### Appendix A. Census of Agriculture Methodology

The purpose of a census is to enumerate all objects with a defined characteristic. For the census of agriculture, that goal is to account for "any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the census year." To do this, NASS creates a Census Mail List (CML) of agricultural operations that potentially meet the farm definition, collects agricultural information from those operations, reviews the data, corrects or completes the requested information, and combines the data to provide information on the characteristics of farm operations and farm producers at the national, State, and county levels. In this appendix, these census processes are described.

#### THE CENSUS POPULATION

#### The Census Mail List

The National Agricultural Statistics Service (NASS) maintains a list of farmers and ranchers from which the CML is compiled. The goal is to build as complete a list as possible of agricultural places that meet the farm definition. The CML compilation begins with the list used to define sampling populations for NASS surveys conducted for the agricultural estimates program. Each record on the list includes name, address, telephone number, and email plus additional information that is used to efficiently administer the census of agriculture and agricultural estimates programs.

NASS builds and improves the list on an ongoing basis by obtaining outside source lists. Sources include State and federal government lists, producer association lists, seed grower lists, pesticide applicator lists, veterinarian lists, marketing association lists, and a variety of other agriculture-related lists. NASS also obtains special commodity lists to address specific list deficiencies. These outside source lists are matched to the NASS list using record linkage programs. Most names on newly acquired sources are already on the NASS list. Records not on the NASS list are treated as potential farms until NASS can confirm their existence as a qualifying farm. Staff in NASS regional and field offices routinely contact these potential farms to determine whether they meet the farm definition. For the 2022 Census of Agriculture, NASS made a concerted effort to work with community-based organizations not only to improve list coverage for

minorities but also to increase census awareness and participation.

List building activities for developing the 2022 CML started in 2019 by updating list information from respondents to the 2017 Census of Agriculture. Between 2017 and 2022, NASS conducted a series of National Agricultural Classification Surveys (NACS) on over 2.1 million records, which included nonrespondents from the 2017 census and newly added records from outside list sources. The NACS report forms collected information that was used to determine whether an operation met the farm definition. If the definition was met, the operation was added to the NASS list and subsequently to the CML. Addressees that were nonrespondents to a NACS were also added to the CML and identified with a special status code.

Measures were taken to improve name and address quality. Additional record linkage programs were run to detect and remove duplicate records both within each State and across States. List addresses were processed through software programs that utilize the United States Postal Service's National Change of Address System and the Locatable Address Conversion System to improve mail delivery. Records on the list with missing or invalid phone numbers were matched against a nationally available telephone database to obtain as many phone numbers as possible. To reduce costs, operations with characteristics that indicated they were unlikely to be farms, according to the farm definition, were removed from the list.

The official CML for the 2022 Census of Agriculture was established on September 3, 2022. The list contained 2,879,343 records. Of these, 2,079,333 records were thought to meet the NASS farm definition and 800,010 were potential farm records, which included NACS nonrespondents, other records added to the CML by the NASS regional field offices after the record linkage process, and late adds to the CML that were not included in any previous NACS or State screening survey.

#### Not on the Mail List (NML)

Extensive efforts are directed toward developing a CML that includes all farms in the U.S. However, some farms are not on the list, and some agricultural operations on the list are not farms. NASS uses its June Area Survey (JAS) to

quantify the number and types of farms not on the CML. The records in the JAS that are not on the CML are said to be in the Not-on-the-Mail List (NML) domain. If a JAS record in the NML domain is determined to be a farm during the census, it is an NML farm. The NML farms are used to measure coverage associated with the grown crops, farm numbers, and inventories of cattle. Sampled segments in the JAS are personally enumerated. Each operation identified within a segment boundary is known as a tract.

The 2022 JAS sample was increased to improve the farm counts for operations that produced specialty commodities or had socially disadvantaged or minority producers. The total JAS sample consisted of 14,015 segments of which 4,933 were additional ACES segments. This set of additional segments is referred to as the Agricultural Coverage Evaluation Survey (ACES) segments. The ACES segments were selected using a multivariate sampling design that targeted specific items at the U.S. level. The 2022 JAS consisted of sample segments from all States, with the exception of Alaska where NASS does not maintain an area frame.

During the JAS/ACES enumeration process, each tract is identified as either agricultural or non-agricultural. Each JAS/ACES agricultural tract is identified as a farm or nonfarm in June based on the farm definition of \$1,000 of sales or potential sales of agricultural products. Non-agricultural tracts are further classified into categories: with farm potential, with unknown farm potential, or with no farm potential. The names and addresses collected in the 2022 JAS/ACES were matched to the CML. Those from the 2022 JAS/ACES that did not match were determined to be in the NML domain and sent a yellow census report form so that they could be differentiated from the green report form sent to those addressees on the CML. Instructions on the census report form directed any respondent who received duplicate forms to complete the CML form and to mail all duplicate forms back together. Those who returned a CML and an NML form had been misclassified as NML and were removed from the NML domain.

The initial NML mailout consisted of 41,273 records. A total of 40,775 NML records were analyzed, of which 1,913 records were confirmed to be NML and in-scope.

The farm/nonfarm status of each NML domain operation was determined based on the reported data in the census form. An operation in the NML domain that was determined to be a farm is referred to as an NML farm. Characteristics of NML farms and their producers provided a measure of the undercoverage of farms present in the CML.

The percentage of farms not represented on the CML

varied by State. In general, NML farms tended to be small in acreage, production, and sales of agricultural products. Farm operations were missing from the CML for various reasons, including the possibility that the operation started after development of the CML, the operation was so small that it did not appear in any agriculture-related source list, or the operation was misclassified as a nonfarm prior to census mailout. The CML was used with the NML in a capture-recapture framework to represent all farming operations across all States in the JAS sample.

### DATA COLLECTION OUTREACH AND PROMOTIONAL EFFORTS

NASS planned and executed a multi-phase strategic communications campaign for the 2022 Census of Agriculture, to increase the level of awareness and response among all U.S. agricultural producers.

- Phase 1 ran from April 2021 June 2022. It raised awareness about the census and list building, encouraged producers to sign up in response to NASS mailings and at community, association, and other stakeholder meetings where NASS partners reached out.
- Phase 2 ran from July 2022 October 2022. It notified farm producers and agricultural organizations that the census would be mailed in November and encouraged communications regarding the census.
- Phase 3 ran from November 2022 May 2023. It focused on census data collection with messaging urging response to remind producers that it was not too late to respond.
- Phase 4 ran from August 2023 February 2024. It thanked producers for their participation and NASS partners for their support and informed everyone of the February 2024 data release plan.

The communications campaign focused on these primary areas: partnership building, local-level outreach, public relations, media relations, paid media, social media and some paid advertising. Some external support was provided by a private communications agency (i.e. primarily assisted with design and paid advertising).

The unifying force behind the 2022 communications campaign was the theme "Your Voice. Your Future. Your Opportunity." This was accompanied by supporting messages and artwork that created a consistent look and feel for all census communications. All messages and materials served the purpose of inspiring action: Sign Up to Be Counted - Show the Value of Your Work - *Grow Your* 

Farm Future - Shape Farm Policy/Programs - Respond to the Census of Agriculture - Be counted - The Census of Agriculture is Your Voice, Your Future, Your Opportunity.

#### Partnership and Local-Level Outreach

At the national level, NASS officials met with leaders from dozens of agricultural organizations, State Departments of Agriculture, and other USDA agencies to successfully secure their support in promoting the census among their constituencies. Stakeholders partnered with NASS to promote the 2022 Census of Agriculture through publications (e.g. newsletters), special mailings, speeches, social media, websites, and other communications. In addition, through grassroots-level outreach and efforts, NASS partnered with a number of community-based organizations to reach minority and limited-resource farmers and ranchers. National-level outreach was encouraged and mirrored at the regional, State, and local levels. Among the highlights of these partnership efforts was the production of multiple television and radio public service announcements featuring the U.S. Secretary of secretaries, Agriculture, State directors, and commissioners of agriculture and leaders from community-based organizations.

### Coverage of American Indian and Alaska Native Farm Producers

To maximize coverage of American Indian and Alaska Native agricultural producers, special procedures were followed in the census. A concerted effort was made to get individual reports from every American Indian and Alaska Native farm or ranch producer in the country. If this was not possible within some reservations, a single reservationlevel census report was obtained from knowledgeable reservation officials. These reports covered agricultural activity on the entire reservation. NASS staff reviewed these data and removed duplication with any data reported by American Indian or Alaska Native producers who responded on an individual census report form. Additionally, NASS obtained, from knowledgeable reservation officials, the count of American Indian and Alaska Native producers (on reservations) who were not counted through individual census report forms, but whose agricultural activity was included in the reservation-level report form.

Table D, American Indian and Alaska Native Producers: 2022 provides the number of producers (1) reported as American Indian or Alaska Native in the race category, either as a single race or in combination with other races, on the individual census report forms (for up to four per farm) and (2) identified as American Indian or Alaska Native producers farming on reservations by reservation officials. The count from the individual report forms is summarized in the "Individually reported" column. It includes up to four producers on or off reservations. The "Other" column provides counts of producers on reservations as reported by a reservation or tribal official. The "Total" column is simply a sum of the "Individually reported" and the "Other" columns. Tables in other parts of the publication count the reservation-level reports as single farms.

#### **Public Relations**

In the public relations arena, NASS worked with internal and external, national, regional, and local stakeholders to equip them with communications tools and resources to deliver the census communications message to their audiences. NASS utilized its Intranet, the Partner Tools section on the census webpage, and a regularly scheduled, newsletter-type email update to deliver materials to staff across its 12 regions, other USDA agencies and external stakeholders. The materials included but were not limited to: customizable news releases, public service announcement scripts, and a PowerPoint template; Secretary of Agriculture video public service announcements, and drop-in advertisements; informational, instructional, and testimonial videos; website buttons and banners; brochures in multiple languages; social media posts; flyers; posters; FAQ sheets, talking points, and more. In addition, at the national level, NASS issued six news releases during data collection (three more were produced before data collection to inform and prepare producers) citing department and agency spokespeople, published half a dozen timely and relevant pieces to the USDA blog highlighting the census, and conducted three social media campaigns. These public relations efforts at the national and local-levels helped ensure that NASS' message about the census was continually in the media, including print and online publications, a variety of social media, radio, and some television programs. Media outlets included both those specializing in agriculture and more general outlets.

#### Paid Media

With a very limited budget, NASS was able to apply a small portion of funds toward paid advertising. For the 2022 Census of Agriculture, NASS strategically advertised in regional print publications, online, and with national agriculture news services (i.e., TV, radio) to bolster reach both in general and within geographically specific, previously under-represented populations and lower response areas.

#### DATA COLLECTION

#### **Method of Enumeration**

Data collection was accomplished primarily by mail, Computer-Assisted Self Interview (CASI) on the Internet, and personal enumeration for special classes of records in operations. Personal the census enumeration (interviewing) involved the use of both Computer-Assisted Telephone Interview (CATI) and Computer-Assisted Personal Interview (CAPI) data collection instruments. Enumerators at the five NASS Data Collection Centers conducted CATI data collection. In addition, enumerators under contract with NASS through the National Association of State Departments of Agriculture (NASDA) conducted phone and personal interviews with respondents. For the 2022 Census of Agriculture, NASS implemented a pre-notification strategy to increase awareness, improve overall responses, and encourage respondents to report early to avoid continued correspondence. All records with an e-mail address received an e-mail message marketing the improved web form and announcing the census mail packets were coming.

#### **Report Forms**

Four versions of report forms were used for the 2022 Census of Agriculture:

- General form (22 A100)
- Hawaii form (22 A101)
- American Indian form (22 A300)
- Farm Status form (22 A400)

The general form facilitated reporting crops and livestock most commonly grown and raised in the U.S. The short form expedited reporting specific crops or livestock for preidentified farms and ranches in the U.S. The Hawaii form targeted crops and livestock specifically grown or raised on farms and ranches in Hawaii. The American Indian form focused on crops and livestock for farms and ranches on reservations in Arizona, New Mexico, and Utah. All report forms allowed respondents to write in specific commodities that were not prelisted on their report form.

#### **Report Form Mailings**

Census data collection began on November 22, 2022. Nearly all producers on the CML received a letter inviting them to report online. They received a unique survey code and instructions for completing their census online. The letter encouraged producers to report online early to avoid receiving mail and phone follow-up. Approximately 3 million mail packets were mailed in December 2022. Each packet contained a cover letter, instruction sheet, a labeled report form, and a return envelope. The Census Bureau's National Processing Center (NPC) in Jeffersonville, IN was contracted to perform mail packet preparation, initial mailout, and two follow-up mailings to nonrespondents.

The initial mailout was followed by a thank-you reminder correspondence in January 2023. This pressure-sealed envelope reminded respondents of the approaching deadline and that they could report online. First follow-up mail packets were mailed in mid-February 2023 to approximately 1.5 million nonrespondents. Second follow-up mail packets were mailed in mid-March 2023 to approximately 1 million nonrespondents. A final mailing went to approximately 800,000 non-respondents. This mailing included a drastically reduced four-page questionnaire designed to primarily determine if the operation was a farm or not in business.

#### Nonresponse Follow-up

Operating concurrently with NPC's mail data collection efforts, NASS Data Collection Centers targeted selected groups of census nonrespondents for telephone enumeration. NASS regional field offices targeted selected groups of census nonrespondents for in-person enumeration. These efforts were referred to as:

- Must Case Follow-up
- American Indian Producer Follow-up
- National Nonresponse Follow-up
- Not on Mail List (NML) Follow-up

Must Case Follow-up. Must cases are known large or unique operations, the absence of which could have significantly affected the accuracy of census results. For the 2022 Census of Agriculture, 125,697 records were categorized as Must cases. Each active Must operation was accounted for by mail receipt, phone interview, or personal enumeration; if an operation was no longer in business, its nonfarm status was documented. Call centers conducted CATI calling of nonrespondent Must cases from March 2023 through May 2023, after the initial and first follow-up mailings. Following the CATI calling, the remaining nonresponse Must cases were assigned to regional field offices for personal enumeration. Because of the potential importance of Must cases, they were all accounted for and therefore not eligible for nonresponse weighting adjustment.

American Indian Producer Follow-up. The American Indian report form (22-A300) was mailed to all operations in Arizona, New Mexico and Utah thought to have an American Indian producer. It was included in the initial

mailout, but due to poor mail response, a personal enumeration data collection strategy was utilized with no additional mail follow-up. A concerted effort was made to get individual reports from every American Indian farm producer in the country. If this was not possible within a reservation, a single reservation-level census report was obtained from knowledgeable reservation officials. These reports covered agricultural activity on the entire reservation. NASS staff reviewed these data and removed any duplicate data reported by American Indian producers from that reservation who responded on an individual census report form. Additionally, NASS obtained, from knowledgeable reservation officials, the count of American Indian farm producers (on the reservations) who were not counted through individual census report forms, but whose agricultural activity was included in the reservation-level report form.

National Nonresponse Follow-up (Excludes Must Records). In April 2023, a group of records that were not part of other nonresponse data collection efforts were identified for additional phone contacts. In total, 82,237 records with specified demographics and/or eligibility for Census Special Studies (follow-ons) were made available for nonresponse Computer-Assisted Telephone Interviews (CATI).

Not-on-the-Mail List (NML) Follow-up. To account for farming operations not on the CML, NASS used its 2022 JAS sample from the NASS area frame, augmented with the ACES segments. Because the NASS area frame covers all land in the U.S. with the exception of Alaska, it includes all farms. As previously described, NASS conducted a record linkage operation between the CML records and the records from the 2022 JAS/ACES. Those 2022 JAS records that did not match records on the CML were designated as "Not-on-the-Mail List" (NML) records. These records were mailed a yellow census form so that it could be differentiated from the green forms mailed to CML records. The NML records were mailed at the same time as the census mailing and received the same follow-up procedures as the census mailing through the first followup in mid-February 2023. Beginning in March 2023, CATI was used for nonresponse follow-up for NML nonrespondents.

#### **REPORT FORM PROCESSING**

#### Data Capture

The Census Bureau's National Processing Center (NPC) in Jeffersonville, IN was contracted to process returned mail packets. NASS staff on site at the NPC provided technical guidance and monitored NPC processing activities. All report forms returned to the NPC were immediately checked in, using bar codes printed on the mailing label, and removed from follow-up report form mailings. All forms with any data were scanned and an image was made of each page of a report form. Optical Mark Recognition (OMR) was used to capture categorical responses and to identify the other answer zones in which some type of mark was present.

Data entry operators keyed data from the scanned images using OMR results that highlighted the areas of the report forms with respondent entries. The keyer evaluated the contents and captured pertinent responses. Ten percent of the captured data were keyed a second time for quality control. If differences existed between the first keyed value and the second, an adjudicator handled resolution. The decision of the adjudicator was used to grade the performance of the keyers, who were required to maintain a certain accuracy level.

The images and the captured data were transferred to NASS's centralized network and became available to NASS analysts on a flow basis. The images were available for use in all stages of review.

#### **Editing Data**

Captured data were processed through a computer formatting program that verified that records were valid – that the record ID number was on the list of census records, that the reported counties of operation and production were valid, and other related criteria. Rejected records were referred to analysts for correction. Accepted records were sent to a complex computer batch edit process. Each execution of the computer edit in batch mode consisted of records from only one State and flowed as the data were received from NPC, the NASS Computer-Assisted Self Interview (CASI), or the Computer-Assisted Telephone Interview (CATI) applications.

The computer edit determined whether a reporting operation met the qualifying criteria to be counted as a farm (in-scope). The edit examined each in-scope record for reasonableness and completeness and determined whether to accept the recorded value for each data item or take corrective action. Such corrective actions included removing erroneously reported values, replacing an unreasonable value with one consistent with other reported data, or providing a value for an item omitted by the respondent. To the extent possible, the computer edit determined a replacement value. Strategies for determining replacement values are discussed in the next section. Operations failing to meet the qualifying criteria for being classified as a farm were categorized as out-ofscope for the census. Records that NASS had reason to believe might have been erroneously classified as out-ofscope (indications of recent and/or significant agricultural activity reported on NASS surveys, for example) were referred to analysts for verification.

