



2024 CEAP/ARMS 2 Workshop

Conservation Effects Assessment Project
Agricultural Resource Management Survey – Phase 2

September 17-19, 2024

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2024 CEAP/ARMS 2 Workshop

Conservation Effects Assessment Project
Agricultural Resource Management Survey – Phase 2

Welcome, Introductions,
and Workshop Overview



Introductions

- Order
 - NASDA
 - NPR Staff
- Please tell us:
 - Name
 - Town or Area of State
 - Years of Service

Workshop Overview

- Housekeeping Items
 - Please silence any electronic devices
 - Emergency/urgent calls – feel free to take, but leave room
 - Questions
 - Get presenter's attention when you have an opportunity
 - Unique to area – ask in supervisory group breakouts
 - Keep side conversations to a minimum so other participants can hear presenters & presenters can stay focused
 - See NASDA Coordinator for any hotel & meeting room issues

Workshop Overview

- Restroom locations
- Refreshments during breaks
- Project Code – 912 (CEAP) & 906 (ARMS 2)
 - Workshop time, mileage, and M&IE
 - Monday – Wednesday: 912
 - Thursday: 906
- Please have the workshop folder readily available
- Turn on iPad and connect to hotel Wi-Fi, if needed
- Presentations & resources are uploaded to NPR website



Workshop Overview

- Miscellaneous
 - Name Badge
 - Business Cards
 - Enumerator Ids
 - iPad
 - iOS Update 18.0 – Optional Update Is **Not** Approved


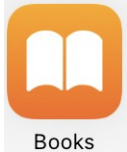
Workshop Overview

- Content Overview
 - Generally Speaking
 - Videos
 - Lectures
 - Activities (Kahoot)
 - Group Breakouts
- Goals
 - Highlight purpose of survey and uses of data
 - Highlight changes, updates, or problematic areas
 - Keep training interactive and engaging
 - Group practice to learn from each other

Workshop Overview

- Day 1 - CEAP
 - Section videos were not ready in time for home study
 - Watch a section video.
 - Present the highlights.
 - Will cover the whole questionnaire.
 - Kahoots and supervisor breakout time
- Day 2 – Finish CEAP, talk about ARMS 2
 - Morning: CEAP procedures, due dates, mailings.
 - Afternoon: ARMS 2. Present the highlights - No videos.
 - More Kahoot and supervisor breakout time
- Day 3 – Wrapping up
 - Administrative Items
 - Supplies & ARMS 2 Assignments.
 - Wrapping up in your group and as a whole

Resources on the NPR NASDA Website

- CAPI Dashboard: NASDA
- Go to “Regions”, then tap on “Northern Plains Region” area.
- Under “CEAP” or “ARMS 2” tap on the document you want to download to Books.
- Tap on the box with the arrow pointed up.  Located in the upper right corner.
- Tap on “Books” to take you directly into Books. 
- Once a document is downloaded to Books (icon on your home screen), it is saved on your iPad & can be accessed without a signal.

Posted to the NPR NASDA Website

- CEAP

- Phase 1 Screener
 - Screener questionnaire filled out during Phase 1
- Phase 2 Questionnaire
 - Questionnaire for Phase 2
- Interviewer's Manual
 - In-depth section and question details
- Respondent Booklet
 - Codes for completing the CEAP questionnaire and Fertilizer/Chemical identification information
- CEAP Brochure
 - Information on why CEAP is important
- CEAP Bookmarks
 - Helpful links to NRI/NRCS/NASS websites
- CEAP Evaluation
 - Please complete after this training

Posted to the NPR NASDA Website

- ARMS 2
 - Self Learning Videos
 - Self Learning Presentation
 - Wheat & Sorghum PPR
 - Respondent Booklets
 - Interviewer's Manual
 - Section videos for your reference
 - Slides presented in videos
 - Questionnaires
 - Codes for completing ARMS2
 - In-depth section and question details

Workshop Folder Contents

- Workshop Booklet
 - Agenda, Take Home Points, Group Breakout Checklist, Exercises, Important Dates, Notes
 - Order of the booklet follows the agenda.
- Questionnaires – PPR, Wheat and Sorghum
 - PPR – Production Practices Report
- Respondent Booklet
- Chem Use Highlights
- “Why Are We Here” handout
- Industry support letter (KS & NE only)
- Screening Supplement
- Consent form



Next on the agenda...

