wells	Corn, Grain, Irrigated - Acres Harvested	296
North Dakota	Wells	Corn, Grain, Irrigated - Operations With Area Harvested	3
North Dakota	Barnes	Corn, Grain, Irrigated - Acres Harvested	1,685
North Dakota	Barnes	Corn, Grain, Irrigated - Operations With Area Harvested	4
North Dakota	Cass	Corn, Grain, Irrigated - Acres Harvested	6,337
North Dakota	Cass	Corn, Grain, Irrigated - Operations With Area Harvested	13
North Dakota	Griggs	Corn, Grain, Irrigated - Acres Harvested	960
North Dakota	Griggs	Corn, Grain, Irrigated - Operations With Area Harvested	9
North Dakota	Steele	Corn, Grain, Irrigated - Acres Harvested	3,024
North Dakota	Steele	Corn, Grain, Irrigated - Operations With Area Harvested	10
North Dakota	Traill	Corn, Grain, Irrigated - Acres Harvested	435
North Dakota	Traill	Corn, Grain, Irrigated - Operations With Area Harvested	4
North Dakota	Benson	Corn, Grain, Irrigated - Acres Harvested	424
North Dakota	Benson	Corn, Grain, Irrigated - Operations With Area Harvested	5
North Dakota	Bottineau	Corn, Grain, Irrigated - Acres Harvested	(D)
North Dakota	Bottineau	Corn, Grain, Irrigated - Operations With Area Harvested	1
North Dakota	Pierce	Corn, Grain, Irrigated - Acres Harvested	571
North Dakota	Pierce	Corn, Grain, Irrigated - Operations With Area Harvested	3

State	County	Data Item	Value
North Dakota	Grand Forks	Corn, Grain, Irrigated - Acres Harvested	6,128
North Dakota	Grand Forks	Corn, Grain, Irrigated - Operations With Area Harvested	16
North Dakota	Nelson	Corn, Grain, Irrigated - Acres Harvested	774
North Dakota	Nelson	Corn, Grain, Irrigated - Operations With Area Harvested	4
North Dakota	Pembina	Corn, Grain, Irrigated - Acres Harvested	5,078
North Dakota	Pembina	Corn, Grain, Irrigated - Operations With Area Harvested	8
North Dakota	Ramsey	Corn, Grain, Irrigated - Acres Harvested	(D)
North Dakota	Ramsey	Corn, Grain, Irrigated - Operations With Area Harvested	1
North Dakota	Towner	Corn, Grain, Irrigated - Acres Harvested	(D)
North Dakota	Towner	Corn, Grain, Irrigated - Operations With Area Harvested	3
North Dakota	Walsh	Corn, Grain, Irrigated - Acres Harvested	1,742
North Dakota	Walsh	Corn, Grain, Irrigated - Operations With Area Harvested	8
North Dakota	Divide	Corn, Grain, Irrigated - Acres Harvested	(D)
North Dakota	Divide	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Dakota	Williams	Corn, Grain, Irrigated - Acres Harvested	1,885
North Dakota	Williams	Corn, Grain, Irrigated - Operations With Area Harvested	8
North Dakota	Burleigh	Corn, Grain, Irrigated - Acres Harvested	1,888
North Dakota	Burleigh	Corn, Grain, Irrigated - Operations With Area Harvested	11
North Dakota	Emmons	Corn, Grain, Irrigated - Acres Harvested	1,332
North Dakota	Emmons	Corn, Grain, Irrigated - Operations With Area Harvested	7
North Dakota	Grant	Corn, Grain, Irrigated - Acres Harvested	692
North Dakota	Grant	Corn, Grain, Irrigated - Operations With Area Harvested	7
North Dakota	Morton	Corn, Grain, Irrigated - Acres Harvested	5,141
North Dakota	Morton	Corn, Grain, Irrigated - Operations With Area Harvested	17
North Dakota	Sioux	Corn, Grain, Irrigated - Acres Harvested	(D)
North Dakota	Sioux	Corn, Grain, Irrigated - Operations With Area Harvested	1
North Dakota	Dickey	Corn, Grain, Irrigated - Acres Harvested	7,338
North Dakota	Dickey	Corn, Grain, Irrigated - Operations With Area Harvested	26
North Dakota	La Moure	Corn, Grain, Irrigated - Acres Harvested	3,821
North Dakota	La Moure	Corn, Grain, Irrigated - Operations With Area Harvested	17
North Dakota	Logan	Corn, Grain, Irrigated - Acres Harvested	(D)
North Dakota	Logan	Corn, Grain, Irrigated - Operations With Area Harvested	1
North Dakota	Ransom	Corn, Grain, Irrigated - Acres Harvested	9,272
North Dakota	Ransom	Corn, Grain, Irrigated - Operations With Area Harvested	39
North Dakota	Richland	Corn, Grain, Irrigated - Acres Harvested	2,647
North Dakota	Richland	Corn, Grain, Irrigated - Operations With Area Harvested	12
North Dakota	Sargent	Corn, Grain, Irrigated - Acres Harvested	8,710
North Dakota	Sargent	Corn, Grain, Irrigated - Operations With Area Harvested	23
North Dakota	Bowman	Corn, Grain, Irrigated - Acres Harvested	(D)
North Dakota	Bowman	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Dakota	Stark	Corn, Grain, Irrigated - Acres Harvested	(D)
North Dakota	Stark	Corn, Grain, Irrigated - Operations With Area Harvested	2
North Dakota	Dunn	Corn, Grain, Irrigated - Acres Harvested	(D)
North Dakota	Dunn	Corn, Grain, Irrigated - Operations With Area Harvested	1
North Dakota	McLean	Corn, Grain, Irrigated - Acres Harvested	4,041
North Dakota	McLean	Corn, Grain, Irrigated - Operations With Area Harvested	19
North Dakota	Mercer	Corn, Grain, Irrigated - Acres Harvested	866
North Dakota	Mercer	Corn, Grain, Irrigated - Operations With Area Harvested	10
North Dakota	Oliver	Corn, Grain, Irrigated - Acres Harvested	2,273



State	County	Data Item	Value
North Dakota	Oliver	Corn, Grain, Irrigated - Operations With Area Harvested	10
Ohio	Fairfield	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Fairfield	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Franklin	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Knox	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Knox	Corn, Grain, Irrigated - Operations With Area Harvested	2
Ohio	Licking	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Licking	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Madison	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Madison	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Morrow	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Morrow	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Pickaway	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Pickaway	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Ross	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Ross	Corn, Grain, Irrigated - Operations With Area Harvested	4
Ohio	Union	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Union	Corn, Grain, Irrigated - Operations With Area Harvested	2
Ohio	Belmont	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Belmont	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Coshocton	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Coshocton	Corn, Grain, Irrigated - Operations With Area Harvested	4
Ohio	Ashland	Corn, Grain, Irrigated - Acres Harvested	6
Ohio	Ashland	Corn, Grain, Irrigated - Operations With Area Harvested	6
Ohio	Crawford	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Crawford	Corn, Grain, Irrigated - Operations With Area Harvested	2
Ohio	Lorain	Corn, Grain, Irrigated - Acres Harvested	32
Ohio	Lorain	Corn, Grain, Irrigated - Operations With Area Harvested	3
Ohio	Ottawa	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Ottawa	Corn, Grain, Irrigated - Operations With Area Harvested	2
Ohio	Richland	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Richland	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Ashtabula	Corn, Grain, Irrigated - Acres Harvested	11
Ohio	Ashtabula	Corn, Grain, Irrigated - Operations With Area Harvested	5
Ohio	Geauga	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Geauga	Corn, Grain, Irrigated - Operations With Area Harvested	2
Ohio	Mahoning	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Mahoning	Corn, Grain, Irrigated - Operations With Area Harvested	2
Ohio	Medina	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Medina	Corn, Grain, Irrigated - Operations With Area Harvested	2
Ohio	Fulton	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Fulton	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Lucas	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Lucas	Corn, Grain, Irrigated - Operations With Area Harvested	4
Ohio	Van Wert	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Van Wert	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Williams	Corn, Grain, Irrigated - Acres Harvested	677
Ohio	Williams	Corn, Grain, Irrigated - Operations With Area Harvested	6

State	County	Data Item	Value
Ohio	Wood	Corn, Grain, Irrigated - Acres Harvested	82
Ohio	Wood	Corn, Grain, Irrigated - Operations With Area Harvested	3
Ohio	Adams	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Adams	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Brown	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Brown	Corn, Grain, Irrigated - Operations With Area Harvested	2
Ohio	Jackson	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Jackson	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Pike	Corn, Grain, Irrigated - Acres Harvested	602
Ohio	Pike	Corn, Grain, Irrigated - Operations With Area Harvested	3
Ohio	Washington	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Butler	Corn, Grain, Irrigated - Acres Harvested	43
Ohio	Butler	Corn, Grain, Irrigated - Operations With Area Harvested	3
Ohio	Preble	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Preble	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Champaign	Corn, Grain, Irrigated - Acres Harvested	1,256
Ohio	Champaign	Corn, Grain, Irrigated - Operations With Area Harvested	11
Ohio	Clark	Corn, Grain, Irrigated - Acres Harvested	122
Ohio	Clark	Corn, Grain, Irrigated - Operations With Area Harvested	5
Ohio	Darke	Corn, Grain, Irrigated - Acres Harvested	705
Ohio	Darke	Corn, Grain, Irrigated - Operations With Area Harvested	8
Ohio	Hardin	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Hardin	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Logan	Corn, Grain, Irrigated - Acres Harvested	42
Ohio	Logan	Corn, Grain, Irrigated - Operations With Area Harvested	3
Ohio	Mercer	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Mercer	Corn, Grain, Irrigated - Operations With Area Harvested	1
Ohio	Miami	Corn, Grain, Irrigated - Acres Harvested	748
Ohio	Miami	Corn, Grain, Irrigated - Operations With Area Harvested	5
Ohio	Shelby	Corn, Grain, Irrigated - Acres Harvested	(D)
Ohio	Shelby	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oklahoma	Canadian	Corn, Grain, Irrigated - Acres Harvested	508
Oklahoma	Canadian	Corn, Grain, Irrigated - Operations With Area Harvested	8
Oklahoma	Grady	Corn, Grain, Irrigated - Acres Harvested	428
Oklahoma	Grady	Corn, Grain, Irrigated - Operations With Area Harvested	4
Oklahoma	Kingfisher	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Kingfisher	Corn, Grain, Irrigated - Operations With Area Harvested	6
Oklahoma	Logan	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Logan	Corn, Grain, Irrigated - Operations With Area Harvested	2
Oklahoma	Mcintosh	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Mcintosh	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oklahoma	Muskogee	Corn, Grain, Irrigated - Acres Harvested	3,141
Oklahoma	Muskogee	Corn, Grain, Irrigated - Operations With Area Harvested	12
Oklahoma	Okmulgee	Corn, Grain, Irrigated - Acres Harvested	360
Oklahoma	Okmulgee	Corn, Grain, Irrigated - Operations With Area Harvested	3
Oklahoma	Pittsburg	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Pittsburg	Corn, Grain, Irrigated - Operations With Area Harvested	6
Oklahoma	Sequoyah	Corn, Grain, Irrigated - Acres Harvested	1,875

State	County	Data Item	Value
Oklahoma	Sequoyah	Corn, Grain, Irrigated - Operations With Area Harvested	4
Oklahoma	Garfield	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Garfield	Corn, Grain, Irrigated - Operations With Area Harvested	2
Oklahoma	Grant	Corn, Grain, Irrigated - Acres Harvested	760
Oklahoma	Grant	Corn, Grain, Irrigated - Operations With Area Harvested	3
Oklahoma	Kay	Corn, Grain, Irrigated - Acres Harvested	610
Oklahoma	Kay	Corn, Grain, Irrigated - Operations With Area Harvested	3
Oklahoma	Major	Corn, Grain, Irrigated - Acres Harvested	2,934
Oklahoma	Major	Corn, Grain, Irrigated - Operations With Area Harvested	14
Oklahoma	Noble	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Noble	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oklahoma	Woodward	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Woodward	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oklahoma	Delaware	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Delaware	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oklahoma	Osage	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Osage	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oklahoma	Rogers	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Rogers	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oklahoma	Tulsa	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Tulsa	Corn, Grain, Irrigated - Operations With Area Harvested	2
Oklahoma	Wagoner	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Wagoner	Corn, Grain, Irrigated - Operations With Area Harvested	2
Oklahoma	Beaver	Corn, Grain, Irrigated - Acres Harvested	4,971
Oklahoma	Beaver	Corn, Grain, Irrigated - Operations With Area Harvested	14
Oklahoma	Cimarron	Corn, Grain, Irrigated - Acres Harvested	20,534
Oklahoma	Cimarron	Corn, Grain, Irrigated - Operations With Area Harvested	47
Oklahoma	Ellis	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Ellis	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oklahoma	Harper	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Harper	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oklahoma	Texas	Corn, Grain, Irrigated - Acres Harvested	80,731
Oklahoma	Texas	Corn, Grain, Irrigated - Operations With Area Harvested	105
Oklahoma	Bryan	Corn, Grain, Irrigated - Acres Harvested	811
Oklahoma	Bryan	Corn, Grain, Irrigated - Operations With Area Harvested	5
Oklahoma	Love	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Love	Corn, Grain, Irrigated - Operations With Area Harvested	7
Oklahoma	Choctaw	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Choctaw	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oklahoma	Leflore	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Leflore	Corn, Grain, Irrigated - Operations With Area Harvested	3
Oklahoma	Mccurtain	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Mccurtain	Corn, Grain, Irrigated - Operations With Area Harvested	2
Oklahoma	Caddo	Corn, Grain, Irrigated - Acres Harvested	1,407
Oklahoma	Caddo	Corn, Grain, Irrigated - Operations With Area Harvested	11
Oklahoma	Tillman	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Tillman	Corn, Grain, Irrigated - Operations With Area Harvested	2
Oklahoma	Beckham	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Beckham	Corn, Grain, Irrigated - Operations With Area Harvested	1

State	County	Data Item	Value
Oklahoma	Blaine	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Blaine	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oklahoma	Custer	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Custer	Corn, Grain, Irrigated - Operations With Area Harvested	2
Oklahoma	Dewey	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Dewey	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oklahoma	Roger Mills	Corn, Grain, Irrigated - Acres Harvested	(D)
Oklahoma	Roger Mills	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oklahoma	Washita	Corn, Grain, Irrigated - Acres Harvested	360
Oklahoma	Washita	Corn, Grain, Irrigated - Operations With Area Harvested	5
Oregon	Gilliam	Corn, Grain, Irrigated - Acres Harvested	(D)
Oregon	Gilliam	Corn, Grain, Irrigated - Operations With Area Harvested	2
Oregon	Morrow	Corn, Grain, Irrigated - Acres Harvested	6,071
Oregon	Morrow	Corn, Grain, Irrigated - Operations With Area Harvested	14
Oregon	Baker	Corn, Grain, Irrigated - Acres Harvested	(D)
Oregon	Baker	Corn, Grain, Irrigated - Operations With Area Harvested	4
Oregon	Umatilla	Corn, Grain, Irrigated - Acres Harvested	15,902
Oregon	Umatilla	Corn, Grain, Irrigated - Operations With Area Harvested	118
Oregon	Union	Corn, Grain, Irrigated - Acres Harvested	378
Oregon	Union	Corn, Grain, Irrigated - Operations With Area Harvested	4
Oregon	Wallowa	Corn, Grain, Irrigated - Acres Harvested	(D)
Oregon	Wallowa	Corn, Grain, Irrigated - Operations With Area Harvested	2
Oregon	Clackamas	Corn, Grain, Irrigated - Acres Harvested	3
Oregon	Clackamas	Corn, Grain, Irrigated - Operations With Area Harvested	3
Oregon	Lane	Corn, Grain, Irrigated - Acres Harvested	24
Oregon	Lane	Corn, Grain, Irrigated - Operations With Area Harvested	8
Oregon	Linn	Corn, Grain, Irrigated - Acres Harvested	(D)
Oregon	Linn	Corn, Grain, Irrigated - Operations With Area Harvested	2
Oregon	Marion	Corn, Grain, Irrigated - Acres Harvested	(D)
Oregon	Marion	Corn, Grain, Irrigated - Operations With Area Harvested	6
Oregon	Multnomah	Corn, Grain, Irrigated - Acres Harvested	(D)
Oregon	Multnomah	Corn, Grain, Irrigated - Operations With Area Harvested	2
Oregon	Polk	Corn, Grain, Irrigated - Acres Harvested	(D)
Oregon	Polk	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oregon	Washington	Corn, Grain, Irrigated - Acres Harvested	(D)
Oregon	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	3
Oregon	Yamhill	Corn, Grain, Irrigated - Acres Harvested	116
Oregon	Yamhill	Corn, Grain, Irrigated - Operations With Area Harvested	3
Oregon	Deschutes	Corn, Grain, Irrigated - Acres Harvested	(D)
Oregon	Deschutes	Corn, Grain, Irrigated - Operations With Area Harvested	1
Oregon	Grant	Corn, Grain, Irrigated - Acres Harvested	(D)
Oregon	Grant	Corn, Grain, Irrigated - Operations With Area Harvested	2
Oregon	Malheur	Corn, Grain, Irrigated - Acres Harvested	25,277
Oregon	Malheur	Corn, Grain, Irrigated - Operations With Area Harvested	234
Oregon	Jackson	Corn, Grain, Irrigated - Acres Harvested	7
Oregon	Jackson	Corn, Grain, Irrigated - Operations With Area Harvested	6
Oregon	Josephine	Corn, Grain, Irrigated - Acres Harvested	74
Oregon	Josephine	Corn, Grain, Irrigated - Operations With Area Harvested	4
Pennsylvania	Blair	Corn, Grain, Irrigated - Acres Harvested	60

State	County	Data Item	Value
Pennsylvania	Blair	Corn, Grain, Irrigated - Operations With Area Harvested	4
Pennsylvania	Cambria	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Cambria	Corn, Grain, Irrigated - Operations With Area Harvested	1
Pennsylvania	Centre	Corn, Grain, Irrigated - Acres Harvested	250
Pennsylvania	Centre	Corn, Grain, Irrigated - Operations With Area Harvested	11
Pennsylvania	Columbia	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Columbia	Corn, Grain, Irrigated - Operations With Area Harvested	5
Pennsylvania	Dauphin	Corn, Grain, Irrigated - Acres Harvested	97
Pennsylvania	Dauphin	Corn, Grain, Irrigated - Operations With Area Harvested	11
Pennsylvania	Juniata	Corn, Grain, Irrigated - Acres Harvested	6
Pennsylvania	Juniata	Corn, Grain, Irrigated - Operations With Area Harvested	6
Pennsylvania	Mifflin	Corn, Grain, Irrigated - Acres Harvested	21
Pennsylvania	Mifflin	Corn, Grain, Irrigated - Operations With Area Harvested	10
Pennsylvania	Montour	Corn, Grain, Irrigated - Acres Harvested	9
Pennsylvania	Montour	Corn, Grain, Irrigated - Operations With Area Harvested	9
Pennsylvania	Northumberland	Corn, Grain, Irrigated - Acres Harvested	117
Pennsylvania	Northumberland	Corn, Grain, Irrigated - Operations With Area Harvested	9
Pennsylvania	Perry	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Perry	Corn, Grain, Irrigated - Operations With Area Harvested	3
Pennsylvania	Snyder	Corn, Grain, Irrigated - Acres Harvested	96
Pennsylvania	Snyder	Corn, Grain, Irrigated - Operations With Area Harvested	12
Pennsylvania	Union	Corn, Grain, Irrigated - Acres Harvested	6
Pennsylvania	Union	Corn, Grain, Irrigated - Operations With Area Harvested	6
Pennsylvania	Lehigh	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Lehigh	Corn, Grain, Irrigated - Operations With Area Harvested	1
Pennsylvania	Luzerne	Corn, Grain, Irrigated - Acres Harvested	15
Pennsylvania	Luzerne	Corn, Grain, Irrigated - Operations With Area Harvested	4
Pennsylvania	Monroe	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Monroe	Corn, Grain, Irrigated - Operations With Area Harvested	1
Pennsylvania	Schuylkill	Corn, Grain, Irrigated - Acres Harvested	267
Pennsylvania	Schuylkill	Corn, Grain, Irrigated - Operations With Area Harvested	4
Pennsylvania	Bradford	Corn, Grain, Irrigated - Acres Harvested	70
Pennsylvania	Bradford	Corn, Grain, Irrigated - Operations With Area Harvested	4
Pennsylvania	Clinton	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Clinton	Corn, Grain, Irrigated - Operations With Area Harvested	2
Pennsylvania	Lycoming	Corn, Grain, Irrigated - Acres Harvested	302
Pennsylvania	Lycoming	Corn, Grain, Irrigated - Operations With Area Harvested	5
Pennsylvania	Tioga	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Tioga	Corn, Grain, Irrigated - Operations With Area Harvested	1
Pennsylvania	Lackawanna	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Lackawanna	Corn, Grain, Irrigated - Operations With Area Harvested	1
Pennsylvania	Erie	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Erie	Corn, Grain, Irrigated - Operations With Area Harvested	5
Pennsylvania	Mercer	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Mercer	Corn, Grain, Irrigated - Operations With Area Harvested	2
Pennsylvania	Warren	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Warren	Corn, Grain, Irrigated - Operations With Area Harvested	2
Pennsylvania	Adams	Corn, Grain, Irrigated - Acres Harvested	116
Pennsylvania	Adams	Corn, Grain, Irrigated - Operations With Area Harvested	5

State	County	Data Item	Value
Pennsylvania	Bedford	Corn, Grain, Irrigated - Acres Harvested	3
Pennsylvania	Bedford	Corn, Grain, Irrigated - Operations With Area Harvested	3
Pennsylvania	Cumberland	Corn, Grain, Irrigated - Acres Harvested	269
Pennsylvania	Cumberland	Corn, Grain, Irrigated - Operations With Area Harvested	18
Pennsylvania	Franklin	Corn, Grain, Irrigated - Acres Harvested	676
Pennsylvania	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	28
Pennsylvania	York	Corn, Grain, Irrigated - Acres Harvested	36
Pennsylvania	York	Corn, Grain, Irrigated - Operations With Area Harvested	5
Pennsylvania	Berks	Corn, Grain, Irrigated - Acres Harvested	149
Pennsylvania	Berks	Corn, Grain, Irrigated - Operations With Area Harvested	17
Pennsylvania	Bucks	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Bucks	Corn, Grain, Irrigated - Operations With Area Harvested	1
Pennsylvania	Chester	Corn, Grain, Irrigated - Acres Harvested	9
Pennsylvania	Chester	Corn, Grain, Irrigated - Operations With Area Harvested	8
Pennsylvania	Lancaster	Corn, Grain, Irrigated - Acres Harvested	1,094
Pennsylvania	Lancaster	Corn, Grain, Irrigated - Operations With Area Harvested	106
Pennsylvania	Lebanon	Corn, Grain, Irrigated - Acres Harvested	242
Pennsylvania	Lebanon	Corn, Grain, Irrigated - Operations With Area Harvested	13
Pennsylvania	Allegheny	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Allegheny	Corn, Grain, Irrigated - Operations With Area Harvested	1
Pennsylvania	Armstrong	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Armstrong	Corn, Grain, Irrigated - Operations With Area Harvested	2
Pennsylvania	Butler	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Butler	Corn, Grain, Irrigated - Operations With Area Harvested	2
Pennsylvania	Indiana	Corn, Grain, Irrigated - Acres Harvested	10
Pennsylvania	Indiana	Corn, Grain, Irrigated - Operations With Area Harvested	6
Pennsylvania	Lawrence	Corn, Grain, Irrigated - Acres Harvested	(D)
Pennsylvania	Lawrence	Corn, Grain, Irrigated - Operations With Area Harvested	1
South Carolina	Calhoun	Corn, Grain, Irrigated - Acres Harvested	1,882
South Carolina	Calhoun	Corn, Grain, Irrigated - Operations With Area Harvested	8
South Carolina	Clarendon	Corn, Grain, Irrigated - Acres Harvested	4,554
South Carolina	Clarendon	Corn, Grain, Irrigated - Operations With Area Harvested	21
South Carolina	Lee	Corn, Grain, Irrigated - Acres Harvested	4,341
South Carolina	Lee	Corn, Grain, Irrigated - Operations With Area Harvested	19
South Carolina	Lexington	Corn, Grain, Irrigated - Acres Harvested	3,115
South Carolina	Lexington	Corn, Grain, Irrigated - Operations With Area Harvested	18
South Carolina	Orangeburg	Corn, Grain, Irrigated - Acres Harvested	9,388
South Carolina	Orangeburg	Corn, Grain, Irrigated - Operations With Area Harvested	49
South Carolina	Richland	Corn, Grain, Irrigated - Acres Harvested	734
South Carolina	Richland	Corn, Grain, Irrigated - Operations With Area Harvested	8
South Carolina	Sumter	Corn, Grain, Irrigated - Acres Harvested	4,430
South Carolina	Sumter	Corn, Grain, Irrigated - Operations With Area Harvested	14
South Carolina	Chesterfield	Corn, Grain, Irrigated - Acres Harvested	(D)
South Carolina	Chesterfield	Corn, Grain, Irrigated - Operations With Area Harvested	1
South Carolina	Darlington	Corn, Grain, Irrigated - Acres Harvested	4,931
South Carolina	Darlington	Corn, Grain, Irrigated - Operations With Area Harvested	16
South Carolina	Dillon	Corn, Grain, Irrigated - Acres Harvested	1,015
South Carolina	Dillon	Corn, Grain, Irrigated - Operations With Area Harvested	6
South Carolina	Florence	Corn, Grain, Irrigated - Acres Harvested	1,028

State	County	Data Item	Value
South Carolina	Florence	Corn, Grain, Irrigated - Operations With Area Harvested	8
South Carolina	Georgetown	Corn, Grain, Irrigated - Acres Harvested	140
South Carolina	Georgetown	Corn, Grain, Irrigated - Operations With Area Harvested	4
South Carolina	Horry	Corn, Grain, Irrigated - Acres Harvested	2,538
South Carolina	Horry	Corn, Grain, Irrigated - Operations With Area Harvested	5
South Carolina	Marion	Corn, Grain, Irrigated - Acres Harvested	404
South Carolina	Marion	Corn, Grain, Irrigated - Operations With Area Harvested	4
South Carolina	Marlboro	Corn, Grain, Irrigated - Acres Harvested	1,941
South Carolina	Marlboro	Corn, Grain, Irrigated - Operations With Area Harvested	7
South Carolina	Williamsburg	Corn, Grain, Irrigated - Acres Harvested	394
South Carolina	Williamsburg	Corn, Grain, Irrigated - Operations With Area Harvested	9
South Carolina	Chester	Corn, Grain, Irrigated - Acres Harvested	(D)
South Carolina	Chester	Corn, Grain, Irrigated - Operations With Area Harvested	2
South Carolina	Kershaw	Corn, Grain, Irrigated - Acres Harvested	(D)
South Carolina	Kershaw	Corn, Grain, Irrigated - Operations With Area Harvested	4
South Carolina	York	Corn, Grain, Irrigated - Acres Harvested	(D)
South Carolina	York	Corn, Grain, Irrigated - Operations With Area Harvested	2
South Carolina	Anderson	Corn, Grain, Irrigated - Acres Harvested	(D)
South Carolina	Anderson	Corn, Grain, Irrigated - Operations With Area Harvested	1
South Carolina	Greenville	Corn, Grain, Irrigated - Acres Harvested	(D)
South Carolina	Greenville	Corn, Grain, Irrigated - Operations With Area Harvested	2
South Carolina	Oconee	Corn, Grain, Irrigated - Acres Harvested	(D)
South Carolina	Oconee	Corn, Grain, Irrigated - Operations With Area Harvested	2
South Carolina	Pickens	Corn, Grain, Irrigated - Acres Harvested	(D)
South Carolina	Pickens	Corn, Grain, Irrigated - Operations With Area Harvested	1
South Carolina	Spartanburg	Corn, Grain, Irrigated - Acres Harvested	(D)
South Carolina	Spartanburg	Corn, Grain, Irrigated - Operations With Area Harvested	1
South Carolina	Allendale	Corn, Grain, Irrigated - Acres Harvested	1,778
South Carolina	Allendale	Corn, Grain, Irrigated - Operations With Area Harvested	4
South Carolina	Bamberg	Corn, Grain, Irrigated - Acres Harvested	1,854
South Carolina	Bamberg	Corn, Grain, Irrigated - Operations With Area Harvested	21
South Carolina	Barnwell	Corn, Grain, Irrigated - Acres Harvested	545
South Carolina	Barnwell	Corn, Grain, Irrigated - Operations With Area Harvested	12
South Carolina	Beaufort	Corn, Grain, Irrigated - Acres Harvested	(D)
South Carolina	Beaufort	Corn, Grain, Irrigated - Operations With Area Harvested	3
South Carolina	Berkeley	Corn, Grain, Irrigated - Acres Harvested	285
South Carolina	Berkeley	Corn, Grain, Irrigated - Operations With Area Harvested	8
South Carolina	Charleston	Corn, Grain, Irrigated - Acres Harvested	30
South Carolina	Charleston	Corn, Grain, Irrigated - Operations With Area Harvested	3
South Carolina	Colleton	Corn, Grain, Irrigated - Acres Harvested	545
South Carolina	Colleton	Corn, Grain, Irrigated - Operations With Area Harvested	15
South Carolina	Dorchester	Corn, Grain, Irrigated - Acres Harvested	843
South Carolina	Dorchester	Corn, Grain, Irrigated - Operations With Area Harvested	6
South Carolina	Hampton	Corn, Grain, Irrigated - Acres Harvested	2,198
South Carolina	Hampton	Corn, Grain, Irrigated - Operations With Area Harvested	21
South Carolina	Aiken	Corn, Grain, Irrigated - Acres Harvested	37
South Carolina	Aiken	Corn, Grain, Irrigated - Operations With Area Harvested	5
South Carolina	Edgefield	Corn, Grain, Irrigated - Acres Harvested	(D)
South Carolina	Edgefield	Corn, Grain, Irrigated - Operations With Area Harvested	1

State	County	Data Item	Value
South Carolina	Newberry	Corn, Grain, Irrigated - Acres Harvested	(D)
South Carolina	Newberry	Corn, Grain, Irrigated - Operations With Area Harvested	2
South Carolina	Saluda	Corn, Grain, Irrigated - Acres Harvested	(D)
South Carolina	Saluda	Corn, Grain, Irrigated - Operations With Area Harvested	2
South Dakota	Aurora	Corn, Grain, Irrigated - Acres Harvested	(D)
South Dakota	Aurora	Corn, Grain, Irrigated - Operations With Area Harvested	1
South Dakota	Beadle	Corn, Grain, Irrigated - Acres Harvested	5,959
South Dakota	Beadle	Corn, Grain, Irrigated - Operations With Area Harvested	29
South Dakota	Brule	Corn, Grain, Irrigated - Acres Harvested	2,311
South Dakota	Brule	Corn, Grain, Irrigated - Operations With Area Harvested	10
South Dakota	Buffalo	Corn, Grain, Irrigated - Acres Harvested	3,240
South Dakota	Buffalo	Corn, Grain, Irrigated - Operations With Area Harvested	4
South Dakota	Hand	Corn, Grain, Irrigated - Acres Harvested	2,972
South Dakota	Hand	Corn, Grain, Irrigated - Operations With Area Harvested	14
South Dakota	Hughes	Corn, Grain, Irrigated - Acres Harvested	4,015
South Dakota	Hughes	Corn, Grain, Irrigated - Operations With Area Harvested	15
South Dakota	Hyde	Corn, Grain, Irrigated - Acres Harvested	280
South Dakota	Hyde	Corn, Grain, Irrigated - Operations With Area Harvested	4
South Dakota	Jerauld	Corn, Grain, Irrigated - Acres Harvested	920
South Dakota	Jerauld	Corn, Grain, Irrigated - Operations With Area Harvested	3
South Dakota	Sully	Corn, Grain, Irrigated - Acres Harvested	13,341
South Dakota	Sully	Corn, Grain, Irrigated - Operations With Area Harvested	12
South Dakota	Brookings	Corn, Grain, Irrigated - Acres Harvested	9,588
South Dakota	Brookings	Corn, Grain, Irrigated - Operations With Area Harvested	50
South Dakota	Davison	Corn, Grain, Irrigated - Acres Harvested	809
South Dakota	Davison	Corn, Grain, Irrigated - Operations With Area Harvested	6
South Dakota	Hanson	Corn, Grain, Irrigated - Acres Harvested	(D)
South Dakota	Hanson	Corn, Grain, Irrigated - Operations With Area Harvested	1
South Dakota	Kingsbury	Corn, Grain, Irrigated - Acres Harvested	1,126
South Dakota	Kingsbury	Corn, Grain, Irrigated - Operations With Area Harvested	7
South Dakota	Lake	Corn, Grain, Irrigated - Acres Harvested	1,331
South Dakota	Lake	Corn, Grain, Irrigated - Operations With Area Harvested	10
South Dakota	Mccook	Corn, Grain, Irrigated - Acres Harvested	(D)
South Dakota	Mccook	Corn, Grain, Irrigated - Operations With Area Harvested	3
South Dakota	Miner	Corn, Grain, Irrigated - Acres Harvested	(D)
South Dakota	Miner	Corn, Grain, Irrigated - Operations With Area Harvested	1
South Dakota	Minnehaha	Corn, Grain, Irrigated - Acres Harvested	1,292
South Dakota	Minnehaha	Corn, Grain, Irrigated - Operations With Area Harvested	14
South Dakota	Moody	Corn, Grain, Irrigated - Acres Harvested	2,449
South Dakota	Moody	Corn, Grain, Irrigated - Operations With Area Harvested	14
South Dakota	Brown	Corn, Grain, Irrigated - Acres Harvested	4,027
South Dakota	Brown	Corn, Grain, Irrigated - Operations With Area Harvested	14
South Dakota	Campbell	Corn, Grain, Irrigated - Acres Harvested	1,422
South Dakota	Campbell	Corn, Grain, Irrigated - Operations With Area Harvested	6
South Dakota	Edmunds	Corn, Grain, Irrigated - Acres Harvested	(D)
South Dakota	Edmunds	Corn, Grain, Irrigated - Operations With Area Harvested	2
South Dakota	Faulk	Corn, Grain, Irrigated - Acres Harvested	305
South Dakota	Faulk	Corn, Grain, Irrigated - Operations With Area Harvested	4
South Dakota	Mcpherson	Corn, Grain, Irrigated - Acres Harvested	1,004