The edit systematically checked reported data section-bysection with the overall objective of achieving an internally consistent and complete report. NASS subject-matter experts had previously defined the criteria for acceptable data. Problems that could not be resolved within the edit were referred to an analyst for intervention. Prior to the census mail-out, NASS established a group of analysts in a Census Editing Unit in the National Operations Center in St. Louis, MO who examined the scanned images, consulted additional sources of information, and determined an appropriate action. Regional field office analysts also participated using an interactive version of the edit program to submit corrected data and immediately re-edit the record to ensure a satisfactory solution.

#### Farm Status Form Editing

From the CML, 883,732 records were selected to receive a Farm Status form as a final follow-up form; this form was derived from the full census report form by selecting a subset of the questions on the full form. Since these questions were also asked on the general form, the edit was able to treat the Farm Status form responses as though they were incomplete general forms, as described in the previous paragraphs.

#### **Imputing Data**

The edit determined the best value to impute for reported responses that were deemed unreasonable and for required responses that were absent. If an item could not be calculated directly from other current responses, the edit determined whether acreage, production, or inventory items had been reported for that farm on a recent NASS crop or livestock survey. For producers who had not changed in five years, demographics such as race and gender were taken from the previous census. Administrative data from the Farm Service Agency were used for a few items, such as Conservation Reserve Program acreage. When deterministic edit logic and previously-reported data sources were unable to provide a current value, data from a reporting farm of similar type, size, and location were considered. In cases where automated imputation was unable to provide a consistent report, the record was referred to an analyst for resolution.

Separate system processes were established to efficiently provide data from a similar farm to the edit when donor imputation was required. The farm characteristics used to define similarity between a recipient record and its donor record were determined dynamically by the edit logic. Euclidean distance was used for similarity computations, with each contributing similarity characteristic scaled appropriately. The most similar farm based on this criterion (the "nearest neighbor") was identified and returned to the edit for use as a donor. The calculated distance between the centroids of the principal counties of production of the donor and recipient was always included as one of the measures of similarity.

To provide donors to the automated edit, a pool of successfully edited records was maintained for each section of the report form. These donor pools began with 2017 census data, reconfigured to emulate 2022 data and then edited using 2022 logic. Data from the 2020 Census Content Test were similarly remapped and edited before being added to the original donor pools. As 2022 records were successfully processed, they were added to the donor pools, which maintained the most recent data for each farm. Donor pools were updated approximately every other week, as determined by edit processing schedules. After several updates, all initial data records were dropped, leaving only 2022 records in the donor pools. After each update, donor pool records were grouped into strata containing farms in the same State of similar type and size, using a data-driven algorithm to define strata. Certain American Indian farms were treated as a separate group, effectively having their own donor pool.

In response to each donor request issued by the edit, a dedicated system process would search the appropriate stratum and respond with the most similar donor, while giving preference to more recent donors. In relatively rare instances where it was unable to provide a donor, the donor selection process issued an appropriate failure message to the edit. Imputation failures occurred for several different reasons. The requirement that an imputed value be positive could have ruled out all available donors, as could have the necessity for the donor record to satisfy a particular constraint - say, that the donor record has cattle, but no milk cows. In general, an imputation failure occurred if there were no satisfactory donors in the same profile as the report being edited. Records with imputation failures were either held until more records were available in the donor pool or referred to an analyst. In addition, when such a failure occurred in finding a donor for expenditure data, donor pool averages were provided in lieu of an individual donor, wherever possible. This "failover" utility was first introduced for the 2012 census imputation process, and significantly reduced the number of imputation failures among the expenditure and labor variables. During the early stages of editing, records requiring imputation for production (and hence yields) of field crops or hay, land values, or certain expenditure variables, were set aside or "parked." These records were edited when the donor pools contained only 2022 records, ensuring that 2022 data were used in the imputations for the variables.

After receiving a donor's data, the edit substituted the values into the edited record. In many cases, the donor record's data value was scaled using another data field specified in the edit logic. In such cases, the size of the auxiliary field's value in the edited record, relative to its value in the donor record, was used to appropriately scale the donor record's value for the field to be imputed. The imputed data were then validated by the same edit logic to which reported data were subject. Since imputation was conducted independently for each occurrence, reports requiring multiple imputations may have drawn from multiple donors.

As was done for the 2017 Census, for records reporting three or more persons as producers, a different imputation process was used for certain items (specifically the items in question 3) in the Personal Characteristics Section. Records with one or two persons reported as producers had these data edited and imputed using the decision logic table edit and donor pool imputation process. Records with three or more persons reported as producers, and for which it was determined that these data were inconsistent or missing, had these data imputed using a fully conditional specification method. During the edit for records reporting three or more producers, the items needing imputation were marked, and the record was flagged. At the end of the data collection period, the data for these records (both the items needing to be imputed and the other variables needed by the model) were pulled and run through the imputation program. The resulting imputed values were loaded back to the records, and the records were made available for review.

#### **Data Analysis**

The complex edit ensured the full internal consistency of the record. Successfully completing the edit did not provide insight as to whether the report was reasonable compared to other reports in the county. Analysts were provided an additional set of tools, in the form of listings and graphs, to review record-level data across farms. These examinations revealed extreme outliers, large and small, or unique data distribution patterns that were possibly a result of reporting, recording, or handling errors. Potential problems were investigated and, when necessary, corrections were made, and the record interactively edited again.

When NASS summarizes data from the census of agriculture, each individual report is typically assigned to a single "principal" county. The principal county is the county in which the majority of an operation's agricultural

products are produced, as reported by the producer. For large operations that have significant production in multiple counties, their reports may be broken up into multiple source counties to more accurately summarize the data. Similarly, for large farms operating in more than one State, separate report forms are completed by State in order to assign the proper portion of the farm's total agricultural production to each State in which the farm operates.

#### ACCOUNTING FOR UNDERCOVERAGE, NONRESPONSE, AND MISCLASSIFICATION

Although much effort has been expended making the CML as complete and accurate as possible, it does not include all U.S. farm operations, resulting in list undercoverage. Additionally, some farm operations on the CML did not respond to the census, despite numerous contact attempts. Finally, although each operation was classified as a farm or a nonfarm based on their census responses, some were misclassified; that is, some nonfarms were classified as farms and some farms were classified as nonfarms. NASS's goal is to produce agricultural census totals for publication at the county level that are fully adjusted for these factors: list undercoverage, nonresponse, and misclassification.

In 2017, NASS used a series of models based on a subset of the responding census and all the JAS records in a captureframework separately adjust recapture to for undercoverage, nonresponse, and misclassification. For the 2022 Census of Agriculture, the capture-recapture methodology was extended to model the probability of capture with a single model, thereby allowing the utilization of all census responses and JAS records in the adjustments. To implement capture-recapture methods, two independent samples are required. The 2022 Census of Agriculture (based on the CML) and the 2022 JAS (based on the area frame) were those two samples. Historically, NASS has been careful to maintain the independence of the CML and the area frame. Thus, the Census of Agriculture and the JAS were assumed to be independent after accounting for heterogeneity in the capture probabilities based on characteristics of records.

For a farm to be identified as a farm, and thus captured by the census, it must be on the CML, respond to the census report form, and be classified as a farm on the form. Thus, the capture probability  $\pi_C$  is of interest:

 $\pi_{\rm C} = \pi(\text{CML}, \text{Responded}, \text{Farm on Census}|\text{Farm})$ 

Two types of classification error can occur. First, a farm can be misclassified as a nonfarm. This type of misclassification is accounted for in determining the probability of capture  $\pi_{\rm C}$ . The second type of classification error results when a response to the census is classified as a farm operation when it does not meet the definition of a farm. That is, some farms on the CML may be misclassified from their census report response and may be nonfarms. To account for the misclassification of nonfarms as farms, the probability of a farm on the census being classified correctly must be estimated; that is,

#### $\pi_{CCFC} = \pi(\text{Farm} \mid \text{Farm on Census})$

where *CCFC* represents Correct Census Farm Classification. To adjust for undercoverage, nonresponse, and misclassification, each CML record classified as a farm based on its response to the census report form was given a weight of the ratio of the estimated probability of correct classification of a farm on the census and the estimated probability of capture  $(\hat{\pi}_{CCFC}/\hat{\pi}_{C}$  where the hat symbol (^) denotes an estimate). To estimate the number of farms with a given set of characteristics, the weights of CML records responding as farms on the census and having that set of characteristics were summed.

This estimator is referred to as the capture-recapture estimator (CR):

$$CR = \sum_{i \in F} \frac{\hat{\pi}_{CCFC,i}}{\hat{\pi}_{C,i}}$$

where F is the set of all CML records classified as farms based on their responses to the census report form.

To estimate these probabilities  $(\hat{\pi}_c \text{ and } \hat{\pi}_{cCFC})$ , the records in the 2022 JAS sample were matched to the 2022 CML using probabilistic record linkage allowing the records only on the CML, JAS, and on both the CML and JAS to be identified. All CML records and JAS tracts were used to estimate the capture-recapture probabilities jointly.

#### **Resolving Farm Status**

The farm status based on census responses to either the CML or NML census data collection and the response on the JAS agreed in most cases; these records are referred to as having resolved farm status. However, in other cases, a record was identified as a farm (nonfarm) on the JAS and as a nonfarm (farm) on the CML or the NML. Such records are said to have conflicting or unresolved farm status. An operation identified as a farm is referred to as in-scope; an operation identified as a nonfarm is referred to as out-of-scope. From the set of matched records, two groups with conflicting farm status were identified: 1) in-scope JAS records that were out-of-scope on the census and 2) census in-scope and JAS out-of-scope records. The records with conflicting farm status were sent to NASS regional field offices for review. In each case, efforts were made to

determine whether (1) the status had changed between June and December when the census was conducted, (2) the JAS farm status was correct, (3) the census farm status was correct, (4) the records were incorrectly matched, or (5) the farm status could not be resolved.

The probability that an operation is a farm was estimated for census and JAS by using a conditional logistic model. Only those records identified as a farm based on either their JAS response or their Census response were used to develop the model for estimating the probability a record is associated with a farm. Operations with matching farm status were considered as certain if the farm status agreed between the JAS and the CML. If the status between the JAS and CML was conflicting, then the operation was treated as uncertain during the modeling stages. Characteristics of the operations were considered as potential covariates in the model. Variable selection was conducted using a stepwise algorithm to maximize the conditional likelihood. The probability of being a farm is estimated for each record classified as a farm based on their JAS or census response. The estimated probability is used as a weight in all subsequent modeling.

#### **Capture Probabilities**

Recall that, for a farm to be identified as a farm, and thus captured, by the census, it must be on the CML, respond to either the census or JAS report form and, based on that response, be classified as a farm. Therefore, the probability of capture  $\pi_C$  may be written as

 $\pi_C = \pi(CML, Responded, Farm on Census|Farm)$ =  $\pi(CML|Farm)\pi(Responded|CML, Farm)\pi(Farm on Census|CML, Responded, Farm)$ 

Terms in the probability of capturing a farm depend on characteristics of the farm. These terms, as well as the corresponding terms associated with a farm being captured by the JAS, were jointly estimated from a single model. Using all Census and JAS data, model variables were selected by applying a stepwise variable selection algorithm and expert opinion. Estimation was based on a conditional weighted likelihood. The events of a farm being included in the CML, the JAS or both were included in the likelihood. The event of a farm not being included in either the JAS or the CML was excluded from the likelihood but was accounted for through the model's capture-recapture properties. Although the probability of capture is estimated for both CML and JAS records, only CML records with a census response are given a census weight; records with only a JAS response are not given a census weight or used further to produce census estimates.

Because Alaska is not included in the JAS and thus has no area frame, the Alaskan agricultural operations were not

included in the capture-recapture process. No adjustments were made for undercoverage or misclassification. To account for nonresponse, the CML records were divided into three groups: (1) the Must records, (2) the Criteria Records, and (3) the remaining CML records. The must records received a weight of one, thereby receiving no adjustment for nonresponse. The probability of response for each of the other two groups was the proportion of responders within the group. Each record within the group was then given a weight equal to the reciprocal of the probability of response.

#### **Misclassification**

An operation is misclassified if: (1) it meets the definition of a farm but is classified as a nonfarm on the census or (2) it does not meet the definition of a farm but is classified as a farm on the census. The first type of misclassification is accounted for when modeling the probability of capture. An adjustment is still needed for the misclassification of nonfarms as farms. As with farm status and capture, the probability of this misclassification depends on an operation's characteristics. Thus, a conditional logistic model was developed. Given that a farm on the CML was classified as a farm in the census, the probability of its being a farm was modeled based on its characteristics.

#### CALIBRATION

Each operation identified as being in-scope on the CML was given a weight equal to the probability of misclassifying a nonfarm as a farm on the census divided by the probability of capture. This weight accounted for undercoverage, nonresponse, and both types of misclassification.

The record weighting processes were initially applied at the State level to produce adjusted estimates of farm numbers, land in farms, and for 64 different categories of characteristics of the farm operation or the farm producer -value of agricultural sales (10); age (2); female; race (3); Hispanic origin; 4 sales categories for each of 10 major commodities (40); and farm type groups (7). The Statelevel number of farms and land in farms were two additional adjusted estimates, resulting in 66 categories. To reduce the intercensal variation at the State level, the State targets were smoothed by averaging the 2022 estimates from capture-recapture and the published 2017 State estimates.

These State estimates were general purpose in that they did not provide any control over expected levels of commodity production of the individual farm operation. As a result of this limitation, the procedures could have over-adjusted or under-adjusted for commodity production. To address this, a second set of variables, known as commodity targets, was added to the calibration algorithm. These targets were commodity totals from administrative sources or from NASS surveys of nonfarm populations (e.g., USDA Farm Service Agency program data, Agricultural Marketing Service market orders, livestock slaughter data, cotton ginning data). The introduction of these commodity coverage targets strengthened the overall adjustment procedure by ensuring that major commodity totals remained within reasonable bounds of established benchmarks.

Each State was calibrated separately. The calibration algorithm addressed commodity coverage. The algorithm was controlled by the 65 State farm operation coverage targets and the State commodity coverage targets. Because calibration targets are estimates subject to uncertainty, NASS allowed some tolerance in the determination of the adjusted weights. Rather than forcing the total for each calibration variable computed using the adjusted weights to equal a specific amount, NASS allowed the estimated total to fall within a tolerance range.

To ensure that all subdomains for which NASS publishes summed to their grand total, integer weights were produced by a discrete calibration algorithm. This eliminated the need for rounding individual cell values and ensured that marginal totals always added correctly to the grand total. If a weight was initially not in the interval [1,6], it was trimmed so that it was in that interval. That is, adjusted weights less than 1 were set to 1, and those greater than 6 were set to 6. The remaining non-integer weights were then rounded sequentially to reduce the distance of the estimated totals from the targets.

Calibration adjustments began with the computation of a priority index for each record. The priority index was the absolute value of the gradient of the relative error associated with increasing or decreasing a record's weight by one. The record with the highest priority index was then selected as a candidate to increase or decrease its weight by one to reduce the cumulative distance from the targets as measured by the relative error. If the new value produced an improvement and satisfied the range restrictions, the weight was updated and new priorities were assigned; otherwise, the record with the next highest priority index was processed. This process was iteratively performed until convergence was attained. Because census data collection was assumed to be complete for very large and unique farms, their weights were set to 1 during the calibration adjustment process. For all other farms, the final census record weights were forced to be an integer number in the interval [1, 6]. The calibration process considered all targets simultaneously through the priority index. Although calibration was seldom able to adjust weights so that all State targets were met, all targets were brought collectively as close to the targets as possible.

The proportions of selected census data items that were due to coverage, response, and classification adjustments are displayed in Tables A and C.

#### **DISCLOSURE REVIEW**

After tabulation and review of the aggregates, a comprehensive disclosure review was conducted. NASS is obligated to withhold, under Title 7, U.S. Code, any total that would reveal an individual's information or allow it to be closely estimated by the public. Farm counts are not considered sensitive and are not subject to disclosure controls. Cell suppression was used to protect the cells that were determined to be sensitive to a disclosure of information.

Based on agency standards, data cells were determined to be sensitive to a disclosure of information if they failed either of two rules. The threshold rule failed if the data cell contained less than three operations. For example, if only one farmer produced turkeys in a county, NASS could not publish the county total for turkey inventory without disclosing that individual's information. The dominance rule failed if the distribution of the data within the cell allowed a data user to estimate any respondent's data too closely. For example, if there are many farmers producing turkeys in a county and some of them were large enough to dominate the cell total, NASS could not publish the county total for turkey inventory without risking disclosing an individual respondent's data. In both of these situations, the data were suppressed and a "(D)" was placed in the cell in the census publication table. These data cells are referred to as primary suppressions.

Since most items were summed to marginal totals, primary suppressions within these summation relationships were protected by ensuring that there were additional suppressions within the linear relationship that provided adequate protection for the primary. A detailed computer routine selected additional data cells for suppression to ensure all primary suppressions were properly protected. These data cells are referred to as complementary suppressions. These cells are not themselves sensitive to a disclosure of information but were suppressed to protect other primary suppressions. A "(D)" was also placed in the cell of the census publication table to indicate a complementary suppression. A data user cannot determine whether a cell with a (D) represents a primary or a complementary suppression.

Regional field office analysts reviewed all complementary suppressions to ensure no cells had been withheld that were

vital to the data users. In instances where complementary suppressions were deemed critically important to a State or county, analysts requested an override, and a different complementary cell was chosen.

#### **CENSUS QUALITY**

The purpose of the census of agriculture is to account for "any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the census year." To accomplish this, NASS develops a CML that contains identifying information for operations that have an indication of meeting the census definition, develops procedures to collect agricultural information from those records, establishes criteria for analyst review of the data, creates computer routines to correct or complete the requested information, and provides census estimates of the characteristics of farms and farm producers with associated measures of uncertainty.