Management Comments

USDA NASS CEAP Phase 2 & ARMS 2 Workshop

Kearney, NE & Aberdeen, SD

September 17-19, 2024

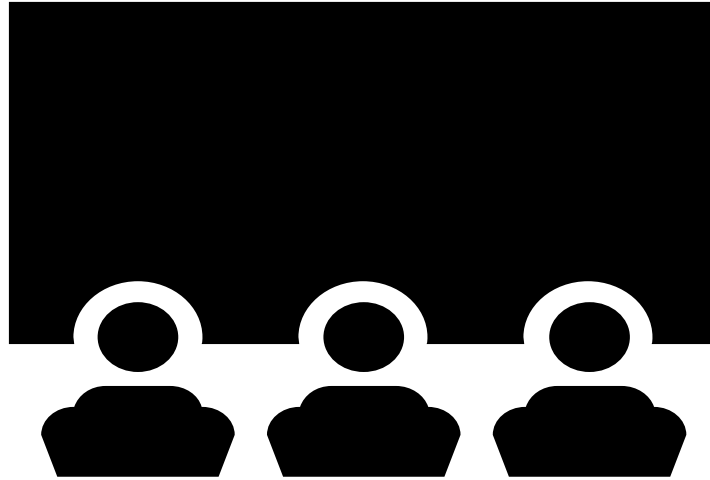


NRCS Purpose and Uses Video (KS/NE)

Brianna Henry, NRCS



Section A & B Video



Sections A and B: Field Characteristics & Conservation Plan



Refresher

- Identifying the selected field
 - Devoted to one crop or land use
 - Includes waterways and other areas not cropped
 - May include adjacent areas in a conservation practice
 - Let producer decide what is in/out
- Correct boundaries if necessary
 - Boundaries should include selected field and the conservation area



Section A:

Field Characteristics



Section A Overview

- Question 1a – planted crops (include cover crops, hay)
- Question 1b – CRP, CREP, other conservation programs/practices
- Question 1c – 1g(idle, greenhouse, pasture, continuous conservation cover, non ag)
- Question 2 – sum of acres above
 - Do not double-count



Overview

- 4 – Certified organic in last 3 years
- 5 – Tenure for last 3 years
 - Can be different each year



Section B:

Conservation Plan



Overview – Conservation Plan

- Only applies if they have a written plan
- Written plan – something “official” (in accordance with Federal, State, or Conservation District standards)
 - Would probably know if they had one
- 1a – plan should detail which practices are included
- 2 – money received
 - Cost share: one-time payment
 - Incentive payments: annually for duration of contract



Overview – Technical Assistance

- Technical assistance
 - Help with:
 - Development of plan
 - Implementation of plan
 - Maintaining the practice
- Consider FSA and SCS the same as NRCS for table under 3c
- Plan, payments, and assistance apply only to the selected field



Overview – Conservation Practices

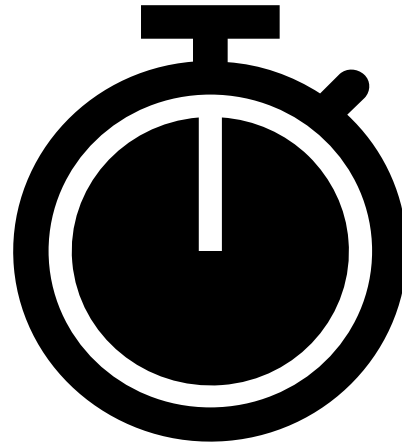
- Remember the skips
 - Example: cropped terraces should also have the question about terraces marked 'yes'
 - Take time to get familiar with the list – there are lots of them
- Wildlife habitat
 - Was practice specifically for wildlife?
- If no practices in Section B, code questions 5-7 as N/A



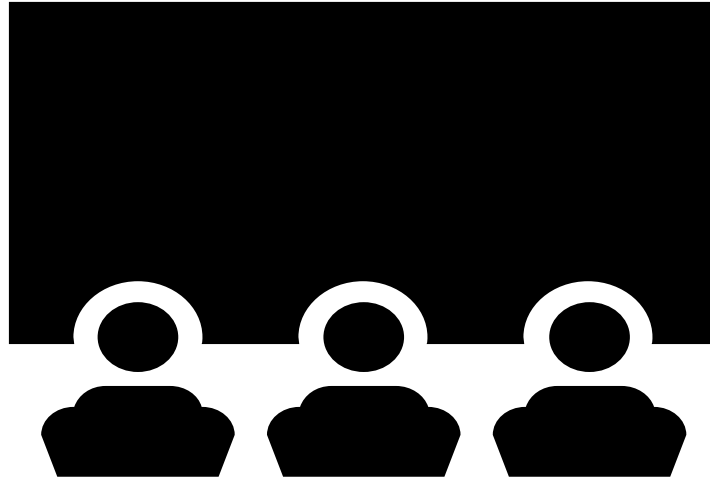
Questions?