State	County	Data Item	Value
South Dakota	Mcpherson	Corn, Grain, Irrigated - Operations With Area Harvested	7
South Dakota	Potter	Corn, Grain, Irrigated - Acres Harvested	(D)
South Dakota	Potter	Corn, Grain, Irrigated - Operations With Area Harvested	2
South Dakota	Spink	Corn, Grain, Irrigated - Acres Harvested	11,052
South Dakota	Spink	Corn, Grain, Irrigated - Operations With Area Harvested	37
South Dakota	Walworth	Corn, Grain, Irrigated - Acres Harvested	1,556
South Dakota	Walworth	Corn, Grain, Irrigated - Operations With Area Harvested	8
South Dakota	Clark	Corn, Grain, Irrigated - Acres Harvested	2,457
South Dakota	Clark	Corn, Grain, Irrigated - Operations With Area Harvested	16
South Dakota	Codington	Corn, Grain, Irrigated - Acres Harvested	2,257
South Dakota	Codington	Corn, Grain, Irrigated - Operations With Area Harvested	8
South Dakota	Day	Corn, Grain, Irrigated - Acres Harvested	171
South Dakota	Day	Corn, Grain, Irrigated - Operations With Area Harvested	4
South Dakota	Deuel	Corn, Grain, Irrigated - Acres Harvested	361
South Dakota	Deuel	Corn, Grain, Irrigated - Operations With Area Harvested	5
South Dakota	Grant	Corn, Grain, Irrigated - Acres Harvested	2,472
South Dakota	Grant	Corn, Grain, Irrigated - Operations With Area Harvested	7
South Dakota	Hamlin	Corn, Grain, Irrigated - Acres Harvested	5,335
South Dakota	Hamlin	Corn, Grain, Irrigated - Operations With Area Harvested	16
South Dakota	Marshall	Corn, Grain, Irrigated - Acres Harvested	(D)
South Dakota	Marshall	Corn, Grain, Irrigated - Operations With Area Harvested	2
South Dakota	Roberts	Corn, Grain, Irrigated - Acres Harvested	1,521
South Dakota	Roberts	Corn, Grain, Irrigated - Operations With Area Harvested	11
South Dakota	Butte	Corn, Grain, Irrigated - Acres Harvested	(D)
South Dakota	Butte	Corn, Grain, Irrigated - Operations With Area Harvested	70
South Dakota	Corson	Corn, Grain, Irrigated - Acres Harvested	(D)
South Dakota	Corson	Corn, Grain, Irrigated - Operations With Area Harvested	1
South Dakota	Gregory	Corn, Grain, Irrigated - Acres Harvested	(D)
South Dakota	Gregory	Corn, Grain, Irrigated - Operations With Area Harvested	2
South Dakota	Jones	Corn, Grain, Irrigated - Acres Harvested	(D)
South Dakota	Jones	Corn, Grain, Irrigated - Operations With Area Harvested	2
South Dakota	Lyman	Corn, Grain, Irrigated - Acres Harvested	3,201
South Dakota	Lyman	Corn, Grain, Irrigated - Operations With Area Harvested	9
South Dakota	Todd	Corn, Grain, Irrigated - Acres Harvested	3,372
South Dakota	Todd	Corn, Grain, Irrigated - Operations With Area Harvested	16
South Dakota	Tripp	Corn, Grain, Irrigated - Acres Harvested	1,796
South Dakota	Tripp	Corn, Grain, Irrigated - Operations With Area Harvested	16
South Dakota	Bon Homme	Corn, Grain, Irrigated - Acres Harvested	3,426
South Dakota	Bon Homme	Corn, Grain, Irrigated - Operations With Area Harvested	22
South Dakota	Charles Mix	Corn, Grain, Irrigated - Acres Harvested	8,559
South Dakota	Charles Mix	Corn, Grain, Irrigated - Operations With Area Harvested	27
South Dakota	Clay	Corn, Grain, Irrigated - Acres Harvested	13,323
South Dakota	Clay	Corn, Grain, Irrigated - Operations With Area Harvested	48
South Dakota	Douglas	Corn, Grain, Irrigated - Acres Harvested	1,217
South Dakota	Douglas	Corn, Grain, Irrigated - Operations With Area Harvested	10
South Dakota	Hutchinson	Corn, Grain, Irrigated - Acres Harvested	2,524
South Dakota	Hutchinson	Corn, Grain, Irrigated - Operations With Area Harvested	18
South Dakota	Lincoln	Corn, Grain, Irrigated - Acres Harvested	2,276
South Dakota	Lincoln	Corn, Grain, Irrigated - Operations With Area Harvested	18

State	County	Data Item	Value
South Dakota	Turner	Corn, Grain, Irrigated - Acres Harvested	14,325
South Dakota	Turner	Corn, Grain, Irrigated - Operations With Area Harvested	45
South Dakota	Union	Corn, Grain, Irrigated - Acres Harvested	20,574
South Dakota	Union	Corn, Grain, Irrigated - Operations With Area Harvested	93
South Dakota	Yankton	Corn, Grain, Irrigated - Acres Harvested	9,652
South Dakota	Yankton	Corn, Grain, Irrigated - Operations With Area Harvested	35
South Dakota	Bennett	Corn, Grain, Irrigated - Acres Harvested	3,846
South Dakota	Bennett	Corn, Grain, Irrigated - Operations With Area Harvested	18
South Dakota	Custer	Corn, Grain, Irrigated - Acres Harvested	(D)
South Dakota	Custer	Corn, Grain, Irrigated - Operations With Area Harvested	1
South Dakota	Fall River	Corn, Grain, Irrigated - Acres Harvested	1,928
South Dakota	Fall River	Corn, Grain, Irrigated - Operations With Area Harvested	16
South Dakota	Shannon	Corn, Grain, Irrigated - Acres Harvested	(D)
South Dakota	Shannon	Corn, Grain, Irrigated - Operations With Area Harvested	1
South Dakota	Lawrence	Corn, Grain, Irrigated - Acres Harvested	588
South Dakota	Lawrence	Corn, Grain, Irrigated - Operations With Area Harvested	4
South Dakota	Meade	Corn, Grain, Irrigated - Acres Harvested	232
South Dakota	Meade	Corn, Grain, Irrigated - Operations With Area Harvested	4
South Dakota	Pennington	Corn, Grain, Irrigated - Acres Harvested	(D)
South Dakota	Pennington	Corn, Grain, Irrigated - Operations With Area Harvested	2
Tennessee	Bedford	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Bedford	Corn, Grain, Irrigated - Operations With Area Harvested	2
Tennessee	Giles	Corn, Grain, Irrigated - Acres Harvested	1,503
Tennessee	Giles	Corn, Grain, Irrigated - Operations With Area Harvested	6
Tennessee	Lincoln	Corn, Grain, Irrigated - Acres Harvested	1,458
Tennessee	Lincoln	Corn, Grain, Irrigated - Operations With Area Harvested	8
Tennessee	Maury	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Maury	Corn, Grain, Irrigated - Operations With Area Harvested	2
Tennessee	Rutherford	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Rutherford	Corn, Grain, Irrigated - Operations With Area Harvested	2
Tennessee	Bledsoe	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Bledsoe	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Coffee	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Coffee	Corn, Grain, Irrigated - Operations With Area Harvested	2
Tennessee	Fentress	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Fentress	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Franklin	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Sequatchie	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Sequatchie	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Warren	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Warren	Corn, Grain, Irrigated - Operations With Area Harvested	2
Tennessee	White	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	White	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Dyer	Corn, Grain, Irrigated - Acres Harvested	5,956
Tennessee	Dyer	Corn, Grain, Irrigated - Operations With Area Harvested	27
Tennessee	Lake	Corn, Grain, Irrigated - Acres Harvested	6,241
Tennessee	Lake	Corn, Grain, Irrigated - Operations With Area Harvested	17
Tennessee	Lauderdale	Corn, Grain, Irrigated - Acres Harvested	4,610

State	County	Data Item	Value
Tennessee	Lauderdale	Corn, Grain, Irrigated - Operations With Area Harvested	12
Tennessee	Obion	Corn, Grain, Irrigated - Acres Harvested	4,834
Tennessee	Obion	Corn, Grain, Irrigated - Operations With Area Harvested	23
Tennessee	Shelby	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Shelby	Corn, Grain, Irrigated - Operations With Area Harvested	2
Tennessee	Tipton	Corn, Grain, Irrigated - Acres Harvested	2,526
Tennessee	Tipton	Corn, Grain, Irrigated - Operations With Area Harvested	13
Tennessee	Blount	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Blount	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Carter	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Carter	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Claiborne	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Claiborne	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Cocke	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Cocke	Corn, Grain, Irrigated - Operations With Area Harvested	2
Tennessee	Grainger	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Grainger	Corn, Grain, Irrigated - Operations With Area Harvested	2
Tennessee	Hawkins	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Hawkins	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Jefferson	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Knox	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Knox	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Mcminn	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Mcminn	Corn, Grain, Irrigated - Operations With Area Harvested	2
Tennessee	Polk	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Polk	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Rhea	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Rhea	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Washington	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Carroll	Corn, Grain, Irrigated - Acres Harvested	1,350
Tennessee	Carroll	Corn, Grain, Irrigated - Operations With Area Harvested	3
Tennessee	Chester	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Chester	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Crockett	Corn, Grain, Irrigated - Acres Harvested	2,431
Tennessee	Crockett	Corn, Grain, Irrigated - Operations With Area Harvested	7
Tennessee	Fayette	Corn, Grain, Irrigated - Acres Harvested	2,197
Tennessee	Fayette	Corn, Grain, Irrigated - Operations With Area Harvested	9
Tennessee	Gibson	Corn, Grain, Irrigated - Acres Harvested	2,116
Tennessee	Gibson	Corn, Grain, Irrigated - Operations With Area Harvested	12
Tennessee	Hardeman	Corn, Grain, Irrigated - Acres Harvested	473
Tennessee	Hardeman	Corn, Grain, Irrigated - Operations With Area Harvested	4
Tennessee	Hardin	Corn, Grain, Irrigated - Acres Harvested	958
Tennessee	Hardin	Corn, Grain, Irrigated - Operations With Area Harvested	5
Tennessee	Haywood	Corn, Grain, Irrigated - Acres Harvested	5,328
Tennessee	Haywood	Corn, Grain, Irrigated - Operations With Area Harvested	22
Tennessee	Henry	Corn, Grain, Irrigated - Acres Harvested	2,836
Tennessee	Henry	Corn, Grain, Irrigated - Operations With Area Harvested	7

State	County	Data Item	Value
Tennessee	Madison	Corn, Grain, Irrigated - Acres Harvested	5,432
Tennessee	Madison	Corn, Grain, Irrigated - Operations With Area Harvested	14
Tennessee	Mcnaury	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Mcnaury	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Weakley	Corn, Grain, Irrigated - Acres Harvested	2,248
Tennessee	Weakley	Corn, Grain, Irrigated - Operations With Area Harvested	9
Tennessee	Dickson	Corn, Grain, Irrigated - Acres Harvested	5
Tennessee	Dickson	Corn, Grain, Irrigated - Operations With Area Harvested	4
Tennessee	Hickman	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Hickman	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Humphreys	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Humphreys	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Lawrence	Corn, Grain, Irrigated - Acres Harvested	503
Tennessee	Lawrence	Corn, Grain, Irrigated - Operations With Area Harvested	5
Tennessee	Perry	Corn, Grain, Irrigated - Acres Harvested	(D)
Tennessee	Perry	Corn, Grain, Irrigated - Operations With Area Harvested	1
Tennessee	Robertson	Corn, Grain, Irrigated - Acres Harvested	61
Tennessee	Robertson	Corn, Grain, Irrigated - Operations With Area Harvested	4
Texas	Bell	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Bell	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Collin	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Collin	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Delta	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Delta	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Denton	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Denton	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Falls	Corn, Grain, Irrigated - Acres Harvested	144
Texas	Falls	Corn, Grain, Irrigated - Operations With Area Harvested	3
Texas	Fannin	Corn, Grain, Irrigated - Acres Harvested	510
Texas	Fannin	Corn, Grain, Irrigated - Operations With Area Harvested	6
Texas	Hill	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Hill	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Hunt	Corn, Grain, Irrigated - Acres Harvested	16
Texas	Hunt	Corn, Grain, Irrigated - Operations With Area Harvested	8
Texas	Lamar	Corn, Grain, Irrigated - Acres Harvested	2,772
Texas	Lamar	Corn, Grain, Irrigated - Operations With Area Harvested	8
Texas	Limestone	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Limestone	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Milam	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Milam	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Williamson	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Williamson	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	San Patricio	Corn, Grain, Irrigated - Acres Harvested	1,440
Texas	San Patricio	Corn, Grain, Irrigated - Operations With Area Harvested	9
Texas	Hood	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Hood	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Bowie	Corn, Grain, Irrigated - Acres Harvested	436
Texas	Bowie	Corn, Grain, Irrigated - Operations With Area Harvested	4
Texas	Nacogdoches	Corn, Grain, Irrigated - Acres Harvested	(D)

State	County	Data Item	Value
Texas	Nacogdoches	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Red River	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Red River	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Shelby	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Shelby	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Smith	Corn, Grain, Irrigated - Acres Harvested	5
Texas	Smith	Corn, Grain, Irrigated - Operations With Area Harvested	3
Texas	Upshur	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Upshur	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Brazos	Corn, Grain, Irrigated - Acres Harvested	592
Texas	Brazos	Corn, Grain, Irrigated - Operations With Area Harvested	5
Texas	Grimes	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Grimes	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Jasper	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Jasper	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Montgomery	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Montgomery	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Robertson	Corn, Grain, Irrigated - Acres Harvested	4,545
Texas	Robertson	Corn, Grain, Irrigated - Operations With Area Harvested	11
Texas	Waller	Corn, Grain, Irrigated - Acres Harvested	1,000
Texas	Waller	Corn, Grain, Irrigated - Operations With Area Harvested	3
Texas	Concho	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Concho	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Kinney	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Kinney	Corn, Grain, Irrigated - Operations With Area Harvested	4
Texas	Reagan	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Reagan	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Sutton	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Sutton	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Tom Green	Corn, Grain, Irrigated - Acres Harvested	911
Texas	Tom Green	Corn, Grain, Irrigated - Operations With Area Harvested	6
Texas	Uvalde	Corn, Grain, Irrigated - Acres Harvested	16,062
Texas	Uvalde	Corn, Grain, Irrigated - Operations With Area Harvested	33
Texas	Cameron	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Cameron	Corn, Grain, Irrigated - Operations With Area Harvested	96
Texas	Hidalgo	Corn, Grain, Irrigated - Acres Harvested	24,394
Texas	Hidalgo	Corn, Grain, Irrigated - Operations With Area Harvested	93
Texas	Starr	Corn, Grain, Irrigated - Acres Harvested	1,114
Texas	Starr	Corn, Grain, Irrigated - Operations With Area Harvested	7
Texas	Willacy	Corn, Grain, Irrigated - Acres Harvested	1,566
Texas	Willacy	Corn, Grain, Irrigated - Operations With Area Harvested	9
Texas	Armstrong	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Armstrong	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Carson	Corn, Grain, Irrigated - Acres Harvested	14,363
Texas	Carson	Corn, Grain, Irrigated - Operations With Area Harvested	40
Texas	Castro	Corn, Grain, Irrigated - Acres Harvested	56,964
Texas	Castro	Corn, Grain, Irrigated - Operations With Area Harvested	143
Texas	Dallam	Corn, Grain, Irrigated - Acres Harvested	96,158
Texas	Dallam	Corn, Grain, Irrigated - Operations With Area Harvested	102

State	County	Data Item	Value
Texas	Deaf Smith	Corn, Grain, Irrigated - Acres Harvested	24,124
Texas	Deaf Smith	Corn, Grain, Irrigated - Operations With Area Harvested	82
Texas	Floyd	Corn, Grain, Irrigated - Acres Harvested	7,474
Texas	Floyd	Corn, Grain, Irrigated - Operations With Area Harvested	28
Texas	Gray	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Gray	Corn, Grain, Irrigated - Operations With Area Harvested	14
Texas	Hale	Corn, Grain, Irrigated - Acres Harvested	16,678
Texas	Hale	Corn, Grain, Irrigated - Operations With Area Harvested	114
Texas	Hansford	Corn, Grain, Irrigated - Acres Harvested	42,962
Texas	Hansford	Corn, Grain, Irrigated - Operations With Area Harvested	81
Texas	Hartley	Corn, Grain, Irrigated - Acres Harvested	74,550
Texas	Hartley	Corn, Grain, Irrigated - Operations With Area Harvested	86
Texas	Hutchinson	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Hutchinson	Corn, Grain, Irrigated - Operations With Area Harvested	27
Texas	Lipscomb	Corn, Grain, Irrigated - Acres Harvested	10,080
Texas	Lipscomb	Corn, Grain, Irrigated - Operations With Area Harvested	8
Texas	Moore	Corn, Grain, Irrigated - Acres Harvested	48,447
Texas	Moore	Corn, Grain, Irrigated - Operations With Area Harvested	61
Texas	Ochiltree	Corn, Grain, Irrigated - Acres Harvested	14,968
Texas	Ochiltree	Corn, Grain, Irrigated - Operations With Area Harvested	30
Texas	Oldham	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Oldham	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Parmer	Corn, Grain, Irrigated - Acres Harvested	43,790
Texas	Parmer	Corn, Grain, Irrigated - Operations With Area Harvested	81
Texas	Potter	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Potter	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Randall	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Randall	Corn, Grain, Irrigated - Operations With Area Harvested	9
Texas	Roberts	Corn, Grain, Irrigated - Acres Harvested	2,038
Texas	Roberts	Corn, Grain, Irrigated - Operations With Area Harvested	4
Texas	Sherman	Corn, Grain, Irrigated - Acres Harvested	53,402
Texas	Sherman	Corn, Grain, Irrigated - Operations With Area Harvested	85
Texas	Swisher	Corn, Grain, Irrigated - Acres Harvested	6,098
Texas	Swisher	Corn, Grain, Irrigated - Operations With Area Harvested	31
Texas	Borden	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Borden	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Collingsworth	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Collingsworth	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Donley	Corn, Grain, Irrigated - Acres Harvested	1,877
Texas	Donley	Corn, Grain, Irrigated - Operations With Area Harvested	7
Texas	Wheeler	Corn, Grain, Irrigated - Acres Harvested	660
Texas	Wheeler	Corn, Grain, Irrigated - Operations With Area Harvested	4
Texas	Wilbarger	Corn, Grain, Irrigated - Acres Harvested	109
Texas	Wilbarger	Corn, Grain, Irrigated - Operations With Area Harvested	5
Texas	Austin	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Austin	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Bee	Corn, Grain, Irrigated - Acres Harvested	1,539
Texas	Bee	Corn, Grain, Irrigated - Operations With Area Harvested	5
Texas	Bexar	Corn, Grain, Irrigated - Acres Harvested	1,716

State	County	Data Item	Value
Texas	Bexar	Corn, Grain, Irrigated - Operations With Area Harvested	12
Texas	Burleson	Corn, Grain, Irrigated - Acres Harvested	9,710
Texas	Burleson	Corn, Grain, Irrigated - Operations With Area Harvested	21
Texas	Colorado	Corn, Grain, Irrigated - Acres Harvested	1,265
Texas	Colorado	Corn, Grain, Irrigated - Operations With Area Harvested	10
Texas	De Witt	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	De Witt	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Fayette	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Fayette	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Goliad	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Goliad	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Gonzales	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Gonzales	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Guadalupe	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Guadalupe	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Lavaca	Corn, Grain, Irrigated - Acres Harvested	210
Texas	Lavaca	Corn, Grain, Irrigated - Operations With Area Harvested	4
Texas	Medina	Corn, Grain, Irrigated - Acres Harvested	19,319
Texas	Medina	Corn, Grain, Irrigated - Operations With Area Harvested	65
Texas	Washington	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Wilson	Corn, Grain, Irrigated - Acres Harvested	3,117
Texas	Wilson	Corn, Grain, Irrigated - Operations With Area Harvested	7
Texas	Atascosa	Corn, Grain, Irrigated - Acres Harvested	1,519
Texas	Atascosa	Corn, Grain, Irrigated - Operations With Area Harvested	9
Texas	Dimmit	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Dimmit	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Frio	Corn, Grain, Irrigated - Acres Harvested	11,709
Texas	Frio	Corn, Grain, Irrigated - Operations With Area Harvested	24
Texas	La Salle	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	La Salle	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Webb	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Webb	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Zavala	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Zavala	Corn, Grain, Irrigated - Operations With Area Harvested	8
Texas	Bailey	Corn, Grain, Irrigated - Acres Harvested	1,174
Texas	Bailey	Corn, Grain, Irrigated - Operations With Area Harvested	10
Texas	Crosby	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Crosby	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Dawson	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Dawson	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Gaines	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Gaines	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Hockley	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Hockley	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Lamb	Corn, Grain, Irrigated - Acres Harvested	29,424
Texas	Lamb	Corn, Grain, Irrigated - Operations With Area Harvested	115
Texas	Lubbock	Corn, Grain, Irrigated - Acres Harvested	686
Texas	Lubbock	Corn, Grain, Irrigated - Operations With Area Harvested	10

State	County	Data Item	Value
Texas	Coleman	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Coleman	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Fisher	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Fisher	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Haskell	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Haskell	Corn, Grain, Irrigated - Operations With Area Harvested	4
Texas	Jones	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Jones	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Nolan	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Nolan	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Runnels	Corn, Grain, Irrigated - Acres Harvested	261
Texas	Runnels	Corn, Grain, Irrigated - Operations With Area Harvested	3
Texas	El Paso	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	El Paso	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Pecos	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Pecos	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Brazoria	Corn, Grain, Irrigated - Acres Harvested	605
Texas	Brazoria	Corn, Grain, Irrigated - Operations With Area Harvested	7
Texas	Calhoun	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Calhoun	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Fort Bend	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Fort Bend	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Harris	Corn, Grain, Irrigated - Acres Harvested	440
Texas	Harris	Corn, Grain, Irrigated - Operations With Area Harvested	4
Texas	Jackson	Corn, Grain, Irrigated - Acres Harvested	612
Texas	Jackson	Corn, Grain, Irrigated - Operations With Area Harvested	5
Texas	Matagorda	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Matagorda	Corn, Grain, Irrigated - Operations With Area Harvested	1
Texas	Victoria	Corn, Grain, Irrigated - Acres Harvested	(D)
Texas	Victoria	Corn, Grain, Irrigated - Operations With Area Harvested	2
Texas	Wharton	Corn, Grain, Irrigated - Acres Harvested	11,753
Texas	Wharton	Corn, Grain, Irrigated - Operations With Area Harvested	49
Utah	Juab	Corn, Grain, Irrigated - Acres Harvested	475
Utah	Juab	Corn, Grain, Irrigated - Operations With Area Harvested	8
Utah	Millard	Corn, Grain, Irrigated - Acres Harvested	8,389
Utah	Millard	Corn, Grain, Irrigated - Operations With Area Harvested	68
Utah	Sevier	Corn, Grain, Irrigated - Acres Harvested	904
Utah	Sevier	Corn, Grain, Irrigated - Operations With Area Harvested	33
Utah	Utah	Corn, Grain, Irrigated - Acres Harvested	3,324
Utah	Utah	Corn, Grain, Irrigated - Operations With Area Harvested	62
Utah	Carbon	Corn, Grain, Irrigated - Acres Harvested	(D)
Utah	Carbon	Corn, Grain, Irrigated - Operations With Area Harvested	1
Utah	Duchesne	Corn, Grain, Irrigated - Acres Harvested	2,952
Utah	Duchesne	Corn, Grain, Irrigated - Operations With Area Harvested	24
Utah	Emery	Corn, Grain, Irrigated - Acres Harvested	1,243
Utah	Emery	Corn, Grain, Irrigated - Operations With Area Harvested	10
Utah	San Juan	Corn, Grain, Irrigated - Acres Harvested	(D)
Utah	San Juan	Corn, Grain, Irrigated - Operations With Area Harvested	1
Utah	Uintah	Corn, Grain, Irrigated - Acres Harvested	2,056



State	County	Data Item	Value
Utah	Uintah	Corn, Grain, Irrigated - Operations With Area Harvested	16
Utah	Box Elder	Corn, Grain, Irrigated - Acres Harvested	8,488
Utah	Box Elder	Corn, Grain, Irrigated - Operations With Area Harvested	78
Utah	Cache	Corn, Grain, Irrigated - Acres Harvested	1,900
Utah	Cache	Corn, Grain, Irrigated - Operations With Area Harvested	16
Utah	Davis	Corn, Grain, Irrigated - Acres Harvested	974
Utah	Davis	Corn, Grain, Irrigated - Operations With Area Harvested	11
Utah	Salt Lake	Corn, Grain, Irrigated - Acres Harvested	57
Utah	Salt Lake	Corn, Grain, Irrigated - Operations With Area Harvested	3
Utah	Tooele	Corn, Grain, Irrigated - Acres Harvested	757
Utah	Tooele	Corn, Grain, Irrigated - Operations With Area Harvested	7
Utah	Weber	Corn, Grain, Irrigated - Acres Harvested	389
Utah	Weber	Corn, Grain, Irrigated - Operations With Area Harvested	11
Utah	Beaver	Corn, Grain, Irrigated - Acres Harvested	1,878
Utah	Beaver	Corn, Grain, Irrigated - Operations With Area Harvested	23
Utah	Washington	Corn, Grain, Irrigated - Acres Harvested	(D)
Utah	Washington	Corn, Grain, Irrigated - Operations With Area Harvested	1
Virginia	Albemarle	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Albemarle	Corn, Grain, Irrigated - Operations With Area Harvested	2
Virginia	Amelia	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Amelia	Corn, Grain, Irrigated - Operations With Area Harvested	1
Virginia	Appomattox	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Appomattox	Corn, Grain, Irrigated - Operations With Area Harvested	1
Virginia	Bedford	Corn, Grain, Irrigated - Acres Harvested	11
Virginia	Bedford	Corn, Grain, Irrigated - Operations With Area Harvested	3
Virginia	Caroline	Corn, Grain, Irrigated - Acres Harvested	944
Virginia	Caroline	Corn, Grain, Irrigated - Operations With Area Harvested	4
Virginia	Hanover	Corn, Grain, Irrigated - Acres Harvested	1,194
Virginia	Hanover	Corn, Grain, Irrigated - Operations With Area Harvested	7
Virginia	Henrico	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Henrico	Corn, Grain, Irrigated - Operations With Area Harvested	1
Virginia	Louisa	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Louisa	Corn, Grain, Irrigated - Operations With Area Harvested	1
Virginia	Nelson	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Nelson	Corn, Grain, Irrigated - Operations With Area Harvested	4
Virginia	Orange	Corn, Grain, Irrigated - Acres Harvested	58
Virginia	Orange	Corn, Grain, Irrigated - Operations With Area Harvested	5
Virginia	Powhatan	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Powhatan	Corn, Grain, Irrigated - Operations With Area Harvested	2
Virginia	Spotsylvania	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Spotsylvania	Corn, Grain, Irrigated - Operations With Area Harvested	2
Virginia	Accomack	Corn, Grain, Irrigated - Acres Harvested	2,466
Virginia	Accomack	Corn, Grain, Irrigated - Operations With Area Harvested	11
Virginia	Charles City	Corn, Grain, Irrigated - Acres Harvested	569
Virginia	Charles City	Corn, Grain, Irrigated - Operations With Area Harvested	4
Virginia	Essex	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Essex	Corn, Grain, Irrigated - Operations With Area Harvested	2
Virginia	King And Queen	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	King And Queen	Corn, Grain, Irrigated - Operations With Area Harvested	2

State	County	Data Item	Value
Virginia	King William	Corn, Grain, Irrigated - Acres Harvested	451
Virginia	King William	Corn, Grain, Irrigated - Operations With Area Harvested	6
Virginia	Middlesex	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Middlesex	Corn, Grain, Irrigated - Operations With Area Harvested	2
Virginia	Northampton	Corn, Grain, Irrigated - Acres Harvested	1,263
Virginia	Northampton	Corn, Grain, Irrigated - Operations With Area Harvested	8
Virginia	Westmoreland	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Westmoreland	Corn, Grain, Irrigated - Operations With Area Harvested	3
Virginia	Culpeper	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Culpeper	Corn, Grain, Irrigated - Operations With Area Harvested	1
Virginia	Fairfax	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Fairfax	Corn, Grain, Irrigated - Operations With Area Harvested	1
Virginia	Frederick	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Frederick	Corn, Grain, Irrigated - Operations With Area Harvested	1
Virginia	Loudoun	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Loudoun	Corn, Grain, Irrigated - Operations With Area Harvested	1
Virginia	Madison	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Madison	Corn, Grain, Irrigated - Operations With Area Harvested	2
Virginia	Page	Corn, Grain, Irrigated - Acres Harvested	745
Virginia	Page	Corn, Grain, Irrigated - Operations With Area Harvested	9
Virginia	Rockingham	Corn, Grain, Irrigated - Acres Harvested	1,735
Virginia	Rockingham	Corn, Grain, Irrigated - Operations With Area Harvested	39
Virginia	Shenandoah	Corn, Grain, Irrigated - Acres Harvested	179
Virginia	Shenandoah	Corn, Grain, Irrigated - Operations With Area Harvested	3
Virginia	Brunswick	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Brunswick	Corn, Grain, Irrigated - Operations With Area Harvested	1
Virginia	Dinwiddie	Corn, Grain, Irrigated - Acres Harvested	381
Virginia	Dinwiddie	Corn, Grain, Irrigated - Operations With Area Harvested	5
Virginia	Isle Of Wight	Corn, Grain, Irrigated - Acres Harvested	186
Virginia	Isle Of Wight	Corn, Grain, Irrigated - Operations With Area Harvested	3
Virginia	Southampton	Corn, Grain, Irrigated - Acres Harvested	1,037
Virginia	Southampton	Corn, Grain, Irrigated - Operations With Area Harvested	6
Virginia	Suffolk City	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Suffolk City	Corn, Grain, Irrigated - Operations With Area Harvested	1
Virginia	Surry	Corn, Grain, Irrigated - Acres Harvested	204
Virginia	Surry	Corn, Grain, Irrigated - Operations With Area Harvested	4
Virginia	Sussex	Corn, Grain, Irrigated - Acres Harvested	193
Virginia	Sussex	Corn, Grain, Irrigated - Operations With Area Harvested	3
Virginia	Virginia Beach City	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Virginia Beach City	Corn, Grain, Irrigated - Operations With Area Harvested	2
Virginia	Franklin	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	2
Virginia	Halifax	Corn, Grain, Irrigated - Acres Harvested	122
Virginia	Halifax	Corn, Grain, Irrigated - Operations With Area Harvested	7
Virginia	Patrick	Corn, Grain, Irrigated - Acres Harvested	15
Virginia	Patrick	Corn, Grain, Irrigated - Operations With Area Harvested	3
Virginia	Pittsylvania	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Pittsylvania	Corn, Grain, Irrigated - Operations With Area Harvested	1
Virginia	Grayson	Corn, Grain, Irrigated - Acres Harvested	(D)