It is not likely that either the CML includes all operations that meet the definition of a farm or that all those that do meet the definition of a farm respond to the census inquiry. The goal is to publish data with a high level of quality. The quality of a census may be measured in many ways. One of the first indicators used is a measure of the response to the census data collection as it has generally been thought that a high response rate indicates more complete coverage of the population of interest. This is a valid assumption if the enumeration list, the CML here, has complete coverage of the population of interest. In the case of the census of agriculture, the definition requiring advance knowledge of sales makes achieving a high level of coverage difficult. To ensure that the census of agriculture is as complete as possible, records are included that might not meet the census definition of a farm - in fact, almost 50 percent more records than the anticipated number of qualifying farm operations were included in the 2022 CML. A second indicator of quality then is the coverage of the farm population by the CML. Other indicators of quality relate to the accuracy and completeness of the data, and the validity of the procedures used in processing the data.

In some cases, NASS was able to produce measures of quality – such as the response rate to the data collection, the coverage of the census mail list, and the variability of the final adjusted estimates. In other cases, measures were not produced but descriptions of procedures that NASS used to reduce errors from the procedures were subsequently provided.

#### **Census Response Rate**

The response rate is one indicator of the quality of a data

collection. It is generally assumed that if a response rate is close to a full participation level of 100 percent, the potential for nonresponse bias is small, although this has been questioned in the literature. The response rate for the 2022 Census of Agriculture CML was 61.0 percent, as compared with the 2017 Census of Agriculture's response rate of 71.8 percent and 74.6 percent for the 2012 Census of Agriculture.

The 2022 Census of Agriculture's response rate used the fourth response rate formula (RR4) from the American Association of Public Opinion Research's Response Rate Standard Definitions manual:

$$RR4 = \frac{C_{adj}}{C_{adj} + R + NC + O + Replicated + e(U)} (100)$$

where

 $C_{adj}$  = number of fully and partially completed records, excluding replicated records R = number of explicit refusals NC = number of non-contacted operations known to be eligible O = number of other types of nonrespondents Replicated = number of replicated records U = number of operations of unknown eligibility e(U) = estimated number of operations of unknown eligibility assumed to be eligible

Records were classified into the above variables based on the combination of their active status (AS) codes, in-scope status, and replication status. Active status refers to the eligibility status of records for selection on the CML. All replicated records were considered a form of nonresponse and were classified into other nonrespondents; in-scope status was considered immaterial.

Certain active status classifications indicated records of unknown agricultural status. These classifications included records to be removed from the CML but had data from outside sources indicating agricultural activity, new records from outside data sources, nonrespondents and refusals to the NACS, records for regional office handling only, and records with Farm Service Agency or Conservation Reserve Program data on operations that are not owned by the principal producer. These records were stratified (grouped) based on their probabilities of being inscope had they responded. The estimated number of inscope nonrespondents was calculated for the *h*th stratum (group) by the following formula:

$$e(U_h) = \left(\frac{C_{in-scope,h}}{C_h}\right) U_h$$

where

 $e(U_h)$  = estimated number of operations of unknown eligibility assumed to be eligible in the *h*th group  $C_{in-scope,h}$  = the number of completed and in-scope census records in the *h*th group

 $C_h$  = the number of completed census records in the *h*th group

 $U_h$  = number of operations of unknown eligibility in the *h*th group

#### **Census Coverage**

As a side-product of the statistical adjustment used to account for undercoverage, nonresponse of farms on the CML, and misclassification of responses to the census, the proportion of the adjustments due to each of those factors can be derived. The percentage of final census estimates due to adjustments for undercoverage, nonresponse, and misclassification as well as the total percent adjustment for selected items are displayed in Tables A and C.

#### MEASURED ERRORS IN THE CENSUS PROCESS

NASS uses statistical procedures in compiling the CML, in its data collection procedures, in data editing and processing, and in compiling the final data. Additionally, it uses statistical procedures to both measure errors in the various processes when adjusting for those errors in the final data. One example is the statistical process used to account for undercoverage, nonresponse of farms on the CML, and misclassification of responses to the census. The basis of the undercoverage adjustment is the capturerecapture procedure that uses the area sample enumeration from the JAS. The largest contributors to error in the census estimates are due to the adjustments for undercoverage, misclassification, nonresponse, and integer calibration.

### Variability in Census Estimates due to Statistical Adjustment

In conducting the 2022 Census of Agriculture, efforts were initiated to measure error associated with the adjustments for farm operations that were not on the CML; for farm operations that were on the CML but did not respond to the census report form; for farms and nonfarms that were misclassified as nonfarms and farms, respectively; and for integer calibration. These error measurements were developed from the standard error of the estimates at the national, State, and county levels and were expressed as coefficients of variation (CVs) at the national and State levels and as generalized coefficients of variation (GCVs) at the county levels.

The standard error of an estimate is an estimate of the

standard deviation of the sampling distribution of the estimator. In each case, standard errors were computed using an approach based on a delete-a-group jackknife methodology. To conduct the jackknifing, k = 10 mutually exclusive and exhaustive groups of records were formed. The groups were selected using a stratified random design so that each group reflected capture status by the CML and the JAS. Based on estimated weights for records in each group, a delete-a-group jackknife estimator of the variance would account for the uncertainty associated with modeling the capture-recapture probabilities and the uncertainty due to integer calibration. Therefore, the weights within each jackknife group were computed using the group-specific models and calibrated to match groupspecific targets. For a given data item *i*, such as the number of farms, the estimate was computed at the specified geographical level, such as nation, State, or county, using the weights obtained for group *j*. Estimates of the variance and standard error associated with the estimator  $T_i$  are then, respectively,

$$\sigma_i^2 = \frac{k-1}{k} \sum_{j=1}^k \left( T_i^{(j)} - \sum_{l=1}^k \frac{T_i^{(l)}}{k} \right)^2; \quad SE(T_i) = \sqrt{\sigma_i^2}$$

Ten (10) calibration-adjusted jackknife groups were used to provide standard errors for 2022 State and national estimates (i.e., k=10). For the estimate of the number of farms with a given set of characteristics, only the CML records with those characteristics were used to obtain the overall estimate as well as the estimates from each calibrated jackknife group.

Note that the calibrated jackknife groups were only constructed once, and different subsets of the records were used to compute estimates and standard errors for the data items.

The CV is a measure of the relative amount of error associated with the sample estimate:

$$CV_i = \frac{SE(T_i)}{T_i} 100\%$$

where  $SE(T_i)$  is the standard error of the capture-recapture estimate for data item *i*. This relative measure allows the reliability of a range of estimates to be compared. For example, the standard error is often larger for large population estimates than for small population estimates, but the large population estimates may have a smaller CV, indicating a more reliable estimate. For county-level estimates, a generalized coefficient of variation (GCV) was determined for each estimate within a State. A generalized variance function relates a function of the variance of an estimator to a function of the estimator. Within a State, the standard error of an estimate for a data item was often found to be linearly related to the estimate of that item with an intercept of zero. Based on this modeled relationship, the GCV is the slope of the line relating the standard error to the estimate, multiplied times 100 to represent the GCV as a percentage.

The standard error is the product of the CV (or GCV for county estimates) and the estimate divided by 100. As an example, if the GCV for a State is 25 percent and a county's estimate is 4, then the standard error is 25(4)/100 = 1. The standard error of an estimated data item from the census provides a measure of the uncertainty associated with that estimated data item due to the possible outcomes of the census collection, including incompleteness of the CML, nonresponse to the census, misclassification either as a farm or as a nonfarm, and the integer calibration. With 95 percent confidence, an estimate is within two standard errors of the true value being estimated. For this example, with 95 percent confidence, the estimate of 4 is within 2(1) = 2 of the true county value.

Note: The standard errors and consequently, the CVs tend to be substantially smaller than those reported for the 2017 Census of Agriculture. For 2017, the model of the probability of capture incorporated information from the approximately 40,000 respondents to the 2017 JAS and the census records matching a JAS record. In contrast, the models for the 2022 Census of Agriculture relied on information from the approximately 1 million responding CML records and the 2022 JAS, some of which were on both the CML and the JAS. The large increase in the number of records used in the modeling process led to a major decrease in the measures of uncertainty (standard errors and CVs).

Table B presents the fully adjusted estimates with the coefficient of variation for selected items.

### NONMEASURED ERRORS IN THE CENSUS PROCESS

As noted in the previous section, errors can be introduced from adjustments for coverage, nonresponse, and misclassification and from integer calibration. These errors are measurable. However, nonsampling errors are imbedded in the census process that cannot be directly measured as part of the design of the census but must be contained to ensure an accurate count. Extensive efforts were made to compile a complete and accurate mail list for the census, to elicit response to the census, to design an understandable report form with clear instructions, to minimize processing errors through the use of quality control measures, to reduce matching error associated with the capture-recapture estimation process, and to minimize error associated with identification of a respondent as a farm operation (referred to as classification error). The weight adjustment and tabulation processes recognize the presence of nonsampling errors; however, it is assumed that these errors are small and that, in total, the net effect is zero. In other words, the positive errors cancel the negative errors.

#### **Respondent and Enumerator Error**

Incorrect or incomplete responses to the census report form or to the questions posed by an enumerator can introduce error into the census data. Steps were taken in the design and execution of the Census of Agriculture to reduce errors from respondent reporting. Poor instructions and ambiguous definitions lead to misreporting. Respondents may not remember accurately, may estimate responses, or may record an item in the wrong cell. To reduce reporting and recording errors, the report form was tested prior to the census using industry-accepted cognitive testing procedures. Detailed instructions for completing the report form were provided to each respondent. Questions were phrased as clearly as possible based on previous tests of the report form. Computer-assisted telephone interviewing software included immediate integrity checks of recorded responses so suspect data could be verified or corrected. In addition, each respondent's answers were checked for completeness and consistency by the complex edit and imputation system.

#### **Processing Error**

Processing of each census report form was another potential source of nonsampling error. All mail returns that included multiple reports, respondent remarks, or that were marked out of business and report forms with no reported data were sent to an analyst for verification and appropriate action. Integrity checks were performed by the imaging system and data transfer functions. Standard quality control procedures were in place that required that randomly selected batches of data keyed from image be reentered by a different operator to verify the work and evaluate key entry operators. All systems and programs were thoroughly tested before going on-line and were monitored throughout the processing period.

Developing accurate processing methods is complicated by the complex structure of agriculture. Among the complexities are the many places to be included, the variety of arrangements under which farms are operated, the continuing changes in the relationship of producers to the farm operated, the expiration of leases and the initiation or renewal of leases, the problem of obtaining a complete list of agriculture operations, the difficulty of contacting and identifying some types of contractor/contractee relationships, the producer's absence from the farm during the data collection period, and the producer's opinion that part or all of the operation does not qualify and should not be included in the census. During data collection and processing of the census, all operations underwent a number of quality control checks to ensure results were as accurate as possible.

#### **Item Nonresponse**

All item nonresponse actions provide another opportunity to introduce measurement errors. Regardless of whether previously reported data, administrative data, the nearest neighbor algorithm, the fully conditional specification method, or manual imputation is used to complete a nonresponse item, some risk exists that the imputed value does not equal the actual value. Previously reported and administrative data were used only when they related to the census reference period. A new nearest neighbor was randomly selected for each incident to eliminate the chance of a consistent bias.

#### **Record Matching Error**

The process of building and expanding the CML involves finding new list sources and checking for names not on the list. An automated processing system compared each new name to the existing CML names and "linked" like records for the purpose of preventing duplication. New names with strong links to a CML name were discarded and those with no links were added as potential farms. Names with weak links, possible matches, were reviewed by staff to determine whether the new name should be added. Despite this thorough review, some new names may have been erroneously added or deleted. Additions could contribute to duplication (overcoverage) whereas deletions could contribute to undercoverage. As a result, some names received more than one report form, and some farm producers did not receive a report form. Respondents were instructed to complete one form and return all forms so the duplication could be removed.

Another chance for error came when comparing June Area Survey tract producer names to the CML. Area producers whose names were not found on the CML were part of the measure of list incompleteness, or NML. Mistakes in determining overlap status resulted in overcounts (including a tract whose producer was on the CML) or undercounts (excluding a tract whose producer was not on the CML). All tracts determined to not be on the list were triple checked to eliminate, or at least minimize, any error. NML tract producers were mailed a report form printed in a different color. To identify duplication, all respondents who received multiple report forms were instructed to complete the CML version and return all forms so duplication could be removed.

Records in the 2022 JAS were matched to the 2022 census using probabilistic record linkage. The records of operations with differing farm status were sent out to be reviewed by NASS regional field offices. If farm status could not be resolved, the probability of an operation being a farm was imputed using a missing data model. The uncertainty associated with this estimate apart from model uncertainty was accounted for, but errors not found through this process were not.

# Table A. Summary of State Coverage, Nonresponse, and Misclassification Adjustments: 2022 [For meaning of abbreviations and symbols, see introductory text.]

Farmsand in farms and in farms	acres farms acres farms acres	44,479 43,975,693 2,956	1,964 814,578	45.7 31.8	7.9 3.3	17.7 14.3	20.1
1 to 9 acres 10 to 49 acres	acres farms acres	2.956			-	14.5	14.1
10 to 49 acres	acres farms acres		325	63.3	16.9	18.2	28.2
50 to 69 acres	acres	13,306 7,465	1,536 957	62.1 53.9	14.6 13.6	16.8 19.5	30.7 20.8
	farms	185,199 1,616	22,756 199	52.7 50.4	12.6 7.6	18.6 16.3	21.5 26.4
	acres	94,237 2,757	11,602 190	50.3 47.3	7.6 7.3	16.3 19.8	26.3 20.2
100 to 139 acres	acres	224,902 2,136	15,444 166	47.3 47.4	7.3 7.4 7.1	19.8 14.3	20.2 20.1 26.0
140 to 179 acres	acres	249,354 3,310	19,161 122	47.3 47.3	7.2	14.5 14.5 17.3	25.7 23.2
180 to 219 acres	acres	523,617 1,560	19,242 85	47.3 49.7	6.8 5.5	17.3 17.3 17.9	23.2 23.2 26.4
220 to 259 acres	acres	308,519 1,435	16,871 55	49.8 46.5	5.4 6.1	17.5 17.7 17.9	26.4 26.7 22.4
260 to 499 acres	acres	340,960 5,628	13,074 239	46.5 43.2	6.2 5.8	17.9 20.1	22.4 22.4 17.3
	acres	2,053,867	89,737	42.8	5.7	19.8	17.3
500 to 999 acres	acres	5,809 4,156,151	670 482,819	39.3 39.1	3.6 3.5	16.4 16.1	19.3 19.5
1,000 to 1,999 acres	acres	4,450 6,154,076	113 135,995	36.3 36.2	3.9 3.9	18.5 18.7	13.8 13.6
2,000 acres or more	acres	5,357 29,671,505	186 1,047,022	37.1 28.0	3.4 2.7	20.5 12.8	13.2 12.4
rrigated land use: Harvested cropland	forms	14,891	612	40.6	5.7	15.9	19.1
Pastureland and other land	acres	7,857,031 987 108,907	246,618 47 9,734	37.5 39.6	3.8 7.4 3.4	15.2 10.8 10.9	18.4 21.4 17.0
Market value of agricultural products sold		29,413,398	9,734 740	31.3 23.5	3.4 3.6	5.0	14.9
Farms by value of sales: Less than \$1.000	6	7 000	0.055	50.5		10.4	04.4
1 1	\$1.000	7,228 482	2,055 (Z) 234	53.5 49.8	6.3 17.7	16.1 24.3	31.1 7.7
\$1,000 to \$2,499	\$1,000	1,904 3,125	(Z)	57.4 57.4	16.4 16.0	26.4 26.0	14.6 15.4
\$2,500 to \$4,999	\$1,000	1,924 6,796	209 1	56.6 56.5	18.3 17.7	24.6 24.5	13.8 14.3
\$5,000 to \$9,999	\$1,000	2,380 16,983	243 2	56.2 56.0	16.4 16.4	27.7 27.3	12.1 12.3
\$10,000 to \$19,999	\$1,000	2,532 36,140	221 3	47.4 47.3	13.5 12.8	16.0 15.6	17.9 19.0
\$20,000 to \$24,999	\$1,000	972 21,551	124 3	47.6 47.6	13.4 13.3	19.4 19.3	14.8 14.9
\$25,000 to \$39,999	\$1,000	2,117 67,543	216 7	44.6 44.4	11.9 12.2	18.7 18.7	14.0 13.5
\$40,000 to \$49,999	\$1,000	1,115 49,498	115 5	43.8 43.6	11.1 11.1	18.2 18.1	14.5 14.5
\$50,000 to \$99,999	\$1,000	4,187 300,987	278 20	45.4 45.0	8.8 8.9	21.1 20.8	15.4 15.4
\$100,000 to \$249,999	\$1,000	6,238 1,013,146	542 97	46.1 45.9	5.4 5.3	14.6 14.3	26.2 26.3
\$250,000 to \$499,999	\$1.000	4,494 1,624,833	204 81	39.8 39.7	5.5 5.5	23.3 23.2	11.0 11.0
\$500,000 to \$999,999	farms \$1.000	4,170 2,967,731	320 253	39.8 39.7	3.4 3.5	22.2 22.1	14.3 14.1
\$1,000,000 or more	farms \$1,000	5,218 23,304,584	156 569	31.4 18.8	3.9 3.0	9.5 2.8	17.9 13.1
Farms by legal status for tax purposes: Family or individual	farms	35,983	1,587	46.1	10.3	20.3	15.5
Partnership	acres farms	27,547,303 2,980	543,309 190	34.6 47.7	4.5 3.5	17.2 17.3	12.9 26.8
Corporation:	acres	5,406,299	94,239	27.1	1.8	16.5	8.8
Family held	acres	4,355 9,471,149	179 446,118	41.4 28.4	3.0 2.2	11.1 7.6	27.3 18.5
Other than family held	farms acres	359 884,423	35 42,991	45.7 12.1	5.2 2.5	13.2 3.5	27.3 6.2
Other - estate or trust, prison farm, grazing association, American Indian Reservation, etc	farms acres	802 666,519	64 101,379	46.6 26.1	2.9 2.7	7.0 4.5	36.7 19.0
Tenure:							
Full owners	acres	24,209 10,606,640	2,005 366,116	48.7 31.2	9.9 4.7	15.4 9.2	23.4 17.3
Part owners	acres	14,835 28,859,474	655 549,219	38.2 30.5	4.4 2.8	18.8 15.1	15.1 12.5
Tenants	farms acres	5,435 4,509,579	241 142,092	53.2 41.4	5.8 2.7	30.7 24.7	16.7 14.0
Producers characteristics by- <sup>1</sup> (see text) Sex of operator: Male		42,287	1,812	46.0	7.7	18.2	20.1
Female	acres farms	42,921,160 23,480	809,559 1,393	31.9 46.8	3.3 6.9	14.4 14.1	14.2 25.8
Primary occupation:	acres	20,906,759	780,266	31.5	2.5	12.4	16.5
Final y occupation. Farming Other	farms farms	39,252 41,031	1,206 3,139	43.6 52.7	4.9 6.0	12.7 15.6	25.9 31.1

See footnote(s) at end of table.