BREAK



Section C Video



Section C: Cropping History



Section C: Training Objectives

- Understand what is meant by a “crop year”;
- Understand how to record a crop rotation plan;
- Understand cover crop management alternatives; and
- Define the conservation practices that are included on the NRI CEAP questionnaire.



1. Now I'd like to ask you about the field where the point is located and obtain the cropping and land use history for the past 3 years. (Please include all crops planted for cover crop, double crop, multiple crop, replanting of same crop and if strip cropped, all crops in the strip crop scheme. [Use a separate column for each use of the field in each year.]

		1	2	3
Let's begin with the 2024 crop year. What was/were the:		2024	2024	2024
Crop(s) planted or Land Use?	Crop			
a. Crop(s) code or Land Use Code. [See Respondent. Booklet pgs. 4 - 7 for codes.]	Code	1005	1037	1069
b. Intended use of Crop(s). [See Respondent Booklet pg. 7 for codes.]	Code	1006	1038	1070

SECTION C, ITEM 1, Line b

Intended Use
1 - Dual (Grain/Grazing)
2 - Grain
3 - Grazing Only
4 - Cover Crop
5 - Other (Specify) _____
6 - Hay
7 - Human Consumption or Use
8 - Silage/Haylage
9 - Seed Only
10 - Nurse Crop
11 - Biomass
12 - Non-Bearing, Idle Land or Summer Fallow
13 - Wildlife
14 - Cut for Dry Hay and Silage

This is a crucial element:

- Consistency with Field Operations, Fertilizers, Pesticides
 - Those sections may appear incomplete or inconsistent and
 - These Use codes can provide clues
- Consistency with Applied Nutrients and Chemicals
- Especially for cases of:
 - If crop abandoned, replanted, or use changes prior to or at harvest
 - Multiple crops per year (here and in other sections)
 - Different crops on parts of field at same time
- Report the crop in the year it was harvested or terminated
- Strip cropping: can add the acreage for strips planted to the same crop and report as a whole

c. Acres planted? [Include previous planted crops.]	Acres	1007 _____	1039 _____	1071 _____
d. Date planted, transplanted, or established? (MM DD YY)	Date	1008 ____	1040 ____	1072 ____
e. Row Width (for row crops)?	Inches	1011 _____	1043 _____	1075 _____
f. Was precision technology used to change seeding rate within the field?	Yes = 1 No = 3	0800	0801	0802
g. Was precision technology used to change crop variety within the field?	Yes = 1 No = 3	0803	0804	0805
h. Was a soil test performed on this field prior to planting (anytime from harvest of previous year's crop to planting of current year's crop) to determine crop nutrient or soil health needs?	Yes = 1 No = 3	0806	0807	0808
i. Did you apply soil carbon amendments (e.g., biochar, compost, compost teas, etc.) to improve soil health?	Yes = 1 No = 3	0809	0810	0811

Acres Planted: if all or part of the field is PREVENTED PLANTING, enter the number of acres and make a note those acres were prevented planting or idle.

Previous Planted Crops: if previously planted crop is now growing in field, include its acres and date of planting, e.g., winter wheat, forage crop, or other perennial.



j. Was this crop irrigated?	Yes = 1 No = 3	1029	1061	1093
k. EXPECTED yield/acre at planting (yield goal)?	Number	1012 .____	1044 .____	1076 .____
(1) Unit: [See Respondent Booklet pg. 7 for codes]	Code	1013	1045	1077
l. Acres harvested?	Acres	1015 .____	1047 .____	1079 .____
(1) Date harvested? (MM DD YY)	Date	1016 ____ _	1048 ____ _	1080 ____ _
m. ACTUAL yield at harvest/acre?	Number	1017 .____	1049 .____	1081 .____
(1) Unit: [See Respondent Booklet pg. 7 for codes.]	Code	1018	1050	1082
n. Acres Abandoned or NOT harvested?	Acres	1019 .____	1051 .____	1083 .____