State	County	Data Item	Value
Virginia	Grayson	Corn, Grain, Irrigated - Operations With Area Harvested	3
Virginia	Lee	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Lee	Corn, Grain, Irrigated - Operations With Area Harvested	2
Virginia	Russell	Corn, Grain, Irrigated - Acres Harvested	(D)
Virginia	Russell	Corn, Grain, Irrigated - Operations With Area Harvested	2
Virginia	Augusta	Corn, Grain, Irrigated - Acres Harvested	686
Virginia	Augusta	Corn, Grain, Irrigated - Operations With Area Harvested	12
Washington	Benton	Corn, Grain, Irrigated - Acres Harvested	14,038
Washington	Benton	Corn, Grain, Irrigated - Operations With Area Harvested	9
Washington	Chelan	Corn, Grain, Irrigated - Acres Harvested	8
Washington	Chelan	Corn, Grain, Irrigated - Operations With Area Harvested	3
Washington	Kittitas	Corn, Grain, Irrigated - Acres Harvested	(D)
Washington	Kittitas	Corn, Grain, Irrigated - Operations With Area Harvested	2
Washington	Okanogan	Corn, Grain, Irrigated - Acres Harvested	(D)
Washington	Okanogan	Corn, Grain, Irrigated - Operations With Area Harvested	2
Washington	Yakima	Corn, Grain, Irrigated - Acres Harvested	14,303
Washington	Yakima	Corn, Grain, Irrigated - Operations With Area Harvested	91
Washington	Adams	Corn, Grain, Irrigated - Acres Harvested	13,646
Washington	Adams	Corn, Grain, Irrigated - Operations With Area Harvested	65
Washington	Douglas	Corn, Grain, Irrigated - Acres Harvested	275
Washington	Douglas	Corn, Grain, Irrigated - Operations With Area Harvested	3
Washington	Franklin	Corn, Grain, Irrigated - Acres Harvested	20,400
Washington	Franklin	Corn, Grain, Irrigated - Operations With Area Harvested	131
Washington	Grant	Corn, Grain, Irrigated - Acres Harvested	46,337
Washington	Grant	Corn, Grain, Irrigated - Operations With Area Harvested	212
Washington	Lincoln	Corn, Grain, Irrigated - Acres Harvested	(D)
Washington	Lincoln	Corn, Grain, Irrigated - Operations With Area Harvested	2
Washington	Ferry	Corn, Grain, Irrigated - Acres Harvested	(D)
Washington	Ferry	Corn, Grain, Irrigated - Operations With Area Harvested	1
Washington	Spokane	Corn, Grain, Irrigated - Acres Harvested	(D)
Washington	Spokane	Corn, Grain, Irrigated - Operations With Area Harvested	1
Washington	Columbia	Corn, Grain, Irrigated - Acres Harvested	(D)
Washington	Columbia	Corn, Grain, Irrigated - Operations With Area Harvested	2
Washington	Walla Walla	Corn, Grain, Irrigated - Acres Harvested	2,924
Washington	Walla Walla	Corn, Grain, Irrigated - Operations With Area Harvested	37
Washington	Whitman	Corn, Grain, Irrigated - Acres Harvested	(D)
Washington	Whitman	Corn, Grain, Irrigated - Operations With Area Harvested	1
Washington	Clark	Corn, Grain, Irrigated - Acres Harvested	(D)
Washington	Clark	Corn, Grain, Irrigated - Operations With Area Harvested	3
Washington	Pacific	Corn, Grain, Irrigated - Acres Harvested	(D)
Washington	Pacific	Corn, Grain, Irrigated - Operations With Area Harvested	1
Washington	Pierce	Corn, Grain, Irrigated - Acres Harvested	(D)
Washington	Pierce	Corn, Grain, Irrigated - Operations With Area Harvested	1
West Virginia	Jefferson	Corn, Grain, Irrigated - Acres Harvested	(D)
West Virginia	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	1
West Virginia	Pendleton	Corn, Grain, Irrigated - Acres Harvested	(D)
West Virginia	Pendleton	Corn, Grain, Irrigated - Operations With Area Harvested	1
Wisconsin	Adams	Corn, Grain, Irrigated - Acres Harvested	11,020
Wisconsin	Adams	Corn, Grain, Irrigated - Operations With Area Harvested	54

State	County	Data Item	Value
Wisconsin	Green Lake	Corn, Grain, Irrigated - Acres Harvested	1,760
Wisconsin	Green Lake	Corn, Grain, Irrigated - Operations With Area Harvested	13
Wisconsin	Juneau	Corn, Grain, Irrigated - Acres Harvested	1,280
Wisconsin	Juneau	Corn, Grain, Irrigated - Operations With Area Harvested	9
Wisconsin	Marquette	Corn, Grain, Irrigated - Acres Harvested	5,446
Wisconsin	Marquette	Corn, Grain, Irrigated - Operations With Area Harvested	28
Wisconsin	Portage	Corn, Grain, Irrigated - Acres Harvested	15,890
Wisconsin	Portage	Corn, Grain, Irrigated - Operations With Area Harvested	118
Wisconsin	Waupaca	Corn, Grain, Irrigated - Acres Harvested	3,271
Wisconsin	Waupaca	Corn, Grain, Irrigated - Operations With Area Harvested	20
Wisconsin	Waushara	Corn, Grain, Irrigated - Acres Harvested	9,368
Wisconsin	Waushara	Corn, Grain, Irrigated - Operations With Area Harvested	38
Wisconsin	Wood	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Wood	Corn, Grain, Irrigated - Operations With Area Harvested	5
Wisconsin	Fond Du Lac	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Fond Du Lac	Corn, Grain, Irrigated - Operations With Area Harvested	2
Wisconsin	Manitowoc	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Manitowoc	Corn, Grain, Irrigated - Operations With Area Harvested	1
Wisconsin	Outagamie	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Outagamie	Corn, Grain, Irrigated - Operations With Area Harvested	1
Wisconsin	Sheboygan	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Sheboygan	Corn, Grain, Irrigated - Operations With Area Harvested	1
Wisconsin	Winnebago	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Winnebago	Corn, Grain, Irrigated - Operations With Area Harvested	1
Wisconsin	Clark	Corn, Grain, Irrigated - Acres Harvested	98
Wisconsin	Clark	Corn, Grain, Irrigated - Operations With Area Harvested	10
Wisconsin	Marathon	Corn, Grain, Irrigated - Acres Harvested	744
Wisconsin	Marathon	Corn, Grain, Irrigated - Operations With Area Harvested	14
Wisconsin	Taylor	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Taylor	Corn, Grain, Irrigated - Operations With Area Harvested	1
Wisconsin	Langlade	Corn, Grain, Irrigated - Acres Harvested	620
Wisconsin	Langlade	Corn, Grain, Irrigated - Operations With Area Harvested	10
Wisconsin	Marinette	Corn, Grain, Irrigated - Acres Harvested	608
Wisconsin	Marinette	Corn, Grain, Irrigated - Operations With Area Harvested	4
Wisconsin	Oconto	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Oconto	Corn, Grain, Irrigated - Operations With Area Harvested	3
Wisconsin	Shawano	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Shawano	Corn, Grain, Irrigated - Operations With Area Harvested	1
Wisconsin	Barron	Corn, Grain, Irrigated - Acres Harvested	6,624
Wisconsin	Barron	Corn, Grain, Irrigated - Operations With Area Harvested	28
Wisconsin	Burnett	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Burnett	Corn, Grain, Irrigated - Operations With Area Harvested	2
Wisconsin	Chippewa	Corn, Grain, Irrigated - Acres Harvested	3,023
Wisconsin	Chippewa	Corn, Grain, Irrigated - Operations With Area Harvested	24
Wisconsin	Polk	Corn, Grain, Irrigated - Acres Harvested	632
Wisconsin	Polk	Corn, Grain, Irrigated - Operations With Area Harvested	8
Wisconsin	Washburn	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Washburn	Corn, Grain, Irrigated - Operations With Area Harvested	2
Wisconsin	Columbia	Corn, Grain, Irrigated - Acres Harvested	1,156

State	County	Data Item	Value
Wisconsin	Columbia	Corn, Grain, Irrigated - Operations With Area Harvested	21
Wisconsin	Dane	Corn, Grain, Irrigated - Acres Harvested	2,107
Wisconsin	Dane	Corn, Grain, Irrigated - Operations With Area Harvested	19
Wisconsin	Dodge	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Dodge	Corn, Grain, Irrigated - Operations With Area Harvested	2
Wisconsin	Green	Corn, Grain, Irrigated - Acres Harvested	1,378
Wisconsin	Green	Corn, Grain, Irrigated - Operations With Area Harvested	12
Wisconsin	Jefferson	Corn, Grain, Irrigated - Acres Harvested	5,027
Wisconsin	Jefferson	Corn, Grain, Irrigated - Operations With Area Harvested	12
Wisconsin	Rock	Corn, Grain, Irrigated - Acres Harvested	10,821
Wisconsin	Rock	Corn, Grain, Irrigated - Operations With Area Harvested	34
Wisconsin	Kenosha	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Kenosha	Corn, Grain, Irrigated - Operations With Area Harvested	1
Wisconsin	Milwaukee	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Milwaukee	Corn, Grain, Irrigated - Operations With Area Harvested	2
Wisconsin	Racine	Corn, Grain, Irrigated - Acres Harvested	54
Wisconsin	Racine	Corn, Grain, Irrigated - Operations With Area Harvested	3
Wisconsin	Walworth	Corn, Grain, Irrigated - Acres Harvested	1,696
Wisconsin	Walworth	Corn, Grain, Irrigated - Operations With Area Harvested	16
Wisconsin	Waukesha	Corn, Grain, Irrigated - Acres Harvested	575
Wisconsin	Waukesha	Corn, Grain, Irrigated - Operations With Area Harvested	4
Wisconsin	Crawford	Corn, Grain, Irrigated - Acres Harvested	11
Wisconsin	Crawford	Corn, Grain, Irrigated - Operations With Area Harvested	3
Wisconsin	Grant	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Grant	Corn, Grain, Irrigated - Operations With Area Harvested	8
Wisconsin	Iowa	Corn, Grain, Irrigated - Acres Harvested	1,554
Wisconsin	Iowa	Corn, Grain, Irrigated - Operations With Area Harvested	19
Wisconsin	Lafayette	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Lafayette	Corn, Grain, Irrigated - Operations With Area Harvested	1
Wisconsin	Richland	Corn, Grain, Irrigated - Acres Harvested	749
Wisconsin	Richland	Corn, Grain, Irrigated - Operations With Area Harvested	15
Wisconsin	Sauk	Corn, Grain, Irrigated - Acres Harvested	15,277
Wisconsin	Sauk	Corn, Grain, Irrigated - Operations With Area Harvested	45
Wisconsin	Vernon	Corn, Grain, Irrigated - Acres Harvested	78
Wisconsin	Vernon	Corn, Grain, Irrigated - Operations With Area Harvested	5
Wisconsin	Buffalo	Corn, Grain, Irrigated - Acres Harvested	1,818
Wisconsin	Buffalo	Corn, Grain, Irrigated - Operations With Area Harvested	12
Wisconsin	Dunn	Corn, Grain, Irrigated - Acres Harvested	17,338
Wisconsin	Dunn	Corn, Grain, Irrigated - Operations With Area Harvested	49
Wisconsin	Eau Claire	Corn, Grain, Irrigated - Acres Harvested	2,008
Wisconsin	Eau Claire	Corn, Grain, Irrigated - Operations With Area Harvested	6
Wisconsin	Jackson	Corn, Grain, Irrigated - Acres Harvested	1,772
Wisconsin	Jackson	Corn, Grain, Irrigated - Operations With Area Harvested	12
Wisconsin	La Crosse	Corn, Grain, Irrigated - Acres Harvested	424
Wisconsin	La Crosse	Corn, Grain, Irrigated - Operations With Area Harvested	4
Wisconsin	Monroe	Corn, Grain, Irrigated - Acres Harvested	(D)
Wisconsin	Monroe	Corn, Grain, Irrigated - Operations With Area Harvested	3
Wisconsin	Pepin	Corn, Grain, Irrigated - Acres Harvested	1,837
Wisconsin	Pepin	Corn, Grain, Irrigated - Operations With Area Harvested	17

State	County	Data Item	Value
Wisconsin	Pierce	Corn, Grain, Irrigated - Acres Harvested	309
Wisconsin	Pierce	Corn, Grain, Irrigated - Operations With Area Harvested	5
Wisconsin	St Croix	Corn, Grain, Irrigated - Acres Harvested	4,755
Wisconsin	St Croix	Corn, Grain, Irrigated - Operations With Area Harvested	15
Wisconsin	Trempealeau	Corn, Grain, Irrigated - Acres Harvested	3,887
Wisconsin	Trempealeau	Corn, Grain, Irrigated - Operations With Area Harvested	23
Wyoming	Sheridan	Corn, Grain, Irrigated - Acres Harvested	(D)
Wyoming	Sheridan	Corn, Grain, Irrigated - Operations With Area Harvested	1
Wyoming	Big Horn	Corn, Grain, Irrigated - Acres Harvested	(D)
Wyoming	Big Horn	Corn, Grain, Irrigated - Operations With Area Harvested	54
Wyoming	Fremont	Corn, Grain, Irrigated - Acres Harvested	(D)
Wyoming	Fremont	Corn, Grain, Irrigated - Operations With Area Harvested	66
Wyoming	Hot Springs	Corn, Grain, Irrigated - Acres Harvested	(D)
Wyoming	Hot Springs	Corn, Grain, Irrigated - Operations With Area Harvested	2
Wyoming	Park	Corn, Grain, Irrigated - Acres Harvested	3,421
Wyoming	Park	Corn, Grain, Irrigated - Operations With Area Harvested	24
Wyoming	Washakie	Corn, Grain, Irrigated - Acres Harvested	1,044
Wyoming	Washakie	Corn, Grain, Irrigated - Operations With Area Harvested	7
Wyoming	Albany	Corn, Grain, Irrigated - Acres Harvested	(D)
Wyoming	Albany	Corn, Grain, Irrigated - Operations With Area Harvested	1
Wyoming	Natrona	Corn, Grain, Irrigated - Acres Harvested	(D)
Wyoming	Natrona	Corn, Grain, Irrigated - Operations With Area Harvested	1
Wyoming	Goshen	Corn, Grain, Irrigated - Acres Harvested	27,749
Wyoming	Goshen	Corn, Grain, Irrigated - Operations With Area Harvested	145
Wyoming	Laramie	Corn, Grain, Irrigated - Acres Harvested	6,421
Wyoming	Laramie	Corn, Grain, Irrigated - Operations With Area Harvested	28
Wyoming	Niobrara	Corn, Grain, Irrigated - Acres Harvested	683
Wyoming	Niobrara	Corn, Grain, Irrigated - Operations With Area Harvested	5
Wyoming	Platte	Corn, Grain, Irrigated - Acres Harvested	(D)
Wyoming	Platte	Corn, Grain, Irrigated - Operations With Area Harvested	39

**Table G2. 2013 NASS Survey Data for Corn**

State	County	Data Item	Value
Colorado	Cheyenne	Corn, Grain, Irrigated - Acres Harvested	14,400.0
Colorado	Cheyenne	Corn, Grain, Irrigated - Production, Measured In Bu	2,782,000.0
Colorado	Cheyenne	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	193.2
Colorado	Cheyenne	Corn, Irrigated - Acres Planted	14,700.0
Colorado	Kit Carson	Corn, Grain, Irrigated - Acres Harvested	78,900.0
Colorado	Kit Carson	Corn, Grain, Irrigated - Production, Measured In Bu	12,847,000.0
Colorado	Kit Carson	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	162.8
Colorado	Kit Carson	Corn, Irrigated - Acres Planted	83,900.0
Colorado	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	241,500.0
Colorado	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	46,811,000.0
Colorado	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	193.8
Colorado	Other (Combined) Counties	Corn, Irrigated - Acres Planted	257,400.0
Colorado	Phillips	Corn, Grain, Irrigated - Acres Harvested	60,200.0
Colorado	Phillips	Corn, Grain, Irrigated - Production, Measured In Bu	11,680,000.0
Colorado	Phillips	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	194.0
Colorado	Phillips	Corn, Irrigated - Acres Planted	64,000.0
Delaware	Sussex	Corn, Grain, Irrigated - Acres Harvested	55,900.0
Delaware	Sussex	Corn, Grain, Irrigated - Production, Measured In Bu	10,380,000.0
Delaware	Sussex	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	185.7
Delaware	Sussex	Corn, Irrigated - Acres Planted	57,000.0
Kansas	Barton	Corn, Grain, Irrigated - Acres Harvested	16,300.0
Kansas	Barton	Corn, Grain, Irrigated - Production, Measured In Bu	2,945,000.0
Kansas	Barton	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	180.7
Kansas	Barton	Corn, Irrigated - Acres Planted	16,700.0
Kansas	Brown	Corn, Grain, Irrigated - Acres Harvested	3,000.0
Kansas	Brown	Corn, Grain, Irrigated - Production, Measured In Bu	660,000.0
Kansas	Brown	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	220.0
Kansas	Brown	Corn, Irrigated - Acres Planted	3,100.0
Kansas	Cloud	Corn, Grain, Irrigated - Acres Harvested	11,700.0
Kansas	Cloud	Corn, Grain, Irrigated - Production, Measured In Bu	2,162,000.0
Kansas	Cloud	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	184.8
Kansas	Cloud	Corn, Irrigated - Acres Planted	11,800.0
Kansas	Decatur	Corn, Grain, Irrigated - Acres Harvested	5,800.0
Kansas	Decatur	Corn, Grain, Irrigated - Production, Measured In Bu	911,000.0
Kansas	Decatur	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	157.1
Kansas	Decatur	Corn, Irrigated - Acres Planted	6,000.0
Kansas	Doniphan	Corn, Grain, Irrigated - Acres Harvested	2,400.0
Kansas	Doniphan	Corn, Grain, Irrigated - Production, Measured In Bu	463,000.0
Kansas	Doniphan	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	192.9
Kansas	Doniphan	Corn, Irrigated - Acres Planted	2,500.0
Kansas	Edwards	Corn, Grain, Irrigated - Acres Harvested	61,500.0
Kansas	Edwards	Corn, Grain, Irrigated - Production, Measured In Bu	12,464,000.0
Kansas	Edwards	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	202.7
Kansas	Edwards	Corn, Irrigated - Acres Planted	61,800.0
Kansas	Geary	Corn, Grain, Irrigated - Acres Harvested	2,400.0
Kansas	Geary	Corn, Grain, Irrigated - Production, Measured In Bu	443,000.0
Kansas	Geary	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	184.6
Kansas	Geary	Corn, Irrigated - Acres Planted	2,500.0

State	County	Data Item	Value
Kansas	Gove	Corn, Grain, Irrigated - Acres Harvested	10,500.0
Kansas	Gove	Corn, Grain, Irrigated - Production, Measured In Bu	1,572,000.0
Kansas	Gove	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	149.7
Kansas	Gove	Corn, Irrigated - Acres Planted	11,000.0
Kansas	Harvey	Corn, Grain, Irrigated - Acres Harvested	20,600.0
Kansas	Harvey	Corn, Grain, Irrigated - Production, Measured In Bu	3,470,000.0
Kansas	Harvey	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	168.4
Kansas	Harvey	Corn, Irrigated - Acres Planted	20,800.0
Kansas	Kiowa	Corn, Grain, Irrigated - Acres Harvested	30,500.0
Kansas	Kiowa	Corn, Grain, Irrigated - Production, Measured In Bu	5,983,000.0
Kansas	Kiowa	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	196.2
Kansas	Kiowa	Corn, Irrigated - Acres Planted	30,600.0
Kansas	Marion	Corn, Grain, Irrigated - Acres Harvested	1,400.0
Kansas	Marion	Corn, Grain, Irrigated - Production, Measured In Bu	224,000.0
Kansas	Marion	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	160.0
Kansas	Marion	Corn, Irrigated - Acres Planted	1,500.0
Kansas	Mcperson	Corn, Grain, Irrigated - Acres Harvested	17,800.0
Kansas	Mcperson	Corn, Grain, Irrigated - Production, Measured In Bu	2,753,000.0
Kansas	Mcperson	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	154.7
Kansas	Mcperson	Corn, Irrigated - Acres Planted	18,900.0
Kansas	Mitchell	Corn, Grain, Irrigated - Acres Harvested	4,600.0
Kansas	Mitchell	Corn, Grain, Irrigated - Production, Measured In Bu	775,000.0
Kansas	Mitchell	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	168.5
Kansas	Mitchell	Corn, Irrigated - Acres Planted	4,800.0
Kansas	Nemaha	Corn, Grain, Irrigated - Acres Harvested	1,000.0
Kansas	Nemaha	Corn, Grain, Irrigated - Production, Measured In Bu	205,000.0
Kansas	Nemaha	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	205.0
Kansas	Nemaha	Corn, Irrigated - Acres Planted	1,000.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	6,200.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	11,400.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	66,400.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	10,300.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	237,300.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	96,500.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	6,000.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	593,600.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	74,500.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	1,086,000.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	2,024,000.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	13,074,000.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	1,906,000.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	43,047,000.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	17,432,000.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	964,000.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	119,844,000.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	13,521,000.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	175.2
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	177.5
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	196.9



State	County	Data Item	Value
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	185.0
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	181.4
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	180.6
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	160.7
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	201.9
Kansas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	181.5
Kansas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	6,500.0
Kansas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	12,000.0
Kansas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	67,000.0
Kansas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	10,800.0
Kansas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	243,500.0
Kansas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	98,000.0
Kansas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	7,000.0
Kansas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	620,300.0
Kansas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	79,900.0
Kansas	Pawnee	Corn, Grain, Irrigated - Acres Harvested	27,100.0
Kansas	Pawnee	Corn, Grain, Irrigated - Production, Measured In Bu	4,894,000.0
Kansas	Pawnee	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	180.6
Kansas	Pawnee	Corn, Irrigated - Acres Planted	28,400.0
Kansas	Phillips	Corn, Grain, Irrigated - Acres Harvested	3,700.0
Kansas	Phillips	Corn, Grain, Irrigated - Production, Measured In Bu	754,000.0
Kansas	Phillips	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	203.8
Kansas	Phillips	Corn, Irrigated - Acres Planted	3,700.0
Kansas	Pottawatomie	Corn, Grain, Irrigated - Acres Harvested	10,300.0
Kansas	Pottawatomie	Corn, Grain, Irrigated - Production, Measured In Bu	1,936,000.0
Kansas	Pottawatomie	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	188.0
Kansas	Pottawatomie	Corn, Irrigated - Acres Planted	10,600.0
Kansas	Rawlins	Corn, Grain, Irrigated - Acres Harvested	9,900.0
Kansas	Rawlins	Corn, Grain, Irrigated - Production, Measured In Bu	1,455,000.0
Kansas	Rawlins	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	147.0
Kansas	Rawlins	Corn, Irrigated - Acres Planted	10,500.0
Kansas	Rice	Corn, Grain, Irrigated - Acres Harvested	12,400.0
Kansas	Rice	Corn, Grain, Irrigated - Production, Measured In Bu	2,293,000.0
Kansas	Rice	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	184.9
Kansas	Rice	Corn, Irrigated - Acres Planted	12,400.0
Kansas	Saline	Corn, Grain, Irrigated - Acres Harvested	900.0
Kansas	Saline	Corn, Grain, Irrigated - Production, Measured In Bu	143,000.0
Kansas	Saline	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	158.9
Kansas	Saline	Corn, Irrigated - Acres Planted	1,000.0
Kansas	Sedgwick	Corn, Grain, Irrigated - Acres Harvested	18,400.0
Kansas	Sedgwick	Corn, Grain, Irrigated - Production, Measured In Bu	3,230,000.0
Kansas	Sedgwick	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	175.5
Kansas	Sedgwick	Corn, Irrigated - Acres Planted	18,900.0
Kansas	Shawnee	Corn, Grain, Irrigated - Acres Harvested	12,200.0
Kansas	Shawnee	Corn, Grain, Irrigated - Production, Measured In Bu	2,181,000.0
Kansas	Shawnee	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	178.8
Kansas	Shawnee	Corn, Irrigated - Acres Planted	12,500.0
Kansas	Stafford	Corn, Grain, Irrigated - Acres Harvested	45,400.0
Kansas	Stafford	Corn, Grain, Irrigated - Production, Measured In Bu	8,599,000.0

State	County	Data Item	Value
Kansas	Stafford	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	189.4
Kansas	Stafford	Corn, Irrigated - Acres Planted	45,500.0
Kansas	Stanton	Corn, Grain, Irrigated - Acres Harvested	39,400.0
Kansas	Stanton	Corn, Grain, Irrigated - Production, Measured In Bu	8,239,000.0
Kansas	Stanton	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	209.1
Kansas	Stanton	Corn, Irrigated - Acres Planted	40,700.0
Kansas	Washington	Corn, Grain, Irrigated - Acres Harvested	5,600.0
Kansas	Washington	Corn, Grain, Irrigated - Production, Measured In Bu	1,040,000.0
Kansas	Washington	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	185.7
Kansas	Washington	Corn, Irrigated - Acres Planted	5,700.0
Kansas	Wichita	Corn, Grain, Irrigated - Acres Harvested	23,000.0
Kansas	Wichita	Corn, Grain, Irrigated - Production, Measured In Bu	3,670,000.0
Kansas	Wichita	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	159.6
Kansas	Wichita	Corn, Irrigated - Acres Planted	27,100.0
Nebraska	Adams	Corn, Grain, Irrigated - Acres Harvested	165,100.0
Nebraska	Adams	Corn, Grain, Irrigated - Production, Measured In Bu	32,842,000.0
Nebraska	Adams	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	198.9
Nebraska	Adams	Corn, Irrigated - Acres Planted	167,000.0
Nebraska	Antelope	Corn, Grain, Irrigated - Acres Harvested	173,000.0
Nebraska	Antelope	Corn, Grain, Irrigated - Production, Measured In Bu	35,304,000.0
Nebraska	Antelope	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	204.1
Nebraska	Antelope	Corn, Irrigated - Acres Planted	178,000.0
Nebraska	Boone	Corn, Grain, Irrigated - Acres Harvested	123,500.0
Nebraska	Boone	Corn, Grain, Irrigated - Production, Measured In Bu	24,840,000.0
Nebraska	Boone	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	201.1
Nebraska	Boone	Corn, Irrigated - Acres Planted	125,000.0
Nebraska	Box Butte	Corn, Grain, Irrigated - Acres Harvested	50,300.0
Nebraska	Box Butte	Corn, Grain, Irrigated - Production, Measured In Bu	8,368,000.0
Nebraska	Box Butte	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	166.4
Nebraska	Box Butte	Corn, Irrigated - Acres Planted	53,500.0
Nebraska	Brown	Corn, Grain, Irrigated - Acres Harvested	42,400.0
Nebraska	Brown	Corn, Grain, Irrigated - Production, Measured In Bu	7,604,000.0
Nebraska	Brown	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	179.3
Nebraska	Brown	Corn, Irrigated - Acres Planted	44,200.0
Nebraska	Buffalo	Corn, Grain, Irrigated - Acres Harvested	173,400.0
Nebraska	Buffalo	Corn, Grain, Irrigated - Production, Measured In Bu	34,437,000.0
Nebraska	Buffalo	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	198.6
Nebraska	Buffalo	Corn, Irrigated - Acres Planted	178,500.0
Nebraska	Burt	Corn, Grain, Irrigated - Acres Harvested	35,900.0
Nebraska	Burt	Corn, Grain, Irrigated - Production, Measured In Bu	7,556,000.0
Nebraska	Burt	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	210.5
Nebraska	Burt	Corn, Irrigated - Acres Planted	36,300.0
Nebraska	Butler	Corn, Grain, Irrigated - Acres Harvested	83,700.0
Nebraska	Butler	Corn, Grain, Irrigated - Production, Measured In Bu	17,341,000.0
Nebraska	Butler	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	207.2
Nebraska	Butler	Corn, Irrigated - Acres Planted	84,500.0
Nebraska	Cass	Corn, Grain, Irrigated - Acres Harvested	2,600.0
Nebraska	Cass	Corn, Grain, Irrigated - Production, Measured In Bu	509,000.0
Nebraska	Cass	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	195.8

State	County	Data Item	Value
Nebraska	Cass	Corn, Irrigated - Acres Planted	2,700.0
Nebraska	Cedar	Corn, Grain, Irrigated - Acres Harvested	92,000.0
Nebraska	Cedar	Corn, Grain, Irrigated - Production, Measured In Bu	18,600,000.0
Nebraska	Cedar	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	202.2
Nebraska	Cedar	Corn, Irrigated - Acres Planted	95,200.0
Nebraska	Chase	Corn, Grain, Irrigated - Acres Harvested	138,600.0
Nebraska	Chase	Corn, Grain, Irrigated - Production, Measured In Bu	27,339,000.0
Nebraska	Chase	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	197.3
Nebraska	Chase	Corn, Irrigated - Acres Planted	144,500.0
Nebraska	Cherry	Corn, Grain, Irrigated - Acres Harvested	20,500.0
Nebraska	Cherry	Corn, Grain, Irrigated - Production, Measured In Bu	3,712,000.0
Nebraska	Cherry	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	181.1
Nebraska	Cherry	Corn, Irrigated - Acres Planted	22,200.0
Nebraska	Clay	Corn, Grain, Irrigated - Acres Harvested	138,800.0
Nebraska	Clay	Corn, Grain, Irrigated - Production, Measured In Bu	23,032,000.0
Nebraska	Clay	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	165.9
Nebraska	Clay	Corn, Irrigated - Acres Planted	159,000.0
Nebraska	Colfax	Corn, Grain, Irrigated - Acres Harvested	50,100.0
Nebraska	Colfax	Corn, Grain, Irrigated - Production, Measured In Bu	10,065,000.0
Nebraska	Colfax	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	200.9
Nebraska	Colfax	Corn, Irrigated - Acres Planted	51,900.0
Nebraska	Dakota	Corn, Grain, Irrigated - Acres Harvested	14,200.0
Nebraska	Dakota	Corn, Grain, Irrigated - Production, Measured In Bu	3,268,000.0
Nebraska	Dakota	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	230.1
Nebraska	Dakota	Corn, Irrigated - Acres Planted	14,300.0
Nebraska	Dawes	Corn, Grain, Irrigated - Acres Harvested	4,000.0
Nebraska	Dawes	Corn, Grain, Irrigated - Production, Measured In Bu	464,000.0
Nebraska	Dawes	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	116.0
Nebraska	Dawes	Corn, Irrigated - Acres Planted	4,600.0
Nebraska	Dawson	Corn, Grain, Irrigated - Acres Harvested	196,200.0
Nebraska	Dawson	Corn, Grain, Irrigated - Production, Measured In Bu	39,934,000.0
Nebraska	Dawson	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	203.5
Nebraska	Dawson	Corn, Irrigated - Acres Planted	202,000.0
Nebraska	Dodge	Corn, Grain, Irrigated - Acres Harvested	77,000.0
Nebraska	Dodge	Corn, Grain, Irrigated - Production, Measured In Bu	16,275,000.0
Nebraska	Dodge	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	211.4
Nebraska	Dodge	Corn, Irrigated - Acres Planted	77,800.0
Nebraska	Douglas	Corn, Grain, Irrigated - Acres Harvested	9,100.0
Nebraska	Douglas	Corn, Grain, Irrigated - Production, Measured In Bu	1,975,000.0
Nebraska	Douglas	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	217.0
Nebraska	Douglas	Corn, Irrigated - Acres Planted	9,200.0
Nebraska	Dundy	Corn, Grain, Irrigated - Acres Harvested	60,400.0
Nebraska	Dundy	Corn, Grain, Irrigated - Production, Measured In Bu	10,804,000.0
Nebraska	Dundy	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	178.9
Nebraska	Dundy	Corn, Irrigated - Acres Planted	63,100.0
Nebraska	Fillmore	Corn, Grain, Irrigated - Acres Harvested	153,900.0
Nebraska	Fillmore	Corn, Grain, Irrigated - Production, Measured In Bu	32,581,000.0
Nebraska	Fillmore	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	211.7
Nebraska	Fillmore	Corn, Irrigated - Acres Planted	157,000.0