# Table A. Summary of State Coverage, Nonresponse, and Misclassification Adjustments: 2022 (continued) [For meaning of abbreviations and symbols, see introductory text.]

[For meaning of abbreviations and symbols, see introductory text.]	Total	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification
Producers characteristics by- 1 (see text) - Con.						
Hispanic, Latino, or Spanish originfarms	612	161	54.4	3.5	11.2	39.7
acres	651,086	97,171	42.5	3.2	6.9	32.5
Race:						
American Indian or Alaska Native farms	96	10	28.1	9.7	17.2	1.2
acres Asianfarms	125,510 53	24,023 14	18.6 54.7	3.4 11.5	9.5 42.9	5.7 0.4
acres Black or African Americanfarms	21,021 14	10,240 7	55.6 14.3	4.3 1.0	50.5 2.8	0.8 10.5
Native Hawaiian or	(D)	(D)	(D)	(D)	(D)	(D)
Other Pacific Islanderfarms acres	4 664	3 105	25.0 4.1	2.3 0.2	3.9 0.1	18.7 3.8
White farms acres	44,370 43,815,080	1,961 818,635	45.8 31.9	7.9 3.3	17.7 14.3	20.2 14.2
More than one race reportedfarms acres	163 177,552	16 17,132	39.9 25.5	1.3 2.9	3.1 13.2	35.6 9.5
Military service:	,	,				
Never served or only on active duty for training in the Reserves or National Guard (see text)	74.446	3,467	48.4	5.5	14.3	28.5
Active duty now or in the past (see text)	5,837	409	46.5	5.0	14.5	28.9
All producers by age group <sup>1</sup> : Under 25 yearsfarms	1,354	325	70.9	5.5	10.5	54.9
25 to 34 yearsfarms 35 to 44 yearsfarms	7,677 11,076	560 388	63.9 51.9	8.0	23.1 17.6	54.9 32.7 28.8
45 to 54 yearsfarms	11,869	616	50.1	5.5 5.1	16.6	28.3
55 to 64 yearsfarms 65 to 74 yearsfarms	18,687 19,966	953 1,161	45.5 43.2	5.0 5.5	15.5 8.8	25.1 28.9
75 years and overfarms	9,654	545	42.1	5.6	8.0	28.5
Net cash farm income of operations: Farms with gains of- <sup>2</sup>						
Less than \$1,000farms \$1,000	730 365	105 (Z) 171	52.7 53.7	9.9 11.1	18.2 21.6	24.6 20.9
\$1,000 to \$4,999	1,933 5,282	(Z)	48.2 46.9	8.1 7.5	20.4 19.5	19.6 19.9
\$5,000 to \$9,999farms \$1,000	1,781 13,030	130 1	46.3 46.3	8.6 8.4	15.3 15.4	22.4 22.5
\$10,000 to \$24,999farms \$1,000	3,627 60,960	187 3	46.0 46.1	6.2 6.3	13.2 13.5	26.7 26.3
\$25,000 to \$49,999 farms \$1,000	3,489 126,371	173 6	43.5 43.4	7.7 7.8	18.0 17.9	17.8 17.6
\$50,000 or more	16,175 8,412,778	566 270	39.5 29.6	4.6 3.4	15.9 7.3	19.0 18.9
Farms with losses of-	-,,					
Less than \$1,000farms \$1,000	780 384	126 (Z)	54.5 55.7	15.1 16.0	25.4 25.4	14.0 14.2
\$1,000 to \$4,999	3,078 9,109	416	54.1 54.2	12.5 12.3	22.7 21.4	18.9 20.6
\$5,000 to \$9,999	3,075 22,428	381	55.6 55.6	15.1 15.1	24.8 24.6	15.7 15.8
\$10,000 to \$24,999	4,053 65,481	251	53.4 53.2	13.8 13.9	20.8 20.5	18.9 18.9
\$25,000 to \$49,999farms \$1.000	2,396 85,026	120	50.5 50.6	8.6 8.7	16.0 17.1	25.9 24.7
\$1,000 \$50,000 or more	3,362 755,869	181 45	43.1 35.3	5.1 4.2	16.9 14.0	21.1 17.2
Livestock and poultry:	735,009	43	55.5	4.2	14.0	17.2
Cattle and calves inventory	16,958 6,390,191	870 304,384	42.9 19.9	16.6 5.0	9.7 2.5	16.6 12.4
Beef cows inventory	14,834 1,721,243	727 80,311	42.9 31.4	16.0 6.8	10.4 7.7	16.5 16.9
Milk cows inventory farms	300 57,036	39	44.7 10.3	12.9 1.2	4.8 0.1	26.9
number Hog and pigs inventoryfarms	942	15,350 141	51.4	10.0	17.0	9.0 24.4
number Layers inventory farms	3,606,923 2,782	853,787 230	24.9 55.2	2.1 13.1	4.6 19.0	18.3 23.2
number Broilers soldfarms	7,161,783 200	378,648 67	4.3 34.0	1.4 7.0	2.7 17.7	0.2 9.3
number Aquaculture soldfarms	90,851,080 30	13,391,616	0.2 40.0	(Z) 2.6	0.1 5.5	0.1 31.9
\$1,000	3,952	(Z)	13.4	3.9	2.4	7.1
Selected crops harvested: Corn for grain farms	19,874	1,339	41.7	6.3	17.0	18.4
acres Durum wheat for grainfarms	8,648,207	268,859	37.3	3.9	14.9	18.5
acres Other spring wheat for grainfarms	30	-3	43.3	- 1.6	41.5	0.2
acres Winter wheat for grain farms	6,533 2,709	602 176	30.7 38.6	3.4 4.2	27.0 33.6	0.3 0.8
acres Sorghum for grainfarms	834,404 819	71,434	31.6 33.7	1.2	29.6 16.6	0.8 10.5
acres Soybeans for beans	128,908 15,748	7,453	25.3 37.1	4.0 15.6	14.4 18.6	6.9 3.0
acres Rice farms	5,393,039	76,300	40.3	12.0	23.7	4.6
Cotton	-	-	-	-	-	-
acres	-	-		-	-	

See footnote(s) at end of table.

#### Table A. Summary of State Coverage, Nonresponse, and Misclassification Adjustments: 2022 (continued)

[For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification
Selected crops harvested: - Con.						
Peanuts farms	-	-	-	-	-	-
acres Barley farms	40	- 11	42.5	- 9.1	30.8	2.6
acres Oats	2,920 262 18,820	653 74 3,351	35.2 23.7 20.0	4.5 2.0 0.9	27.8 11.3 10.4	2.9 10.4 8.7
Forage - land used for all hay and haylage,	15 700	050		10.0	10 7	
grass silage, and greenchopfarms acres	15,768 2,250,107	656 123,325	37.4 29.8	13.9 6.8	19.7 16.5	3.8 6.5
Land in vegetables (see text) farms	495	80	54.1	6.9	11.4	35.9
acres Potatoes farms	22,895 155	1,842 22	7.0 49.7	0.3 12.7	0.1 14.9	6.6 22.1
acres Tomatoes in the openfarms	20,446 197	1,831 40	5.5 53.8	0.3 5.0	(Z) 7.4	5.2 41.4
acres Sweet corn (see text) farms	63 140	10 17	30.9 55.0	1.7 17.2	2.3 26.0	26.9 11.8
acres	621 68	43 18	20.0 57.4	1.0 2.8	1.3	17.8 47.3
acres	13	4	56.8	1.5	3.7	51.6
Land in orchards (see text) farms acres	359 1,197	131 369	55.7 42.2	8.6 3.5	17.3 9.3	29.8 29.4
Applesfarms	147 438	47	50.3 41.6	10.4 4.9	21.9 14.1	18.0 22.6
acres Grapes (including muscadine) (see text)farms	169	71	58.0	8.0	15.4	34.6
acres Orangesfarms	536	231	47.7	3.9	7.1	36.7
Almondsfarms	- 7	- 4	- 57.1	- 26.6	6.7	- 23.8
acres Land in berriesfarms acres	(D) 182 495	(D) 76 241	(D) 54.9 56.3	(D) 10.9 2.8	(D) 24.0 19.7	(D) 20.1 33.8

<sup>1</sup> Data were collected for a maximum of four producers per farm. <sup>2</sup> Farms with total production expenses equal to market value of agricultural products sold, government payments, and farm-related income are included as farms with gains of less than \$1,000.

### Table B. Reliability Estimates of State Totals: 2022 [For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Coefficient of variation (percent)	Item	Total	Coefficier of variatio (percent)
Farmsnumber and in farmsacres	44,479 43,975,693	4.4 1.9			
	43,973,093	1.5	Hispanic, Latino, or		
Farms by size: 1 to 9 acres	2.056	11.0	Spanish origin	612	26
acres	2,956 13,306	11.0 11.5		651,086	14
10 to 49 acres farms	7,465	12.8	Race:		
acres 50 to 69 acres	185,199 1,616	12.3 12.3		96	10
acres	94,237	12.3	acres	125,510	19
70 to 99 acres farms acres	2,757 224,902	6.9 6.9		53 21,021	26 48
100 to 139 acres farms	2,136	7.8		14	40
acres 140 to 179 acres farms	249,354 3.310	7.7		(D)	(1
acres	523,617	3.7 3.7		4	71
180 to 219 acres farms	1,560	5.4	acres	664	15
acres 220 to 259 acresfarms	308,519 1,435	5.5 3.8	acres	44,370 43,815,080	4
acres	340,960	3.8	More than one race reported farms	163	9
260 to 499 acres farms acres	5,628 2,053,867	4.2 4.4		177,552	ę
500 to 999 acres farms	5,809	11.5	Military service:		
acres 1,000 to 1,999 acresfarms	4,156,151 4,450	11.6 2.5		74.446	4
	6,154,076	2.2	Active duty now or in the past (see text) producers	5,837	7
2,000 acres or morefarms	5,357	3.5			
acres	29,671,505	3.5	All producers by age group <sup>1</sup> : Under 25 years farms	1,354	24
rigated land use:			25 to 34 years farms	7,677	7
Harvested cropland farms acres	14,891 7,857,031	4.1 3.1	35 to 44 ýearsfarms 45 to 54 ýearsfarms	11,076 11,869	
Pastureland and other land farms	987	4.7	55 to 64 years farms	18,687	
acres	108,907	8.9	65 to 74 yearsfarms 75 years and overfarms	19,966	
Arket value of agricultural products sold\$1,000	29.413.398	2.5		9,654	
			Net cash farm income of operations:		
arms by value of sales: Less than \$1,000 farms	7,228	28.4	Farms with gains of- <sup>2</sup> Less than \$1,000farms	730	14
\$1.000	482	22.0	\$1.000	365	14
\$1,000 to \$2,499farms \$1,000	1,904 3,125	12.3 12.2	\$1,000 to \$4,999farms \$1,000	1,933 5,282	
\$2,500 to \$4,999	1,924	10.9	\$5,000 to \$9,999farms	1,781	
\$1,000	6,796	10.3		13,030	1
\$1,000 \$5,000 to \$9,999farms \$1,000	2,380 16,983	10.2 10.0	\$1,000	3,627 60,960	
\$10,000 to \$19,999farms	2,532	8.7	\$25,000 to \$49,999farms	3,489	4
\$1,000 \$20,000 to \$24,999farms	36,140 972	8.5 12.8		126,371 16,175	4
\$1,000	21,551	12.9	\$1,000	8,412,778	
\$25,000 to \$39,999farms	2,117 67,543	10.2 10.5			
\$1,000 \$40,000 to \$49,999farms \$1,000	1,115	10.3		780	10
\$1,000 \$50,000 to \$99,999 \$1,000	49,498 4.187	10.4		384 3.078	16
\$50,000 to \$99,999	300,987	6.6 6.7		3,078 9,109	1
\$100,000 to \$249,999farms	6,238	8.7		3,075	1:
\$1,000 \$250,000 to \$499,999farms	1,013,146 4,494	9.6 4.5		22,428 4,053	1
\$1,000	1,624,833	5.0	\$1,000	65,481	
\$500,000 to \$999,999	4,170 2,967,731	7.7 8.5	\$1,000	2,396 85,026	
\$1,000,000 or more farms	5,218	3.0	\$50,000 or more farms	3,362	ł
\$1,000	23,304,584	2.4	\$1,000	755,869	6
Farms by legal status for tax purposes:			Livestock and poultry:		
Family or individual farms	35,983	4.4	Cattle and calves inventory farms	16,958	5
acres Partnership farms	27,547,303 2,980	2.0 6.4	number Beef cows inventoryfarms	6,390,191 14,834	4
acres	5,406,299	1.7	number	1,721,243	4
Corporation: Family held farms	4,355	4.1	Milk cows inventoryfarms	300 57,036	13
acres	9,471,149	4.7	Hog and pigs inventoryfarms	942	1
Other than family held farms	359	9.8		3,606,923	2
acres Other - estate or trust, prison farm, grazing association,	884,423	4.9	Layers inventory farms	2,782 7,161,783	8
American Indian Reservation, etc farms	802	7.9		200	33
acres	666,519	15.2	number Aquaculture soldfarms	90,851,080 30	14 20
enure:			\$1,000	3,952	1
Full owners farms acres	24,209 10,606,640	8.3 3.5			
Part ownersfarms	14,835	4.4	Corn for grainfarms	19,874	
acres forma	28,859,474	1.9	acres	8,648,207	:
Tenants farms acres	5,435 4,509,579	4.4 3.2	acres		
	.,	0.2	Other spring wheat for grain farms	30	8
Producers characteristics by- <sup>1</sup> (see text) Sex of operator:			acres Winter wheat for grainfarms	6,533 2,709	
Male farms	42,287	4.3	acres	834,404	1
acres	42,921,160 23,480	1.9 5.9		819 128,908	
Femalefarms acres	20,906,759	5.9 3.7		120,900	
			acres	5,393,039	
Primary occupation: Farmingfarms	39,252	3.1	Ricefarms acres	1	
Other	41,031	7.7		-	1

See footnote(s) at end of table.

#### Table B. Reliability Estimates of State Totals: 2022 (continued)

[For meaning of abbreviations and symbols, see introductory text.]

ltem	Total	Coefficient of variation (percent)	Item	Total	Coefficient of variation (percent)
Selected crops harvested: - Con.			Selected crops harvested: - Con. Land in vegetables (see text) - Con.		
Cotton farms	-	-			
acres	-	-	Sweet corn (see text)farms	140	12.1
Peanutsfarms	-	-	acres	621	6.9
acres	-	-	Lettuce farms	68	26.1
Barleyfarms	40	26.5	acres	13	27.6
acres	2,920	22.4	Land in orchards (see text)farms	359	36.4
Oats farms	262	28.3	acres	1,197	30.8
acres	18.820	17.8	Applesfarms	147	31.7
	10,020		acres	438	26.8
Forage - land used for all hay and haylage,			Grapes (including muscadine) (see text)farms	169	41.9
grass silage, and greenchop farms	15,768	4.2	acres	536	43.1
acres	2,250,107	5.5	Oranges		
Land in vegetables (see text) farms	495	16.2	acres	_	_
acres	22,895	8.0	Almonds	7	50.7
Potatoesfarms	155	14.3	Amondsams acres	(ח)	(D)
acres	20,446	9.0	Land in berries farms	182	(D)
Tomatoes in the open farms	20,440	20.4	Land in bernes	495	41.0
			acres	495	40.0
acres	63	15.4			

<sup>1</sup> Data were collected for a maximum of four producers per farm. <sup>2</sup> Farms with total production expenses equal to market value of agricultural products sold, government payments, and farm-related income are included as farms with gains of less than \$1,000.

# Table C. Summary of Coverage, Nonresponse, and Misclassification Adjustments by County: 2022 [For meaning of abbreviations and symbols, see introductory text.]