- EXPECTED yield vs. ACTUAL yield: helps us understand the amount of nutrients applied. If the actual yield was low but the expected yield was high, this can help explain the higher nutrient application amount.
- Harvest units: correct units are CRUCIAL

SECTION C, ITEM 1, Line k1 & m1

Unit Codes for Yield
1 - Pounds
2 - Cwt (hundredweight)
3 - Tons
4 - Bushels
5 - Other (Specify) _____
6 - Barrels
13 - Quart
23 - 50-lb bag
24 - Peck


o. Was the grass vegetation, straw, or stubble harvested?	Yes = 1 No = 3	1020	1052	1084
p. Was the field grazed? [If Yes — Enter 1 and continue. If No — Enter 3, then Go to Item t.]	Yes = 1 No = 3	1023	1055	1087
q. What type of livestock grazed the field (primarily)? [See Respondent Booklet pg. 7 for codes.]	Code	1024	1056	1088
r. Regardless of ownership, how many head of _____ grazed this field BEFORE harvest or termination?	Head	1025	1057	1089
(1) How many TOTAL days was the field grazed BEFORE harvest or termination?	Days	1026	1058	1090
s. Regardless of ownership, how many head of _____ grazed this field AFTER harvest or termination?	Head	1027	1059	1091
(1) How many TOTAL days was the field grazed AFTER harvest or termination?	Days	1028	1060	1092
t. Was any forage intentionally left behind for wildlife use, cover, and/or shelter?	Yes = 1 No = 3	2610	2611	2612

SECTION C, ITEM 1, Line q

Livestock

- 1 - Cattle
- 2 - Sheep
- 3 - Goats
- 4 - Horses
- 6 - Bison
- 7 - Llamas
- 8 - Elk
- 9 - Chickens
- 10 - Deer
- 99 - Other (Specify) _____





**Repeat Section C - Crop
History and
Conservation Practices
for the 2023 and then
the 2022 Crop Years.**

Special Situations – Strip Cropping

- Specifically determine if the field arrangement is strip cropping.
- If field is not strip cropped, then record only the crop with the LARGEST acreage.
- If field is strip cropped,
 - Record all information for each crop, for example cropping history, operations, and application of fertilizer, manure, and pesticides.
 - If two or more strips are planted in the same crop, add up and record the total acreage in the strips for that crop. For example, a 50 acre field might have two 10 acre strips of corn alternated with two 15 acre strips of hay. Record 20 acres corn in one column, 30 acres hay in another column.
 - Check to see that Section B – Question 4(q) is marked “1” for strip cropping.
 - Include a note that the field is strip cropped.



Multiple Harvests of the Same Crop

- If the crop is harvested more than once (for example, hay and vegetables), record the date of the last harvest on Line I.(1).
- Do not record the date of “gleaning” operations as the final harvest date.
- If the primary crop is a grain, and straw or stubble is also harvested, the date of the grain harvest should be recorded in Section C.
- Record the total expected and actual yield for all harvests. (For example, if 3 cuttings of hay are expected and each cutting is expected to yield 1.5tons/acre, then the expected yield is 4.5 tons/acre)



Special Situations – Vegetables

- If no more than 3 vegetables in any year, fill out Section C same as other crops.
 - If none of the crops are sequential, then follow standard partial field rules, i.e., choose the crop with the most acreage.
- If more than 3 vegetables in 2024, then use Section C Supplement:
 - For 2023 and 2022, don't use the vegetable supplement. If there are more than 3 vegetable crops; list only the first 3 in sequence, and add a note explaining that later crops in the same year are skipped.
 - Use normal Section C for 2023 and 2022, if crops other than vegetables are planted.



Special Situations – Vegetables

- Section C Supplement” has columns for 9 crops. If more than 9 crops are grown in the selected field –
 - Record information for the nine most dominant vegetables, based on acreage.
 - Detailed comments should be made describing the operation.
 - Contact the survey administrators if you have a question.



Crop Rotation Plan

2. Do you have a planned crop rotation for this field?
- 1343 ₁ ☐ Yes — Continue ₃ ☐ No — Go to Item 3.

a. Let's record your crop rotation plan. Use the crop codes from the Respondent Booklet pgs. 4-7. Use multiple codes to capture strip cropping, double cropping, and cover crops in a planned rotation.