State	County	Data Item	Value
Nebraska	Franklin	Corn, Grain, Irrigated - Acres Harvested	58,900.0
Nebraska	Franklin	Corn, Grain, Irrigated - Production, Measured In Bu	10,974,000.0
Nebraska	Franklin	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	186.3
Nebraska	Franklin	Corn, Irrigated - Acres Planted	59,700.0
Nebraska	Frontier	Corn, Grain, Irrigated - Acres Harvested	39,300.0
Nebraska	Frontier	Corn, Grain, Irrigated - Production, Measured In Bu	7,106,000.0
Nebraska	Frontier	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	180.8
Nebraska	Frontier	Corn, Irrigated - Acres Planted	39,700.0
Nebraska	Furnas	Corn, Grain, Irrigated - Acres Harvested	26,700.0
Nebraska	Furnas	Corn, Grain, Irrigated - Production, Measured In Bu	4,113,000.0
Nebraska	Furnas	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	154.0
Nebraska	Furnas	Corn, Irrigated - Acres Planted	27,000.0
Nebraska	Gage	Corn, Grain, Irrigated - Acres Harvested	43,000.0
Nebraska	Gage	Corn, Grain, Irrigated - Production, Measured In Bu	8,677,000.0
Nebraska	Gage	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	201.8
Nebraska	Gage	Corn, Irrigated - Acres Planted	43,400.0
Nebraska	Garden	Corn, Grain, Irrigated - Acres Harvested	20,400.0
Nebraska	Garden	Corn, Grain, Irrigated - Production, Measured In Bu	3,278,000.0
Nebraska	Garden	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	160.7
Nebraska	Garden	Corn, Irrigated - Acres Planted	20,900.0
Nebraska	Garfield	Corn, Grain, Irrigated - Acres Harvested	10,600.0
Nebraska	Garfield	Corn, Grain, Irrigated - Production, Measured In Bu	1,929,000.0
Nebraska	Garfield	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	182.0
Nebraska	Garfield	Corn, Irrigated - Acres Planted	11,400.0
Nebraska	Gosper	Corn, Grain, Irrigated - Acres Harvested	59,200.0
Nebraska	Gosper	Corn, Grain, Irrigated - Production, Measured In Bu	11,908,000.0
Nebraska	Gosper	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	201.1
Nebraska	Gosper	Corn, Irrigated - Acres Planted	60,100.0
Nebraska	Hall	Corn, Grain, Irrigated - Acres Harvested	183,800.0
Nebraska	Hall	Corn, Grain, Irrigated - Production, Measured In Bu	38,406,000.0
Nebraska	Hall	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	209.0
Nebraska	Hall	Corn, Irrigated - Acres Planted	186,500.0
Nebraska	Hamilton	Corn, Grain, Irrigated - Acres Harvested	192,400.0
Nebraska	Hamilton	Corn, Grain, Irrigated - Production, Measured In Bu	40,326,000.0
Nebraska	Hamilton	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	209.6
Nebraska	Hamilton	Corn, Irrigated - Acres Planted	197,000.0
Nebraska	Harlan	Corn, Grain, Irrigated - Acres Harvested	54,000.0
Nebraska	Harlan	Corn, Grain, Irrigated - Production, Measured In Bu	9,971,000.0
Nebraska	Harlan	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	184.6
Nebraska	Harlan	Corn, Irrigated - Acres Planted	55,200.0
Nebraska	Hayes	Corn, Grain, Irrigated - Acres Harvested	39,900.0
Nebraska	Hayes	Corn, Grain, Irrigated - Production, Measured In Bu	7,002,000.0
Nebraska	Hayes	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	175.5
Nebraska	Hayes	Corn, Irrigated - Acres Planted	40,700.0
Nebraska	Hitchcock	Corn, Grain, Irrigated - Acres Harvested	16,600.0
Nebraska	Hitchcock	Corn, Grain, Irrigated - Production, Measured In Bu	2,598,000.0
Nebraska	Hitchcock	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	156.5
Nebraska	Hitchcock	Corn, Irrigated - Acres Planted	17,100.0
Nebraska	Holt	Corn, Grain, Irrigated - Acres Harvested	188,000.0

State	County	Data Item	Value
Nebraska	Holt	Corn, Grain, Irrigated - Production, Measured In Bu	37,113,000.0
Nebraska	Holt	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	197.4
Nebraska	Holt	Corn, Irrigated - Acres Planted	190,500.0
Nebraska	Howard	Corn, Grain, Irrigated - Acres Harvested	95,200.0
Nebraska	Howard	Corn, Grain, Irrigated - Production, Measured In Bu	17,724,000.0
Nebraska	Howard	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	186.2
Nebraska	Howard	Corn, Irrigated - Acres Planted	97,100.0
Nebraska	Jefferson	Corn, Grain, Irrigated - Acres Harvested	53,200.0
Nebraska	Jefferson	Corn, Grain, Irrigated - Production, Measured In Bu	10,560,000.0
Nebraska	Jefferson	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	198.5
Nebraska	Jefferson	Corn, Irrigated - Acres Planted	54,900.0
Nebraska	Johnson	Corn, Grain, Irrigated - Acres Harvested	13,700.0
Nebraska	Johnson	Corn, Grain, Irrigated - Production, Measured In Bu	2,732,000.0
Nebraska	Johnson	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	199.4
Nebraska	Johnson	Corn, Irrigated - Acres Planted	13,800.0
Nebraska	Kearney	Corn, Grain, Irrigated - Acres Harvested	141,600.0
Nebraska	Kearney	Corn, Grain, Irrigated - Production, Measured In Bu	29,470,000.0
Nebraska	Kearney	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	208.1
Nebraska	Kearney	Corn, Irrigated - Acres Planted	147,000.0
Nebraska	Keith	Corn, Grain, Irrigated - Acres Harvested	71,800.0
Nebraska	Keith	Corn, Grain, Irrigated - Production, Measured In Bu	13,910,000.0
Nebraska	Keith	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	193.7
Nebraska	Keith	Corn, Irrigated - Acres Planted	72,800.0
Nebraska	Keya Paha	Corn, Grain, Irrigated - Acres Harvested	14,500.0
Nebraska	Keya Paha	Corn, Grain, Irrigated - Production, Measured In Bu	2,932,000.0
Nebraska	Keya Paha	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	202.2
Nebraska	Keya Paha	Corn, Irrigated - Acres Planted	14,600.0
Nebraska	Kimball	Corn, Grain, Irrigated - Acres Harvested	15,500.0
Nebraska	Kimball	Corn, Grain, Irrigated - Production, Measured In Bu	2,338,000.0
Nebraska	Kimball	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	150.8
Nebraska	Kimball	Corn, Irrigated - Acres Planted	16,200.0
Nebraska	Knox	Corn, Grain, Irrigated - Acres Harvested	51,200.0
Nebraska	Knox	Corn, Grain, Irrigated - Production, Measured In Bu	10,545,000.0
Nebraska	Knox	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	206.0
Nebraska	Knox	Corn, Irrigated - Acres Planted	53,900.0
Nebraska	Lancaster	Corn, Grain, Irrigated - Acres Harvested	11,300.0
Nebraska	Lancaster	Corn, Grain, Irrigated - Production, Measured In Bu	2,172,000.0
Nebraska	Lancaster	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	192.2
Nebraska	Lancaster	Corn, Irrigated - Acres Planted	12,100.0
Nebraska	Lincoln	Corn, Grain, Irrigated - Acres Harvested	163,200.0
Nebraska	Lincoln	Corn, Grain, Irrigated - Production, Measured In Bu	30,019,000.0
Nebraska	Lincoln	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	183.9
Nebraska	Lincoln	Corn, Irrigated - Acres Planted	170,500.0
Nebraska	Logan	Corn, Grain, Irrigated - Acres Harvested	21,000.0
Nebraska	Logan	Corn, Grain, Irrigated - Production, Measured In Bu	4,202,000.0
Nebraska	Logan	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	200.1
Nebraska	Logan	Corn, Irrigated - Acres Planted	21,300.0
Nebraska	Madison	Corn, Grain, Irrigated - Acres Harvested	73,200.0
Nebraska	Madison	Corn, Grain, Irrigated - Production, Measured In Bu	15,305,000.0

State	County	Data Item	Value
Nebraska	Madison	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	209.1
Nebraska	Madison	Corn, Irrigated - Acres Planted	74,000.0
Nebraska	Nemaha	Corn, Grain, Irrigated - Acres Harvested	6,400.0
Nebraska	Nemaha	Corn, Grain, Irrigated - Production, Measured In Bu	1,460,000.0
Nebraska	Nemaha	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	228.1
Nebraska	Nemaha	Corn, Irrigated - Acres Planted	6,500.0
Nebraska	Nuckolls	Corn, Grain, Irrigated - Acres Harvested	45,200.0
Nebraska	Nuckolls	Corn, Grain, Irrigated - Production, Measured In Bu	8,969,000.0
Nebraska	Nuckolls	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	198.4
Nebraska	Nuckolls	Corn, Irrigated - Acres Planted	48,100.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	252,000.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	174,300.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	87,500.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	70,800.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	233,300.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	80,000.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	50,215,000.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	34,677,000.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	15,752,000.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	15,240,000.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	37,773,000.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	16,325,000.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	199.3
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	199.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	180.0
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	215.3
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	161.9
Nebraska	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	204.1
Nebraska	Other (Combined) Counties	Corn, Irrigated - Acres Planted	260,700.0
Nebraska	Other (Combined) Counties	Corn, Irrigated - Acres Planted	176,200.0
Nebraska	Other (Combined) Counties	Corn, Irrigated - Acres Planted	93,800.0
Nebraska	Other (Combined) Counties	Corn, Irrigated - Acres Planted	71,500.0
Nebraska	Other (Combined) Counties	Corn, Irrigated - Acres Planted	253,800.0
Nebraska	Other (Combined) Counties	Corn, Irrigated - Acres Planted	80,900.0
Nebraska	Perkins	Corn, Grain, Irrigated - Acres Harvested	98,000.0
Nebraska	Perkins	Corn, Grain, Irrigated - Production, Measured In Bu	19,167,000.0
Nebraska	Perkins	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	195.6
Nebraska	Perkins	Corn, Irrigated - Acres Planted	101,500.0
Nebraska	Phelps	Corn, Grain, Irrigated - Acres Harvested	161,000.0
Nebraska	Phelps	Corn, Grain, Irrigated - Production, Measured In Bu	33,874,000.0
Nebraska	Phelps	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	210.4
Nebraska	Phelps	Corn, Irrigated - Acres Planted	166,500.0
Nebraska	Pierce	Corn, Grain, Irrigated - Acres Harvested	90,600.0
Nebraska	Pierce	Corn, Grain, Irrigated - Production, Measured In Bu	18,480,000.0
Nebraska	Pierce	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	204.0
Nebraska	Pierce	Corn, Irrigated - Acres Planted	92,000.0
Nebraska	Platte	Corn, Grain, Irrigated - Acres Harvested	139,800.0
Nebraska	Platte	Corn, Grain, Irrigated - Production, Measured In Bu	29,697,000.0
Nebraska	Platte	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	212.4

State	County	Data Item	Value
Nebraska	Platte	Corn, Irrigated - Acres Planted	143,500.0
Nebraska	Polk	Corn, Grain, Irrigated - Acres Harvested	100,800.0
Nebraska	Polk	Corn, Grain, Irrigated - Production, Measured In Bu	19,911,000.0
Nebraska	Polk	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	197.5
Nebraska	Polk	Corn, Irrigated - Acres Planted	111,500.0
Nebraska	Red Willow	Corn, Grain, Irrigated - Acres Harvested	23,200.0
Nebraska	Red Willow	Corn, Grain, Irrigated - Production, Measured In Bu	3,912,000.0
Nebraska	Red Willow	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	168.6
Nebraska	Red Willow	Corn, Irrigated - Acres Planted	26,100.0
Nebraska	Richardson	Corn, Grain, Irrigated - Acres Harvested	5,500.0
Nebraska	Richardson	Corn, Grain, Irrigated - Production, Measured In Bu	1,130,000.0
Nebraska	Richardson	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	205.5
Nebraska	Richardson	Corn, Irrigated - Acres Planted	5,900.0
Nebraska	Sarpy	Corn, Grain, Irrigated - Acres Harvested	5,600.0
Nebraska	Sarpy	Corn, Grain, Irrigated - Production, Measured In Bu	1,170,000.0
Nebraska	Sarpy	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	208.9
Nebraska	Sarpy	Corn, Irrigated - Acres Planted	5,700.0
Nebraska	Saunders	Corn, Grain, Irrigated - Acres Harvested	66,700.0
Nebraska	Saunders	Corn, Grain, Irrigated - Production, Measured In Bu	13,463,000.0
Nebraska	Saunders	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	201.8
Nebraska	Saunders	Corn, Irrigated - Acres Planted	67,600.0
Nebraska	Seward	Corn, Grain, Irrigated - Acres Harvested	85,300.0
Nebraska	Seward	Corn, Grain, Irrigated - Production, Measured In Bu	16,112,000.0
Nebraska	Seward	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	188.9
Nebraska	Seward	Corn, Irrigated - Acres Planted	86,700.0
Nebraska	Sherman	Corn, Grain, Irrigated - Acres Harvested	59,600.0
Nebraska	Sherman	Corn, Grain, Irrigated - Production, Measured In Bu	11,594,000.0
Nebraska	Sherman	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	194.5
Nebraska	Sherman	Corn, Irrigated - Acres Planted	60,200.0
Nebraska	Stanton	Corn, Grain, Irrigated - Acres Harvested	24,500.0
Nebraska	Stanton	Corn, Grain, Irrigated - Production, Measured In Bu	4,920,000.0
Nebraska	Stanton	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	200.8
Nebraska	Stanton	Corn, Irrigated - Acres Planted	25,700.0
Nebraska	Thayer	Corn, Grain, Irrigated - Acres Harvested	104,300.0
Nebraska	Thayer	Corn, Grain, Irrigated - Production, Measured In Bu	21,577,000.0
Nebraska	Thayer	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	206.9
Nebraska	Thayer	Corn, Irrigated - Acres Planted	105,500.0
Nebraska	Valley	Corn, Grain, Irrigated - Acres Harvested	61,800.0
Nebraska	Valley	Corn, Grain, Irrigated - Production, Measured In Bu	11,072,000.0
Nebraska	Valley	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	179.2
Nebraska	Valley	Corn, Irrigated - Acres Planted	65,000.0
Nebraska	Washington	Corn, Grain, Irrigated - Acres Harvested	10,300.0
Nebraska	Washington	Corn, Grain, Irrigated - Production, Measured In Bu	2,192,000.0
Nebraska	Washington	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	212.8
Nebraska	Washington	Corn, Irrigated - Acres Planted	10,600.0
Nebraska	Wayne	Corn, Grain, Irrigated - Acres Harvested	29,100.0
Nebraska	Wayne	Corn, Grain, Irrigated - Production, Measured In Bu	6,183,000.0
Nebraska	Wayne	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	212.5
Nebraska	Wayne	Corn, Irrigated - Acres Planted	30,100.0

State	County	Data Item	Value
Nebraska	Webster	Corn, Grain, Irrigated - Acres Harvested	36,500.0
Nebraska	Webster	Corn, Grain, Irrigated - Production, Measured In Bu	7,275,000.0
Nebraska	Webster	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	199.3
Nebraska	Webster	Corn, Irrigated - Acres Planted	38,500.0
Nebraska	York	Corn, Grain, Irrigated - Acres Harvested	200,000.0
Nebraska	York	Corn, Grain, Irrigated - Production, Measured In Bu	42,671,000.0
Nebraska	York	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	213.4
Nebraska	York	Corn, Irrigated - Acres Planted	203,000.0
Texas	Burleson	Corn, Grain, Irrigated - Acres Harvested	4,500.0
Texas	Burleson	Corn, Grain, Irrigated - Production, Measured In Bu	656,000.0
Texas	Burleson	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	145.8
Texas	Burleson	Corn, Irrigated - Acres Planted	4,700.0
Texas	Lamar	Corn, Grain, Irrigated - Acres Harvested	2,200.0
Texas	Lamar	Corn, Grain, Irrigated - Production, Measured In Bu	326,000.0
Texas	Lamar	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	148.2
Texas	Lamar	Corn, Irrigated - Acres Planted	2,200.0
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	14,000.0
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	9,500.0
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	6,000.0
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	23,200.0
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	17,400.0
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Acres Harvested	9,200.0
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	1,890,000.0
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	1,161,000.0
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	937,000.0
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	3,280,000.0
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	2,517,000.0
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Production, Measured In Bu	1,054,000.0
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	135.0
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	122.2
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	156.2
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	141.4
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	144.7
Texas	Other (Combined) Counties	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	114.6
Texas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	14,200.0
Texas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	9,900.0
Texas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	6,100.0
Texas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	24,800.0
Texas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	21,200.0
Texas	Other (Combined) Counties	Corn, Irrigated - Acres Planted	9,200.0
Texas	Uvalde	Corn, Grain, Irrigated - Acres Harvested	16,300.0
Texas	Uvalde	Corn, Grain, Irrigated - Production, Measured In Bu	2,479,000.0
Texas	Uvalde	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	152.1
Texas	Uvalde	Corn, Irrigated - Acres Planted	16,400.0
Texas	Wharton	Corn, Grain, Irrigated - Acres Harvested	8,900.0
Texas	Wharton	Corn, Grain, Irrigated - Production, Measured In Bu	1,140,000.0
Texas	Wharton	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	128.1
Texas	Wharton	Corn, Irrigated - Acres Planted	8,900.0
Texas	Wilson	Corn, Grain, Irrigated - Acres Harvested	2,300.0



State	County	Data Item	Value
Texas	Wilson	Corn, Grain, Irrigated - Production, Measured In Bu	277,000.0
Texas	Wilson	Corn, Grain, Irrigated - Yield, Measured In Bu / Acre	120.4
Texas	Wilson	Corn, Irrigated - Acres Planted	2,600.0

**Table G3. 2007 County-level Census Data for Peanuts**

State	County	Data Item	Value
Alabama	Bullock	Peanuts, Irrigated - Acres Harvested	(D)
Alabama	Bullock	Peanuts, Irrigated - Operations With Area Harvested	2
Alabama	Dallas	Peanuts, Irrigated - Acres Harvested	407
Alabama	Dallas	Peanuts, Irrigated - Operations With Area Harvested	3
Alabama	Baldwin	Peanuts, Irrigated - Acres Harvested	1,241
Alabama	Baldwin	Peanuts, Irrigated - Operations With Area Harvested	14
Alabama	Escambia	Peanuts, Irrigated - Acres Harvested	(D)
Alabama	Escambia	Peanuts, Irrigated - Operations With Area Harvested	1
Alabama	Blount	Peanuts, Irrigated - Acres Harvested	(D)
Alabama	Blount	Peanuts, Irrigated - Operations With Area Harvested	1
Alabama	De Kalb	Peanuts, Irrigated - Acres Harvested	(D)
Alabama	De Kalb	Peanuts, Irrigated - Operations With Area Harvested	1
Alabama	Chilton	Peanuts, Irrigated - Acres Harvested	(D)
Alabama	Chilton	Peanuts, Irrigated - Operations With Area Harvested	1
Alabama	Fayette	Peanuts, Irrigated - Acres Harvested	(D)
Alabama	Fayette	Peanuts, Irrigated - Operations With Area Harvested	1
Alabama	Barbour	Peanuts, Irrigated - Acres Harvested	(D)
Alabama	Barbour	Peanuts, Irrigated - Operations With Area Harvested	1
Alabama	Coffee	Peanuts, Irrigated - Acres Harvested	1,410
Alabama	Coffee	Peanuts, Irrigated - Operations With Area Harvested	8
Alabama	Dale	Peanuts, Irrigated - Acres Harvested	1,275
Alabama	Dale	Peanuts, Irrigated - Operations With Area Harvested	5
Alabama	Geneva	Peanuts, Irrigated - Acres Harvested	814
Alabama	Geneva	Peanuts, Irrigated - Operations With Area Harvested	11
Alabama	Henry	Peanuts, Irrigated - Acres Harvested	3,116
Alabama	Henry	Peanuts, Irrigated - Operations With Area Harvested	19
Alabama	Houston	Peanuts, Irrigated - Acres Harvested	2,482
Alabama	Houston	Peanuts, Irrigated - Operations With Area Harvested	21
Alabama	Pike	Peanuts, Irrigated - Acres Harvested	250
Alabama	Pike	Peanuts, Irrigated - Operations With Area Harvested	4
Alabama	Russell	Peanuts, Irrigated - Acres Harvested	(D)
Alabama	Russell	Peanuts, Irrigated - Operations With Area Harvested	8
Arkansas	Cross	Peanuts, Irrigated - Acres Harvested	(D)
Arkansas	Cross	Peanuts, Irrigated - Operations With Area Harvested	1
Arkansas	Lee	Peanuts, Irrigated - Acres Harvested	(D)
Arkansas	Lee	Peanuts, Irrigated - Operations With Area Harvested	1
Arkansas	Phillips	Peanuts, Irrigated - Acres Harvested	(D)
Arkansas	Phillips	Peanuts, Irrigated - Operations With Area Harvested	1
Arkansas	Woodruff	Peanuts, Irrigated - Acres Harvested	(D)
Arkansas	Woodruff	Peanuts, Irrigated - Operations With Area Harvested	1
Arkansas	Craighead	Peanuts, Irrigated - Acres Harvested	(D)
Arkansas	Craighead	Peanuts, Irrigated - Operations With Area Harvested	1
Arkansas	Lawrence	Peanuts, Irrigated - Acres Harvested	4,982
Arkansas	Lawrence	Peanuts, Irrigated - Operations With Area Harvested	13
Arkansas	Poinsett	Peanuts, Irrigated - Acres Harvested	2,068
Arkansas	Poinsett	Peanuts, Irrigated - Operations With Area Harvested	3
Arkansas	Randolph	Peanuts, Irrigated - Acres Harvested	2,768
Arkansas	Randolph	Peanuts, Irrigated - Operations With Area Harvested	11

State	County	Data Item	Value
Arkansas	White	Peanuts, Irrigated - Acres Harvested	1,344
Arkansas	White	Peanuts, Irrigated - Operations With Area Harvested	4
California	Fresno	Peanuts, Irrigated - Acres Harvested	20
California	Fresno	Peanuts, Irrigated - Operations With Area Harvested	10
California	Kern	Peanuts, Irrigated - Acres Harvested	(D)
California	Kern	Peanuts, Irrigated - Operations With Area Harvested	3
California	Kings	Peanuts, Irrigated - Acres Harvested	(D)
California	Kings	Peanuts, Irrigated - Operations With Area Harvested	2
Florida	Alachua	Peanuts, Irrigated - Acres Harvested	590
Florida	Alachua	Peanuts, Irrigated - Operations With Area Harvested	5
Florida	Gilchrist	Peanuts, Irrigated - Acres Harvested	3,177
Florida	Gilchrist	Peanuts, Irrigated - Operations With Area Harvested	8
Florida	Levy	Peanuts, Irrigated - Acres Harvested	6,872
Florida	Levy	Peanuts, Irrigated - Operations With Area Harvested	14
Florida	Marion	Peanuts, Irrigated - Acres Harvested	4,986
Florida	Marion	Peanuts, Irrigated - Operations With Area Harvested	12
Florida	Putnam	Peanuts, Irrigated - Acres Harvested	3
Florida	Putnam	Peanuts, Irrigated - Operations With Area Harvested	3
Florida	Sumter	Peanuts, Irrigated - Acres Harvested	315
Florida	Sumter	Peanuts, Irrigated - Operations With Area Harvested	4
Florida	Volusia	Peanuts, Irrigated - Acres Harvested	86
Florida	Volusia	Peanuts, Irrigated - Operations With Area Harvested	4
Florida	Columbia	Peanuts, Irrigated - Acres Harvested	3,070
Florida	Columbia	Peanuts, Irrigated - Operations With Area Harvested	12
Florida	Dixie	Peanuts, Irrigated - Acres Harvested	(D)
Florida	Dixie	Peanuts, Irrigated - Operations With Area Harvested	4
Florida	Hamilton	Peanuts, Irrigated - Acres Harvested	1,131
Florida	Hamilton	Peanuts, Irrigated - Operations With Area Harvested	9
Florida	Lafayette	Peanuts, Irrigated - Acres Harvested	1,800
Florida	Lafayette	Peanuts, Irrigated - Operations With Area Harvested	5
Florida	Madison	Peanuts, Irrigated - Acres Harvested	2,053
Florida	Madison	Peanuts, Irrigated - Operations With Area Harvested	11
Florida	Suwannee	Peanuts, Irrigated - Acres Harvested	6,927
Florida	Suwannee	Peanuts, Irrigated - Operations With Area Harvested	27
Florida	Calhoun	Peanuts, Irrigated - Acres Harvested	470
Florida	Calhoun	Peanuts, Irrigated - Operations With Area Harvested	3
Florida	Escambia	Peanuts, Irrigated - Acres Harvested	1,632
Florida	Escambia	Peanuts, Irrigated - Operations With Area Harvested	7
Florida	Holmes	Peanuts, Irrigated - Acres Harvested	262
Florida	Holmes	Peanuts, Irrigated - Operations With Area Harvested	3
Florida	Jackson	Peanuts, Irrigated - Acres Harvested	6,898
Florida	Jackson	Peanuts, Irrigated - Operations With Area Harvested	29
Florida	Jefferson	Peanuts, Irrigated - Acres Harvested	(D)
Florida	Jefferson	Peanuts, Irrigated - Operations With Area Harvested	1
Florida	Okaloosa	Peanuts, Irrigated - Acres Harvested	(D)
Florida	Okaloosa	Peanuts, Irrigated - Operations With Area Harvested	1
Florida	Santa Rosa	Peanuts, Irrigated - Acres Harvested	(D)
Florida	Santa Rosa	Peanuts, Irrigated - Operations With Area Harvested	3
Florida	Walton	Peanuts, Irrigated - Acres Harvested	(D)

State	County	Data Item	Value
Florida	Walton	Peanuts, Irrigated - Operations With Area Harvested	4
Florida	Washington	Peanuts, Irrigated - Acres Harvested	(D)
Florida	Washington	Peanuts, Irrigated - Operations With Area Harvested	2
Georgia	Bleckley	Peanuts, Irrigated - Acres Harvested	2,656
Georgia	Bleckley	Peanuts, Irrigated - Operations With Area Harvested	16
Georgia	Dodge	Peanuts, Irrigated - Acres Harvested	680
Georgia	Dodge	Peanuts, Irrigated - Operations With Area Harvested	3
Georgia	Houston	Peanuts, Irrigated - Acres Harvested	(D)
Georgia	Houston	Peanuts, Irrigated - Operations With Area Harvested	13
Georgia	Johnson	Peanuts, Irrigated - Acres Harvested	(D)
Georgia	Johnson	Peanuts, Irrigated - Operations With Area Harvested	2
Georgia	Laurens	Peanuts, Irrigated - Acres Harvested	1,815
Georgia	Laurens	Peanuts, Irrigated - Operations With Area Harvested	23
Georgia	Montgomery	Peanuts, Irrigated - Acres Harvested	(D)
Georgia	Montgomery	Peanuts, Irrigated - Operations With Area Harvested	7
Georgia	Peach	Peanuts, Irrigated - Acres Harvested	(D)
Georgia	Peach	Peanuts, Irrigated - Operations With Area Harvested	1
Georgia	Pulaski	Peanuts, Irrigated - Acres Harvested	5,147
Georgia	Pulaski	Peanuts, Irrigated - Operations With Area Harvested	21
Georgia	Treutlen	Peanuts, Irrigated - Acres Harvested	(D)
Georgia	Treutlen	Peanuts, Irrigated - Operations With Area Harvested	1
Georgia	Twiggs	Peanuts, Irrigated - Acres Harvested	(D)
Georgia	Twiggs	Peanuts, Irrigated - Operations With Area Harvested	7
Georgia	Washington	Peanuts, Irrigated - Acres Harvested	2,592
Georgia	Washington	Peanuts, Irrigated - Operations With Area Harvested	18
Georgia	Bulloch	Peanuts, Irrigated - Acres Harvested	1,440
Georgia	Bulloch	Peanuts, Irrigated - Operations With Area Harvested	15
Georgia	Burke	Peanuts, Irrigated - Acres Harvested	4,982
Georgia	Burke	Peanuts, Irrigated - Operations With Area Harvested	28
Georgia	Candler	Peanuts, Irrigated - Acres Harvested	122
Georgia	Candler	Peanuts, Irrigated - Operations With Area Harvested	5
Georgia	Effingham	Peanuts, Irrigated - Acres Harvested	180
Georgia	Effingham	Peanuts, Irrigated - Operations With Area Harvested	6
Georgia	Emanuel	Peanuts, Irrigated - Acres Harvested	661
Georgia	Emanuel	Peanuts, Irrigated - Operations With Area Harvested	9
Georgia	Jefferson	Peanuts, Irrigated - Acres Harvested	2,921
Georgia	Jefferson	Peanuts, Irrigated - Operations With Area Harvested	18
Georgia	Jenkins	Peanuts, Irrigated - Acres Harvested	2,210
Georgia	Jenkins	Peanuts, Irrigated - Operations With Area Harvested	13
Georgia	Screven	Peanuts, Irrigated - Acres Harvested	2,724
Georgia	Screven	Peanuts, Irrigated - Operations With Area Harvested	29
Georgia	Atkinson	Peanuts, Irrigated - Acres Harvested	1,003
Georgia	Atkinson	Peanuts, Irrigated - Operations With Area Harvested	16
Georgia	Ben Hill	Peanuts, Irrigated - Acres Harvested	2,504
Georgia	Ben Hill	Peanuts, Irrigated - Operations With Area Harvested	24
Georgia	Berrien	Peanuts, Irrigated - Acres Harvested	4,608
Georgia	Berrien	Peanuts, Irrigated - Operations With Area Harvested	37
Georgia	Brooks	Peanuts, Irrigated - Acres Harvested	2,949
Georgia	Brooks	Peanuts, Irrigated - Operations With Area Harvested	22

State	County	Data Item	Value
Georgia	Coffee	Peanuts, Irrigated - Acres Harvested	6,949
Georgia	Coffee	Peanuts, Irrigated - Operations With Area Harvested	43
Georgia	Colquitt	Peanuts, Irrigated - Acres Harvested	7,920
Georgia	Colquitt	Peanuts, Irrigated - Operations With Area Harvested	39
Georgia	Cook	Peanuts, Irrigated - Acres Harvested	4,049
Georgia	Cook	Peanuts, Irrigated - Operations With Area Harvested	29
Georgia	Crisp	Peanuts, Irrigated - Acres Harvested	5,184
Georgia	Crisp	Peanuts, Irrigated - Operations With Area Harvested	28
Georgia	Dooly	Peanuts, Irrigated - Acres Harvested	4,809
Georgia	Dooly	Peanuts, Irrigated - Operations With Area Harvested	27
Georgia	Irwin	Peanuts, Irrigated - Acres Harvested	7,932
Georgia	Irwin	Peanuts, Irrigated - Operations With Area Harvested	48
Georgia	Jeff Davis	Peanuts, Irrigated - Acres Harvested	3,170
Georgia	Jeff Davis	Peanuts, Irrigated - Operations With Area Harvested	19
Georgia	Lanier	Peanuts, Irrigated - Acres Harvested	1,258
Georgia	Lanier	Peanuts, Irrigated - Operations With Area Harvested	11
Georgia	Lowndes	Peanuts, Irrigated - Acres Harvested	3,091
Georgia	Lowndes	Peanuts, Irrigated - Operations With Area Harvested	8
Georgia	Telfair	Peanuts, Irrigated - Acres Harvested	39
Georgia	Telfair	Peanuts, Irrigated - Operations With Area Harvested	3
Georgia	Tift	Peanuts, Irrigated - Acres Harvested	5,841
Georgia	Tift	Peanuts, Irrigated - Operations With Area Harvested	34
Georgia	Turner	Peanuts, Irrigated - Acres Harvested	4,349
Georgia	Turner	Peanuts, Irrigated - Operations With Area Harvested	24
Georgia	Wilcox	Peanuts, Irrigated - Acres Harvested	12,240
Georgia	Wilcox	Peanuts, Irrigated - Operations With Area Harvested	59
Georgia	Worth	Peanuts, Irrigated - Acres Harvested	13,991
Georgia	Worth	Peanuts, Irrigated - Operations With Area Harvested	81
Georgia	Appling	Peanuts, Irrigated - Acres Harvested	1,873
Georgia	Appling	Peanuts, Irrigated - Operations With Area Harvested	13
Georgia	Bacon	Peanuts, Irrigated - Acres Harvested	189
Georgia	Bacon	Peanuts, Irrigated - Operations With Area Harvested	4
Georgia	Brantley	Peanuts, Irrigated - Acres Harvested	(D)
Georgia	Brantley	Peanuts, Irrigated - Operations With Area Harvested	2
Georgia	Bryan	Peanuts, Irrigated - Acres Harvested	(D)
Georgia	Bryan	Peanuts, Irrigated - Operations With Area Harvested	1
Georgia	Evans	Peanuts, Irrigated - Acres Harvested	(D)
Georgia	Evans	Peanuts, Irrigated - Operations With Area Harvested	1
Georgia	Pierce	Peanuts, Irrigated - Acres Harvested	3,514
Georgia	Pierce	Peanuts, Irrigated - Operations With Area Harvested	21
Georgia	Tattnall	Peanuts, Irrigated - Acres Harvested	976
Georgia	Tattnall	Peanuts, Irrigated - Operations With Area Harvested	14
Georgia	Toombs	Peanuts, Irrigated - Acres Harvested	1,587
Georgia	Toombs	Peanuts, Irrigated - Operations With Area Harvested	12
Georgia	Ware	Peanuts, Irrigated - Acres Harvested	(D)
Georgia	Ware	Peanuts, Irrigated - Operations With Area Harvested	2
Georgia	Wayne	Peanuts, Irrigated - Acres Harvested	(D)
Georgia	Wayne	Peanuts, Irrigated - Operations With Area Harvested	4
Georgia	Baker	Peanuts, Irrigated - Acres Harvested	10,676