Geographic area	Total (number)	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification
ALL FARMS (NUMBER)						
State Total						
Nebraska	44,479	1,964	47.2	8.1	18.2	20.9
Counties						
Adams	487	54	48.2	4.7	19.6	23.9
Antelope	664	37	47.3	9.8	17.6	19.9
Arthur	79	9	30.1	5.4	20.2	4.5
Banner	226 85	17 18	50.4 35.4	2.7	13.3 19.1	34.4 10.8
Blaine Boone	485	26	46.6	5.5 10.0	21.4	15.2
Box Butte	437	56	43.0	4.4	26.6	12.0
Boyd	218	29	39.1	7.9	25.4	5.8
Brówn	291	15	51.1	8.9	24.3	17.9
Buffalo	1,001	76	52.4	12.9	20.4	19.0
Burt	553	38	46.1	8.3	22.2	15.6
Butler	718	54	43.9	8.2	15.0	20.7
Cass	662	41	45.1	8.9	12.4	23.8
Cedar	850	47	45.5	9.1	13.0	23.4
Chase	304	38	41.2	2.3	12.8	26.1
	610	31	42.0	7.7	10.0	24.3
Cheyenne	622	59	46.4	3.2	30.8	12.4
Clay	461	37	52.7	8.5	18.0	26.2
Colfax	456	33	39.7	7.8	19.1	12.8
Cuming	832	30	39.6	8.1	15.2	16.3
Custer	1,083	43	50.7	10.1	16.5	24.2
Dakota	250	36	45.5	4.1	12.1	29.3
Dawes	442	40	51.7	10.8	21.0	20.0
Dawson Deuel	671	46	49.7	10.5	21.7	17.5
	203	31	46.9	6.1	29.2	11.5
Dixon	515	44	43.8	8.5	12.6	22.7
Dodge	694	48	44.9	8.3	17.6	18.9
Douglas	312	50	53.0	3.8	8.9	40.3
Dundy	240	20	42.6	5.1	27.2	10.3
Fillmore	496	31	42.0	12.0	27.2	18.7
Franklin	295	22	45.3	10.4	24.4	10.5
Frontier	338	25	47.9	8.0	20.9	19.0
Furnas	369	17	43.5	5.9	13.4	24.2
Gage	1,156	91	45.3	8.3	14.1	22.9
Garden	223	25	42.1	8.2	16.4	17.5
Garfield	166	16	47.4	7.8	18.5	21.1
Gosper	214	14	43.3	4.4	31.2	7.7
Grant	66	4	40.8	14.5	20.0	6.3
Greeley	220	22	42.8	12.4	10.2	20.3
Hall	552	36	58.5	9.4	24.6	24.6
Hamilton	507	62	54.8	7.4	21.0	26.4
Harlan	287	23	52.9	14.7	22.6	15.6
	254	31	43.8	3.0	19.4	21.4
Hayes Hitchcock	283	50	39.5	6.6	19.5	13.4
Holt	1,198	50	47.3	7.6	20.1	19.6
Hooker	98	9	49.1	2.9	35.5	10.6
Howard	526	29	50.5	14.7	19.2	16.5
Jefferson	572	31	45.2	9.2	13.7	22.2
Johnson	382	67	36.5	5.7	17.3	13.5
	327	23	43.2	6.4	14.3	22.4
Kearney						
Keith	336	50	49.5	4.8	19.7	25.0
Keya Paha	169	11	38.4	5.5	10.7	22.2
Kimball	447	122	33.4	2.1	13.6	17.8
Knox	950	43	46.9	8.2	18.5	20.2
Lancaster	1,771 995	135	51.2 51.8	14.1 7.8	18.5 17.0	18.5 27.0
Logan	96	12	36.3	13.1	17.1	6.0
Loup	93	22	34.7	10.1	14.3	10.2
McPherson	121	10	49.3	10.2	24.8	14.3
Madison	681	46	46.5	10.4	18.5	17.6
Merrick	482	47	52.5	12.3	28.4	11.8
	500	62	47.9	6.8	19.1	21.9
Nance	298	15	41.2	10.9	11.9	18.4
Nemaha	397	52	41.8	11.5	15.9	14.4
Nuckolls	336	14	47.5	4.9	10.9	31.6
Otoe	856	84	49.1	9.3	17.5	22.3
Pawnee	374	31	38.1	6.8	9.8	21.5
Perkins	379	32	43.5	6.5	20.9	16.1
	340	35	52.0	11.0	20.1	20.9
Phelps Pierce	529	28	41.6	13.7	16.8	11.2
Platte	902	78	48.4	9.6	18.4	20.4
Polk	445	32	48.5	10.4	18.6	19.5
Red Willow	291	20	47.8	6.7	19.9	21.2
Richardson	707	49	46.9 44.4	8.3 13.9	12.8 21.8	25.8 8.7
Rock	685	20 70	47.6	8.4	20.8	18.4
Sarpy	322	28	45.9	7.6	8.4	29.9
Saunders	1,143	93	49.0	11.6	15.8	21.5
Scotts Bluff	752	58	54.8	10.2	22.5	22.2
Seward	986	106	46.4	8.3	18.6	19.5
Sheridan	515	62	41.2	3.9	20.6	16.7
Sherman	326	62 22 25	47.1	10.0	18.0	19.1
Sioux	312	25	45.3	4.8	23.6	16.9

# Table C. Summary of Coverage, Nonresponse, and Misclassification Adjustments by County: 2022 (continued) [For meaning of abbreviations and symbols, see introductory text.]