Enter the crop name and crop code for the crops in rotation [only use as many years as are in the rotation scheme.]	Crops	Crop Code	Crop Code	Crop Code
i. 1 st year of rotation		1344	1351	1358
ii. 2 nd year of rotation		1345	1352	1359
iii. 3 rd year of rotation		1346	1353	1360
iv. 4 th year of rotation		1347	1354	1361
v. 5 th year of rotation		1348	1355	1362
vi. 6 th year of rotation		1349	1356	1363



Cover Crop

3. Was a cover crop planted on this field for the 2024, 2023, or 2022 crop years?

1471 ☐ Yes — Continue ☐ No — Go to Item 4.

a. When was the cover crop planted?			2024	2023	2022
	MM DD YY		1472 _____	1483 _____	1571 _____
b. What type of cover crop was planted? (Enter code)	1 Wheat 2 Ryegrass 3 Rye 4 Other small grain /winter annual	5 Legume (clover, cowpeas, etc.). 6 Other 7 Mixed	1473	1491	1572
c. What was the primary intended benefit of the cover crop? (Enter code)	1 Soil fertility 2 Soil quality 3 Soil cover 4 Controlling weeds, insects, & diseases	5 Carbon sequestration 6 Other	0836	0837	0838
d. Did you apply commercial fertilizer for the benefit of the cover crop?	Yes = 1 No = 3		0839	0840	0841
e. Did you apply manure for the benefit of the cover crop?	Yes = 1 No = 3		0842	0843	0844
f. Did you apply pesticides for the benefit of the cover crop?	Yes = 1 No = 3		0845	0846	0847
g. Did you irrigate the cover crop?	Yes = 1 No = 3		0848	0849	0850
h. Was the cover crop grazed?	Yes = 1 No = 3		0851	0852	0853
i. When was the cover crop terminated?	MM DD YY		1481 _____	1492 _____	1573 _____
j. How was the cover crop terminated? (Enter code)	1 Herbicide 2 Mowed 3 Harvested for forage 4 Tilled in	5 Rolled/crimped 6 Harvested for grain 7 Burned (fire) 8 Winter kill	1482	1493	1581



Drainage

4. Is the field adjacent (within 100 feet up slope) to a water body, including a stream, intermittent stream, wetland, drainage ditch, or irrigation canal/ditch?	Yes = 1 No = 3	Code 1327
5. Are irrigation/drainage ditches lined or vegetated to maintain a stable channel?	Yes = 1 No = 3	Code 1364
6. Does this field have subsurface (tile) drainage? 1 <input type="checkbox"/> Yes — Continue 3 <input type="checkbox"/> No — Go to Item 7. 2 <input type="checkbox"/> Don't Know — Go to Item 7.		Code 1341
a. Are the drainage tiles organized in a pattern? [If Yes — Continue. If No — Go to Item 6c.]	Yes = 1 No = 3	Code 1781
b. What is the approximate subsurface (tile) drain spacing? 1 — less than 30 ft. 2 — 30-59 ft. 3 — 60-100 ft. 4 — Greater than 100 ft.		Code 1782
c. Are the surface inlet pipes connected to the subsurface (tile) drains in this field?	Yes = 1 No = 3	1783
d. What depth are the subsurface tile drains installed at?	Inches	0854
7. Does this field have surface drainage structures?	Yes = 1 No = 3	1342

Section C Reminders

- Yes & No
 - 1 = Yes
 - 3 = No
- Pay attention to skip instructions
- Fill in 2023, and 2022 as well if operator gives info for 2024 and then says “the same” for 2023 and 2022.
- Check that crop codes for each year carry through the rest of the questionnaire.
- Record small grains planted in the fall for harvesting in the following year in the correct year.
 - Wheat planted in 10/2022 harvested in 7/2023 is crop year 2023.





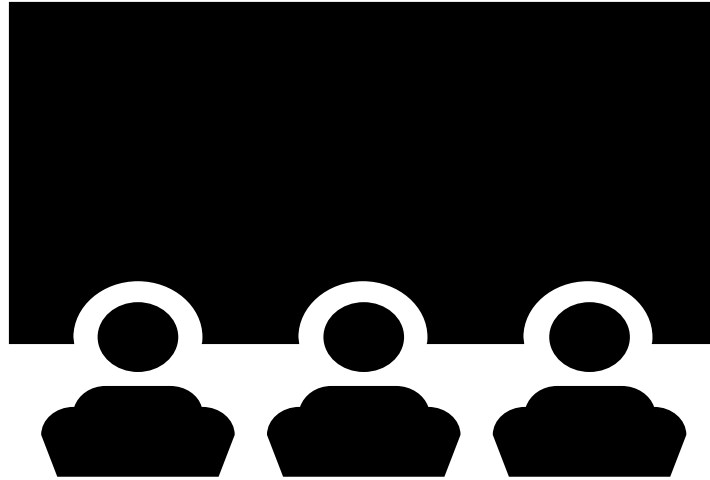
Common Mistakes

- Listing Cover Crops in the table but missing data for question 3
- Make sure to use the correct Corn (booklet page 4)
- Alfalfa, seed (102) only if alfalfa is being harvested for SEED
- Pasture that is being hayed needs to be Hay, Other

Questions?