State	County	Data Item	Value
Georgia	Baker	Peanuts, Irrigated - Operations With Area Harvested	43
Georgia	Calhoun	Peanuts, Irrigated - Acres Harvested	5,874
Georgia	Calhoun	Peanuts, Irrigated - Operations With Area Harvested	33
Georgia	Clay	Peanuts, Irrigated - Acres Harvested	1,890
Georgia	Clay	Peanuts, Irrigated - Operations With Area Harvested	5
Georgia	Decatur	Peanuts, Irrigated - Acres Harvested	15,914
Georgia	Decatur	Peanuts, Irrigated - Operations With Area Harvested	59
Georgia	Dougherty	Peanuts, Irrigated - Acres Harvested	995
Georgia	Dougherty	Peanuts, Irrigated - Operations With Area Harvested	4
Georgia	Early	Peanuts, Irrigated - Acres Harvested	12,434
Georgia	Early	Peanuts, Irrigated - Operations With Area Harvested	57
Georgia	Grady	Peanuts, Irrigated - Acres Harvested	1,345
Georgia	Grady	Peanuts, Irrigated - Operations With Area Harvested	10
Georgia	Lee	Peanuts, Irrigated - Acres Harvested	5,456
Georgia	Lee	Peanuts, Irrigated - Operations With Area Harvested	17
Georgia	Miller	Peanuts, Irrigated - Acres Harvested	12,430
Georgia	Miller	Peanuts, Irrigated - Operations With Area Harvested	50
Georgia	Mitchell	Peanuts, Irrigated - Acres Harvested	21,869
Georgia	Mitchell	Peanuts, Irrigated - Operations With Area Harvested	66
Georgia	Randolph	Peanuts, Irrigated - Acres Harvested	7,378
Georgia	Randolph	Peanuts, Irrigated - Operations With Area Harvested	32
Georgia	Seminole	Peanuts, Irrigated - Acres Harvested	10,801
Georgia	Seminole	Peanuts, Irrigated - Operations With Area Harvested	38
Georgia	Stewart	Peanuts, Irrigated - Acres Harvested	2,760
Georgia	Stewart	Peanuts, Irrigated - Operations With Area Harvested	12
Georgia	Sumter	Peanuts, Irrigated - Acres Harvested	12,189
Georgia	Sumter	Peanuts, Irrigated - Operations With Area Harvested	21
Georgia	Terrell	Peanuts, Irrigated - Acres Harvested	6,317
Georgia	Terrell	Peanuts, Irrigated - Operations With Area Harvested	35
Georgia	Thomas	Peanuts, Irrigated - Acres Harvested	1,652
Georgia	Thomas	Peanuts, Irrigated - Operations With Area Harvested	24
Georgia	Webster	Peanuts, Irrigated - Acres Harvested	1,815
Georgia	Webster	Peanuts, Irrigated - Operations With Area Harvested	7
Georgia	Macon	Peanuts, Irrigated - Acres Harvested	(D)
Georgia	Macon	Peanuts, Irrigated - Operations With Area Harvested	4
Georgia	Marion	Peanuts, Irrigated - Acres Harvested	781
Georgia	Marion	Peanuts, Irrigated - Operations With Area Harvested	3
Georgia	Schley	Peanuts, Irrigated - Acres Harvested	(D)
Georgia	Schley	Peanuts, Irrigated - Operations With Area Harvested	1
Georgia	Taylor	Peanuts, Irrigated - Acres Harvested	541
Georgia	Taylor	Peanuts, Irrigated - Operations With Area Harvested	6
Louisiana	Morehouse	Peanuts, Irrigated - Acres Harvested	(D)
Louisiana	Morehouse	Peanuts, Irrigated - Operations With Area Harvested	4
Louisiana	Richland	Peanuts, Irrigated - Acres Harvested	(D)
Louisiana	Richland	Peanuts, Irrigated - Operations With Area Harvested	1
Maryland	St Marys	Peanuts, Irrigated - Acres Harvested	(D)
Maryland	St Marys	Peanuts, Irrigated - Operations With Area Harvested	1
Mississippi	Attala	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Attala	Peanuts, Irrigated - Operations With Area Harvested	1

State	County	Data Item	Value
Mississippi	Carroll	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Carroll	Peanuts, Irrigated - Operations With Area Harvested	2
Mississippi	Holmes	Peanuts, Irrigated - Acres Harvested	1,826
Mississippi	Holmes	Peanuts, Irrigated - Operations With Area Harvested	5
Mississippi	Lowndes	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Lowndes	Peanuts, Irrigated - Operations With Area Harvested	2
Mississippi	Monroe	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Monroe	Peanuts, Irrigated - Operations With Area Harvested	1
Mississippi	Leflore	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Leflore	Peanuts, Irrigated - Operations With Area Harvested	6
Mississippi	Yazoo	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Yazoo	Peanuts, Irrigated - Operations With Area Harvested	1
Mississippi	Calhoun	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Calhoun	Peanuts, Irrigated - Operations With Area Harvested	1
Mississippi	De Soto	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	De Soto	Peanuts, Irrigated - Operations With Area Harvested	1
Mississippi	Panola	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Panola	Peanuts, Irrigated - Operations With Area Harvested	2
Mississippi	Covington	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Covington	Peanuts, Irrigated - Operations With Area Harvested	1
Mississippi	Forrest	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Forrest	Peanuts, Irrigated - Operations With Area Harvested	1
Mississippi	Pearl River	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Pearl River	Peanuts, Irrigated - Operations With Area Harvested	1
Mississippi	Coahoma	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Coahoma	Peanuts, Irrigated - Operations With Area Harvested	8
Mississippi	Quitman	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Quitman	Peanuts, Irrigated - Operations With Area Harvested	1
Mississippi	Tallahatchie	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Tallahatchie	Peanuts, Irrigated - Operations With Area Harvested	1
Mississippi	Tunica	Peanuts, Irrigated - Acres Harvested	(D)
Mississippi	Tunica	Peanuts, Irrigated - Operations With Area Harvested	4
Missouri	Ripley	Peanuts, Irrigated - Acres Harvested	(D)
Missouri	Ripley	Peanuts, Irrigated - Operations With Area Harvested	1
Missouri	Butler	Peanuts, Irrigated - Acres Harvested	(D)
Missouri	Butler	Peanuts, Irrigated - Operations With Area Harvested	1
New Mexico	Roosevelt	Peanuts, Irrigated - Acres Harvested	3,540
New Mexico	Roosevelt	Peanuts, Irrigated - Operations With Area Harvested	7
New Mexico	Lea	Peanuts, Irrigated - Acres Harvested	3,112
New Mexico	Lea	Peanuts, Irrigated - Operations With Area Harvested	14
North Carolina	Greene	Peanuts, Irrigated - Acres Harvested	(D)
North Carolina	Greene	Peanuts, Irrigated - Operations With Area Harvested	1
North Carolina	Pitt	Peanuts, Irrigated - Acres Harvested	(D)
North Carolina	Pitt	Peanuts, Irrigated - Operations With Area Harvested	3
North Carolina	Davidson	Peanuts, Irrigated - Acres Harvested	(D)
North Carolina	Davidson	Peanuts, Irrigated - Operations With Area Harvested	2
North Carolina	Bertie	Peanuts, Irrigated - Acres Harvested	720
North Carolina	Bertie	Peanuts, Irrigated - Operations With Area Harvested	5
North Carolina	Chowan	Peanuts, Irrigated - Acres Harvested	1,173

State	County	Data Item	Value
North Carolina	Chowan	Peanuts, Irrigated - Operations With Area Harvested	15
North Carolina	Edgecombe	Peanuts, Irrigated - Acres Harvested	812
North Carolina	Edgecombe	Peanuts, Irrigated - Operations With Area Harvested	4
North Carolina	Gates	Peanuts, Irrigated - Acres Harvested	386
North Carolina	Gates	Peanuts, Irrigated - Operations With Area Harvested	4
North Carolina	Hertford	Peanuts, Irrigated - Acres Harvested	1,059
North Carolina	Hertford	Peanuts, Irrigated - Operations With Area Harvested	10
North Carolina	Martin	Peanuts, Irrigated - Acres Harvested	(D)
North Carolina	Martin	Peanuts, Irrigated - Operations With Area Harvested	2
North Carolina	Nash	Peanuts, Irrigated - Acres Harvested	122
North Carolina	Nash	Peanuts, Irrigated - Operations With Area Harvested	3
North Carolina	Northampton	Peanuts, Irrigated - Acres Harvested	197
North Carolina	Northampton	Peanuts, Irrigated - Operations With Area Harvested	4
North Carolina	Perquimans	Peanuts, Irrigated - Acres Harvested	67
North Carolina	Perquimans	Peanuts, Irrigated - Operations With Area Harvested	3
North Carolina	Washington	Peanuts, Irrigated - Acres Harvested	(D)
North Carolina	Washington	Peanuts, Irrigated - Operations With Area Harvested	1
Oklahoma	Canadian	Peanuts, Irrigated - Acres Harvested	(D)
Oklahoma	Canadian	Peanuts, Irrigated - Operations With Area Harvested	1
Oklahoma	Cleveland	Peanuts, Irrigated - Acres Harvested	(D)
Oklahoma	Cleveland	Peanuts, Irrigated - Operations With Area Harvested	2
Oklahoma	Creek	Peanuts, Irrigated - Acres Harvested	(D)
Oklahoma	Creek	Peanuts, Irrigated - Operations With Area Harvested	1
Oklahoma	Grady	Peanuts, Irrigated - Acres Harvested	(D)
Oklahoma	Grady	Peanuts, Irrigated - Operations With Area Harvested	2
Oklahoma	Payne	Peanuts, Irrigated - Acres Harvested	(D)
Oklahoma	Payne	Peanuts, Irrigated - Operations With Area Harvested	1
Oklahoma	Hughes	Peanuts, Irrigated - Acres Harvested	472
Oklahoma	Hughes	Peanuts, Irrigated - Operations With Area Harvested	3
Oklahoma	Okmulgee	Peanuts, Irrigated - Acres Harvested	(D)
Oklahoma	Okmulgee	Peanuts, Irrigated - Operations With Area Harvested	1
Oklahoma	Major	Peanuts, Irrigated - Acres Harvested	1,672
Oklahoma	Major	Peanuts, Irrigated - Operations With Area Harvested	12
Oklahoma	Bryan	Peanuts, Irrigated - Acres Harvested	221
Oklahoma	Bryan	Peanuts, Irrigated - Operations With Area Harvested	3
Oklahoma	Love	Peanuts, Irrigated - Acres Harvested	120
Oklahoma	Love	Peanuts, Irrigated - Operations With Area Harvested	3
Oklahoma	Caddo	Peanuts, Irrigated - Acres Harvested	5,484
Oklahoma	Caddo	Peanuts, Irrigated - Operations With Area Harvested	44
Oklahoma	Greer	Peanuts, Irrigated - Acres Harvested	532
Oklahoma	Greer	Peanuts, Irrigated - Operations With Area Harvested	7
Oklahoma	Harmon	Peanuts, Irrigated - Acres Harvested	1,448
Oklahoma	Harmon	Peanuts, Irrigated - Operations With Area Harvested	3
Oklahoma	Kiowa	Peanuts, Irrigated - Acres Harvested	(D)
Oklahoma	Kiowa	Peanuts, Irrigated - Operations With Area Harvested	5
Oklahoma	Tillman	Peanuts, Irrigated - Acres Harvested	(D)
Oklahoma	Tillman	Peanuts, Irrigated - Operations With Area Harvested	2
Oklahoma	Beckham	Peanuts, Irrigated - Acres Harvested	1,848
Oklahoma	Beckham	Peanuts, Irrigated - Operations With Area Harvested	9



State	County	Data Item	Value
Oklahoma	Blaine	Peanuts, Irrigated - Acres Harvested	(D)
Oklahoma	Blaine	Peanuts, Irrigated - Operations With Area Harvested	5
Oklahoma	Custer	Peanuts, Irrigated - Acres Harvested	1,179
Oklahoma	Custer	Peanuts, Irrigated - Operations With Area Harvested	10
Oklahoma	Washita	Peanuts, Irrigated - Acres Harvested	594
Oklahoma	Washita	Peanuts, Irrigated - Operations With Area Harvested	9
South Carolina	Calhoun	Peanuts, Irrigated - Acres Harvested	5,302
South Carolina	Calhoun	Peanuts, Irrigated - Operations With Area Harvested	20
South Carolina	Lee	Peanuts, Irrigated - Acres Harvested	423
South Carolina	Lee	Peanuts, Irrigated - Operations With Area Harvested	4
South Carolina	Lexington	Peanuts, Irrigated - Acres Harvested	(D)
South Carolina	Lexington	Peanuts, Irrigated - Operations With Area Harvested	2
South Carolina	Orangeburg	Peanuts, Irrigated - Acres Harvested	3,047
South Carolina	Orangeburg	Peanuts, Irrigated - Operations With Area Harvested	23
South Carolina	Richland	Peanuts, Irrigated - Acres Harvested	(D)
South Carolina	Richland	Peanuts, Irrigated - Operations With Area Harvested	1
South Carolina	Sumter	Peanuts, Irrigated - Acres Harvested	(D)
South Carolina	Sumter	Peanuts, Irrigated - Operations With Area Harvested	2
South Carolina	Darlington	Peanuts, Irrigated - Acres Harvested	(D)
South Carolina	Darlington	Peanuts, Irrigated - Operations With Area Harvested	3
South Carolina	Florence	Peanuts, Irrigated - Acres Harvested	(D)
South Carolina	Florence	Peanuts, Irrigated - Operations With Area Harvested	2
South Carolina	Horry	Peanuts, Irrigated - Acres Harvested	758
South Carolina	Horry	Peanuts, Irrigated - Operations With Area Harvested	3
South Carolina	Marlboro	Peanuts, Irrigated - Acres Harvested	(D)
South Carolina	Marlboro	Peanuts, Irrigated - Operations With Area Harvested	1
South Carolina	Williamsburg	Peanuts, Irrigated - Acres Harvested	(D)
South Carolina	Williamsburg	Peanuts, Irrigated - Operations With Area Harvested	2
South Carolina	Allendale	Peanuts, Irrigated - Acres Harvested	622
South Carolina	Allendale	Peanuts, Irrigated - Operations With Area Harvested	5
South Carolina	Bamberg	Peanuts, Irrigated - Acres Harvested	343
South Carolina	Bamberg	Peanuts, Irrigated - Operations With Area Harvested	9
South Carolina	Barnwell	Peanuts, Irrigated - Acres Harvested	352
South Carolina	Barnwell	Peanuts, Irrigated - Operations With Area Harvested	5
South Carolina	Colleton	Peanuts, Irrigated - Acres Harvested	580
South Carolina	Colleton	Peanuts, Irrigated - Operations With Area Harvested	3
South Carolina	Hampton	Peanuts, Irrigated - Acres Harvested	1,024
South Carolina	Hampton	Peanuts, Irrigated - Operations With Area Harvested	9
South Carolina	Aiken	Peanuts, Irrigated - Acres Harvested	(D)
South Carolina	Aiken	Peanuts, Irrigated - Operations With Area Harvested	1
Tennessee	Giles	Peanuts, Irrigated - Acres Harvested	(D)
Tennessee	Giles	Peanuts, Irrigated - Operations With Area Harvested	1
Texas	Mclennan	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Mclennan	Peanuts, Irrigated - Operations With Area Harvested	2
Texas	Brown	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Brown	Peanuts, Irrigated - Operations With Area Harvested	2
Texas	Comanche	Peanuts, Irrigated - Acres Harvested	661
Texas	Comanche	Peanuts, Irrigated - Operations With Area Harvested	11
Texas	Eastland	Peanuts, Irrigated - Acres Harvested	240

State	County	Data Item	Value
Texas	Eastland	Peanuts, Irrigated - Operations With Area Harvested	3
Texas	Erath	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Erath	Peanuts, Irrigated - Operations With Area Harvested	1
Texas	Montague	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Montague	Peanuts, Irrigated - Operations With Area Harvested	1
Texas	Kimble	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Kimble	Peanuts, Irrigated - Operations With Area Harvested	1
Texas	Lampasas	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Lampasas	Peanuts, Irrigated - Operations With Area Harvested	1
Texas	Mason	Peanuts, Irrigated - Acres Harvested	294
Texas	Mason	Peanuts, Irrigated - Operations With Area Harvested	4
Texas	Uvalde	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Uvalde	Peanuts, Irrigated - Operations With Area Harvested	1
Texas	Armstrong	Peanuts, Irrigated - Acres Harvested	470
Texas	Armstrong	Peanuts, Irrigated - Operations With Area Harvested	3
Texas	Briscoe	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Briscoe	Peanuts, Irrigated - Operations With Area Harvested	1
Texas	Parmer	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Parmer	Peanuts, Irrigated - Operations With Area Harvested	2
Texas	Childress	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Childress	Peanuts, Irrigated - Operations With Area Harvested	1
Texas	Collingsworth	Peanuts, Irrigated - Acres Harvested	4,687
Texas	Collingsworth	Peanuts, Irrigated - Operations With Area Harvested	21
Texas	Donley	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Donley	Peanuts, Irrigated - Operations With Area Harvested	12
Texas	Foard	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Foard	Peanuts, Irrigated - Operations With Area Harvested	1
Texas	Hall	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Hall	Peanuts, Irrigated - Operations With Area Harvested	2
Texas	Hardeman	Peanuts, Irrigated - Acres Harvested	92
Texas	Hardeman	Peanuts, Irrigated - Operations With Area Harvested	3
Texas	Wilbarger	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Wilbarger	Peanuts, Irrigated - Operations With Area Harvested	14
Texas	Lavaca	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Lavaca	Peanuts, Irrigated - Operations With Area Harvested	2
Texas	Medina	Peanuts, Irrigated - Acres Harvested	1,336
Texas	Medina	Peanuts, Irrigated - Operations With Area Harvested	7
Texas	Wilson	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Wilson	Peanuts, Irrigated - Operations With Area Harvested	4
Texas	Atascosa	Peanuts, Irrigated - Acres Harvested	3,894
Texas	Atascosa	Peanuts, Irrigated - Operations With Area Harvested	20
Texas	Frio	Peanuts, Irrigated - Acres Harvested	16,074
Texas	Frio	Peanuts, Irrigated - Operations With Area Harvested	22
Texas	La Salle	Peanuts, Irrigated - Acres Harvested	(D)
Texas	La Salle	Peanuts, Irrigated - Operations With Area Harvested	2
Texas	Maverick	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Maverick	Peanuts, Irrigated - Operations With Area Harvested	2
Texas	Andrews	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Andrews	Peanuts, Irrigated - Operations With Area Harvested	5

State	County	Data Item	Value
Texas	Bailey	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Bailey	Peanuts, Irrigated - Operations With Area Harvested	11
Texas	Cochran	Peanuts, Irrigated - Acres Harvested	9,745
Texas	Cochran	Peanuts, Irrigated - Operations With Area Harvested	21
Texas	Crosby	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Crosby	Peanuts, Irrigated - Operations With Area Harvested	1
Texas	Dawson	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Dawson	Peanuts, Irrigated - Operations With Area Harvested	6
Texas	Gaines	Peanuts, Irrigated - Acres Harvested	38,725
Texas	Gaines	Peanuts, Irrigated - Operations With Area Harvested	89
Texas	Hockley	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Hockley	Peanuts, Irrigated - Operations With Area Harvested	2
Texas	Lamb	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Lamb	Peanuts, Irrigated - Operations With Area Harvested	10
Texas	Lubbock	Peanuts, Irrigated - Acres Harvested	977
Texas	Lubbock	Peanuts, Irrigated - Operations With Area Harvested	7
Texas	Lynn	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Lynn	Peanuts, Irrigated - Operations With Area Harvested	1
Texas	Terry	Peanuts, Irrigated - Acres Harvested	11,469
Texas	Terry	Peanuts, Irrigated - Operations With Area Harvested	51
Texas	Yoakum	Peanuts, Irrigated - Acres Harvested	16,052
Texas	Yoakum	Peanuts, Irrigated - Operations With Area Harvested	55
Texas	Haskell	Peanuts, Irrigated - Acres Harvested	1,616
Texas	Haskell	Peanuts, Irrigated - Operations With Area Harvested	12
Texas	Jones	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Jones	Peanuts, Irrigated - Operations With Area Harvested	2
Texas	Knox	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Knox	Peanuts, Irrigated - Operations With Area Harvested	2
Texas	Ector	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Ector	Peanuts, Irrigated - Operations With Area Harvested	1
Texas	El Paso	Peanuts, Irrigated - Acres Harvested	14
Texas	El Paso	Peanuts, Irrigated - Operations With Area Harvested	9
Texas	Pecos	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Pecos	Peanuts, Irrigated - Operations With Area Harvested	2
Texas	Reeves	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Reeves	Peanuts, Irrigated - Operations With Area Harvested	1
Texas	Liberty	Peanuts, Irrigated - Acres Harvested	(D)
Texas	Liberty	Peanuts, Irrigated - Operations With Area Harvested	2
Virginia	Dinwiddie	Peanuts, Irrigated - Acres Harvested	(D)
Virginia	Dinwiddie	Peanuts, Irrigated - Operations With Area Harvested	1
Virginia	Isle Of Wight	Peanuts, Irrigated - Acres Harvested	(D)
Virginia	Isle Of Wight	Peanuts, Irrigated - Operations With Area Harvested	1
Virginia	Southampton	Peanuts, Irrigated - Acres Harvested	308
Virginia	Southampton	Peanuts, Irrigated - Operations With Area Harvested	4
Virginia	Surry	Peanuts, Irrigated - Acres Harvested	224
Virginia	Surry	Peanuts, Irrigated - Operations With Area Harvested	3
Virginia	Sussex	Peanuts, Irrigated - Acres Harvested	(D)
Virginia	Sussex	Peanuts, Irrigated - Operations With Area Harvested	1

**Table G4. 2007 Survey Peanut Data**

State	County	Data Item	Value
Texas	Collingsworth	Peanuts, Irrigated - Acres Harvested	10,800
Texas	Collingsworth	Peanuts, Irrigated - Acres Planted	10,800
Texas	Collingsworth	Peanuts, Irrigated - Production, Measured In Lb	33,804,000
Texas	Collingsworth	Peanuts, Irrigated - Yield, Measured In Lb / Acre	3,130
Texas	Other (Combined) Counties	Peanuts, Irrigated - Acres Harvested	6,800
Texas	Other (Combined) Counties	Peanuts, Irrigated - Acres Planted	6,900
Texas	Other (Combined) Counties	Peanuts, Irrigated - Production, Measured In Lb	21,765,000
Texas	Other (Combined) Counties	Peanuts, Irrigated - Yield, Measured In Lb / Acre	3,200
Texas	Wilbarger	Peanuts, Irrigated - Acres Harvested	2,500
Texas	Wilbarger	Peanuts, Irrigated - Acres Planted	2,500
Texas	Wilbarger	Peanuts, Irrigated - Production, Measured In Lb	7,578,000
Texas	Wilbarger	Peanuts, Irrigated - Yield, Measured In Lb / Acre	3,030
Texas	Bailey	Peanuts, Irrigated - Acres Harvested	3,000
Texas	Bailey	Peanuts, Irrigated - Acres Planted	3,000
Texas	Bailey	Peanuts, Irrigated - Production, Measured In Lb	8,409,000
Texas	Bailey	Peanuts, Irrigated - Yield, Measured In Lb / Acre	2,800
Texas	Other (Combined) Counties	Peanuts, Irrigated - Acres Harvested	123,900
Texas	Other (Combined) Counties	Peanuts, Irrigated - Acres Planted	125,200
Texas	Other (Combined) Counties	Peanuts, Irrigated - Production, Measured In Lb	503,390,000
Texas	Other (Combined) Counties	Peanuts, Irrigated - Yield, Measured In Lb / Acre	4,060
Texas	Haskell	Peanuts, Irrigated - Acres Harvested	8,100
Texas	Haskell	Peanuts, Irrigated - Acres Planted	8,500
Texas	Haskell	Peanuts, Irrigated - Production, Measured In Lb	28,156,000
Texas	Haskell	Peanuts, Irrigated - Yield, Measured In Lb / Acre	3,480
Texas	Other (Combined) Counties	Peanuts, Irrigated - Acres Harvested	500
Texas	Other (Combined) Counties	Peanuts, Irrigated - Acres Planted	600
Texas	Other (Combined) Counties	Peanuts, Irrigated - Production, Measured In Lb	1,738,000
Texas	Other (Combined) Counties	Peanuts, Irrigated - Yield, Measured In Lb / Acre	3,480

**Table G5. FRIS Respondents for All County/Crop Combinations**

State	County	Crop	Number of Respondents
Washington	Grant	Wheat	95
Delaware	Sussex	Corn for Grain	82
Mississippi	Bolivar	Soybeans	82
Missouri	New Madrid	Soybeans	80
Illinois	Mason	Corn for Grain	80
Missouri	Stoddard	Soybeans	79
Michigan	St Joseph	Corn for Grain	69
Missouri	New Madrid	Corn for Grain	68
Delaware	Sussex	Soybeans	68
Missouri	Stoddard	Corn for Grain	67
Mississippi	Washington	Soybeans	64
Mississippi	Bolivar	Rice	61
Iowa	Monona	Corn for Grain	61
Michigan	St Joseph	Soybeans	60
Iowa	Monona	Soybeans	60
Nevada	Elko	Alfalfa	59
Illinois	Mason	Soybeans	57
Mississippi	Sunflower	Soybeans	57
Mississippi	Leflore	Soybeans	56
Missouri	New Madrid	Peanuts	53
Washington	Grant	Corn for Grain	52
Louisiana	Acadia	Rice	52
Oklahoma	Texas	Wheat	51
Minnesota	Dakota	Corn for Grain	50
Missouri	Butler	Soybeans	48
Arizona	Pinal	Peanuts	47
Missouri	Dunklin	Soybeans	46
Arkansas	Arkansas	Soybeans	46
Missouri	Butler	Rice	45
Maryland	Caroline	Corn for Grain	45
Illinois	Whiteside	Corn for Grain	45
Arkansas	Arkansas	Rice	44
Louisiana	Jefferson Davis	Rice	44
Idaho	Bingham	Wheat	43
Maryland	Caroline	Soybeans	43
Mississippi	Coahoma	Soybeans	42
Minnesota	Stearns	Corn for Grain	42
Louisiana	Vermilion	Rice	42
Mississippi	Washington	Corn for Grain	41
Oklahoma	Texas	Corn for Grain	41
Minnesota	Dakota	Soybeans	41
California	Imperial	Other Small Grains	41
California	Imperial	Wheat	41
Washington	Franklin	Wheat	41
Colorado	Yuma	Corn for Grain	39
Wisconsin	Portage	Corn for Grain	38
Missouri	Pemiscot	Soybeans	38

State	County	Crop	Number of Respondents
Missouri	Mississippi	Corn for Grain	38
Missouri	Dunklin	Peanuts	37
Louisiana	East Carroll	Soybeans	37
Delaware	Sussex	Wheat	36
Mississippi	Leflore	Corn for Grain	36
Arizona	Yuma	Wheat	36
Minnesota	Otter Tail	Corn for Grain	36
Missouri	Scott	Corn for Grain	35
Indiana	La Porte	Corn for Grain	35
Missouri	Stoddard	Rice	34
Louisiana	Morehouse	Corn for Grain	34
Mississippi	Bolivar	Corn for Grain	33
Idaho	Twin Falls	Other Small Grains	33
Delaware	Kent	Corn for Grain	33
Missouri	Mississippi	Soybeans	33
Oregon	Klamath	Alfalfa	33
Wyoming	Sublette	Alfalfa	33
Arizona	Pinal	Wheat	32
Mississippi	Leflore	Peanuts	32
Mississippi	Coahoma	Corn for Grain	32
Colorado	Weld	Other Small Grains	32
Mississippi	Sunflower	Rice	31
Texas	Gaines	Other Hay	31
Louisiana	Morehouse	Soybeans	31
Delaware	Kent	Soybeans	31
Missouri	Scott	Soybeans	31
Montana	Beaverhead	Alfalfa	31
Washington	Grant	Alfalfa	30
Mississippi	Sunflower	Corn for Grain	30
Louisiana	East Carroll	Corn for Grain	30
Mississippi	Tallahatchie	Soybeans	30
Illinois	Tazewell	Corn for Grain	30
Idaho	Bingham	Lettuce	29
California	Imperial	Alfalfa	29
Texas	Gaines	Peanuts	29
Idaho	Jefferson	Other Small Grains	29
Maryland	Dorchester	Corn for Grain	29
Michigan	Montcalm	Corn for Grain	29
Arkansas	Poinsett	Soybeans	29
Oregon	Lake	Alfalfa	29
Washington	Grant	Tobacco	28
Wisconsin	Portage	Tobacco	28
Arkansas	Phillips	Soybeans	28
Arkansas	Poinsett	Rice	28
Michigan	Kalamazoo	Corn for Grain	28
Louisiana	Franklin	Corn for Grain	28
Oregon	Harney	Alfalfa	28
Washington	Grant	Lettuce	27

State	County	Crop	Number of Respondents
Idaho	Jerome	Other Small Grains	27
Kansas	Finney	Corn for Grain	27
South Dakota	Union	Corn for Grain	27
Indiana	Knox	Corn for Grain	27
Missouri	Stoddard	Peanuts	26
Mississippi	Washington	Rice	26
Idaho	Bingham	Other Small Grains	26
California	Fresno	Peanuts	26
Indiana	La Porte	Soybeans	26
South Dakota	Union	Soybeans	26
Indiana	Elkhart	Corn for Grain	26
Oklahoma	Cimarron	Wheat	26
Missouri	Butler	Corn for Grain	25
Arizona	Maricopa	Wheat	25
Oregon	Malheur	Wheat	25
Maryland	Dorchester	Soybeans	25
Minnesota	Otter Tail	Soybeans	25
Kansas	Finney	Wheat	25
Arkansas	Mississippi	Soybeans	25
Minnesota	Sherburne	Corn for Grain	25
Indiana	Lagrange	Corn for Grain	25
Michigan	Branch	Corn for Grain	25
Iowa	Harrison	Corn for Grain	25
Minnesota	Swift	Corn for Grain	25
Washington	Grant	Beans	24
Missouri	New Madrid	Rice	24
Arizona	Pinal	Barley	24
Mississippi	Coahoma	Peanuts	24
Idaho	Jefferson	Wheat	24
Illinois	Whiteside	Soybeans	24
Indiana	Knox	Soybeans	24
Arkansas	Lonoke	Soybeans	24
Indiana	Kosciusko	Corn for Grain	24
Illinois	Cass	Corn for Grain	24
Washington	Franklin	Corn for Grain	23
Arkansas	Lonoke	Rice	23
Minnesota	Stevens	Corn for Grain	23
Mississippi	Quitman	Soybeans	23
Washington	Adams	Wheat	23
Idaho	Gooding	Corn for Silage	23
Missouri	Dunklin	Corn for Grain	22
Idaho	Twin Falls	Barley	22
Idaho	Twin Falls	Wheat	22
Louisiana	Morehouse	Rice	22
Oregon	Malheur	Corn for Grain	22
Texas	Hale	Peanuts	22
Mississippi	Tunica	Soybeans	22
Washington	Yakima	Corn for Silage	22