ALL FARRS (JUDEE)         June         June <thjune< th="">         June         June<th>[For meaning of abbreviations and symbols, see introductory text.] Geographic area</th><th>Total (number)</th><th>Standard error</th><th>Adjustment as percent of total</th><th>Percent of total adjustment from coverage</th><th>Percent of total adjustment from nonresponse</th><th>Percent of total adjustment from misclassification</th></thjune<>	[For meaning of abbreviations and symbols, see introductory text.] Geographic area	Total (number)	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification
Spring         527         30         424         643         525         327           Transmin         258         36         444         443         525         33           Way man         258         36         444         443         525         33           Way man         448         577         456         443         453         525           Way man         448         577         456         453         456         356           Way man         449         577         456         456         456         357           Way man         449         577         456         456         456         357           Way man         4497,658         91,578         91,47         34         660         364           Barb Fael         4497,658         91,457         143         460         77,87         461         453	ALL FARMS (NUMBER) - Con.				3		
Theorem         442         443         443         443         444	Counties - Con.						
Theorem         442         443         443         443         444	Stanton	532	30	42.1	6.9	12.5	22.7
Thatshow         322         55         44.2         86         21.4         13.3           Warningtow         668         84.4         16.8         20.5         16.8 <t< th=""><th>Thayer</th><th>437</th><th>31</th><th>49.6</th><th>6.2</th><th>13.8</th><th>29.6</th></t<>	Thayer	437	31	49.6	6.2	13.8	29.6
Nates         B26         15         46.5         25.5         25.0         86.0           Wark         B46         97         47.1         86.0         97.0         86.0         97.0 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Washington         668         54         471         146         201         002           Vischer         409         13         433         447         141         001           LADIO NARSI SACES)         140         143         141         014           State Total         140         143         141         014           Acres         140         143         141         014           Acres         140         143         141         014           Acres         140         143         140         141           Acres         141         144         143         140           Acres         144         144         144         144         144           Acres         144         14			13				
Website         150         120         771         163         282         140           LADD NARMS (ACRES)         Sate         133         133         140         141           State Total         Sate         133         140         141           Courses         Sate         131         15         9         131         15         16         131         131         131         131         131         131         131         131         131         131         131         131 <td< th=""><th>Washington</th><th></th><th>54</th><th></th><th></th><th></th><th></th></td<>	Washington		54				
Wheeler         10         10         43.8         90         14.0         90         10           LAND IN KARKI (ACRES)         Sale Total         Sale			42				
LAD. NY FARMS (ACRES)         84.575 500         84.575 500         84.575 500         7.759         7.314         3.3         14.0         14.1           Courses         325.546         7.7590         7.759         7.15         3.50         7.24           Ambro - Ambr	Wheeler	173	10	43.8	9.0	14.0	20.7
Sate Total         43,075,690         814,578         31         1.3         1.4         1.4           Atenta         33,738         37,200         33,1         1.5         1.9         1.9           Atenta         33,738         37,200         33,1         1.5         1.9         1.9           Atenta         33,738         37,200         33,1         1.55         1.9         1.9           Atenta         1.0         7,420         4.44         1.4         1.5         1.9           Barner         2.00,750         7,142         2.4         4.4         1.4         1.5         1.9           Barner         2.00,750         71,622         2.5         0.6         8.5         1.19           Barner         2.00,770         0.00,9         3.5         0.7         1.13         1.13           Barner         2.00,770         0.00,9         3.5         0.7         1.13         1.13           Barner         2.00,770         0.00,9         3.5         0.7         1.13         1.13           Calar         2.00,770         0.00,9         3.5         0.7         1.13         1.13           Calar         2.00,770	York	498	33	53.2	14.7	20.1	18.4
Nebraska         43,975,683         814,975         31.4         3.3         140         14.1           Counties         33.735         37,200         35.1         35.3<	LAND IN FARMS (ACRES)						
Counties         336 72 00 33 7700 33 7 15 0 30 7174 34 7 15 0 30 7174 34 7 15 0 30 7174 34 7 15 0 30 7174 34 714 15 0 30 7174 34 715 0 30 7174 34 715 0 30 7174 34 715 0 30 7174 34 715 0 30 7174 34 715 0 30 7174 34 715 0 30 7174 7174 34 715 0 30 7174 7174 34 715 0 30 7174 7174 34 715 0 30 7174 7174 34 715 0 30 7174 7174 34 715 0 30 7174 7174 34 715 0 30 7174 7174 34 715 0 30 7174 7174 7174 7174 7174 7174 7174 717	State Total						
Aarts- Aarts-	Nebraska	43,975,693	814,578	31.4	3.3	14.0	14.1
Artestope         452,449         27,289         45,7         8,2         180         924           Antor         331,447,555         77,452         14.4         14.4         13.5         26.6           Baine         331,447,555         77,452         13.5         14.6         12.5         6.6           Baine         331,447,555         77,452         13.5         14.6         14.5         5.6           Baine         277,518         93,557         23.5         10.8         12.5         6.6           Baine         277,518         93,557         45.3         5.7         18.4         11.6           Baine         249,577         26,688         42.5         5.3         18.4         11.8           Baine         249,577         26,688         42.5         5.4         18.4         11.8           Case         249,577         26,688         42.5         5.4         18.4         11.8           Case         249,577         33,561         14.0,1         18.4         18.5           Case         24,467         34,613         14.7         10.9         14.9         10.8           Case         24,467         14.63,4         1	Counties						
Arbs/         406,830         77,762         11.1         24         6.3         23.3           Born         406,830         77,762         41.1         24         6.3         23.3           Born         400,820         73,666         39.4         8.6         12.6         81.6           Born         400,820         73,666         39.4         8.6         12.6         81.6           Born         400,820         73,666         39.4         8.6         13.6         14.8           Born         774,81         80,234         4.5         5         17.9         22.6           Born         206,577         86,550         35.5         71         15.5         14.8           Case         206,577         34,660         15.3         11.8         14.8         10.0         20.5         10.0         10.0         20.5         10.0         10.0         20.5         10.0         20.5         10.0         10.0         20.5         10.0         10.0         20.5         10.0         10.0         20.5         10.0         20.5         10.0         20.5         10.0         20.5         10.0         20.5         10.0         20.5         10.0	Adams	334,735	37,200	33.1	1.5	9.9	21.7
Banner         447,050         77,432         444         144         135         284           Banner         60,052         73,052         194         144         135         122         165           Borbar         60,052         73,052         124         234         025         83         145           Borbar         60,053         77,422         234         025         83         145           Borbar         77,424         93,055         93,057         143         155         154         116           Burle         239,077         90,0864         023         64         168         171,02           Burle         239,077         90,0864         023         64         168         171,03           Cate         254,777         30,0477         144         03         144         03         144         03           Cate         564,177         140,070         124         04         146         160         160         160         160         160         160         160         160         160         160         160         160         160         160         160         160         160         160         1							
Baine         331.646         76.862         19.5         10.5         12.4         6.1           Book Baine         435.655         37.462         39.5         6.6         16.5         16.5         16.5         16.5         16.5         16.5         16.5         16.5         17.42         16.5         17.5         18.5         17.5         17.5         18.5         17.5         18.5         18.5         17.5         18.5         18.5         18.5         17.5         18.5 <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Box Bate         Person         Perso	Blaine	331,846	78,692	19.5	1.0	12.4	6.1
Bod         227,518         35,868         23,4         3.5         16.0         33,8           Bot         248,977         96,850         33,57         24,43         3.5         17,7         77,7         122,7           Bot         288,977         96,850         35,5         3,7         1,15,5         14,8         11,8           Bot         288,977         96,850         33,5         7,1         15,5         14,8           Cass         228,947         17,7,621         33,551         33,7         1,1         15,5         14,8           Cass         228,577         17,7,621         13,4         18         1,4         10,3           Color         3,7,65,770         17,7,621         13,4         18         1,4         10,3           Color         232,561         24,4         6,4         11,5         14,8         1,4         10,3           Color         15,7,18,53         12,228,3         24,1         0,8         11,4         16,9           Color         15,7,18,53         12,220,5         35,9         4,1         14,8         14,1         14,8           Davido         232,466         25,349         33,8         4,1							
Brown         774.81         88.29         32.1         2.6         18.0         11.5           But         296.77         66.50         35.5         5.3         18.4         11.8           But         39.677         66.500         35.5         5.3         18.4         11.8           But         39.644         39.644         39.64         40.3         40.3         17.3           But         451.670         44.680         37.4         6.9         13.3         17.3           Catae         5.44.177         44.606         4.4         0.8         3.6         18.3           Catae         39.6454         144.060         4.4         0.8         3.6         18.3           Catae         39.6454         144.060         4.2         0.8         3.6         18.3           Caty m         39.2230         4.44         0.8         3.6         1.8         1.3         <	Boyd	227,518	35,689	23.4	3.5	16.0	3.9
brt         28.077         29.650         35.5         5.3         18.4         11.6           Case         29.643         33.951         33.81         33.3         7.1         13.5         14.8           Case         29.643         33.951         33.81         7.1         13.5         14.8           Case         37.65779         177.621         14.4         18         1.4         10.3           Chery         776.645         149.000         42.4         0.01         38.8         1.6           Crey me         37.65779         177.621         1.4         1.8         1.4         10.3           Crey me         32.6205         36.961         2.1         1.6         1.5         7.6           Conter         157.883         14.54         64.5         2.4         64         1.4         1.6         1.6           Deven         24.166         24.26         35.9         4.1         2.6         1.0         2.8         1.0         2.8         1.0         2.8         1.0         2.8         1.0         2.8         1.0         2.8         1.0         2.8         1.0         2.8         1.0         2.8         1.0         2.8	Brown	774,981	86,239	32.1	2.6	18.0	11.5
Buter         33         64         16.9         17.0           Cear         33.17         20.885         42.3         6.4         16.9         17.0           Chasr         33.9         33.4         1.7         0.9         4.3         9.0           Chasr         3.767.77         13.4         1.8         1.4         10.8           Chasr         3.767.77         1.72         1.3.4         1.8         1.4         10.8           Chayr         3.767.77         1.72         1.3.4         1.8         1.4         10.8           Corr         3.767.77         1.72         1.3.4         1.8         1.4         10.8           Corr         3.767.77         1.72.6         2.4.1         6.6         11.0         6.7           Corr         3.767.77         1.72.6         2.4.1         6.6         11.0         6.6           Corr         3.767.77         1.72.2         2.4.1         6.6         10.0         6.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6							
Case         299,643         33,951         33,3         7,1         15,5         14,8           Codar         37,95779         177,721         14,34         14         103           Cherry         37,75779         177,721         14,34         13,3         16,8         11,0         23,3           Cherry         37,95779         177,721         14,4         18,4         103         33,8         18,8         16,8         11,0         62,2         33,9         14,4         103         33,8         16,8         11,0         62,2         76,6         11,0         62,2         76,6         11,0         62,2         76,6         11,0         62,2         76,6         11,0         62,2         76,6         11,0         28,2         14,4         16,9         14,4         14,4         14,4         14,4         14,4         14,2,4         11,2,4         14,2,4,4         15,0,2         33,8,9         14,4         177,1         11,1         28,1         16,0         14,2,4         14,2,4,4         15,0,2         33,8,9         14,4         177,4         12,2,2         11,0         10,0         12,2,2         11,0         10,0         14,4         16,0         14,2,4         10,0	Burt						
Cedar         45,579         44,800         7.4         6.9         13.3         17.3           Chayme         376,575         140,008         4.24         0.8         30.8         10.3           Cheyme         376,575         140,008         4.24         0.8         30.8         10.3           Cheyme         375,571         47.008         42.4         0.8         30.8         11.8         22.8           Comma         235,281         4.674         46.4         6.4         6.4         12.5         7.6           Caster         1.551,862         142.2         10.8         14.4         16.9         6.1           Dewes         275,581         34.981         42.2         10.8         14.4         16.9           Dewes         275,586         24,386         35.8         5.1         14.6         16.0           Dewes         275,586         24,386         37.9         0.0         16.7         12.2         10.0           Deve         275,586         24,386         37.9         0.0         16.7         12.2         10.0         12.2         10.0         12.2         10.0         12.2         10.0         12.2         10.0							
Cheny         378,779         177,821         134         184         14         103           Colymen         76,454         140,004         427,0         0.3         30.3         1.3           Colar         222,605         56,661         24.1         3.6         11.0         6.2           Colar         323,823         4,674         284         6.4         122.5         7.6           Outer         1551,863         142,243         10.8         144         169           Dawes         41,234         10.54         37.8         4.9         26.9         6.1           Dawes         41,234         15.04         37.6         4.9         26.9         6.1           Dawes         41,234         37.0         50.0         16.7         12.2         1.0         1.0         12.0           Dadge         33.004         4.344         37.0         50.0         16.7         12.2         1.0         12.0         1.0         1.4         1.0         1.0         1.2         1.0         1.0         1.2         1.0         1.2         1.0         1.2         1.0         1.0         1.0         1.0         1.0         1.0         1.0	Cedar	451,579		37.4	6.9	13.3	
Cheyime         776,455         149,008         42.4         0.6         398,8         1.8         2.26           Curve         365,551         36,554         34,474         26.4         6.4         12.5         76           Curve         365,551         4,674         26.4         6.4         12.5         76           Oxiser         1551,852         34,381         42.2         0.8         140.1         26.9           Davias         44,126         45,365         34,831         42.2         0.8         141.1         26.9           Davias         44,126         45,365         34.8         34.6         1.4         146.1         16.1           Davias         275,506         2.6         36.5         4.2         13.2         10.1           Davias         350,979         24,564         44.3         8.0         22.2         13.1           Frontier         764,667         77,412         35.5         5.7         10.0         12.8           Protec         74,666         52.44         34.4         2.9         10.2         22.8           Garge         146,676         77,412         35.5         5.7         10.0         24.8							
Colis.         212.005         565.61         24.1         6.8         11.0         6.2           Custer         1363.301         4.874         224         6.8         11.0         6.2           Dakota         1551.863         122.293         42.1         10.8         14.4         16.9           Dawes         841.294         91.504         37.8         4.4         26.6         6.1           Dawes         841.294         91.504         37.8         4.4         26.6         6.1           Dawes         841.294         91.504         37.8         4.4         26.6         6.1           Dawes         275.086         64.275         29.5         5.2         13.2         11.0           Daves         275.083         50.430         29.8         30.2         16.8         12.2           Daves         275.933         50.430         29.4         44.8         80         23.2         13.1           Frankin         74.665         75.7         16.0         13.8         29.9         10.2         22.2         23.5         16.0         13.8           Formas         25.6777         13.55         5.7         16.0         13.8	Cheyenne	764,545	149,008	42.4	0.8	39.8	1.8
Coming         362.361         4.674         28.4         6.4         12.5         7.6           Dakota         1.551.862         12.203         42.1         10.8         14.4         16.9           Dakota         167.882         33.981         42.2         3.1         10.1         28.6           Dawas         64.20.86         43.86         55.8         5.1         14.6         16.1           Dawas         275.05         25.275         32.6         4.2         23.2         1.0           Dodg         275.05         26.255         40.9         3.2         9.8         27.6           Dondy         277.69         25.060         44.3         8.0         23.2         13.1           Primere         527.597         24.664         44.3         8.0         12.2         13.1           Primere         276.665         25.611         34.5         8.0         19.1         7.4           Garden         51.4667         7.942         35.4         5.0         19.1         7.4           Garden         51.4667         7.942         35.4         5.0         10.2         13.2           Garden         51.4667         7.942							
Dakos         167.882         34.981         42.2         3.1         10.1         29.1           Daves         61.842         91.504         37.8         4.9         28.6         61.5           Daves         62.34.166         42.429         33.9         6.1         44.6         16.5           Daves         75.068         54.275         25.5         5.2         17.2							
Dakos         167,882         34,981         42.2         3.1         10.1         29.1           Dakos         64,242         31,954         32,8         4,9         25,6         53,8         4,9         25,6         53,8         4,9         126,6	Custer	1,551,863	123,293	42.1	10.8	14.4	16.9
Dawson         643.088         443.58         35.8         5.1         14.6         16.0           Down         234.166         24.22         33.3         4.1         24.8         5.1           Down         23.084         64.542         27.9         5.0         13.7         11.0           Down         25.255         20.9         32.2         18.0         22.3         5.6           Finore         527.593         90.430         29.8         1.9         22.3         5.6           Finorie         361.979         24.564         44.3         8.0         22.1         11           Franklin         278.695         2.5611         34.5         8.0         19.1         7.4           Fornia         278.695         2.5611         34.5         8.0         19.1         7.4           Garder         284.646         60.244         35.4         2.9         10.2         22.2         11           Garder         29.647         56.637         10.8         8.2         14.8         18.8         2.2         14.8         14.8         14.8         14.8         14.8         14.8         14.8         14.8         14.8         14.8         14.8 </th <th>Dakota</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Dakota						
Devel         234,166         254,275         28,3         4,1         24,8         5,1           Dodg         37,098         4,354         37,0         9,2         16,7         12,3           Dodg         37,098         4,354         37,0         9,2         16,7         12,3           Dandy         37,098         4,354         37,0         9,2         16,7         12,3           Dandy         37,098         4,354         37,0         9,2         16,7         12,3           Dandy         361,979         24,564         44,3         8,0         23,2         13,1           Frankin         278,667         26,611         34,5         8,0         19,1         7,4           Garge         6,41,630         9,644         40,9         9,7         20,6         10,6           Garden         1,047,74         36,677         18,602         21,5         21         2,3         11,1           Garden         26,677         18,602         22,5         4,3         3,5         13,3         28,8           Garden         27,5         9,8         10,1         7,6         9,8         10,1         7,6           Hail							
Dodge         337.09         4.354         37.9         9.0         16.7         122           Dougles         527.553         90.430         28.8         1.9         22.3         5.6           Dundy         57.553         90.430         28.8         1.9         22.3         5.6           Prankin         27.695         25.611         34.5         8.0         19.1         7.4           Frankin         27.695         25.611         34.5         8.0         19.1         7.4           Frankin         27.695         25.611         34.5         8.0         19.1         7.4           Frankin         27.695         25.611         34.5         8.0         19.1         7.4           Gardien         425.946         62.64         35.4         2.9         10.2         22.3           Gardien         1047.74         9.682         45.5         2.7         10.8         2.2         3.111         10.8         2.2         2.3         11.1         10.8         2.2         2.3         11.1         10.3         2.8         11.3         2.2         2.3         11.1         10.3         2.8         1.3         2.8         1.3         2.8	Deuel	234,166	25,429	33.9	4.1	24.8	5.1
Douglas         52.000         22.55         40.9         3.2         9.8         27.9           Fillmore         331 979         24.564         44.3         8.0         23.2         131           Fillmore         331 979         24.564         44.3         8.0         23.2         131           Frontin         276 695         25.611         35.5         6.7         16.0         13.8           Frontin         278 695         25.611         35.5         6.7         16.0         13.8           Forniar         278 695         26.040         40.9         9.7         20.6         10.6           Garden         10.047 447         55.622         15.5         2.1         2.1         12.1           Garden         218.098         49.07         35.0         6.3         18.8         2.2         2.4           Greeley         15.566         13.378         27.7         9.8         10.1         7.6           Harlion         228.221         62.320         43.3         3.5         18.5         21.4           Harlion         228.221         62.320         43.3         3.5         15.2         13.2           Harition         228							