State	County	Crop	Number of Respondents
Washington	Yakima	Wheat	22
Arkansas	Craighead	Soybeans	22
Mississippi	Humphreys	Soybeans	22
Indiana	Lagrange	Soybeans	22
Michigan	Branch	Soybeans	22
Iowa	Harrison	Soybeans	22
Utah	Box Elder	Wheat	22
Michigan	Cass	Corn for Grain	22
New Mexico	Curry	Corn for Silage	22
Utah	Sanpete	Other Small Grains	22
Utah	Duchesne	Alfalfa	22
Missouri	Pemiscot	Corn for Grain	21
Missouri	Pemiscot	Rice	21
Arizona	Maricopa	Alfalfa	21
Minnesota	Stearns	Soybeans	21
Minnesota	Sherburne	Soybeans	21
Arkansas	Clay	Soybeans	21
Idaho	Canyon	Wheat	21
Oregon	Umatilla	Other Small Grains	21
Texas	Castro	Corn for Grain	21
Louisiana	Richland	Corn for Grain	21
Maryland	Queen Annes	Soybeans	21
Arkansas	Woodruff	Soybeans	21
California	Kings	Wheat	21
California	Kern	Wheat	21
Oregon	Baker	Alfalfa	21
Louisiana	Evangeline	Rice	21
Arizona	Pinal	Corn for Silage	20
Oklahoma	Texas	Grain Sirghum	20
Colorado	Weld	Corn for Silage	20
Idaho	Jefferson	Barley	20
Kansas	Haskell	Corn for Grain	20
Mississippi	Humphreys	Corn for Grain	20
Oregon	Umatilla	Wheat	20
Kansas	Gray	Corn for Grain	20
Illinois	Tazewell	Soybeans	20
Minnesota	Swift	Soybeans	20
Maryland	Queen Annes	Corn for Grain	20
California	Tulare	Corn for Silage	20
Texas	Parmer	Wheat	20
Montana	Madison	Other Small Grains	20
Illinois	Lee	Corn for Grain	20
Wyoming	Uinta	Alfalfa	20
Iowa	Louisa	Corn for Grain	20
Washington	Franklin	Alfalfa	19
Texas	Gaines	Grain Sirghum	19
Idaho	Cassia	Wheat	19
California	Fresno	Wheat	19



State	County	Crop	Number of Respondents
Arkansas	Desha	Soybeans	19
Arkansas	Mississippi	Peanuts	19
North Dakota	Mckenzie	Wheat	19
Idaho	Canyon	Other Small Grains	19
Montana	Teton	Barley	19
Colorado	Prowers	Other Small Grains	19
Michigan	Kalamazoo	Soybeans	19
Indiana	Kosciusko	Soybeans	19
Arkansas	Woodruff	Rice	19
Arkansas	Cross	Rice	19
Nebraska	Holt	Corn for Grain	19
Nevada	Eureka	Other Small Grains	19
South Carolina	Orangeburg	Corn for Grain	19
Iowa	Sioux	Corn for Grain	19
Arizona	Pinal	Grain Sirghum	18
Washington	Franklin	Lettuce	18
Wisconsin	Portage	Lettuce	18
Minnesota	Stearns	Other Small Grains	18
Idaho	Jerome	Wheat	18
North Dakota	Mckenzie	Cotton	18
Kansas	Gray	Wheat	18
Louisiana	Franklin	Soybeans	18
California	Kings	Corn for Silage	18
Arkansas	Cross	Soybeans	18
Kansas	Stevens	Corn for Grain	18
Arkansas	Lawrence	Rice	18
California	Colusa	Rice	18
Idaho	Owyhee	Other Small Grains	18
Louisiana	St Landry	Rice	18
Arizona	Pinal	Alfalfa	17
Idaho	Bingham	Cotton	17
Arizona	Maricopa	Corn for Silage	17
Texas	Hale	Grain Sirghum	17
Texas	Hale	Wheat	17
Arkansas	Phillips	Rice	17
Arkansas	Phillips	Corn for Grain	17
Arkansas	Craighead	Rice	17
Arkansas	Clay	Corn for Grain	17
Montana	Teton	Other Small Grains	17
Idaho	Bonneville	Barley	17
Indiana	Elkhart	Soybeans	17
Michigan	Cass	Soybeans	17
Arkansas	Jefferson	Soybeans	17
Arkansas	Jefferson	Rice	17
South Dakota	Butte	Alfalfa	17
New Mexico	Union	Wheat	17
Mississippi	Sharkey	Corn for Grain	17
Arkansas	Jackson	Rice	17

State	County	Crop	Number of Respondents
Iowa	Muscatine	Corn for Grain	17
Idaho	Madison	Wheat	17
California	Merced	Corn for Silage	17
Oregon	Jefferson	Wheat	17
Oklahoma	Beaver	Wheat	17
Colorado	Kit Carson	Corn for Grain	17
North Dakota	Ransom	Corn for Grain	17
Washington	Grant	Corn for Silage	16
Delaware	Sussex	Tobacco	16
Mississippi	Leflore	Rice	16
Idaho	Twin Falls	Beans	16
Missouri	Pemiscot	Peanuts	16
Colorado	Weld	Wheat	16
Arizona	Yuma	Alfalfa	16
Arizona	Yuma	Tomatoes	16
Colorado	Yuma	Wheat	16
Michigan	Montcalm	Wheat	16
Texas	Hale	Corn for Grain	16
California	Fresno	Corn for Silage	16
Mississippi	Tallahatchie	Rice	16
Arkansas	Desha	Corn for Grain	16
Texas	Lamb	Peanuts	16
Idaho	Minidoka	Cotton	16
North Dakota	Mckenzie	Barley	16
Idaho	Bonneville	Other Small Grains	16
Colorado	Prowers	Corn for Grain	16
Minnesota	Stevens	Soybeans	16
California	Tulare	Alfalfa	16
South Dakota	Butte	Corn for Grain	16
New Jersey	Salem	Corn for Grain	16
New Jersey	Salem	Soybeans	16
Louisiana	Madison	Soybeans	16
Minnesota	Pope	Corn for Grain	16
Indiana	Pulaski	Corn for Grain	16
Arkansas	Monroe	Soybeans	16
Texas	Hartley	Corn for Grain	16
Texas	Hidalgo	Grain Sirghum	16
Mississippi	Yazoo	Corn for Grain	16
Louisiana	West Carroll	Soybeans	16
Wisconsin	Dunn	Corn for Grain	16
Arkansas	Chicot	Soybeans	16
Wisconsin	Waushara	Corn for Grain	16
Oklahoma	Caddo	Wheat	16
Utah	Rich	Alfalfa	16
Montana	Ravalli	Alfalfa	16
California	San Joaquin	Other Small Grains	16
Texas	Gaines	Wheat	15
Arizona	Maricopa	Barley	15

State	County	Crop	Number of Respondents
Arizona	Maricopa	Peanuts	15
Oregon	Malheur	Cotton	15
Maryland	Dorchester	Tobacco	15
Idaho	Cassia	Lettuce	15
Idaho	Cassia	Barley	15
Arkansas	Mississippi	Rice	15
Texas	Lamb	Grain Sirghum	15
Texas	Lamb	Corn for Grain	15
Idaho	Minidoka	Barley	15
Kansas	Haskell	Wheat	15
Arkansas	Craighead	Peanuts	15
Arkansas	Clay	Rice	15
Montana	Teton	Wheat	15
Idaho	Bonneville	Wheat	15
Colorado	Logan	Other Small Grains	15
Nebraska	Holt	Soybeans	15
New Mexico	Union	Corn for Grain	15
Mississippi	Sharkey	Soybeans	15
Louisiana	Madison	Corn for Grain	15
Texas	Sherman	Corn for Grain	15
Texas	Sherman	Wheat	15
Illinois	Henderson	Corn for Grain	15
Wisconsin	Adams	Corn for Grain	15
Indiana	Fulton	Corn for Grain	15
New Mexico	Chaves	Corn for Silage	15
Minnesota	Wadena	Corn for Grain	15
Tennessee	Dyer	Soybeans	15
Nevada	Humboldt	Alfalfa	15
Texas	Crosby	Peanuts	15
South Dakota	Turner	Corn for Grain	15
Arkansas	Crittenden	Soybeans	15
Georgia	Miller	Peanuts	15
Iowa	Palo Alto	Corn for Grain	15
Oregon	Union	Wheat	15
Wyoming	Big Horn	Barley	15
Idaho	Jefferson	Lettuce	14
Arizona	Yuma	Peanuts	14
Colorado	Yuma	Beans	14
Idaho	Jerome	Corn for Silage	14
Michigan	Montcalm	Lettuce	14
Mississippi	Tallahatchie	Corn for Grain	14
Mississippi	Tunica	Corn for Grain	14
Arkansas	Desha	Peanuts	14
Idaho	Minidoka	Lettuce	14
Idaho	Minidoka	Wheat	14
Texas	Castro	Wheat	14
Louisiana	Richland	Soybeans	14
Oklahoma	Cimarron	Corn for Grain	14

State	County	Crop	Number of Respondents
Idaho	Power	Wheat	14
Idaho	Power	Lettuce	14
Colorado	Logan	Corn for Grain	14
Louisiana	Tensas	Corn for Grain	14
Nevada	Eureka	Alfalfa	14
Kansas	Stevens	Wheat	14
Arkansas	Lawrence	Soybeans	14
Minnesota	Pope	Soybeans	14
Nebraska	Hamilton	Corn for Grain	14
Nebraska	Hamilton	Soybeans	14
Kansas	Pratt	Corn for Grain	14
Kansas	Pratt	Soybeans	14
Texas	Hansford	Corn for Grain	14
Texas	Hansford	Wheat	14
Arkansas	Prairie	Soybeans	14
Arkansas	Prairie	Rice	14
Nebraska	Fillmore	Corn for Grain	14
Indiana	Bartholomew	Corn for Grain	14
Indiana	Starke	Corn for Grain	14
Montana	Powell	Alfalfa	14
Minnesota	Morrison	Corn for Grain	14
Illinois	Bureau	Corn for Grain	14
Nebraska	Lincoln	Corn for Grain	14
Wisconsin	Sauk	Corn for Grain	14
Wisconsin	Langlade	Lettuce	14
Montana	Gallatin	Wheat	14
Texas	Floyd	Peanuts	14
Idaho	Bingham	Barley	13
Minnesota	Dakota	Tobacco	13
Louisiana	East Carroll	Rice	13
Oregon	Malheur	Corn for Silage	13
Michigan	Montcalm	Beans	13
Kansas	Finney	Other Small Grains	13
Idaho	Cassia	Corn for Silage	13
Mississippi	Tunica	Rice	13
Texas	Lamb	Wheat	13
Kansas	Gray	Soybeans	13
Texas	Castro	Peanuts	13
Colorado	Prowers	Wheat	13
Mississippi	Quitman	Rice	13
Utah	Cache	Barley	13
New Mexico	Curry	Alfalfa	13
California	Kern	Peanuts	13
California	Colusa	Wheat	13
Arkansas	Jackson	Soybeans	13
Indiana	Pulaski	Soybeans	13
Arkansas	Monroe	Rice	13
Texas	Hartley	Wheat	13

State	County	Crop	Number of Respondents
Nebraska	Phelps	Corn for Grain	13
Nebraska	Phelps	Soybeans	13
Arkansas	Greene	Soybeans	13
Michigan	Calhoun	Corn for Grain	13
South Dakota	Spink	Corn for Grain	13
Nebraska	Kearney	Corn for Grain	13
Arkansas	Lee	Soybeans	13
Indiana	Porter	Corn for Grain	13
Montana	Pondera	Other Small Grains	13
Washington	Walla Walla	Wheat	13
Utah	Beaver	Other Small Grains	13
Nebraska	Scotts Bluff	Corn for Grain	13
Utah	Millard	Corn for Silage	13
Illinois	Gallatin	Corn for Grain	13
Texas	Deaf Smith	Wheat	13
Minnesota	Todd	Corn for Grain	13
Tennessee	Robertson	Sugar Beets	13
Minnesota	Dakota	Corn for Silage	12
Maryland	Caroline	Wheat	12
Maryland	Caroline	Tobacco	12
Wisconsin	Portage	Corn for Silage	12
Colorado	Yuma	Other Small Grains	12
Idaho	Jerome	Barley	12
Idaho	Canyon	Corn for Grain	12
Louisiana	Richland	Peanuts	12
Oregon	Klamath	Wheat	12
Utah	Box Elder	Alfalfa	12
Louisiana	Tensas	Peanuts	12
Utah	Cache	Wheat	12
New Mexico	Roosevelt	Corn for Silage	12
New Mexico	Roosevelt	Alfalfa	12
Iowa	Muscatine	Soybeans	12
Texas	Hidalgo	Corn for Grain	12
Mississippi	Yazoo	Soybeans	12
Illinois	Henderson	Soybeans	12
Nebraska	Fillmore	Soybeans	12
Arkansas	Greene	Rice	12
Mississippi	Holmes	Soybeans	12
North Dakota	Williams	Wheat	12
Nebraska	Dawson	Corn for Grain	12
Iowa	Woodbury	Corn for Grain	12
California	Glenn	Rice	12
Arizona	La Paz	Wheat	12
Nevada	Pershing	Alfalfa	12
Kansas	Meade	Corn for Grain	12
Pennsylvania	Lancaster	Sweet Corn	12
Arkansas	St Francis	Soybeans	12
Colorado	Morgan	Corn for Grain	12

State	County	Crop	Number of Respondents
Nebraska	Buffalo	Corn for Grain	12
Indiana	St Joseph	Corn for Grain	12
Oklahoma	Harmon	Peanuts	12
Colorado	Rio Grande	Barley	12
Minnesota	Kandiyohi	Corn for Grain	12
Wyoming	Park	Barley	12
Indiana	Marshall	Corn for Grain	12
Texas	Terry	Peanuts	12
Illinois	Henry	Corn for Grain	12
Mississippi	Coahoma	Rice	11
Idaho	Twin Falls	Tobacco	11
Louisiana	East Carroll	Peanuts	11
Colorado	Weld	Cotton	11
Oregon	Malheur	Alfalfa	11
Delaware	Kent	Wheat	11
Mississippi	Tunica	Peanuts	11
Arkansas	Desha	Rice	11
Kansas	Haskell	Grain Sirghum	11
Kansas	Haskell	Soybeans	11
Minnesota	Sherburne	Lettuce	11
Idaho	Power	Cotton	11
Louisiana	Tensas	Soybeans	11
Utah	Cache	Corn for Silage	11
Utah	Sanpete	Alfalfa	11
Texas	Parmer	Grain Sirghum	11
Idaho	Madison	Lettuce	11
Louisiana	West Carroll	Corn for Grain	11
Wisconsin	Adams	Soybeans	11
Indiana	Fulton	Soybeans	11
New Mexico	Chaves	Alfalfa	11
Minnesota	Wadena	Soybeans	11
Indiana	Bartholomew	Soybeans	11
Michigan	Calhoun	Soybeans	11
South Dakota	Spink	Soybeans	11
Nebraska	Kearney	Soybeans	11
Mississippi	Holmes	Corn for Grain	11
Nebraska	Polk	Corn for Grain	11
New Jersey	Gloucester	Sweet Corn	11
Indiana	Sullivan	Corn for Grain	11
Nevada	Douglas	Other Small Grains	11
Kansas	Ford	Corn for Grain	11
California	Stanislaus	Corn for Silage	11
Wisconsin	Rock	Corn for Grain	11
Kansas	Grant	Wheat	11
Wyoming	Fremont	Alfalfa	11
North Dakota	Kidder	Corn for Grain	11
Nebraska	York	Corn for Grain	11
Georgia	Decatur	Peanuts	11

State	County	Crop	Number of Respondents
Montana	Carbon	Other Small Grains	11
Minnesota	Benton	Corn for Grain	11
South Dakota	Beadle	Corn for Grain	11
Colorado	Phillips	Corn for Grain	11
South Dakota	Brookings	Corn for Grain	11
Idaho	Butte	Other Small Grains	11
Iowa	Fremont	Corn for Grain	11
Indiana	Jasper	Corn for Grain	11
Louisiana	Allen	Rice	11
Idaho	Caribou	Barley	11
Arizona	Cochise	Corn for Grain	11
Mississippi	Bolivar	Peanuts	10
Oklahoma	Texas	Corn for Silage	10
Missouri	Dunklin	Rice	10
Colorado	Weld	Alfalfa	10
Idaho	Jerome	Beans	10
Maryland	Dorchester	Wheat	10
Minnesota	Otter Tail	Corn for Silage	10
Washington	Yakima	Corn for Grain	10
Mississippi	Humphreys	Peanuts	10
Oregon	Umatilla	Corn for Grain	10
Utah	Box Elder	Corn for Silage	10
Colorado	Logan	Wheat	10
New Mexico	Roosevelt	Wheat	10
Washington	Adams	Lettuce	10
Montana	Madison	Alfalfa	10
California	Merced	Alfalfa	10
Wisconsin	Dunn	Soybeans	10
Arkansas	Chicot	Rice	10
Wisconsin	Waushara	Tobacco	10
Tennessee	Dyer	Corn for Grain	10
Arkansas	Lee	Rice	10
Indiana	Porter	Soybeans	10
Montana	Pondera	Barley	10
North Dakota	Williams	Barley	10
Nebraska	Dawson	Soybeans	10
Iowa	Woodbury	Soybeans	10
Nebraska	Polk	Soybeans	10
New Jersey	Gloucester	Tobacco	10
Georgia	Dooley	Other Hay	10
Kansas	Sherman	Corn for Grain	10
Maryland	Kent	Corn for Grain	10
Maryland	Wicomico	Corn for Grain	10
Wyoming	Lincoln	Alfalfa	10
Texas	Yoakum	Other Hay	10
North Dakota	Lamoure	Corn for Grain	10
New Mexico	Dona Ana	Peanuts	10
Arizona	Graham	Peanuts	10

State	County	Crop	Number of Respondents
Nebraska	Chase	Corn for Grain	10
North Dakota	Sargent	Corn for Grain	10
Nebraska	Custer	Corn for Grain	10
Texas	Moore	Corn for Grain	10
California	Modoc	Other Small Grains	10
Texas	Cochran	Peanuts	10
New York	Suffolk	Tobacco	10
Missouri	Cape Girardeau	Corn for Grain	10
Oregon	Crook	Other Small Grains	10
Illinois	White	Corn for Grain	10
North Dakota	Dickey	Corn for Grain	10
Nebraska	Antelope	Soybeans	10
Utah	Sevier	Corn for Silage	10
Colorado	Delta	Other Small Grains	10
New Jersey	Burlington	Tobacco	10
Kansas	Thomas	Corn for Grain	10
Washington	Benton	Other Small Grains	10
Oregon	Wallowa	Alfalfa	10
Texas	Cameron	Grain Sirghum	10
Pennsylvania	Franklin	Tobacco	10
Kansas	Seward	Corn for Grain	10
Washington	Kittitas	Wheat	10



## Appendix H

### 2008 Net Insured Irrigated Acreage

**Table H1. 2008 Net Insured Irrigated Acreage**

State	Crop	Insured Irrigated Acres	State	Crop	Insured Irrigated Acres
Alabama	Corn	16,455	California	Blueberries	202
Alabama	Cotton	12,312	California	Cherries	13,173
Alabama	Fresh Market Tomatoes	88	California	Corn	227,349
Alabama	Peanuts	7,156	California	Cotton	102,558
Alabama	Pecans	672	California	Cotton Ex Long Staple	154,348
Alabama	Potatoes	227	California	Cultivatedwildrice	17,369
Alabama	Soybeans	5,238	California	Drybeans	20,451
Alabama	Wheat	1,458	California	Figs	6,003
Alaska	Potatoes	18	California	Forageproduction	178,169
Arizona	Apples	809	California	Forageseeding	5,725
Arizona	Barley	21,788	California	Freshapricots	2,496
Arizona	Chile Peppers	879	California	Freshfreestonepeaches	22,175
Arizona	Corn	34,892	California	Freshmarkettomatoes	20,214
Arizona	Cotton	123,418	California	Freshnectarines	21,712
Arizona	Cotton Ex Long Staple	933	California	Grainsorghum	713
Arizona	Drybeans	2,066	California	Grapefruit	4,415
Arizona	Forageproduction	32,122	California	Grapes	386,317
Arizona	Freshfreestonepeaches	15	California	Lemons	33,968
Arizona	Grainsorghum	8,221	California	Mandarins	8,951
Arizona	Grapefruit	259	California	Minneolatangelos	4,095
Arizona	Lemons	6,811	California	Naveloranges	116,932
Arizona	Mandarins	103	California	Oats	7,072
Arizona	Minneolatangelos	1,211	California	Onions	3,008
Arizona	Naveloranges	1,146	California	Orlandotangelos	27
Arizona	Orlandotangelos	47	California	Pears	10,288
Arizona	Pecans	9,093	California	Pecans	956
Arizona	Potatoes	3,318	California	Plums	21,788
Arizona	Sweetoranges	54	California	Potatoes	22,897
Arizona	Valenciaoranges	489	California	Processingapricots	3,910
Arizona	Wheat	97,141	California	Processingclingpeaches	17,607
Arkansas	Corn	244,456	California	Processingfreestone	3,251
Arkansas	Cotton	404,046	California	Prunes	61,750
Arkansas	Freshmarkettomatoes	864	California	Rice	395,011
Arkansas	Grainsorghum	34,260	California	Safflower	46,886
Arkansas	Peanuts	256	California	Strawberries	9,211
Arkansas	Potatoes	552	California	Sugarbeets	9,980
Arkansas	Rice	853,742	California	Sunflowers	614
Arkansas	Soybeans	1,459,450	California	Sweetoranges	330
Arkansas	Wheat	10,535	California	Tablegrapes	84,709
California	Alfalfaseed	1,246	California	Tomatoes	258,757
California	Almonds	478,365	California	Valenciaoranges	36,888
California	Apples	6,972	California	Walnuts	109,695
California	Avocados	34,881	California	Wheat	297,335
California	Barley	13,046			

State	Crop	Insured Irrigated Acres	State	Crop	Insured Irrigated Acres
Colorado	Apples	561	Florida	Sugarcane	390,955
Colorado	Barley	107,846	Florida	Wheat	1,557
Colorado	Corn	674,376	Georgia	Blueberries	3,929
Colorado	Drybeans	24,207	Georgia	Cabbage	2,035
Colorado	Forageproduction	4,132	Georgia	Canola	153
Colorado	Freshmarketsweet corn	2,311	Georgia	Corn	172,668
Colorado	Grainsorghum	9,975	Georgia	Cotton	300,067
Colorado	Grapes	109	Georgia	Fluecuredtobacco	9,439
Colorado	Millet	1,928	Georgia	Freshmarketsweet corn	14,984
Colorado	Oats	874	Georgia	Freshmarkettomat oes	2,327
Colorado	Onions	6,103	Georgia	Grainsorghum	855
Colorado	Peaches	1,268	Georgia	Grapes	157
Colorado	Popcorn	1,654	Georgia	Oats	877
Colorado	Potatoes	63,661	Georgia	Onions	11,304
Colorado	Silagesorghum	1,302	Georgia	Peanuts	246,918
Colorado	Soybeans	5,782	Georgia	Pecans	57,413
Colorado	Sugarbeets	29,830	Georgia	Peppers	1,040
Colorado	Sunflowers	22,439	Georgia	Soybeans	70,704
Colorado	Wheat	191,353	Georgia	Wheat	70,672
Connecticut	Apples	29	Hawaii	Macadamianuts	3,502
Connecticut	Freshmarketsweet corn	241	Hawaii	Macadamiatrees	3,609
Connecticut	Pears	14	Idaho	Alfalfaseed	986
Delaware	Barley	844	Idaho	Apples	2,196
Delaware	Corn	30,574	Idaho	Barley	299,343
Delaware	Greenpeas	3,519	Idaho	Canola	2,613
Delaware	Potatoes	980	Idaho	Corn	55,963
Delaware	Processingbeans	4,212	Idaho	Drybeans	22,166
Delaware	Soybeans	19,973	Idaho	Drypeas	1,474
Delaware	Sweetcorn	3,770	Idaho	Freshapricots	51
Delaware	Wheat	4,619	Idaho	Freshfreestonepeaches	765
Florida	Blueberries	1,160	Idaho	Freshnectarines	52
Florida	Cabbage	2,353	Idaho	Grapes	827
Florida	Corn	12,685	Idaho	Greenpeas	6,135
Florida	Cotton	6,910	Idaho	Mint	3,237
Florida	Fluecuredtobacco	901	Idaho	Oats	854
Florida	Freshmarketsweet corn	24,612	Idaho	Onions	3,414
Florida	Freshmarkettomat oes	25,091	Idaho	Potatoes	285,156
Florida	Oats	183	Idaho	Safflower	32
Florida	Peanuts	26,617	Idaho	Sugarbeets	90,794
Florida	Pecans	275	Idaho	Sweetcorn	12,379
Florida	Peppers	9,202	Idaho	Wheat	416,390
Florida	Potatoes	20,398	Illinois	Corn	103,777
Florida	Rice	9,674	Illinois	Grainsorghum	146
Florida	Soybeans	1,235	Illinois	Hybridcornseed	46,819
Florida	Strawberries	6,879	Illinois	Oats	16
			Illinois	Popcorn	5,930

State	Crop	Insured Irrigated Acres	State	Crop	Insured Irrigated Acres
Illinois	Potatoes	1,431	Louisiana	Pecans	628
Illinois	Processingbeans	1,818	Louisiana	Rice	367,989
Illinois	Rice	922	Louisiana	Soybeans	195,383
Illinois	Soybeans	45,746	Louisiana	Strawberries	80
Illinois	Wheat	4,529	Louisiana	Sweetpotatoes	4,304
Indiana	Corn	63,395	Louisiana	Wheat	7,326
Indiana	Grainsorghum	170	Maine	Apples	116
Indiana	Hybridcornseed	19,735	Maine	Blueberries	4,336
Indiana	Mint	763	Maine	Freshmarketsweet corn	70
Indiana	Popcorn	2,934	Maine	Potatoes	8,854
Indiana	Potatoes	549	Maryland	Apples	14
Indiana	Processingbeans	744	Maryland	Barley	681
Indiana	Soybeans	37,495	Maryland	Corn	22,846
Indiana	Wheat	4,683	Maryland	Freshmarkettomatoes	45
Iowa	Corn	87,848	Maryland	Greenpeas	2,328
Iowa	Forageproduction	27	Maryland	Potatoes	382
Iowa	Forageseeding	14	Maryland	Processingbeans	556
Iowa	Greenpeas	390	Maryland	Soybeans	13,580
Iowa	Hybridcornseed	11,064	Maryland	Sweetcorn	2,597
Iowa	Oats	8	Maryland	Tomatoes	109
Iowa	Popcorn	147	Maryland	Wheat	3,427
Iowa	Potatoes	577	Massachusetts	Apples	99
Iowa	Soybeans	46,237	Massachusetts	Freshmarketsweet corn	350
Kansas	Barley	541	Michigan	Apples	3,998
Kansas	Corn	1,334,151	Michigan	Blueberries	9,088
Kansas	Cotton	11,189	Michigan	Cherries	558
Kansas	Drybeans	4,053	Michigan	Corn	76,882
Kansas	Grainsorghum	91,103	Michigan	Drybeans	5,693
Kansas	Hybridsorghumseed	788	Michigan	Forageproduction	401
Kansas	Millet	235	Michigan	Greenpeas	1,603
Kansas	Oats	966	Michigan	Hybridcornseed	15,029
Kansas	Onions	321	Michigan	Oats	153
Kansas	Popcorn	80	Michigan	Onions	1,280
Kansas	Potatoes	3,193	Michigan	Peaches	158
Kansas	Silagesorghum	2,029	Michigan	Potatoes	25,764
Kansas	Soybeans	340,329	Michigan	Processingbeans	2,183
Kansas	Sunflowers	40,874	Michigan	Soybeans	21,708
Kansas	Wheat	572,011	Michigan	Wheat	5,534
Kentucky	Corn	7,784	Minnesota	Apples	293
Kentucky	Freshmarkettomatoes	5	Minnesota	Barley	783
Kentucky	Rice	256	Minnesota	Corn	201,084
Kentucky	Soybeans	5,313	Minnesota	Cultivatedwildrice	15,591
Kentucky	Wheat	204	Minnesota	Drybeans	28,472
Louisiana	Corn	231,094	Minnesota	Forageproduction	3,016
Louisiana	Cotton	67,271	Minnesota	Forageseeding	2,150
Louisiana	Grainsorghum	6,054			
Louisiana	Peanuts	304			

State	Crop	Insured Irrigated Acres	State	Crop	Insured Irrigated Acres
Minnesota	Greenpeas	9,400	Nebraska	Grapes	5
Minnesota	Hybridcornseed	4,080	Nebraska	Hybridcornseed	97,360
Minnesota	Oats	380	Nebraska	Millet	4,335
Minnesota	Potatoes	33,579	Nebraska	Oats	2,346
Minnesota	Processingbeans	395	Nebraska	Popcorn	59,403
Minnesota	Soybeans	79,718	Nebraska	Potatoes	13,611
Minnesota	Sunflowers	468	Nebraska	Soybeans	1,985,242
Minnesota	Sweetcorn	2,100	Nebraska	Sugarbeets	42,104
Minnesota	Wheat	10,395	Nebraska	Sunflowers	11,849
Mississippi	Blueberries	190	Nebraska	Wheat	188,249
Mississippi	Corn	267,900	Nevada	Alfalfaseed	2,429
Mississippi	Cotton	137,703	Nevada	Barley	70
Mississippi	Grainsorghum	5,394	Nevada	Forageproduction	20,369
Mississippi	Grapes	124	Nevada	Forageseeding	3,733
Mississippi	Peanuts	189	Nevada	Potatoes	5,075
Mississippi	Rice	216,195	Nevada	Wheat	9,169
Mississippi	Soybeans	606,311	New Hampshire	Freshmarketsweet corn	148
Mississippi	Wheat	2,597	New Jersey	Apples	125
Missouri	Corn	236,770	New Jersey	Blueberries	4,955
Missouri	Cotton	169,500	New Jersey	Corn	5,874
Missouri	Grainsorghum	2,718	New Jersey	Freshmarketsweet corn	535
Missouri	Popcorn	2,443	New Jersey	Potatoes	211
Missouri	Potatoes	6,775	New Jersey	Processingbeans	425
Missouri	Rice	129,487	New Jersey	Soybeans	3,150
Missouri	Soybeans	404,758	New Jersey	Tomatoes	879
Missouri	Wheat	44,777	New Mexico	Apples	15
Montana	Alfalfaseed	706	New Mexico	Barley	23
Montana	Barley	243,378	New Mexico	Chilepeppers	2,892
Montana	Canola	2,866	New Mexico	Corn	75,231
Montana	Cherries	227	New Mexico	Cotton	37,772
Montana	Corn	32,735	New Mexico	Cottonexlongstaple	2,159
Montana	Drybeans	5,680	New Mexico	Drybeans	7,428
Montana	Forageproduction	142,013	New Mexico	Grainsorghum	10,908
Montana	Forageseeding	1,904	New Mexico	Hybridsorghumseed	424
Montana	Mustard	126	New Mexico	Onions	1,488
Montana	Oats	1,880	New Mexico	Peanuts	7,389
Montana	Potatoes	3,075	New Mexico	Pecans	20,878
Montana	Safflower	193			
Montana	Sugarbeets	25,210			
Montana	Sunflowers	99			
Montana	Wheat	183,453			
Nebraska	Barley	228			
Nebraska	Corn	4,767,670			
Nebraska	Drybeans	123,917			
Nebraska	Forageproduction	133			
Nebraska	Forageseeding	74			
Nebraska	Freshmarketsweet corn	359			
Nebraska	Grainsorghum	11,665			