Dundy         527.593         90.430         228         1.9         22.3         5.6           Filmore         361.979         24,564         44.3         8.0         23.2         13.1           Franklin         278.695         55.111         34.5         8.0         9.1         7.4           Formas         278.695         75.411         34.5         8.0         9.1         7.4           Formas         425.046         60.244         35.4         2.9         10.2         22.2           Gage         541.630         9.640         40.9         9.7         20.6         10.6           Garden         1.684.744         59.682         15.5         2.1         2.3         11.1           Garden         216.681         13.376         2.7.5         9.8         10.1         7.6           Hail         273.923         31.920         45.7         3.5         13.3         28.8           Harino         245.201         43.216         30.3         26         1.4         14.5           Harino         245.201         43.216         30.3         26         1.3         1.3         28.8           Harino         245.207							
Franklin         278,695         25,611         34.5         8.0         19.1         7.4           Frontier							
Frontier         614.667         79.412         35.5         5.7         10.0         13.8           Gage         345.046         60.264         35.4         2.9         10.2         22.2           Garber         10.84.744         50.602         15.5         2.1         2.3         11.1           Garber         10.84.744         50.602         2.5         2.6         3         8.1         8.2           Garber         10.84.744         50.602         2.6         3         8.1         8.2         2.4           Garber         2.6         10.66         2.2         2.4         3.3         2.5         1.5         2.1         2.3         11.1           Garber         2.802         5.1         0.6         6.8         1.5         2.4         2.4           Greeley         40.834         2.202         43.3         3.5         18.5         2.1.4           Harian         2.86.232         62.326         43.3         3.5         18.5         2.1.4           Harse         40.634         72.57         40.0         2.0         11.5         2.6.5           Horker         42.2700         105.17         38.5         5.0							
Furmas         425,046         60,254         35.4         2.9         10.2         22.2           Garden         541,630         9,640         40.9         9.7         20.6         10.6           Garden         336,737         16,803         20.2         2.9         8.1         9.2           Gosper         218,099         36,087         35.0         6.9         19.8         8.3           Gosper         218,099         36,087         35.0         6.9         19.8         8.3           Gosper         218,099         36,087         35.0         6.9         19.8         8.3           Gradey         465,586         13.378         27.5         0.8         21         7.6           Hail         273,923         31,920         45.7         3.5         13.3         28.8           Harmiton         298,232         62,226         43.3         3.5         16.5         21.4           Harmiton         298,232         62,236         43.3         0.3         6.8         13.0         10.4           Hayes         404,934         72,376         40.0         2.0         11.5         26.5           Hathan         425,075							
Gage         641,630         9,640         40.9         9.7         20.6         10.6           Garden         136,737         16,803         20.2         2.9         8.1         9.2           Garden         366,737         16,803         20.2         2.9         8.1         9.2           Grant         366,737         16,803         20.2         2.9         8.1         9.2           Grant         444,481         28,002         5.1         0.6         2.2         2.4           Grant         260,232         62,336         13.3         5         15.5         21.4           Haritan         246,201         48,218         30.3         6.8         13.0         10.4           Hayes         444,394         72,376         40.0         2.0         11.5         26.5           Hot         164,278         160,517         38.5         5.0         18.8         14.6           Howard         225,025         24,272         36.8         6.0         10.6         20.2           Johnson         280,525         24,272         36.8         6.0         10.6         20.2           Jefferson         280,575         20.003		425.046					
Garfield         356,737         16,803         20.2         2.9         8.1         9.2           Gosper         218,098         36,087         35.0         6.9         19.8         8.3           Grant         494,881         28,002         5.1         0.6         2.2         2.4           Grant         273,923         31,920         45.7         3.5         13.3         228.8           Hamilton         226,203         31,920         45.7         3.5         13.3         228.8           Hamilton         246,201         424.6         43.3         3.5         18.5         21.4           Harine         246,201         42.16         40.0         20         11.5         26.3           Hitchcock         309.921         44.512         20.1         19         11.5         65.3           Howard         230,525         24.272         36.8         6.0         10.6         20.2           Johnson         236,575         20.003         36.3         7.7         12.6         16.1           Johnson         128,141         49.853         30.9         4.5         17.6         8.9           Keith         440,532         139.32	Gage	541,630	9,640	40.9	9.7	20.6	10.6
Gosper         210.098         36.087         35.0         6.9         19.8         8.3           Greeley         155.366         13.378         27.5         9.8         10.1         7.6           Hall         298.232         31.378         27.5         9.8         10.1         7.6           Harilton         298.232         62.326         43.3         3.5         18.5         21.4           Harian         245.01         48.218         30.3         6.8         13.0         10.4           Harian         245.201         48.218         30.3         8.0         10.6         20.2         11.5         26.5           Hoter         28.075         20.03         36.6         7.7         12.6         12.1         13.6         13.7         11.4         15.0         15.0         13.8         15.0         13.7         11.4         15.0							
Greeley         155,366         13,378         27,5         9,8         10,1         7,6           Hall         273,923         31,920         45,7         3,5         13,3         28.8           Hamilton         298,232         62,326         43,3         3,5         18,5         21.4           Hartan         245,201         48,218         30,3         6.8         13,0         104           Hayes         404,934         72,376         40,0         2.0         1,5         25.5           Hitchcock         360,921         44,512         20.1         1.9         11.9         6.3           Howard         242,720         161,0517         38.5         50         18.8         14.6           Howard         242,750         150,057         20.03         36.3         7,7         12.6         16.1           Johnson         285,075         20.003         36.3         7,7         12.6         16.1           Keith         440,532         19.937         30.1         3.7         11.4         150           Keith         440,532         19.937         30.1         3.7         11.4         150           Keith         30.84/16 </td <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8.3</td>							8.3
Hall       273,923       31,920       45.7       3.5       13.3       288         Hamilton       288,232       62,326       43.3       3.5       18.5       11.4         Harlan       245,201       42,218       30.3       6.8       13.0       10.4         Hayes       404,934       72,376       40.0       2.0       11.5       265.5         Holt       1542,780       160,517       38.5       5.0       18.8       14.6         Hooker       421,510       512,966       18.8       3.0       8.0       7.8         Jefferson       230,525       24,272       36.8       6.0       10.6       202.2         Jefferson       230,525       24,272       36.8       6.0       16.6       16.1         Johnson       128,141       49.835       30.9       4.5       17.6       8.9         Kearney       308,416       41,478       30.7       2.9       18.7       9.1         Keith       440,532       139,327       30.1       3.7       11.4       15.0         Kearney       407,315       34,942       15.5       0.8       10.2       14.4         Kearney       432,62							
	Hamilton	298.232	62.326	43.3	3.5	18.5	21.4
Hitchcock       360 921       44,512       20.1       1.9       11.9       6.3         Holt       1,542,780       160,517       38.5       5.0       18.8       14.6         Howard       20,525       24,272       36.8       6.0       10.6       20.2         Jefferson       228,075       20,003       36.3       7.7       12.6       16.1         Johnson       128,075       20,003       36.3       7.7       12.6       16.1         Johnson       128,075       20,003       36.3       7.7       12.6       16.1         Johnson       128,141       49,835       30.9       4.5       17.6       8.9         Kearney       308,416       41,478       30.7       2.9       18.7       9.1         Keith       440,532       139,327       30.1       3.7       11.4       15.0         Keya Paha       43,426       119,627       36.9       6.9       16.0       14.0         Knox       445,157       33,181       41.0       7.7       19.0       14.4         Lancaster       007,915       94,944       25.5       0.8       10.2       14.4         Logan       33,	Harlan	245,201	48,218	30.3	6.8	13.0	10.4
Holt       1,52,780       160,517       38.5       5.0       18.8       14.6         Hooker       421,510       51,296       18.8       3.0       8.0       7.8         Howard       235,55       24,272       36.8       6.0       10.6       20.2         Jefferson       285,075       20,003       36.3       7.7       12.6       16.1         Johnson       128,141       49,835       30.9       4.5       17.6       8.9         Kearney       308,416       41,478       30.7       2.9       18.7       9.1         Keith       440,532       139,327       30.1       3.7       11.4       15.0         Keya Paha       343,426       119,627       36.9       6.9       16.0       14.0         Knox       442,157       33,181       41.0       7.7       19.0       14.4         Lancaster       407,381       75.266       50.7       9.7       16.1       24.9         Lincoln       1,638,602       115.009       36.9       3.3       0       14.7       5.7         Macrison       23,891       53,697       31.9       4.7       7.4       19.9         Macrison </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>26.5</th>							26.5
Howard       230,525       24,272       36.8       6.0       10.6       202         Jefferson       285,075       20,003       36.3       7.7       12.6       16.1         Johnson       128,141       49,835       30.9       4.5       17.6       8.9         Kearney       308,416       41,478       30.7       2.9       18.7       9.1         Keith       440,532       139,327       30.1       3.7       11.4       15.0         Keya Paha       343,426       119,627       36.9       6.9       16.0       14.0         Kinox       482,157       33,181       41.0       7.7       19.0       14.4         Lacaster       407,381       75,286       50.7       9.7       16.1       24.9         Logan       16,38,602       115.009       36.9       3.7       8.1       25.1         Logan       253,991       53,697       31.9       4.7       7.4       19.9         McPherson       208,714       44,155       38.8       5.9       24.4       8.5         Nance       208,714       44,155       38.8       5.9       2.7       7.0       15.5         Nance							14.6
jefferson       285 075       20,003       36.3       7.7       12.6       16.1         johnson       128,141       49,835       30.7       2.9       18.7       91         Kearney       308,416       41,478       30.7       2.9       18.7       91         Keith       440,532       139,327       30.1       3.7       11.4       15.0         Keya Paha       343,426       119,627       36.9       6.9       16.0       14.0         Kimball       607,195       94,944       25.5       0.8       10.2       14.4         Lacaster       407,381       75,286       50.7       9.7       16.1       24.9         Lincoln       16,38,602       115,009       36.9       3.7       8.1       25.1         Logan       303,050       91,963       4.3       2.2       1.1       1.0         Logan       304,018       43,595       39.9       5.3       11.7       25.9         Macison       208,714       44,155       38.8       5.9       24.4       8.5         Morrill       909,153       50,795       25.2       2.7       7.0       15.5         Nance       208,714<							
Johnson       128,141       49,835       30,9       4.5       17.6       8.9         Kearney       308,416       41,478       30.7       2.9       18.7       9.1         Keith       440,532       139,327       30.1       3.7       11.4       15.0         Keya Paha       343,426       119,627       36.9       6.9       16.0       14.0         Kimball       607,195       94,944       25.5       0.8       10.2       14.4         Knox       482,157       33,181       41.0       7.7       19.0       14.4         Lancaster       407,381       75.266       50.7       9.7       16.1       24.9         Logan       1,638,602       115.009       36.9       3.7       8.1       25.1         Logan       253,891       53.697       31.9       4.7       7.4       19.9         McPherson       254,732       50.268       23.3       3.0       14.7       5.7         Madison       304,018       43.555       39.9       5.3       11.7       22.9         Merrick       208,714       44.155       38.8       5.9       24.4       8.5         Nace       134,404							
Keith       440,532       139,327       30.1       3.7       11.4       15.0         Keya Paha       343,426       119,627       36.9       6.9       16.0       14.0         Kimball       607,195       94,944       25.5       0.8       10.2       14.4         Lancaster       407,381       75,286       50.7       9.7       16.1       24.9         Lincoln       1,638,602       115,009       36.9       3.7       8.1       25.1         Logan       303,050       91,963       4.3       2.2       1.1       1.0         Loup       253,891       53,697       31.9       4.7       7.4       19.9         McPherson       304,018       43,595       39.9       5.3       11.7       22.9         Merrick       208,714       44,155       38.8       5.9       24.4       8.5         Nance       319,404       11,934       29.7       8.8       13.7       7.3         Nance       319,737       31,345       33.3       5.0       8.7       19.5         Nance       319,737       31,345       33.3       5.0       8.7       19.5         Nance       319,737	Johnson	128,141	49,835	30.9	4.5	17.6	8.9
Keya Paha         343,426         119,627         36,9         6,9         16,0         14,0           Kimball         607,195         94,944         25,5         0,8         10,2         14,4           Lancaster         482,157         33,181         41,0         7,7         19,0         14,4           Lancaster         407,381         75,286         50,7         9,7         16,1         24,9           Lincoln         303,050         91,963         4,3         2,2         1,1         1,0           Logan         303,050         91,963         4,3         2,2         1,1         1,0           Loup         253,891         53,697         31,9         4,7         7,4         19,9           Morpherson         548,732         50,268         23,3         3,0         14,7         5,7           Madison         304,018         43,595         39,9         5,3         11,7         22,9           Merrick         208,714         44,155         38,8         5,9         24,4         8,5           Nance         304,018         43,595         39,9         5,3         11,7         22,9           Merrick         20,97         8	Kearney	308,416	41,478	30.7	2.9	18.7	9.1
Kimball       607,195       94,944       25.5       0.8       10.2       14.4         Knox       482,157       33,181       41.0       7.7       19.0       14.4         Lancaster       407,381       75,286       50.7       9.7       16.1       24.9         Lincoln       16.38,602       115,009       36.9       3.7       8.1       25.1         Logan       30,3050       91,963       4.3       2.2       1.1       1.0         Loup       253,891       53,697       31.9       4.7       7.4       19.9         McPherson       30,4018       43,595       39.9       5.3       11.7       22.9         Merrick       208,714       44,155       38.8       5.9       24.4       8.5         Norrill       99,153       50,795       25.2       2.7       7.0       15.5         Nance       134,404       11,934       29.7       8.8       13.7       7.3         Nuckolls       319,737       31,345       33.3       5.0       8.7       19.5         Nance       242,887       39,750       43.7       10.3       23.5       10.0         Nuckolls       319,737							
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Keya Paha Kimball		119,627				
Lincoln         1,638,602         115,009         36.9         3.7         8.1         25.1           Logan         303,050         91,963         4.3         2.2         1.1         1.0           Loup         233,891         53,697         31.9         4.7         7.4         19.9           McPherson         548,732         50,268         23.3         3.0         14.7         5.7           Madison         304,018         43,595         39.9         5.3         11.7         22.9           Merrick         208,714         44,155         38.8         5.9         24.4         8.5           Morrill         909,153         50,795         25.2         2.7         7.0         15.5           Nance         134,404         11,934         29.7         8.8         13.7         7.3           Nuckolls         319,737         31,345         33.3         5.0         8.7         19.5           Otoe         388,524         54,819         48.4         9.0         25.4         14.0           Pawnee         201,868         47,807         35.9         5.4         8.0         22.5           Perkins         201,868         47,807 <th>Knox</th> <th>482,157</th> <th>33,181</th> <th>41.0</th> <th>7.7</th> <th>19.0</th> <th>14.4</th>	Knox	482,157	33,181	41.0	7.7	19.0	14.4
Logan         303,050         91,963         4.3         2.2         1.1         1.0           Loup         253,891         53,697         31.9         4.7         7.4         19.9           McPnerson         548,732         50,268         23.3         3.0         14.7         5.7           Madison         304,018         43,595         39.9         5.3         11.7         22.9           Merrick         208,714         44,155         38.8         5.9         24.4         8.5           Morrill         909,153         50,795         25.2         2.7         7.0         15.5           Nance         134,404         11,934         29.7         8.8         13.7         7.3           Nemaha         242,887         39,750         43.7         10.3         23.5         10.0           Nuckolis         319,737         31,345         33.3         5.0         8.7         19.5           Otce         368,524         54,819         48.4         9.0         25.4         14.0           Pawnee         201,868         47,807         35.9         5.4         8.0         22.5           Perkins         201,868         47,005							
Loip         253.891         53.697         31.9         4.7         7.4         19.9           McPherson         548,732         50.268         23.3         3.0         14.7         5.7           Madison         304,018         43.595         39.9         5.3         11.7         22.9           Merrick         208,714         44,155         38.8         5.9         24.4         8.5           Mornill         50,795         25.2         2.7         7.0         15.5           Nance         19.944         11,934         29.7         8.8         13.7         7.3           Nuckolls         319,737         31,345         33.3         5.0         8.7         10.0           Versee         208,874         48.47         9.9         5.4         8.0         2.5.5           Nance         314,404         11,934         29.7         8.8         13.7         7.3           Nuckolls         319,737         31,345         33.3         5.0         8.7         19.5           Otce         368,524         54,819         48.4         9.0         25.4         14.40           Pawnee         201,868         47,807         35.9							
Madison         304,018         43,595         39.9         5.3         11.7         22.9           Merrick         208,714         44,155         38.8         5.9         24.4         8.5           Morrill         909,153         50,795         25.2         2.7         7.0         15.5           Nance         134,404         11,934         29.7         8.8         13.7         7.3           Nemaha         242,887         39,750         43.7         10.3         23.5         10.0           Nuckolls         319,737         31,345         33.3         5.0         8.7         19.5           Otce         368,524         54,819         48.4         9.0         25.4         14.0           Pawnee         201,868         47,807         35.9         5.4         8.0         22.5           Perkins         22,637         30.1         5.3         13.1         11.7	Loup				4.7		
Morrill         909,153         50,795         25.2         2.7         7.0         15.5           Nance         11,934         29,7         8.8         13,7         7.3           Nemaha         242,887         39,750         43,7         10.3         23,5         10.0           Nuckoils         319,737         31,345         33,3         5.0         8.7         19,5           Otce         366,524         54,819         48,4         9,0         25,4         14,40           Pawnee         201,868         47,807         35,9         5,4         8,0         22,5           Perkins         202,710         52,237         30,1         5,3         13,1         11,7							
Morrill         909,153         50,795         25.2         2.7         7.0         15.5           Nance         11,934         29,7         8.8         13,7         7.3           Nemaha         242,887         39,750         43,7         10.3         23,5         10.0           Nuckoils         319,737         31,345         33,3         5.0         8.7         19,5           Otce         366,524         54,819         48,4         9,0         25,4         14,40           Pawnee         201,868         47,807         35,9         5,4         8,0         22,5           Perkins         202,710         52,237         30,1         5,3         13,1         11,7		208 714	44 155	38.8	59	24.4	8.5
Nemaha         242,887         39,750         43.7         10.3         23.5         10.0           Nuckolls         319,737         31,345         33.3         5.0         8.7         19.5           Otoe         368,524         54,819         48.4         9.0         25.4         14.0           Pawnee         201,868         47,807         35.9         5.4         8.0         22.5           Perkins         559,496         17,050         30.2         2.8         21.5         6.0           Phelps         202,710         52,637         30.1         5.3         13.1         11.7	Morrill	909,153	50,795	25.2	2.7	7.0	15.5
Nuckolls         319,737         31,345         33.3         5.0         8.7         19,5           Otoe         368,524         54,819         48,4         9.0         25.4         14.0           Pawnee         201,868         47,807         35.9         5.4         8.0         22.5           Perkins         559,496         17,050         30.2         2.8         21.5         6.0           Phelps         282,710         52,637         30.1         5.3         13.1         11.7							
Otoe         368,524         54,819         48.4         9.0         25.4         14.0           Pawnee         201,868         47,807         35.9         5.4         8.0         22.5           Perkins         559,496         17,050         30.2         2.8         21.5         6.0           Phelps         282,710         52,637         30.1         5.3         13.1         11.7							
Perkins         559,496         17,050         30.2         2.8         21.5         6.0           Phelps         282,710         52,637         30.1         5.3         13.1         11.7	Otoe	368,524	54,819	48.4	9.0	25.4	14.0
Phelps         282,710         52,637         30.1         5.3         13.1         11.7	Pawnee Perkins						
	Phelps	282,710	52,637	30.1	5.3	13.1	11.7
	Pierce						10.8