State	Crop	Insured Irrigated Acres	State	Crop	Insured Irrigated Acres
New Mexico	Potatoes	5,698	North Dakota	Onions	459
New Mexico	Processingbeans	853	North Dakota	Potatoes	26,455
New Mexico	Wheat	70,827	North Dakota	Soybeans	27,767
New York	Apples	5,798	North Dakota	Sugarbeets	4,126
New York	Cabbage	42	North Dakota	Sunflowers	2,895
New York	Corn	1,160	North Dakota	Wheat	30,432
New York	Freshmarketsweet corn	2,339	Ohio	Cabbage	296
New York	Onions	1,357	Ohio	Corn	3,074
New York	Plums	19	Ohio	Soybeans	2,980
New York	Potatoes	842	Ohio	Wheat	474
New York	Tomatoes	18	Oklahoma	Corn	120,075
New York	Wheat	90	Oklahoma	Cotton	75,728
North Carolina	Apples	28	Oklahoma	Grainsorghum	13,536
North Carolina	Blueberries	4,124	Oklahoma	Oats	56
North Carolina	Corn	2,113	Oklahoma	Peaches	185
North Carolina	Cotton	926	Oklahoma	Peanuts	10,551
North Carolina	Freshmarketsweet corn	361	Oklahoma	Potatoes	156
North Carolina	Freshmarkettomat oes	818	Oklahoma	Rye	294
North Carolina	Grapes	78	Oklahoma	Soybeans	14,889
North Carolina	Onions	134	Oklahoma	Sunflowers	1,517
North Carolina	Peanuts	876	Oklahoma	Wheat	132,208
North Carolina	Peppers	212	Oregon	Alfalfaseed	177
North Carolina	Soybeans	1,648	Oregon	Apples	2,626
North Carolina	Wheat	268	Oregon	Barley	7,517
North Dakota	Barley	19,719	Oregon	Blueberries	1,134
North Dakota	Corn	107,351	Oregon	Canola	1,790
North Dakota	Drybeans	19,210	Oregon	Cherries	7,522
North Dakota	Forageproduction	2,207	Oregon	Corn	18,516
North Dakota	Forageseeding	106	Oregon	Drybeans	1,716
North Dakota	Oats	643	Oregon	Drypeas	1,440
			Oregon	Forageproduction	7,969
			Oregon	Freshfreestonepeaches	127
			Oregon	Grapes	458
			Oregon	Greenpeas	7,405
			Oregon	Mint	1,511
			Oregon	Oats	419
			Oregon	Onions	15,586
			Oregon	Pears	10,135
			Oregon	Potatoes	23,789
			Oregon	Processingbeans	2,190
			Oregon	Sugarbeets	4,502
			Oregon	Sweetcorn	3,675
			Oregon	Wheat	91,108

State	Crop	Insured Irrigated Acres	State	Crop	Insured Irrigated Acres
Pennsylvania	Apples	2,035	South Dakota	Hybridcornseed	2,307
Pennsylvania	Barley	45	South Dakota	Millet	137
Pennsylvania	Corn	417	South Dakota	Mint	832
Pennsylvania	Freshmarketsweet corn	266	South Dakota	Oats	1,031
Pennsylvania	Pears	29	South Dakota	Onions	201
Pennsylvania	Peppers	12	South Dakota	Popcorn	3,366
Pennsylvania	Soybeans	106	South Dakota	Potatoes	546
Pennsylvania	Tomatoes	882	South Dakota	Soybeans	86,475
Pennsylvania	Wheat	43	South Dakota	Sunflowers	1,234
Rhode Island	Freshmarketsweet corn	320	South Dakota	Wheat	20,028
South Carolina	Blueberries	48	Tennessee	Corn	12,984
South Carolina	Corn	22,793	Tennessee	Cotton	8,239
South Carolina	Cotton	10,231	Tennessee	Freshmarkettomatoes	1,867
South Carolina	Fluecuredtobacco	351	Tennessee	Grainsorghum	100
South Carolina	Freshmarkettomatoes	2,148	Tennessee	Rice	1,815
South Carolina	Oats	80	Tennessee	Soybeans	19,950
South Carolina	Peanuts	11,326	Tennessee	Wheat	1,484
South Carolina	Peppers	282	Texas	Allothergrapefruit	49
South Carolina	Soybeans	9,670	Texas	Barley	420
South Carolina	Tablegrapes	50	Texas	Cabbage	1,332
South Carolina	Wheat	6,754	Texas	Citrustreesi	5,272
South Dakota	Barley	411	Texas	Citrustreesii	1,314
South Dakota	Corn	197,197	Texas	Citrustreesiii	74
South Dakota	Drybeans	3,925	Texas	Citrustreesiv	13,495
South Dakota	Forageproduction	13,916	Texas	Citrustreesv	1,643
South Dakota	Forageseeding	619	Texas	Corn	906,565
South Dakota	Grainsorghum	754	Texas	Cotton	1,669,925
			Texas	Cottonexlongstaple	14,646
			Texas	Drybeans	6,595
			Texas	Early&Midseason oranges	4,469
			Texas	Grainsorghum	402,860
			Texas	Grapes	872
			Texas	Hybridcornseed	497
			Texas	Hybridsorghumseed	39,663
			Texas	Lateoranges	984
			Texas	Oats	2,318
			Texas	Onions	11,725

State	Crop	Insured Irrigated Acres	State	Crop	Insured Irrigated Acres	
Texas	Peaches	634	Washington	Freshfreestonepeaches	1,658	
Texas	Peanuts	213,248	Washington	Freshnectarines	1,298	
Texas	Pecans	22,998	Washington	Grapes	45,649	
Texas	Potatoes	11,593	Washington	Greenpeas	15,732	
Texas	Processingbeans	3,639	Washington	Mint	9,933	
Texas	Rice	143,666	Washington	Onions	15,966	
Texas	Rioired&Starruby	11,566	Washington	Pears	14,472	
Texas	Rubyredgrapefruit	1,544	Washington	Potatoes	97,052	
Texas	Rye	124	Washington	Processingbeans	1,233	
Texas	Soybeans	29,797	Washington	Sugarbeets	1,613	
Texas	Sugarcane	38,309	Washington	Sweetcorn	58,897	
Texas	Sunflowers	10,756	Washington	Wheat	117,755	
Texas	Wheat	760,318	West	Corn	255	
Utah	Apples	629	Virginia	West	Soybeans	143
Utah	Barley	2,811	Virginia	Apples	200	
Utah	Cherries	162	Wisconsin	Cabbage	1,837	
Utah	Corn	9,318	Wisconsin	Corn	52,787	
Utah	Forageproduction	30,226	Wisconsin	Drybeans	1,970	
Utah	Freshfreestonepeaches	243	Wisconsin	Forageproduction	1,395	
Utah	Oats	338	Wisconsin	Forageseeding	1,721	
Utah	Onions	849	Wisconsin	Greenpeas	9,965	
Utah	Safflower	508	Wisconsin	Hybridcornseed	3,863	
Utah	Wheat	18,019	Wisconsin	Mint	416	
Vermont	Apples	112	Wisconsin	Oats	234	
Vermont	Freshmarketsweetcorn	23	Wisconsin	Onions	151	
Vermont	Potatoes	51	Wisconsin	Potatoes	41,468	
Virginia	Apples	578	Wisconsin	Processingbeans	22,932	
Virginia	Barley	163	Wisconsin	Soybeans	19,741	
Virginia	Blueberries	7	Wisconsin	Sweetcorn	31,100	
Virginia	Corn	7,363	Wisconsin	Wheat	1,727	
Virginia	Cotton	206	Wyoming	Alfalfaseed	6,395	
Virginia	Freshmarkettomatoes	1,778	Wyoming	Barley	56,849	
Virginia	Processingbeans	2,306	Wyoming	Corn	46,977	
Virginia	Soybeans	5,502	Wyoming	Drybeans	25,587	
Virginia	Sweetcorn	39	Wyoming	Forageproduction	34,248	
Virginia	Wheat	483	Wyoming	Forageseeding	1,936	
Washington	Alfalfaseed	4,068	Wyoming	Millet	436	
Washington	Apples	120,131	Wyoming	Oats	1,431	
Washington	Barley	464	Wyoming	Potatoes	759	
Washington	Blueberries	1,004	Wyoming	Sugarbeets	24,059	
Washington	Canola	577	Wyoming	Sunflowers	1,216	
Washington	Cherries	22,971	Wyoming	Wheat	18,459	
Washington	Corn	47,693	Total		32,225,174	
Washington	Drybeans	9,124				
Washington	Drypeas	2,819				
Washington	Freshapricots	733				



# Appendix I

## State-level Irrigation Surveys

**Table II. Available State Level Irrigation Surveys**

State	Survey Year	Survey Year	Survey Year	No Survey Found	Source
Alabama				X	irrigation survey
Alaska				X	
Arizona			2013	X	<a href="http://cpo.noaa.gov/sites/cpo/Projects/SARP/SARPPProjectReport1_EakinASU.pdf">http://cpo.noaa.gov/sites/cpo/Projects/SARP/SARPPProjectReport1_EakinASU.pdf</a> <a href="http://www.azwater.gov/azdwr/Search-ResultsV2.htm?q=irrigation%20surveys">http://www.azwater.gov/azdwr/Search-ResultsV2.htm?q=irrigation%20surveys</a>
Arkansas	2005	2009			Contains several surveys and information on AZ irrigation
California	2010	2010			<a href="http://www.water.ca.gov/landwateruse/surveys.cfm">http://www.water.ca.gov/landwateruse/surveys.cfm</a>
Colorado			2013		<a href="http://www.pacinst.org/wp-content/uploads/2013/05/pacinst-crb-ag.pdf">http://www.pacinst.org/wp-content/uploads/2013/05/pacinst-crb-ag.pdf</a>
Connecticut				X	
Delaware				X	
Florida				X	
Georgia			2008		<a href="http://www.nespal.org/sirp/agwateruse/facts/survey/default.asp">http://www.nespal.org/sirp/agwateruse/facts/survey/default.asp</a>
Hawaii				X	
Idaho				X	
Illinois			1991		<a href="http://isws.illinois.edu/pubdoc/RR/ISWSRR-118.pdf">http://isws.illinois.edu/pubdoc/RR/ISWSRR-118.pdf</a>
Indiana				X	
Iowa				X	
Kansas	2011	2012			<a href="http://www.ksre.ksu.edu/irrigate/OOW/P12/Rogers12Trends.pdf">http://www.ksre.ksu.edu/irrigate/OOW/P12/Rogers12Trends.pdf</a>
Kentucky			1999		<a href="http://www.uky.edu/Ag/Agronomy/Extension/ssnv/ssnv1211.pdf">http://www.uky.edu/Ag/Agronomy/Extension/ssnv/ssnv1211.pdf</a>
Louisiana				X	
Maine				X	
Maryland				X	
Massachusetts				X	
Michigan			2006		<a href="http://www.michigan.gov/documents/deq/deq-wd-wurp-agriculturereport06_208259_7.pdf">http://www.michigan.gov/documents/deq/deq-wd-wurp-agriculturereport06_208259_7.pdf</a>
Minnesota				X	

State	Survey Year	Survey Year	Survey Year	No Survey Found	Source
Mississippi				X	
Missouri	1998	2000	2004		<a href="http://agebb.missouri.edu/irrigate/survey/nbh98.htm">http://agebb.missouri.edu/irrigate/survey/nbh98.htm</a> , <a href="http://agebb.missouri.edu/irrigate/survey/nbh01.htm">http://agebb.missouri.edu/irrigate/survey/nbh01.htm</a> , <a href="http://agebb.missouri.edu/irrigate/survey/nbh04.htm">http://agebb.missouri.edu/irrigate/survey/nbh04.htm</a>
Montana					<a href="http://www.nass.usda.gov/Statistics_by_State/Montana/Publications/Press_Releases_Miscellaneous/historic/fris.pdf">http://www.nass.usda.gov/Statistics_by_State/Montana/Publications/Press_Releases_Miscellaneous/historic/fris.pdf</a>
Nebraska			2008		
Nevada				X	
New Hampshire				X	
New Jersey				X	
New Mexico				X	
New York				X	
North Carolina				X	
North Dakota				X	
Ohio				X	
Oklahoma				X	
Oregon				X	
Pennsylvania				X	
Rhode Island				X	
South Carolina			2000		<a href="http://www.clemson.edu/irrig/Survey/SURVEY00.PDF">http://www.clemson.edu/irrig/Survey/SURVEY00.PDF</a>
South Dakota				X	
Tennessee				X	
Texas	1994	2000	2009		<a href="http://www.twdb.state.tx.us/publications/reports/numbered_reports/doc/R347/R347.pdf">http://www.twdb.state.tx.us/publications/reports/numbered_reports/doc/R347/R347.pdf</a> , <a href="http://www.twdb.texas.gov/publications/reports/contracted_reports/doc/0704830691_RegionF/IrrigationReport.pdf">http://www.twdb.texas.gov/publications/reports/contracted_reports/doc/0704830691_RegionF/IrrigationReport.pdf</a>
Utah				X	
Vermont				X	
Virginia				X	
Washington				X	
West Virginia				X	
Wisconsin				X	
Wyoming				X	

State	Survey Year	Survey Year	Survey Year	No Survey Found	Source
United States		2000	2007	2014	<a href="http://www.agcensus.usda.gov/Publications/2007/Online_Highlights/Farm_and_Ranch_Irrigation_Survey/fris08.pdf">http://www.agcensus.usda.gov/Publications/2007/Online_Highlights/Farm_and_Ranch_Irrigation_Survey/fris08.pdf</a> <a href="http://www.minnesotafarmguide.com/news/regional/usda-surveys-on-farm-irrigation-practices/article_43d56f0c-770f-11e3-9512-0019bb2963f4.html">http://www.minnesotafarmguide.com/news/regional/usda-surveys-on-farm-irrigation-practices/article_43d56f0c-770f-11e3-9512-0019bb2963f4.html</a> (US doing a nationwide survey in 2014) <a href="http://pubs.usgs.gov/circ/2005/1279/pdf/circ1279.pdf">http://pubs.usgs.gov/circ/2005/1279/pdf/circ1279.pdf</a> <a href="http://www.agcensus.usda.gov/Publications/2002/FRIS/">http://www.agcensus.usda.gov/Publications/2002/FRIS/</a>

## **Appendix J**

# **Regulatory Approach to Water Usage and Water Rights by State**

**Table J1. Regulatory Approach to Water Usage and Water Rights by State**

State	Admin Reg Title	Admin Reg	Link to Admin Reg	Link to Reporting Forms
Alabama	Declarations of Beneficial Use	Ala. Admin. Code. r. 305-7-10-.01-.07 (1994)	<a href="http://www.alabamaadministrativecode.state.al.us/docs/adecc/305-7-10.pdf">http://www.alabamaadministrativecode.state.al.us/docs/adecc/305-7-10.pdf</a>	<a href="http://www.alabamaadministrativecode.state.al.us/docs/adecc/305-7-12.pdf">http://www.alabamaadministrativecode.state.al.us/docs/adecc/305-7-12.pdf</a>
Alaska	Water Permitting Fees	Alaska Admin. Code tit. 11 05.010(8) (2006)	<a href="http://www.legis.state.ak.us/cgi-bin/folioisa.dll/aac/query=%5bgroupl!2711+aac+05!2E010!27!3A%5d/doc/%7b@1%7d/hits_only">http://www.legis.state.ak.us/cgi-bin/folioisa.dll/aac/query=%5bgroupl!2711+aac+05!2E010!27!3A%5d/doc/%7b@1%7d/hits_only</a>	<a href="http://www.adeca.alabama.gov/Divisions/owr/Pages/WaterManagement.aspx">http://www.adeca.alabama.gov/Divisions/owr/Pages/WaterManagement.aspx</a> <a href="http://dnr.alaska.gov/mlw/forms/index.cfm?tab=water">http://dnr.alaska.gov/mlw/forms/index.cfm?tab=water</a> <a href="http://dnr.alaska.gov/mlw/forms/water/akwuds.pdf">http://dnr.alaska.gov/mlw/forms/water/akwuds.pdf</a>
Arizona	Department of Water Resources-Fees Surface Water Permitting Unit (602) 771-8500	Ariz. Admin. Code. § 12-15-151 (2007)	<a href="http://www.azleg.state.az.us/ArizonaRevisedStatutes.asp?Title=45">http://www.azleg.state.az.us/ArizonaRevisedStatutes.asp?Title=45</a>	<a href="http://www.azwater.gov/AzDWR/WaterManagement/AMAs/PermitsFormsApplicationsARCurrentYear.htm">http://www.azwater.gov/AzDWR/WaterManagement/AMAs/PermitsFormsApplicationsARCurrentYear.htm</a>
Arkansas	Water Plan Compliance Program	Title VI	<a href="https://static.ark.org/eeuploads/anrc/title_6_final.pdf">https://static.ark.org/eeuploads/anrc/title_6_final.pdf</a>	
California	Appropriation of Water	Cal. Code Regs. tit. 23 §§ 650-874 (2009)	<a href="http://ccr.oal.ca.gov/linkedslice/default.asp?SP=CCR-1000&amp;Action=Welcome">http://ccr.oal.ca.gov/linkedslice/default.asp?SP=CCR-1000&amp;Action=Welcome</a>	<a href="http://www.waterboards.ca.gov/waterissues/programs/diversion_use/docs/intl_stmnt_form_2013.pdf">http://www.waterboards.ca.gov/waterissues/programs/diversion_use/docs/intl_stmnt_form_2013.pdf</a>
Colorado				<a href="http://water.state.co.us/DWRDocs/Forms/Pages/UandMForms.aspx">http://water.state.co.us/DWRDocs/Forms/Pages/UandMForms.aspx</a>
Connecticut	Water Diversion	Conn. Agencies Regs. §22a-372-1 to -377(c)-2 (1990)	<a href="http://www.ct.gov/deep/lib/deep/regulations/22a/22a-372-1through377c-2.pdf">http://www.ct.gov/deep/lib/deep/regulations/22a/22a-372-1through377c-2.pdf</a>	<a href="http://www.ct.gov/deep/cwp/view.asp?a=2720&amp;q=325638&amp;deepNav_GID=1654%20">http://www.ct.gov/deep/cwp/view.asp?a=2720&amp;q=325638&amp;deepNav_GID=1654%20</a>
Delaware	Division of Water Resources	Regulations Governing the Allocation of Water (1987)	<a href="http://www.dnrec.state.de.us/water2000/Sections/WaterSupp/Library/alloc.PDF">http://www.dnrec.state.de.us/water2000/Sections/WaterSupp/Library/alloc.PDF</a> <a href="http://regulations.delaware.gov/AdminCode/title7/7000/7500/7504.shtml#TopOfPage">http://regulations.delaware.gov/AdminCode/title7/7000/7500/7504.shtml#TopOfPage</a>	<a href="http://www.dnrec.delaware.gov/wr/SERVICES/OTHERSERVICES/Pages/WaterSupplyWaterAllocationBranch.aspx">http://www.dnrec.delaware.gov/wr/SERVICES/OTHERSERVICES/Pages/WaterSupplyWaterAllocationBranch.aspx</a>

State	Admin Reg Title	Admin Reg	Link to Admin Reg	Link to Reporting Forms
Florida	Water Management Administrative Code	Fla. Admin. Code Ann. r. 40A□E (2008)	<a href="https://www.flrules.org/Gateway/Department.asp?DeptID=40">https://www.flrules.org/Gateway/Department.asp?DeptID=40</a>	<a href="http://www.swfwmd.state.fl.us/permits/wup/">http://www.swfwmd.state.fl.us/permits/wup/</a>
Georgia	Groundwater Use	Ga. Comp. R. & Regs. 391-3-2 (1990)	<a href="http://rules.sos.state.ga.us/cgi-bin/page.cgi?g=GEORGIA_DEPARTMENT_OF_NATURAL_RESOURCES/ENVIRONMENTAL_PROTECTION/GROUNDWATER_USE/index.html&amp;d=1">http://rules.sos.state.ga.us/cgi-bin/page.cgi?g=GEORGIA_DEPARTMENT_OF_NATURAL_RESOURCES/ENVIRONMENTAL_PROTECTION/GROUNDWATER_USE/index.html&amp;d=1</a>	<a href="http://www.gaepd.org/Documents/epdforms_wpb.html#wwp">http://www.gaepd.org/Documents/epdforms_wpb.html#wwp</a>
Hawaii	Hawaii Administrative Code	Haw. Code R. §§13-168-1 □171-63 (1988)	<a href="http://hawaii.gov/dlnr/cwrm/aboutus_regulations.htm">http://hawaii.gov/dlnr/cwrm/aboutus_regulations.htm</a>	<a href="http://www.state.hi.us/dlnr/cwrm/info_permits.htm">http://www.state.hi.us/dlnr/cwrm/info_permits.htm</a>
Idaho				<a href="http://www.isws.illinois.edu/gws/iwip/">http://www.isws.illinois.edu/gws/iwip/</a>
Illinois				Inventory forms cannot be downloaded directly from this website. However, you may request that a fillable Adobe Reader file (PDF) of your facility's form be sent to you via e-mail. You may also download (see below) a Microsoft Word template for use in filling out and e-mailing your completed form. At present, templates for Public Water and Industrial-Commercial facilities are available. The templates can only be used for facilities having 10 or fewer withdrawal points (i.e., well and surface water intakes). <a href="http://www.in.gov/dnr/water/2450.htm">http://www.in.gov/dnr/water/2450.htm</a>
Indiana				
Iowa	Iowa Administrative Code	Iowa Admin. Code r. 567-50.4	<a href="https://www.legis.iowa.gov/IowaLaw/AdminCode/ruleDocs.aspx?pubDate=10-16-2013&amp;agency=567&amp;chapter=51">https://www.legis.iowa.gov/IowaLaw/AdminCode/ruleDocs.aspx?pubDate=10-16-2013&amp;agency=567&amp;chapter=51</a> <a href="https://www.legis.iowa.gov/DOCS/ACO/IAC/LINC/10-16-2013.Rule.567.50.4.pdf">https://www.legis.iowa.gov/DOCS/ACO/IAC/LINC/10-16-2013.Rule.567.50.4.pdf</a>	Form 23: Report of Water Use by all Regulated Users. 542-3115.

State	Admin Reg Title	Admin Reg	Link to Admin Reg	Link to Reporting Forms
Kansas	Kansas Water Appropriation Act	Kan. Stat. Ann. § 5-130 (2012)	<a href="http://www.ksda.gov/includes/statute_regulations/mainportal/KWAA_Rules_Regs.pdf">http://www.ksda.gov/includes/statute_regulations/mainportal/KWAA_Rules_Regs.pdf</a> <a href="http://www.ksda.gov/appropriation/content/299">http://www.ksda.gov/appropriation/content/299</a>	<a href="http://www.ksda.gov/appropriation/content/116">http://www.ksda.gov/appropriation/content/116</a>
Kentucky	Kentucky Administrative Regulations □ Water Resources	401 Ky. Admin. Regs. 4:010 □ 300 (2005)	<a href="http://www.lrc.ky.gov/kar/TITLE401.HTM">http://www.lrc.ky.gov/kar/TITLE401.HTM</a>	<a href="http://psc.ky.gov/agencies/psc/forms/wateruse.pdf">psc.ky.gov/agencies/psc/forms/wateruse.pdf</a>
Louisiana	Water Wells	La. Admin. Code tit. 56, § 101	<a href="http://doa.louisiana.gov/osr/lac/56v01/56v01.pdf">http://doa.louisiana.gov/osr/lac/56v01/56v01.pdf</a>	<a href="http://dnr.louisiana.gov/assets/docs/conservation/documents/AOCMonthlyReport.pdf">http://dnr.louisiana.gov/assets/docs/conservation/documents/AOCMonthlyReport.pdf</a>
Maine	Wetlands and Waterbodies Protection	06-096-310 Me. Code R. 110 (2006)	<a href="http://www.maine.gov/sos/cec/rules/06/096/096c310.doc">http://www.maine.gov/sos/cec/rules/06/096/096c310.doc</a>	<a href="http://www.maine.gov/agriculture/water/WaterLawReporting.shtml">http://www.maine.gov/agriculture/water/WaterLawReporting.shtml</a>
	In-stream Flows and Lake and Pond Water Levels	06-096-587 Me. Code R. 114 (2006)	<a href="http://www.maine.gov/sos/cec/rules/06/096/096c310.doc">http://www.maine.gov/sos/cec/rules/06/096/096c310.doc</a>	<a href="http://www.maine.gov/dep/water/swup/form_withdrawal.pdf">http://www.maine.gov/dep/water/swup/form_withdrawal.pdf</a> <a href="http://www.maine.gov/agriculture/mpd/irrigation/waterlaw.html">http://www.maine.gov/agriculture/mpd/irrigation/waterlaw.html</a>
Maryland	Water Management	Md. Code Regs. 26.17.06 □ .99 (1988)	<a href="http://www.dsd.state.md.us/comar/getfile.aspx?file=26.17.06.04.htm">http://www.dsd.state.md.us/comar/getfile.aspx?file=26.17.06.04.htm</a>	<a href="http://www.mde.state.md.us/PROGRAMS/PERMITS/WATERMANAGEMENTPERMITS/WATERDISCHARGEPERMITAPPLICATIONS/Pages/Permits/WaterManagementPermits/water_permits/index.aspx">http://www.mde.state.md.us/PROGRAMS/PERMITS/WATERMANAGEMENTPERMITS/WATERDISCHARGEPERMITAPPLICATIONS/Pages/Permits/WaterManagementPermits/water_permits/index.aspx</a>
Massachusetts	The Water Management Act Regulations	310 Mass. Code Regs. 36.00 (2005)	<a href="http://www.mass.gov/dep/service/regulations/310cmr36.pdf">http://www.mass.gov/dep/service/regulations/310cmr36.pdf</a>	<a href="http://www.mass.gov/eea/agencies/massdep/water/approvals/water-management-act-forms.html">http://www.mass.gov/eea/agencies/massdep/water/approvals/water-management-act-forms.html</a>
Michigan	Inland Lakes and Streams-Permit Applications	Mich. Admin. Code r. 281.812 (2000)	<a href="http://www.state.mi.us/orr/emi/admincode.asp?AdminCode=Single&amp;Admin_Num=28100811&amp;Dpt=EQ&amp;RngHigh=">http://www.state.mi.us/orr/emi/admincode.asp?AdminCode=Single&amp;Admin_Num=28100811&amp;Dpt=EQ&amp;RngHigh=</a>	<a href="http://www.deq.state.mi.us/wur/">http://www.deq.state.mi.us/wur/</a> <a href="http://www.michigan.gov/deq/0,4561,7-135-3313_3684_45331-162409--,00.html">http://www.michigan.gov/deq/0,4561,7-135-3313_3684_45331-162409--,00.html</a>



State	Admin Reg Title	Admin Reg	Link to Admin Reg	Link to Reporting Forms
Minnesota	Minnesota Administrative Rules	Minn. R. 6115.0600 to .0810 (2009)	<a href="https://www.revisor.leg.state.mn.us/rules/?id=6115">https://www.revisor.leg.state.mn.us/rules/?id=6115</a>	<a href="http://www.dnr.state.mn.us/waters/water_mgmt_section/appropriations/permits.html">http://www.dnr.state.mn.us/waters/water_mgmt_section/appropriations/permits.html</a>
Mississippi	Mississippi Commission on Environmental Quality Surface Water and Groundwater Use and Protection	Miss. Code R. § LW-2 (2006)	<a href="http://www.deq.state.ms.us/newweb/MDEQRegulations.nsf/RN/LW-2">http://www.deq.state.ms.us/newweb/MDEQRegulations.nsf/RN/LW-2</a>	<a href="http://www.deq.state.ms.us/MDEQ.nsf/page/L&amp;W_Permitting_and_Monitoring?OpenDocument">http://www.deq.state.ms.us/MDEQ.nsf/page/L&amp;W_Permitting_and_Monitoring?OpenDocument</a>
Missouri				<a href="http://www.dnr.mo.gov/env/wrc/forms.htm">http://www.dnr.mo.gov/env/wrc/forms.htm</a>
Montana	Water Resources Bureau New Appropriation Rules	Mont. Admin. R. 36.12.101.2001 (2005)	<a href="http://dnrc.mt.gov/wrd/water_rts/appro_rules_ref/newappropriations_rules-2008.pdf">http://dnrc.mt.gov/wrd/water_rts/appro_rules_ref/newappropriations_rules-2008.pdf</a>	<a href="http://dnrc.mt.gov/wrd/water_rts/wr_general_info/wrforms/wr_forms.asp">http://dnrc.mt.gov/wrd/water_rts/wr_general_info/wrforms/wr_forms.asp</a>
Nebraska	Rules for Surface Water	457 Neb. Admin. Code § 1-001 024 (2005)	<a href="http://www.dnr.state.ne.us/SurfaceWater/Title_457_0608.pdf">http://www.dnr.state.ne.us/SurfaceWater/Title_457_0608.pdf</a>	<a href="http://www.dnr.state.ne.us/docs/surfaceforms.html">http://www.dnr.state.ne.us/docs/surfaceforms.html</a>
Nevada	Practice and Procedure in Protest Hearings Before the State Engineer	Nev. Admin. Code §§ 533.010 .380 (1995)	<a href="http://www.leg.state.nv.us/NAC/NAC-533.html">http://www.leg.state.nv.us/NAC/NAC-533.html</a>	<a href="http://water.nv.gov/forms/">http://water.nv.gov/forms/</a>
New Hampshire	Major Groundwater Withdrawal	N.H. Code R. 388.01□.28 (2001)	<a href="http://des.nh.gov/organization/commissioner/legal/rules/index.htm#envvwq403">http://des.nh.gov/organization/commissioner/legal/rules/index.htm#envvwq403</a>	<a href="http://ndep.nv.gov/bwpc/forms.htm">http://ndep.nv.gov/bwpc/forms.htm</a>
New Jersey	Water Supply Allocation Rules	N.J. Admin. Code §7:19 (2008)	<a href="http://des.nh.gov/organization/divisions/water/dwgb/dwspp/wurp/">http://des.nh.gov/organization/divisions/water/dwgb/dwspp/wurp/</a>	<a href="http://www.nj.gov/dep/watersupply/a_allocat.html">http://www.nj.gov/dep/watersupply/a_allocat.html</a>
New Mexico	Administration and Use of Water	N.M. Code R. § 19.25.13.1-50 (2004)	<a href="http://www.ose.state.nm.us/PDF/ActiveWaterMgt-2004-12-28.pdf">http://www.ose.state.nm.us/PDF/ActiveWaterMgt-2004-12-28.pdf</a>	<a href="http://www.nj.gov/dep/watersupply/dws_report.html">http://www.nj.gov/dep/watersupply/dws_report.html</a>

State	Admin Reg Title	Admin Reg	Link to Admin Reg	Link to Reporting Forms
New York	Water Supply Applications <input type="checkbox"/> Exclusive Of Long Island Wells	6 N.Y. Comp. Codes R. & Regs. tit. V, § 601 (1995)	<a href="http://www.dec.ny.gov/regs/4445.html">http://www.dec.ny.gov/regs/4445.html</a>	<a href="http://www.dec.ny.gov/lands/55509.html">http://www.dec.ny.gov/lands/55509.html</a>
North Carolina	Water Use During Droughts And Water Supply Emergencies	15A N.C. Admin. Code 02E.0600 (2007)	<a href="http://www.ncwater.org/Water_Supply_Planning/Water_Conservation/hb1215/documents/rules.pdf">http://www.ncwater.org/Water_Supply_Planning/Water_Conservation/hb1215/documents/rules.pdf</a>	<a href="http://www.ncwater.org/?page=27">http://www.ncwater.org/?page=27</a>
North Dakota	Water Appropriations Water Permits	N.D. Admin. Code 89-03-01-03 (1994)	<a href="http://www.swc.state.nd.us/4dlink9/4dcgi/GetSubCategoryPDF/176/Water%20Laws%202007.pdf">http://www.swc.state.nd.us/4dlink9/4dcgi/GetSubCategoryPDF/176/Water%20Laws%202007.pdf</a>	<a href="http://www.swc.state.nd.us/4dlink9/4dcgi/GetCategoryRecord/Reports%20and%20Publications">http://www.swc.state.nd.us/4dlink9/4dcgi/GetCategoryRecord/Reports%20and%20Publications</a>
Ohio	Water Diversion Permit Applications	Ohio Admin. Code 1501-2-05-11 (2000)	<a href="http://www.dnr.state.oh.us/water/waterobs/orclaw/ORC_all_main.shtm">http://www.dnr.state.oh.us/water/waterobs/orclaw/ORC_all_main.shtm</a>	
Oklahoma	Appropriation and Use of Stream Water	Okla. Admin. Code § 785:20 (2008)	<a href="http://www.owrb.ok.gov/supply/watuse/programs.php">http://www.owrb.ok.gov/supply/watuse/programs.php</a>	<a href="http://www.owrb.ok.gov/supply/watuse/wu_forms.php">http://www.owrb.ok.gov/supply/watuse/wu_forms.php</a>
	Taking and Use of Groundwater	Okla. Admin. Code § 785:30 (2008)	<a href="http://www.owrb.ok.gov/util/rules/pdf_rul/2008_adopted/Chap30_2008.pdf">http://www.owrb.ok.gov/util/rules/pdf_rul/2008_adopted/Chap30_2008.pdf</a>	
Oregon	Water Appropriations Application, Permits and Certificates	Or. Admin. R. 690-300340	<a href="http://www.wrd.state.or.us/OWRD/LAW/oar.shtml">http://www.wrd.state.or.us/OWRD/LAW/oar.shtml</a>	<a href="http://www.oregon.gov/owrd/pages/wr/water_use_report.aspx">http://www.oregon.gov/owrd/pages/wr/water_use_report.aspx</a>
Pennsylvania	Water Resource Planning	25 Pa. Code § 110 (2008)	<a href="http://www.pabulletin.com/secure/data/vol38/38-46/2057.html">http://www.pabulletin.com/secure/data/vol38/38-46/2057.html</a>	
Rhode Island				<a href="http://www.dem.ri.gov/programs/benviro n/water/withdraw/index.htm">http://www.dem.ri.gov/programs/benviro n/water/withdraw/index.htm</a>
South Carolina	Groundwater Use and Reporting	S.C. Code Ann. Regs. 61-113 (2006)	<a href="http://www.scdhec.gov/environment/water/regs/r61-113.doc">http://www.scdhec.gov/environment/water/regs/r61-113.doc</a>	<a href="https://www.scdhec.gov/environment/admin/htm/eqc_forms.asp#water">https://www.scdhec.gov/environment/admin/htm/eqc_forms.asp#water</a>