# Table C. Summary of Coverage, Nonresponse, and Misclassification Adjustments by County: 2022 (continued) [For meaning of abbreviations and symbols, see introductory text.]

LAND         PARKE (ACRES) - Con           Counties - Con.         98           Paite         125,213           Paite         125,713           State         125,713           State         125,713           State         125,723           <	vations and symbols, see introductory text.] Geographic area	Total (number)	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification
phile         1903.01 <th1903.01< th=""> <th1903.01< th=""> <th190< td=""><td>CRES) - Con.</td><td></td><td></td><td></td><td>~</td><td></td><td></td></th190<></th1903.01<></th1903.01<>	CRES) - Con.				~		
Poit         219.409         34.211         39.4         4.3         198.6           Poit arison         634.797         22.73         63         13.9           Poit arison         634.797         27.33         27.5         63         13.9           Poit arison         634.797         27.33         27.5         63         13.9           Sector but         39.544         17.493         27.5         63         13.9           Sector but         39.544         17.493         14.4         42.2         7.6         13.8           Sector but         39.544         12.444         42.2         7.6         13.8         44.2         13.8           Sector but         39.544         12.444         42.2         7.6         13.8         44.2         13.8         14.4         42.2         7.6         13.8         14.4         42.2         7.6         13.8         14.4         42.2         7.6         13.8         14.4         42.3         14.5         14.5         42.3         14.5         14.5         14.5         14.5         14.5         14.5         14.5         14.5         14.5         14.5         14.5         14.5         14.5         14.5							
Bock         6 64 777         25 730         27 5         6 5         138           Sarrot-         36 554         17 581         31 2         38         182           Sarrot-         47 544         12 44         42 2         78         138           Sarrot-         47 544         12 44         42 2         78         138           South         12 52 585         41 753         45 5         143           South         12 52 585         41 753         45 5         143           South         12 52 585         41 753         45 5         143           South         12 52 585         44 65 48 3         14 2         56         86           South         12 52 585         44 65 33 2         45 5         76         15 7           Thomas         42 548         34 3 2         56 8         86         16 4         10 3         12 5           Washington         216 75         61 75         13 1 5         16 5         16 5         16 5         16 5         16 5         16 5         16 5         16 5         16 5         16 5         16 5         16 5         16 5         16 5         16 5         16 5         16 5         16 5<		218,406 429,119	34,211 120,216	39.4 31.7	4.5 3.2	18.6 9.4	19.1 16.3 19.1
Salitar         280,753         77,599         37,9         6.8         188           Serial methods         47,554         17,544         34,22         38         33           Scotts But         381,842         36,635         41,1         6.6         23.6           Sects But         381,842         36,635         41,1         6.6         23.6           Sects But         381,842         36,635         41,1         6.6         23.6           Sects But         31,842         36,635         44,007         33.8         44         90           Starton         123,756         40,007         33.8         44         90         24.435         45.8         45.							19.9 7.1
Sainders         475,844         12,444         422         7.8         138           Scored Burl         331,842         161,411         37.9         54         139           Scored Burl         152,989         447,723         19.5         15         123           Scored Burl         152,989         49,777         23.2         15         203           Station         133,786         143,783         143         44         9.9           Station         133,786         143,783         143         113         113         113         113         113         113         113         113         113         113         113         113         113         114 <t< td=""><td></td><td>286,753</td><td>17,599</td><td>37.0</td><td>6.8</td><td>16.8</td><td>13.4 19.3</td></t<>		286,753	17,599	37.0	6.8	16.8	13.4 19.3
Seward         339,043         16,441         37.9         5.4         19.0           Sherman         1255,950         11,533         40.2         7.5         2.3           Sherman         1222,944         11,533         40.2         7.5         2.3           Theyar         1223,945         11,533         40.2         7.5         2.3           Theyar         1223,945         24.435         45.9         8.9         2.57           Thoman         1222,622         24.435         45.9         8.9         2.57           Valley         262,777         61.316         37.4         11.5         18.0           Valley         262,775         61.316         37.4         11.5         18.0           Valsey         262,716         23.24.440         62.544         44.4         70         2.1           Valsey         22,413.386         740         26.6         4.1         5.9           State Total         24.443.365         13.4         6.4         1.5           Nebraska         29.413.386         740         26.6         4.1         5.9           Countes         34.916         30         2.2         1.1         1.1     <		475,844	12,444	42.2	7.8	13.8	20.6
Spherina         1252.920 1263.960         1972 222.915         10.5 232.215         12.5 20.077         12.3 23.215         12.5 20.077           Station         133.740         20.777         23.2         1.5 7.0         7.0           Station         133.740         20.077         23.3         4.4 8.5         2.5           Station         133.740         20.650         4.2         5.5         2.5           Velocitic         115.52         13.841         33.4         5.0         2.4           Wayne         20.6575         60.316         3.4         5.0         2.5           Webeler         313.400         42.455         46.4         7.0         2.6           State Total         22.0.65         46.4         7.0         2.6         40.4         3.8           Nebrasta         22.413.390         740         2.6         4.1         5.0         2.5           Adms         23.3         6.3         6.5         2.5         4.3         7.3         2.5           State Total         22.413.390         7.0         2.6         4.1         7.3         2.5           State Total         22.413.390         7.0         2.2.5         1.3 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>12.0 13.4</td></td<>							12.0 13.4
Sherman         222,244         1,593         40,21         7,5         20,3           Theyer         322,662         24,455         45,9         84,9         25,7           Theyer         322,662         24,455         84,9         25,7           Valley         262,372         60,091         30,9         26,5           Valley         222,165         22,725         40,9         10,4         18,8           Velacier         313,003         42,465         16,5         32,2         6,8           SALES (1,00)         State Total         State Total         State Total         State Total         13,3         4,3         7,3           Banner         106,0681         8         22,2         2,7         16,8         13,4         8,3           Bordin         303,033         65         22,2         3,3         13,4         8,3							3.9
Station       133,780       40,001       33.8       4.4       9.9         Thereform       132,780       40,001       33.8       4.4       9.9         Thereform       125,221       51,841       33.4       5.0       22.5         Thereform       222,272       90,011       30.4       10.2       16.5         Velay       222,272       90,011       30.4       10.4       16.8         Weight       222,272       40.9       10.4       16.8         Weight       33.90,13       22.455       46.4       70       28.1         Vick       33.91,39       22.455       46.4       70       28.1         SALES (\$1,000)       State Total       St		222,304	11,593	40.2	7.5	20.3	12.4
Theyer         32.2662         24.455         45.9         8.0         25.7           Valley         223.27         60.011         33.9         10.2         15.5           Washington         223.27         60.011         33.9         10.4         15.5           Washington         223.27         60.011         33.9         10.4         15.5           Washington         223.75         61.316         37.4         11.5         16.0           Wheater         334.033         22.055         40.6         70         29.1           Wheater         334.033         22.055         40.6         33         6.3           SALES (51.000)         State Total							14.7 19.6
Thurston       155.21       61,841       33.4       5.0       25.4         Waley       262,195       262,195       26,295       40.9       10.4       13.8         Warster       262,195       25,725       40.9       10.4       14.8         Warster       262,195       24,65       40.5       7.0       29.1         SALES (\$1,000)       349,199       22.065       40.4       3.9       8.9         State Total							11.2 20.0
Washington         216,575         61,316         37.4         11.5         18.0           Weister         324,469         62,594         46.4         7.0         29.1           Wheister         334,409         62,594         46.4         7.0         29.1           Wheister         334,409         62,594         46.4         3.9         8.9           SALES (\$1,000)         State Total         9         44.65         16.5         3.2         5.8           Nebraska         29,413,398         740         26.6         4.1         5.9           Countes         772,833         53         3.1.4         6.3         6.8           Anthor         33,33         11         13.5         4.3         7.3           Banner         106,668         8         2.2.2         15.8         18         11.1           Box Bute         29,118         20         22.5         18         11.1         14.8           Box Bute         23,118         20         22.6         3.2         2.2         15.8         18         11.1           Box Bute         20,118         21.5         18         11.1         14.6         74.6         6.6		155,821	51,841	33.4	5.0	25.4	2.9
Weyne         222,165         25,725         40.9         10.4         14.8           Wheeler         334,449         62,294         46.4         7.0         29.1           SALES (\$1,000)         344,449         62,294         40.4         39         8.9           SALES (\$1,000)         5.8         7.0         22.6         41.1         5.9           Counties         20,413,398         7.40         26.6         4.1         5.9           Adams         524,160         38         22.3         6.3         6.8           Arthur         30,338         11         13.5         4.3         7.3           Borne         674,763         2.9         23.8         11.8         13.4           Borne         674,763         2.9         2.0         9         5.8           Borne         674,763         2.9         2.9         0.9         5.8           Borne         674,763         2.9         2.0         9         5.8           Bord         10.8,465         11         16.7         7.4         6.5           Bord         13.3         14.6         14.8         7.4         6.5           Bord         1							5.3 7.9
Wheeler         313.003         42.465         16.5         3.2         5.8           SALES (\$1,00)         349,139         22.065         40.4         39         89           Sate Total		262,185	25,725	40.9	10.4	14.8	15.7
York         349,139         22,065         40.4         3.9         8.9           SALES (\$1,000)         Sale Total							10.3
State Total         29,413,398         740         26.6         4.1         5.9           Contise         524,160         33         23.3         6.3         6.5           Adams         72,210         33         23.3         6.3         6.5           Adams         72,210         33         23.3         6.3         6.5           Adams         73,233         51         31.4         6.3         6.5           Banner         30,968         8         22.2         2.7         15.6           Borner         239,161         21         22.4         0.4         6.6           Borner         239,161         21         22.4         0.4         6.6           Borner         237,657         17         10.7         0.4         6.5           Butfalo         527,052         40         4.4.8         7.4         8.5           Butfalo         527,057         17         10.7         0.4         0.3           Cherry         200,113         19         36.2         9.2         2.2         0.6           Cherry         270,839         8         2.0         6.2         5.7         1         1.2		349,139	42,405 22,065		3.2 3.9	5.6 8.9	7.6 27.7
State Todal         29,413,398         740         26.6         4.1         5.9           Countise         524,160         33         23.3         6.3         6.5           Adarts         72,253         33         23.3         6.3         6.5           Adarts         72,253         33         23.3         6.3         6.5           Adarts         72,253         33         23.3         6.4         6.1           Banne         34,191         9         18.7         1.9         11.1           Boore         23,116         21         22.3         1.8         3.4           Boore         23,116         21         22.3         1.4         6.6           Bord         23,165         1.7         10.7         0.4         6.6           Bord         30,080         65         22.2         3.2         2.2           Base         200,113         79         38.2         3.0         2.9           Chars         60,198         61         32.3         8.0         2.9           Char         61,198         61         3.3         8.0         2.9           Char         62,197         64							
Nebraska         29,413,398         740         26.6         4.1         5.9           Counties         524,160         38         23.3         6.3         6.4           Arteiope         533,38         11         13.5         4.3         7.3           Barner         100,966         8         22.2         7         15.8           Blane         23,338         11         13.5         4.3         7.3           Blane         23,191         29         22.2         10         5.8           Barne         23,191         29         22.2         10         5.8           Barne         23,191         29         12.7         15.8           Barne         23,191         20         22.2         10         5.8           Boyd         20,41         20         22.2         10         5.8           Bord         22,7657         17         10.7         0.4         0.3           Burd         252,052         40         41.8         7.4         8.5           Datf         20,0113         17         32.2         32         22.6           Catar         20,0131         17         32.3							
Counties         S24,160         38         23.3         6.3         6.8           Artelope         772,839         50         31.4         6.4         6.1           Artelope         393,38         11         31.5         4.3         7.3           Banner         100,966         8         23.2         2.7         15.8           Blaine         29,116         21         26.4         0.3         36.3           Borne         27,052         40         41.8         7.4         85.3           Buter         300,389         65         22.6         32         22.4           Cedar         20,039         8         23.0         6.2         5.0           Chare         210,259         9.6<		29.413.398	740	26.6	4.1	5.9	16.6
Antelope       772,839       50       31.4       6.4       6.1         Banner       39,338       11       13.5       4.3       7.3         Banner       674,763       29       23.8       11.9       11.1         Boone       674,763       29       23.8       11.9       34         Boone       674,763       29       23.8       11.9       36         Boone       27,7657       17       10.6       4       66         Brown       327,657       17       10.7       0.4       0.3         Buffalo       527,052       40       41.8       7.4       85         Buffalo       300,389       65       22.6       3.2       2.2         Chase       200,198       61       32.3       30       20         Chase       200,293       8       23.0       62       50         Chase       210,293       8       23.0       62       50         Colax       192,584       45       18.6       0.5       53         Colax       193,880       67       28.7       7.3       36       53         Colax       73,563       7		- , - ,	-				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		524,160	38	23.3	6.3	6.8	10.2
Banner         106,968         8         23.2         2.7         15.8           Blaine         34,191         9         18.7         1.9         11.1           Boone         674,763         29         23.8         11.8         3.4           Bord         239,118         20         22.9         0.9         5.8           Bord         81,405         11         16.4         7.4         6.6           Brown         327,657         17         10.7         0.4         0.3           Buft         300,389         65         22.6         3.2         2.2           Butt         300,389         65         22.6         3.2         2.4           Cass         200,113         19         36.2         9.2         20.5           Cass         610,198         61         32.3         8.0         2.9           Cherery         270,939         8         23.0         6.2         5.0           Clay         581,577         45         2.77         3.8         5.3           Clay         192,584         45         186         0.5         15.7           Clay         193,589         87 <t< td=""><td></td><td></td><td>50 11</td><td></td><td></td><td></td><td>18.9 1.9</td></t<>			50 11				18.9 1.9
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		106,968	8	23.2	2.7	15.8	4.6
Boyd         B1 405         11         16.4         7.4         6.6           Brown         327,657         17         10.7         0.4         0.3           Burf         300,399         65         22.6         3.2         2.2           Burt         634,530         57         25.2         8.3         12.4           Cass         200,113         19         36.2         9.2         20.5           Cedar         610,198         61         32.3         8.0         2.9           Chersy         270,939         8         23.0         6.2         5.0           Chery         270,939         8         23.0         6.2         5.0           Clax         192,584         45         18.6         0.5         15.7           Colfax         192,584         45         18.6         0.5         15.7           Colfax         143,408         50         14.5         1.6         0.9           Curing         1.583,912         118         13.8         5.5         3.7           Dakota         74,31408         50         7         12.7         7.6         32.1           Dawes         74,522							5.7 8.5
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $							16.2 2.5
Burt         300.389         65         22.6         3.2         2.2           Burter         634.530         57         25.2         8.3         12.4           Cass         200,113         19         36.2         9.2         20.5           Cedar         610,198         61         32.3         8.0         2.9           Chery         270,399         8         23.0         6.2         5.0           Cheryn         270,399         8         23.0         6.2         5.0           Cheyrnee         192,584         45         18.6         0.5         15.7           Colfax         431,408         50         14.5         1.6         0.9           Curster         993,880         87         28.7         2.1         1.2           Dakota         134,568         34         41.2         2.8         6.1           Dawes         78,212         21         45.7         7.6         32.1           Dawes         78,513         7         13.2         5.9         7.0           Dodge         30,922         35         15.5         11.5         2.9           Dodge         469,623         35 <td></td> <td>327,657</td> <td>17</td> <td>10.7</td> <td>0.4</td> <td>0.3</td> <td>10.0</td>		327,657	17	10.7	0.4	0.3	10.0
Butter       634 530       57       25.2       8.3       12.4         Cass       200,113       19       36.2       9.2       20.5         Cedar       610,198       61       32.3       8.0       2.9         Chery       270,939       8       23.0       6.2       5.0         Chery       270,939       8       23.0       6.2       5.0         Clay       210,254       45       18.6       0.5       15.7         Calax       132,584       45       18.6       0.5       15.7         Colfax       143,408       50       14.5       1.6       0.9         Curing       1383,912       118       13.8       5.5       3.7         Custer       93,880       87       28.7       2.1       1.2         Dawes       78,212       21       45.7       7.6       32.1         Dawes       134,568       34       41.2       2.8       6.1         Dawes       73,563       7       13.2       5.9       7.0         Dokon       340,922       35       15.5       11.5       11.1         Douglas       58,610       30							26.0
Cass         20,113         19         36.2         9.2         20.5           Cedar         610,198         61         32.3         8.0         2.9           Chase         270,939         8         23.0         6.2         5.0           Chery         270,939         8         23.0         6.2         5.0           Clay         270,939         8         23.0         6.2         5.0           Clay         581,577         45         27.7         3.8         5.3           Custar         431,408         50         14.5         1.6         0.9           Custar         134,568         34         41.2         2.8         6.1           Dawson         134,568         34         41.2         2.8         6.1           Dawson         1,062,297         7.2         21.7         3.0         2.2           Dawson         30,6022         35         15.5         11.5         2.9           Dodge         340,922         35         15.5         11.1         2.9           Dodge         58,610         30         39.5         0.8         2.2           Dodge         58,610         30.9							17.3 4.5
Chase       585,758       25       9.6       1.1       1.2         Chery       270,939       8       23.0       6.2       5.0         Clay       192,584       45       186       0.5       15.7         Colfax       431,408       50       14.5       1.6       0.9         Cuming       1,583,912       118       13.8       5.5       3.7         Custer       993,880       87       28.7       2.1       1.2         Dakota       134,568       34       41.2       2.8       6.1         Dawson       78,212       21       45.7       7.6       32.1         Dawson       1006,297       72       21.7       3.0       2.2         Dawson       304,922       35       15.5       11.5       2.9         Dodge       439,4023       35       35.7       1.5       11.1         Daugson       449,623       35       35.7       1.5       11.1         Douglas       58,610       30       39.5       0.8       2.2         Dundy       449,871       36       21.8       1.8       4.1         Fillmore       466,638       48							6.5 21.4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		585,758	25	9.6	1.1	1.2	7.2
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		192,584	45				11.9 2.5
Cuming       1,583,912       118       13.8       5.5       3.7         Custer       993,880       87       28.7       2.1       1.2         Dakota       134,568       34       41.2       2.8       6.1         Dawson       78,212       21       45.7       7.6       32.1         Dawson       1,006,297       72       21.7       3.0       2.2         Dixon       73,563       7       13.2       5.9       7.0         Dixon       340,922       35       15.5       11.5       2.9         Dodge       340,922       35       35.7       1.5       11.1         Douglas       58,610       30       39.5       0.8       2.2         Dundy       149,871       36       21.8       1.8       4.1         Fillmore       466,638       48       39.2       8.9       17.5         Franklin       139,222       15       34.2       9.6       19.4         Frontier       180,689       32       30.9       12.7       8.5         Garden       211,251       26       31.1       1.8       1.3         Garden       125,361							18.7 12.1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $							4.7
Dawes         76         21         45.7         7.6         32.1           Dawson         1,006,297         72         21.7         3.0         2.2           Deuel         73,563         7         13.2         5.9         7.0           Dixon         340,922         35         15.5         11.5         2.9           Douglas         459,623         35         35.7         1.5         11.1           Douglas         58,610         30         39.5         0.8         2.2           Dundy         466,638         48         39.2         8.9         17.5           Franklin         139,222         15         34.2         9.6         19.4           Frontier         180,689         32         30.9         12.7         8.5           Furmas         211,251         26         31.1         1.8         1.3           Garden         125,361         12         23.1         0.8         1.1           Garden         125,361         12         23.1         0.8         1.1           Garden         125,361         12         23.1         0.8         1.1           Gosper         163,437							25.4
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		78,212		45.7	7.6	32.1	32.3 6.0
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			72 7				16.5 0.4
Douğlas         56 610         30         39.5         0.8         2.2           Dundy         149,871         36         21.8         1.8         4.1           Fillmore         466,638         48         39.2         8.9         17.5           Franklin         139,222         15         34.2         9.6         19.4           Frontier         139,222         15         34.2         9.6         19.4           Forntier         180,689         32         30.9         12.7         8.5           Garge         388,365         14         32.8         9.5         20.8           Garden         125,361         12         23.1         0.8         1.1           Gosper         163,437         27         36.1         9.3         15.9           Grant         39,816         2         12.3         0.7         7.7           Greeley         201,206         10         11.3         1.2         0.2		340,922	35	15.5	11.5	2.9	1.2 23.0
Fillmore       466,638       48       39.2       8.9       17.5         Franklin       139,222       15       34.2       9.6       19.4         Frontier       180,689       32       30.9       12.7       8.5         Furnas       211,251       26       31.1       1.8       1.3         Gage       388,365       14       32.8       9.5       20.8         Garden       125,361       12       23.1       0.8       1.1         Gosper       163,437       27       36.1       9.3       15.9         Graneley       201,206       10       11.3       1.2       0.2		58,610	30	39.5	0.8	2.2	36.6
Frontier         180.689         32         30.9         12.7         8.5           Furnas         211.251         26         31.1         1.8         1.3           Garge         388,365         14         32.8         9.5         20.8           Garden         125,361         12         23.1         0.8         1.1           Garfield         116,130         16         15.4         8.1         1.0           Gosper         163,437         27         36.1         9.3         15.9           Grant         39,816         2         12.3         0.7         7.7           Greeley         201,206         10         11.3         1.2         0.2							15.9 12.8
Furnas         211,251         26         31.1         1.8         1.3           Gage         388,365         14         32.8         9.5         20.8           Garden         125,361         12         23.1         0.8         1.1           Gardiel         116,130         16         15.4         8.1         1.0           Gosper         183,437         27         36.1         9.3         15.9           Grant         39,816         2         12.3         0.7         7.7           Greeley         201,206         10         11.3         1.2         0.2		139,222			9.6	19.4	5.2
Gage         388,365         14         32.8         9.5         20.8           Garden         125,361         12         23.1         0.8         1.1           Garfield         116,130         16         15.4         8.1         1.0           Gosper         183,437         27         36.1         9.3         15.9           Grant         39,816         2         12.3         0.7         7.7           Greeley         201,206         10         11.3         1.2         0.2			32 26			8.5 1.3	9.7 28.1
Garfield         116,130         16         15.4         8.1         1.0           Gosper         163,437         27         36.1         9.3         15.9           Grant         39,816         2         12.3         0.7         7.7           Greeley         201,206         10         11.3         1.2         0.2		388,365	14	32.8	9.5	20.8	2.5
Grant         39,816         2         12.3         0.7         7.7           Greeley         201,206         10         11.3         1.2         0.2		116,130	16	15.4	8.1	1.0	21.2 6.3
Greeley 201,206 10 11.3 1.2 0.2			27 2				10.8 3.9
		201,206	10	11.3	1.2	0.2	10.0 26.5
							26.5
Harlan 187,091 15 25.9 15.9 4.4		187,091	15	25.9	15.9	4.4	5.6
Hayes         178,858         21         22.4         3.7         13.4           Hitchcock         57,014         11         18.3         3.3         11.1							5.3 3.8
Holt         648,430         86         41.8         11.2         12.4           Hooker         20,552         3         19.7         1.4         13.5		648,430	86	41.8	11.2	12.4	18.2 4.8
Howard		306,576	37	28.8	2.9	2.6	23.3
Jefferson         295,644         27         25.4         3.3         1.2           Johnson         85,275         21         26.3         13.6         10.7		295,644 85,275	27 21				20.9 1.9
Kearney         602,693         63         14.7         4.5         5.0							5.2
Keith         168,392         12         29.0         6.0         5.6           Keya Paha         76,378         17         25.3         5.7         12.1							17.4
Kimball		49,025	5	19.4	1.2	13.1	7.5 5.1
Knox         469,662         67         30.6         6.4         7.4           Lancaster         264,266         41         51.5         11.4         15.4		264,266	41	51.5		15.4	16.8 24.7
Lincoln		1,011,592				2.8	13.8

#### Table C. Summary of Coverage, Nonresponse, and Misclassification Adjustments by County: 2022 (continued)

[For meaning of abbreviations	and symbols,	see introductory text.]

Geographic area	Total (number)	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification
SALES (\$1,000) - Con.						
Counties - Con.						
Logan	33,477 32,725 44,372 432,780 283,749 398,244 116,879 168,882 210,804	(H) 9 12 41 41 23 10 24	2.5 37.7 40.8 26.7 22.4 14.5 28.8 46.6 36.2	1.5 6.1 4.4 5.0 1.2 8.9 12.7 4.6	0.6 10.4 26.3 17.6 11.3 1.0 3.3 29.5 10.0	0.4 21.3 10.0 2.2 6.0 12.3 16.7 4.4 21.6
Nuckolls Otoe	210,804 224,835	24 38	48.7	4.0 9.2	16.7	21.0
Pawnee	77,963 215,484 851,411 301,401 366,056 181,797 232,024 133,744 247,640	14 15 47 22 91 80 18 19 17 12	41.3 25.6 15.6 30.5 21.4 31.4 21.0 46.4 30.0 31.0	6.0 6.8 7.3 17.7 9.0 5.4 2.1 12.6 7.3 6.6	8.4 13.8 4.0 2.3 6.4 11.8 0.7 18.5 12.4 20.9	26.9 5.0 4.3 10.5 5.9 14.1 18.2 15.3 10.2 3.4
SarpySaundersSaundersSaundersSotts BluffSewardSheridanSherinanStantonStantonThayerThomas	43,270 514,932 367,378 386,829 165,113 134,601 167,879 223,483 336,648 33,960	10 16 22 13 10 6 39 31 6	28.1 29.4 23.7 30.0 20.1 43.5 19.3 28.0 35.8 42.6	2.4 5.5 1.9 1.5 9.7 0.6 1.1 8.4 7.7	5.0 2.9 12.4 13.9 12.0 21.0 8.8 0.7 18.5 5.6	20.7 21.0 6.2 14.1 6.6 12.7 9.8 26.2 8.9 29.4
Thurston Valley Washington Wayne Webster Wheeler York	190,222 200,934 182,733 315,808 409,211 358,865 505,721	38 31 40 48 59 17 33	25.3 22.5 36.4 36.7 24.5 5.2 32.4	4.0 9.7 4.8 12.9 14.6 2.2 5.7	19.9 7.2 29.6 8.4 2.2 0.6 5.1	1.4 5.5 2.0 15.5 7.7 2.4 21.6

#### Table D. American Indian or Alaska Native Producers: 2022

[For meaning of abbreviations and symbols, see introductory text.]

	American Indi	an or Alaska Native farr	n producers		American India	in or Alaska Native farn	n producers
Geographic area	Total	Individually reported <sup>1</sup>	Other <sup>2</sup>	Geographic area	Total	Individually reported <sup>1</sup>	Other <sup>2</sup>
State Total				Counties - Con.			
Nebraska	261	261	-	Howard	8	8	
Counties				Jefferson Kearney	2	2	
Antelono	1	1		Keith Keya Paha	3	3	
Antelope Banner	5	5		Kimball	13	13	
Box Butte	1	1		Knox	22	22	
Boyd	3	3		Lancaster	5		
Brown	1	1		Lincoln	1	3	
Buffalo	5	5	-	Logan	1	1	
Butler	2	5		Logan	'	'	
Cass	2	2	-	Madison	1	1	
Cedar	0	0	-	Madison Merrick	1	1	
	16	16	-	Nenee		1	
Cherry	10	10	-	Nance			
Chavanna	4	4		Nemaha			
Cheyenne	1		-	Nuckolls	1	1	
Clay	1	1	-	Otoe	10	10	
Colfax	1	1	-	Perkins	12	12	
Cuming	3	3	-	Phelps	2	2	
Custer	1	1	-	Pierce	.]	1	
Dakota	6	6	-	Richardson	11	11	
Dawson	7	7	-				
Deuel	2	2	-	Rock	2	2	
Dixon	1	1	-	Saline	5	5	
Dodge	1	1	-	Sarpy	3	3	
				Saunders	5	5	
Douglas	2	2	-	Scotts Bluff	1	1	
Dundy	2	2	-	Seward	5	5	
-illmore	2	2	-	Sheridan	21	21	
Frontier	2	2	-	Stanton	5	5	
Furnas	5	5	-	Thayer	2	2	
Sage	2	2	-	Thurston	8	8	
Garden	2	2	-		-		
Gosper	1	1	-	Washington	2	2	
Hall	1	1	-	Webster	9	9	
Hamilton	3	3	-	Wheeler	1	1	
	-	-		York	2	2	
Harlan	2	2	-		-	-	
Hitchcock	2	5					

<sup>1</sup> Data were collected for a maximum of four producers per farm. <sup>2</sup> Data represent American Indian or Alaska Native farm or ranch producers on reservations who did not report individually. Data obtained by reservation officials.