State	Admin Reg Title	Admin Reg	Link to Admin Reg	Link to Reporting Forms
South Dakota	Regulation of Groundwater Use	S.D. Admin. R. 74:02:05:01-08 (1987)	<a href="http://legis.state.sd.us/rules/DisplayRule.aspx?Rule=74:02:05">http://legis.state.sd.us/rules/DisplayRule.aspx?Rule=74:02:05</a>	<a href="http://denr.sd.gov/des/wr/watrightsapps.aspx">http://denr.sd.gov/des/wr/watrightsapps.aspx</a>
Tennessee	Division of Water Resources Repealed	Tenn. Comp. R. & REGS. 0400-04-01□02 (Repealed)	<a href="http://www.state.tn.us/sos/rules/0400/0400-04/0400-04.htm">http://www.state.tn.us/sos/rules/0400/0400-04/0400-04.htm</a>	<a href="http://www.tva.com/river/watersupply/faq.htm">http://www.tva.com/river/watersupply/faq.htm</a>
Texas	Texas Water Development Board Rules	31 Tex. Admin. Code §356-358 (2008)	<a href="http://info.sos.state.tx.us/pls/pub/readtac\$ext.ViewTAC?tac_view=3&amp;ti=31&amp;pt=10">http://info.sos.state.tx.us/pls/pub/readtac\$ext.ViewTAC?tac_view=3&amp;ti=31&amp;pt=10</a>	<a href="http://www.tceq.texas.gov/search_forms.html">http://www.tceq.texas.gov/search_forms.html</a>
	Water Rights, Substantive	30 Tex. Admin. Code § 297 (2002)	<a href="http://info.sos.state.tx.us/pls/pub/readtac\$ext.ViewTAC?tac_view=4&amp;ti=30&amp;pt=1&amp;ch=297">http://info.sos.state.tx.us/pls/pub/readtac\$ext.ViewTAC?tac_view=4&amp;ti=30&amp;pt=1&amp;ch=297</a>	
Utah	Department of Natural Resources Water Rights	Utah Admin. Code r. R655 (2009)	<a href="http://www.rules.utah.gov/publicat/code/r655/r655.htm">http://www.rules.utah.gov/publicat/code/r655/r655.htm</a>	<a href="http://www.waterrights.utah.gov/wrinfo/forms/">http://www.waterrights.utah.gov/wrinfo/forms/</a>
Vermont	Water Withdrawals for Snowmaking	Vt. Code R. § 16-01 (1996)	<a href="http://www.anr.state.vt.us/dec/rules/pdf/chap16.pdf">http://www.anr.state.vt.us/dec/rules/pdf/chap16.pdf</a>	<a href="http://www.vtwaterquality.org/permits.htm">http://www.vtwaterquality.org/permits.htm</a>
	Virginia Water Protection Permit Program	9 Va. Admin. Code § 25-210 (2008)	<a href="http://leg1.state.va.us/000/reg/TOC09025.HTM#C0210">http://leg1.state.va.us/000/reg/TOC09025.HTM#C0210</a>	
Virginia	Surface Water Management Area Regulation	9 Va. Admin. Code §§ 25-220 (2008)	<a href="http://leg1.state.va.us/000/reg/TOC09025.HTM#C0210">http://leg1.state.va.us/000/reg/TOC09025.HTM#C0210</a>	<a href="http://www.deq.virginia.gov/Programs/Water/WaterSupplyWaterQuantity/WaterSupplyPlanning/AnnualWaterWithdrawalReporting.aspx">http://www.deq.virginia.gov/Programs/Water/WaterSupplyWaterQuantity/WaterSupplyPlanning/AnnualWaterWithdrawalReporting.aspx</a>
	Declaration of Ground Water Management Areas	9 Va. Admin. Code § 25-610 (1993)	<a href="http://www.deq.virginia.gov/export/sites/default/gwpermitting/pdf/gwwithdrawal_regs.pdf">http://www.deq.virginia.gov/export/sites/default/gwpermitting/pdf/gwwithdrawal_regs.pdf</a>	

State	Admin Reg Title	Admin Reg	Link to Admin Reg	Link to Reporting Forms
Washington	Water Right Administration Procedures	Wash. Admin. Code § 1000 (1990)	<a href="http://www.ecy.wa.gov/programs/wr/rules/images/pdf/pro1000.pdf">http://www.ecy.wa.gov/programs/wr/rules/images/pdf/pro1000.pdf</a>	<a href="http://www.ecy.wa.gov/programs/wr/measuring/reporting.html">http://www.ecy.wa.gov/programs/wr/measuring/reporting.html</a>
West Virginia				<a href="http://www.dep.wv.gov/WWE/wateruse/Pages/default.aspx">http://www.dep.wv.gov/WWE/wateruse/Pages/default.aspx</a>
Wisconsin	Well Construction and Pump Installation	Wis. Admin. Code NR § 812.07 (1994)	<a href="http://www.dnr.state.wi.us/org/water/dwg/Forms/nr812.pdf">http://www.dnr.state.wi.us/org/water/dwg/Forms/nr812.pdf</a>	<a href="http://dnr.wi.gov/topic/wateruse/report.html">http://dnr.wi.gov/topic/wateruse/report.html</a>
	Groundwater Quantity Protection	Wis. Admin. Code NR § 820 (2007) 03-05-1974	<a href="http://www.legis.state.wi.us/rsb/code/nr/nr820.pdf">http://www.legis.state.wi.us/rsb/code/nr/nr820.pdf</a>	
Wyoming	Obtaining a Surface Water Right	Wyo. Code R. § 1792 (1974)	<a href="http://soswy.state.wy.us/Rules/RULES/1792.pdf">http://soswy.state.wy.us/Rules/RULES/1792.pdf</a>	<a href="http://seo.wyo.gov/applications-forms">http://seo.wyo.gov/applications-forms</a>
	Obtaining a Groundwater Right	03-05-1974 Wyo. Code R. § 1804 (1974)	<a href="http://soswy.state.wy.us/Rules/RULES/1805.pdf">http://soswy.state.wy.us/Rules/RULES/1805.pdf</a>	

## Appendix K

### Information Gathered on Application and Water Usage Reporting Forms by State and Water Regulatory Division

**Table K1. Water Rights Application and Usage Reporting Forms Information Gathered by State Combined**

State	Name of Applicant	Address	City	State	Zip Code	Telephone Number	Company Name	Date of Diversion	Withdrawal ID	Date of Pump/Well Installation
Alabama							X	X	X	X
Alaska	X	X	X	X	X	X	X	X		X
Arizona	X	X	X	X	X	X	X			
Arkansas	X	X	X	X	X	X	X			X
California	X	X	X	X	X	X	X	X	X	X
Colorado	X	X	X	X	X	X		X		
Connecticut	X	X	X	X	X	X	X			
Delaware	X	X	X	X	X	X	X			X-see notes
Florida	X	X	X	X	X	X	X		X	
Georgia	X	X	X	X	X	X	X	X	X	X
Hawaii	X	X	X	X	X	X	X		X	
Idaho	X	X	X	X	X	X			X	X
Illinois										
Indiana	X	X	X	X	X	X			X	
Iowa	X	X	X	X	X	X	X	X	X	X
Kansas	X	X	X	X	X	X		X		X
Kentucky	X	X	X	X	X		X	X	X	X
Louisiana										
Maine	X	X	X	X	X	X				
Maryland	X	X	X	X	X	X	X		X	
Massachusetts	X	X	X	X	X	X	X		X	
Michigan	X	X	X	X	X	X	X			
Minnesota	X	X	X	X	X	X	X			
Mississippi	X	X	X	X	X	X	X	X		X
Missouri	X	X	X	X	X	X	X		X	X
Montana	X	X	X	X	X	X				
Nebraska	X	X	X	X	X	X		X		
Nevada	X	X	X	X	X	X	X			X
New Hampshire	X	X	X	X	X	X	X			
New Jersey	X	X	X	X	X	X	X		X	X
New Mexico	X	X	X	X	X	X	X			
New York	X	X	X	X	X	X	X	X		
North Carolina	X	X	X	X	X	X	X		X	
North Dakota	X	X	X	X	X	X				

Use or disclosure of information or data contained on this sheet is subject to the restrictions on the title page of this report.

State	Name of Applicant	Address	City	State	Zip Code	Telephone Number	Company Name	Date of Diversion	Withdrawal ID	Date of Pump/Well Installation
Ohio	X	X	X	X	X	X	X		X	
Oklahoma	X	X	X	X	X	X				
Oregon	X	X	X	X	X	X	X		X	
Pennsylvania	X	X	X	X	X	X	X	X		X
Rhode Island										
South Carolina	X	X	X	X	X	X	X		X	
South Dakota	X	X	X	X	X	X	X			
Tennessee	X	X	X	X	X	X	X	X	X	
Texas	X	X	X	X	X	X			X	
Utah	X	X	X	X	X	X	X			
Vermont	X	X	X	X	X	X	X		X	
Virginia	X	X	X	X	X		X			
Washington	X	X	X	X	X	X	X		X	
West Virginia										
Wisconsin										
Wyoming	X	X	X	X	X	X	X	X		

**Table K1. Water Rights Application and Usage Reporting Forms Information Gathered by State Combined (Continued)**

State	Pump Capacity (gals/min)	Location of Well, Pump, Diversion Works	Well Depth	Depth of Well Casing	Intake Elevation / Depth of Pump Intake	Depth of Water Bearing Formation	Depth to Static Water Level	Water Source (Aquifer/Surface Name)	Avg Withdrawal (gals/year or acre feet/year)	Max Withdrawal (gal/day or gal/min or cubic ft/sec)
Alabama	X	X	X	X	X			X	X	X
Alaska	X	X	X			X	X	X	X	X
Arizona										
Arkansas		X	X		X			X	X	
California	X	X						X	X	
Colorado	X	X	X					X		X
Connecticut		X						X		X
Delaware	X-see notes	X-see notes	X-see notes	X-see notes	X-see notes	X-see notes	X-see notes	X-see notes		X
Florida	X	X	X	X				X	X	X
Georgia	X	X	X	X						
Hawaii		X								X
Idaho		X	X						X	X
Illinois										
Indiana	X	X	X		X (Location)			X		X
Iowa	X	X	X	X	X	X	X	X	X	
Kansas		X	X	X	X	X	X	X	X	X
Kentucky	X	X	X	X	X		X	X	X	X
Louisiana										
Maine		X			X			X	X	
Maryland		X	X		X					
Massachusetts		X								X
Michigan	X	X						X		X
Minnesota	X	X						X	X	X
Mississippi		X	X	X				X	X	X
Missouri	X	X	X	X					X	X
Montana	X							X	X	
Nebraska		X						X	X	X
Nevada		X						X		X

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State	Pump Capacity (gals/min)	Location of Well, Pump, Diversion Works	Well Depth	Depth of Well Casing	Intake Elevation / Depth of Pump Intake	Depth of Water Bearing Formation	Depth to Static Water Level	Water Source (Aquifer/Surface Name)	Avg Withdrawal (gals/year or acre feet/year)	Max Withdrawal (gal/day or gal/min or cubic ft/sec)
New Hampshire								X		X
New Jersey	X	X	X		X			X	X	X
New Mexico		X	X	X				X		
New York		X						X		X
North Carolina	X	X	X		X			X		X
North Dakota		X						X	X	X
Ohio	X	X	X					X		X
Oklahoma	X	X	X						X	
Oregon	X		X	X			X	X	X	
Pennsylvania	X	X	X		X			X		X
Rhode Island										
South Carolina	X		X					X	X	
South Dakota		X	X			X	X	X	X	X
Tennessee		X						X	X	
Texas	X	X						X	X	
Utah		X						X	X	X
Vermont		X						X	X	X
Virginia	X	X		X	X			X		
Washington		X	X					X	X	X
West Virginia										
Wisconsin										
Wyoming										

**Table K1. Water Rights Application and Usage Reporting Forms Information Gathered by State Combined (Continued)**

State	Estimation Method	Acres Irrigated from Source	Avg Inch/year applied	Number of Months Irrigate	Irrigate Days/Month	Water Usage Intent	Chemical Application through Diversion?	Map of Diversion Points	NOTES
Alabama	X	X	X	X	X				
Alaska			X	X		X			
Arizona									
Arkansas		X		X		X			
California	X	X		X		X		X	
Colorado		X				X		X	
Connecticut				X	X				Permitting involves both an application and a documentation attachment that contains further information on the location, source, and diversion methods.
Delaware		X				X	X-see notes	X	Attach documentation/pumping test reports and well information with form, attach information regarding treatment (chemical?) of water prior to use
Florida		X				X		X	Different Application for each of the five water districts. Some currently under revision and some examples are unavailable. Water Rights are applied for primarily on the State level while reporting is done at the district level and then to the State. Information in table required on North West WD permit, as example. Well Permits are acquired through a State-wide process.
Georgia		X				X	X	X	
Hawaii		X		X		X		X	Separate applications for Ground and Surface Water
Idaho		X		X	X	X		X	Also have Temporary Appropriation Form
Illinois									
Indiana						X		X	
Iowa		X		X	X	X		X	
Kansas						X	X	X	

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State	Estimation Method	Acres Irrigated from Source	Avg Inch/year applied	Number of Months Irrigate	Irrigate Days/Month	Water Usage Intent	Chemical Application through Diversion?	Map of Diversion Points	NOTES
Kentucky		X	X	X	X	X		X	Row crop/grain operations are exempt from needing to both apply for and report water usage. Produce and nursery are not. Have application for when exemption does not apply
Louisiana									Water permits not required, permits for wells only required for large industrial projects.
Maine		X				X		X	Wells appear to be uncommon in Maine, with ponds or diverting from streams much more frequently used. A pre-acceptance meeting must occur before actual permitting can be approved.
Maryland		X				X			Application for Agricultural Purposes does not inquire about quantity of water needed, but separate application for non-ag irrigation does. We also have a copy of this form as well.
Massachusetts		X							Acreage for cranberry growers, Permit transfer included in Registration.
Michigan				X		X			
Minnesota	X	X	X	X		X		X	Minnesota requires a preliminary application to construct a well in the case of ground water withdrawal before an actual permit to use the water can be filled out or approved. Some of this information is requested on the pre-application and others on the actual application
Mississippi		X				X		X	
Missouri		X		X	X	X			
Montana		X		X	X	X		X	Ground and Surface Applications are separate, Groundwater Permit requires additional attachments such as Aquifer Testing Report

State	Estimation Method	Acres Irrigated from Source	Avg Inch/year applied	Number of Months Irrigate	Irrigate Days/Month	Water Usage Intent	Chemical Application through Diversion?	Map of Diversion Points	NOTES
Nebraska		X				X		X	Any diversion of surface water is permitted on a district and individual basis, some may require special hearings to get a permit. Surface water is appropriated by the State, Ground is by NRD's
Nevada		X		X	X	X			
New Hampshire						X			
New Jersey					X	X	X	X	
New Mexico		X	X			X			
New York						X		X	Permitting process includes Application and Joint-Application together
North Carolina				X	X	X		X	
North Dakota				X	X	X			
Ohio						X		X	
Oklahoma		X				X		X	Separate forms for Ground and Surface/Stream Withdrawal Permits. Also have temporary 90 day permits for Ground and Surface available.
Oregon		X				X		X	Separate forms for Ground and Surface Withdrawal Permits.
Pennsylvania						X		X	Only major water users (50 mgly or more) need to fill out an application or report
Rhode Island									
South Carolina		X				X		X	
South Dakota		X		X		X		X	
Tennessee				X	X	X		X	
Texas		X				X		X	
Utah		X		X		X			
Vermont						X		X	

State	Estimation Method	Acres Irrigated from Source	Avg Inch/year applied	Number of Months Irrigate	Irrigate Days/Month	Water Usage Intent	Chemical Application through Diversion?	Map of Diversion Points	NOTES
Virginia		X	X			X			New Groundwater Withdrawal Permit currently being revised. Information taken from Existing Users form
Washington West Virginia				X	X	X		X	Farmers and Irrigators are exempt from filling out both an application/permit and reporting water use in West Virginia. Permitting is only required in the Great Lakes Basin and is simply a letter with an pre-approved amount. Any user who is using under 100k gallons in a 30-day period are exempt. Tied to ownership of property instead of source. Forms are generated for each permittee and signed on an individual basis.
Wisconsin									
Wyoming						X		X	

**Table K2. Water Regulatory Divisions for Reporting Purposes and Information Required by State**

State	Water District	Special Use Area	Water Owner (Name or Permit Number)	Location of Pump/Diversion Point Description	Acres Irrigated	Management District ID	County	Pump Rate	Irrigation System Code	Energy ID
Alabama			Owner Name and Certificate of Use Number	Withdrawal Name						
Alaska			Water User Name/Water Right Number	Source Name/Meter Reading						
			Owner Name and Right/Permit Number	Withdrawal Location/DWR Well Registration						
Arizona	Phoenix AMA Pinal AMA Prescott AMA Tuscon AMA Santa Cruz AMA									
Arkansas			Owner Name/ID	X	X		X			
California			Claimant Name	Source and Diversion Works Name, Section/Township	X		X			
Colorado			Owner and/or User Name							
Connecticut			Permitee/Contact Name, Permit Number	Diversion Name				X		

State	Water	Special	Water Owner	Location of	Acres	Management	County	Pump	Irrigation	Energy
Delaware										
	Northwest Florida WMD		Permittee Name and Permit Number		X					
Florida	Suwannee River WMD							X		
	St. Johns River WMD		Permittee Name and Permit Number							
	South Florida WMD									
	Southwest Florida WMD		Permittee Name and Permit Number							
Georgia			Permittee and GW Permit Number	Reporting from Aquifer or Multiple Aquifers						
Hawaii			Permittee and Address	Ground: State Well Number/Name, Surface: Gage ID/Name						
Idaho			Permittee/Contact Name, Water Right Number	Diversion Name and Site Tag Number				X		
Illinois			Facility Name/Number, Contact Name	Well/intake/Township information				X	X	
Indiana			Permittee and Facility Reg. Number	Well/intake information, Source ID,				X		
Iowa			Permittee, Permit Number	Name and Type of Water Source	X					

State	Water	Special	Water Owner Permit Number and Unique Owner ID	Location of Section/Township/Range	Acres X	Management X	County X	Pump X	Irrigation X	Energy X
Kansas	Big Bend Groundwater Management Equus Beds Groundwater Management Northwest Kansas Groundwater Management Southwest Kansas Groundwater Management Western Kansas Groundwater Management			Sheridan 6 LEMA						
Kentucky										
Louisiana			Well Owner/Contact Name	DOTD Well Number/Parish						



State	Water	Special	Water Owner	Location of	Acres	Management	County	Pump	Irrigation	Energy
Maine			Contact/Agent Name	Water Source info, If Groundwater Well, Distance from/identification of Nearest Surface Water Body. Municipality and Township			X	X		
Maryland			Permittee/Number Facility Name, Registration/Permit Number (if applicable), Watershed information	Withdrawal Point and Location	X			X		
Massachusetts			Farm Name, Manager/Owner Name	Pump ID, Location, capacity, Water Source Information	X		X	X		
Michigan			Permit Number		X			X		
Minnesota			Name and Major Water User ID Number	Water Use Information: Withdrawal/Intake ID Number, Well Cert#, Water Body Name, etc	X					
Mississippi			Water Right Owner Name and Permit Number	Location and Type of Device Used				X		
	Central Platte NRD				X			X	X	X
	Lewis & Clark NRD									
	Little Blue NRD			Legal Description of Well	X		X			
	Lower Big Blue NRD									
	Lower Elkhorn NRD			Legal Description of Well	X		X			
	Lower Loup NRD		Owner Name	Legal Description of Well	X		X			

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State	Water	Special	Water Owner	Location of	Acres	Management	County	Pump	Irrigation	Energy
	Lower Niobrara NRD		Certified Operator Name	Legal Description of Well	X		X	X		
	Lower Platte North NRD			Legal Description of Well	X		X			
	Lower Platte South NRD			Legal Description of Well	X		X			
	Lower Republican NRD			Legal Description of Well	X		X			
	Middle Niobrara NRD			Legal Description of Well	X		X			
	Middle Republican NRD			Legal Description of Well	X		X			
	Nemaha NRD			Legal Description of Well	X		X			
	North Platte NRD			Legal Description of Well	X		X			
	Papio Missouri River NRD									
	South Platte NRD			Legal Description of Well	X		X			
	Tri-Basin NRD*			Legal Description of Well	X		X			
	Twin Platte NRD		Owner Name, Well Permit/Reg. Number	Legal Description of Well	X		X	X		
	Upper Big Blue NRD*		Well Registration Number	Legal Description of Well	X		X	X		
	Upper Elkhorn NRD			Legal Description of Well	X		X			
	Upper Loup NRD		Name, Registration Number	Legal Description of Well	X		X	X		

State	Water	Special	Water Owner	Location of	Acres	Management	County	Pump	Irrigation	Energy
	Upper Niobrara-White NRD		Land Owner Name	Legal Description of Well	X		X			
	Upper Republican NRD			Legal Description of Well	X		X			
Nevada			Permittee/Contact Name and Permit Number	Well Name or Basin Number				X		
New Hampshire			Facility and Contact Name	Source Name and Destination ID						
New Jersey			Online Account, Facility Name/ID	Source Name , Well/Intake Information Location of Well, Number,	X					
New Mexico			Permittee/Contact Name and Type of Permit	Subdivision/Township (for Ground) also USGS Coordinates and Lat/Long (for Surface), Source Information	X			X		
New York			Facility and Contact Name	Source Name/Type				X		
North Carolina			Facility/Owner Name, Permit Number	Source and Well ID Numbers, Lat/Long			X	X		
North Dakota			Permittee Name and Permit Number	N/A	X			X		
Ohio			Contact Name and Facility Name/Owner	Facility Well ID (Ground) or Intake ID (Surface), Source/Well Number						
Oklahoma			Administrative Data kept on file Water Right Holder's	Pump/Diversion Point kept on file	X			X		
Oregon			Name/Business or Entity Name, USER ID#	Facility Report ID	X					

State	Water	Special	Water Owner	Location of	Acres	Management	County	Pump	Irrigation	Energy
Pennsylvania			Facility and Client Name							
Rhode Island			*Agricultural Facilities do not report unless requested to under special circumstances*							
South Carolina			Permit holder/number	Source(ground), name of well or wells utilized				X		
South Dakota			Permit/Right Number and Owner/Operator Name		X			X		
Tennessee			Contact Name, TVA 26a Permit Information,	Source/Intake Information				X		
Texas			Survey Name/Number, PWS ID Number	Aquifer/Source/Well Information for Purchased and Self-Supplied Water			X			
Utah			System Supervisor Name, Name of who filled out form	Source/Well Information				X		
Vermont			Water System ID	Facility ID (Water Source)						
Virginia			Facility/Owner Name	Well Number						
Washington			Organization and Contact Name, Permit Number	Only Meter Type				X		
West Virginia										
Wisconsin			Property Name/Number, Owner/Operator #	Source Name, Well Number, Public Water System ID (if applicable)					X	
Wyoming			N/A	N/A						

**Table K2. Water Regulatory Divisions for Reporting Purposes and Information Required by State (Continued)**

State	Reporting Entity Water Rights Owner	Irrigation Usage (acre inches)			Irrigation Usage (Gallons used)			Notes
		Unit	Crop	Farm	Unit	Crop	Farm	
Alabama	X			X			X	Million Gallons/Day - Monthly Use reporting
Alaska							X	
	X						X	Online Reporting available, two short forms available- one for Santa Cruz AMA, another for all other areas.
Arizona								
Arkansas	X					X	X	
California	X			X			X	Measurement description on form, yearly reporting
Colorado							X	
Connecticut							X	Gallons pumped/day- monthly use reporting
Delaware								
								Water use is reported to the districts and then to the State, but water permits are through the State itself.
Florida							X	
							X	Multiple water reporting forms depending on conditions of permit, with Annual, Periodic, and Summary Forms available.
							X	
							X	No form available, developing automated monitoring of groundwater withdrawals
								Monthly water use reporting

State	Reporting Entity Water Rights Owner	Irrigation Usage (acre inches)			Irrigation Usage (Gallons used)			Notes
		Unit	Crop	Farm	Unit	Crop	Farm	
Georgia					X			Online Reporting for registered users, screenshots unavailable
Hawaii							X	Yearly reporting
Idaho	X			X				Daily/Monthly reporting
Illinois							X	Monthly reporting for both surface/ground
Indiana	X						X	Yearly reporting, typically submitted by water master rather than producer unless requested
Iowa				X			X	Water use breakdown by self-supplied and purchased, Online reporting available
	X						X	Monthly/Annual reporting for ground/surface, online submission
Kansas								Monthly/Annual Reporting
							X	Annual reporting - total use by gallons, forms are mailed to water rights holders
Kentucky								Agricultural water users are exempt from Reporting due to Chapter 22, Article 26 of the newest Legislature.
Louisiana							X	Reporting not required

State	Reporting Entity Water Rights Owner	Irrigation Usage (acre inches)			Irrigation Usage (Gallons used)			Notes
		Unit	Crop	Farm	Unit	Crop	Farm	
Maine							X	Gallons per Hour/Day, Daily and Monthly Predictions/Actuals for Year
Maryland			X					Required to be submitted 30 days after form received. Monthly Reporting for Year.
Massachusetts							X	Annual Reporting, separate forms for reporting water use for growing cranberries and for other crops.
Michigan			X	X		X	X	Monthly Reporting for Year
Minnesota							X	Received screenshots of online process from Sean Hunt on 4/30
Mississippi								Water reporting records are taken during permitting process and voluntary reporting
Missouri				X			X	Monthly Reporting for Year, online reporting available- permitting for new users and reporting is on the same form
Montana	X			X			X	Annual Reporting, Multiple Reporting Forms available- Flow Meter, Hour Meter, Open Channel, Staff Gage, Static Level, Watt Hour Meter can be used.
								Not all Water Districts required to submit reports and some reporting information is obtained via meters, those that are will be sent in by producers in the form of a spreadsheet or written statement with few exceptions. These exceptions vary from one district to another.
								Some districts also participate in Adjacent State Transfers.
Nebraska			X					Reporting required
								Reporting not required, Plan in development
								Volunteer Reports, have form
								Reporting not required
								Yes, for all District required flow meters (sub areas), given information and expecting form
	X		X					Yes, in sub-areas, have form
			X					Yes, in sub-areas, have form

State	Reporting Entity Water Rights Owner	Irrigation Usage (acre inches)			Irrigation Usage (Gallons used)			Notes
		Unit	Crop	Farm	Unit	Crop	Farm	
			X					Volunteer Reports
			X					Reporting required, provided by meters, called Friday, May 9th, information verified May 20th
			X					Reporting required, provided by meters, called Friday, May 9th,
			X					Yes, in sub-areas
			X					Reporting required, provided by meters read on site
			X					Reporting required, provided by meters read on site
			X					Reporting required, provided by meters read on site, called Friday, May 9th
								Reporting not required
			X					Reporting required, provided by meters read on site, information obtained May, 9th
			X					Reporting required, provided by meters read on site
			X					Reporting not required, but information can be included in form for soil/fertilizer use.
				X			X	Reporting required, provided by meters read on site, Groundwater only
			X					Reporting required, provided by meters read on site
				X				Reporting required, some through flow meters and others with pumping hours reported with acre-inches then calculated from that information. Working to get flow meters universally required within district
			X					Reporting required, provided by meters read on site
			X					Reporting required, provided by meters read on site, called Friday, May 9th
Nevada								
New Hampshire							X	Monthly Online Reporting Process
New Jersey								Quarterly or Annual Online Reporting Process



State	Reporting Entity Water Rights Owner	Irrigation Usage (acre inches)			Irrigation Usage (Gallons used)			Notes
		Unit	Crop	Farm	Unit	Crop	Farm	
New Mexico				X				Separate Forms for Ground and Surface Water
New York							X	Monthly Reporting Due March 31 of Each Year. General Map (USGS) and Interbasin Diversions (if any) also required
North Carolina							X	Application and Reporting on the same form
North Dakota				X				Online Reporting
Ohio							X	Annual Reporting
Oklahoma				X				Water is Pre-Allocated, Report is only to verify
Oregon	X			X			X	October through September of following year (Annual) reporting
Pennsylvania							X	Online Annual Reporting from Jan to Dec, Unable to acquire screenshots, but have sample Subfacility Report
Rhode Island							X	Only major water suppliers (50million gallons/year or more) are required to report. Agricultural needs are pre-estimated and privately verified by consumers *See email in State file*
South Carolina							X	Actual Reporting Forms mailed strictly to water-rights holders, but requirements visible in other documents.
South Dakota			X				X	Monthly/Annual Reporting due by December 2 of each year
Tennessee							X	Daily Averages Annual Report due by March 1 of each year
Texas							X	Municipal Water Use Survey due December 31 of each year. Forms for Ground/Surface/Purchased/Self-Supplied available.
Utah		X		X	X		X	Annual Online Reporting when requested. Water is allocated and monitored.
Vermont							X	Daily/Monthly forms Annually submitted

State	Reporting Entity Water Rights Owner	Irrigation Usage (acre inches)			Irrigation Usage (Gallons used)			Notes
		Unit	Crop	Farm	Unit	Crop	Farm	
Virginia	X						X	Online Reporting available, Monthly/Annual Withdrawal Amounts. Excess over 10,000 gallons/day is required to be reported, below that is voluntary
Washington	X			X			X	Online Reporting available. Reporting due by January 31 each year
West Virginia								Farmers and Irrigators are exempt from filling out both an application/permit and reporting water use in West Virginia
Wisconsin	X						X	Annual Reporting due March 1 for previous year, majority of information that would supplement the actual permitting process as is typical in most States is taken from the water reporting form instead.
Wyoming								Reporting not required

## Appendix L

### Sample Limited Irrigation Approved Yield Calculator

**Inputs**

State/County	Name/name	Sheridan/Kansas
State County FIPS	Code	20179
Irrigated Crop	Name	corn
Policy	XXXXXXXXXX	635297G
Unit	NNNN	1
Average rainfall from SPOI (inches)	num <sub>1</sub>	20.00
SD of rainfall from SPOI (inches)	num <sub>2</sub>	1.10
Irrigated reference yield from SPOI	num <sub>3</sub>	125
Non-irrigated reference yield from SPOI	num <sub>4</sub>	120
<i>Water applied to obtain APH historical values*</i>		
irrigation water applied previous harvest year (inches)	num <sub>5</sub> *	8.0
irrigation water applied previous year-1 (inches)	num <sub>6</sub> *	10.0
irrigation water applied previous year-2 (inches)	num <sub>7</sub> *	9.0
irrigation water applied previous year-3 (inches)	num <sub>8</sub> *	12.0
irrigation water applied previous year-4 (inches)	num <sub>9</sub> *	12.0
irrigation water applied previous year-5 (inches)	num <sub>10</sub> * or blank	13.0
irrigation water applied previous year-6 (inches)	num <sub>11</sub> * or blank	13.0
irrigation water applied previous year-7 (inches)	num <sub>12</sub> * or blank	
irrigation water applied previous year-8 (inches)	num <sub>13</sub> * or blank	
irrigation water applied previous year-9 (inches)	num <sub>14</sub> * or blank	
Approved yield from APH History in appropriate units	num <sub>15</sub> *	180
Water to be applied this year (inches)	num <sub>17</sub> *	6.5
Other Changes to irrigation practices list:	enter yes or no enter changes already implemented in irrigation practices other than amount of water applied	yes Lowered sprinkler heads into canopy, Changed timing of application, Changed variety to drought tolerant
Qualified changes to irrigation practices	check against approved list and enter yes or no	yes
Acceptable documentation of irrigation water applied	check against standards and enter yes or no	yes

\*best estimate if necessary or blank

**Outputs**

Count of irrigation records	returns count	7
average irrigation water applied (inches)	returns average	11
Keep irrigated approved yield without changes	returns yes or no	no
Limited Irrigation Approved Yield	returns value or " "	154
Change practice to non-irrigated	returns yes or " "	
Approved yield for non-irrigated	returns value or " "	