Section D Video



Section D : Commercial Fertilizer Application



Section D – Commercial Fertilizers

PREVIEW

- Determine **whether commercial fertilizer products were applied** to this field to meet crop growth needs.
- Determine **the rate** fertilizer products were applied on the field.
- Determine **when** fertilizer products were applied on the field.
- Determine **the form** of products applied to the field.
- Determine **how** the fertilizer products were applied to the field.



Section D - Key Point

4 R's of Nutrient Management

- Information gathered in this section helps us to determine how nutrients are managed on the field.
- A **high level** of Nutrient Management follows the **4 R's**.
- The **Right Rate**.
- Applied at the **Right Time**.
- Using the **Right Form**.
- Applied in the **Right Way** (also applies to Manures).

What are Fertilizers?

- Any material **organic or inorganic, natural or synthetic**, which supplies one or more essential nutrients (N,P,K) for crop growth.

Why separate Fertilizers and Manures?

- Manures are bulkier and stored and applied differently.
- These differences affect N & P losses on the field.

Q1a-c: Were fertilizer applications used?

1. For **each of the last 3 years**, were commercial fertilizer products applied? (a, b, and c). **Exclude manures**, these are covered in the next section.

- **If none used in any year**, go to Question 2.



Q2 & 3: Specifically apply to Phosphorus

2. Is your **soil phosphorus level elevated** to a point where no additional phosphorus nutrients can be applied to this field for the **2024 crop year**?
3. Were phosphorus nutrients applied to this field as either fertilizer or **manure** prior to **2022** to supply phosphorus for subsequent years of the crop rotation?
 - a. If yes, when were they applied?



Q11a-c: Commercial Fertilizer Applications


- **In this section, you'll use:**
 - Operator's records
 - These can help jog the memory, speed up completion of the section. Includes Nutrient Management plans.
 - Respondent booklet pages 4, 8-9.
 - Survey Supplement
 - If more than 15 applications in a crop year.



Q11a-c: Commercial Fertilizer Format

- **Two sheets per crop year:**
 - Sheet 1 table columns 1-6
 - Target crop, product used, and rate.
 - Sheet 2 table columns 7-12
 - When applied, how applied, form, Nitrogen slow breakdown, and VRT use.

Using the Respondent Booklet

- Includes **list of common fertilizer products**, which will provide the **percent active ingredients** for input in the survey.
- **Key Critical Points for Data Entry:** 
 - When entering **actual pounds of nutrients** in sheet 1 column 4, **"19"** needs to be entered in column 6. Leave column 5 blank.
 - If you are entering only the **nutrient analysis** (e.g. 32-0-0) in column 4, the **total quantity of product applied** (per acre) needs to be **entered in column 5**, and the units applied in **column 6 (1, 3, 12, or 13)**.

Actual Pounds of N Applied

LINE	1 Crop Year	2 Primary crop for which nutrients were intended	3 Crop Code [Enter crop code from Respondent Booklet pg. 4.]	4 MATERIALS USED Enter actual pounds of plant nutrients applied per acre and indicate "19" in column 6 (leave column 5 blank). If only fertilizer analysis is known, enter percent analysis in this column, quantity applied per acre in column 5, and the material code in column 6. [Show Common Fertilizers in Respondent Booklet pgs. 8-9.]				5 What quantity was applied per acre? [Leave the column blank if pounds of actual nutrients were reported in column 4.]	6 Enter material code. 1 Pounds 3 Tons 12 Gallons 13 Quarts 19 Pounds of actual nutrients
				Nitrogen N	Phosphorus P ₂ O ₅	Potassium K ₂ O	Sulfur S		CODE
01	28 22	Corn, grain	188	31 150	32 0	33 0	34 0	36	37 19

N by Analysis Applied (Ammonium Nitrate)

LINE	1 Crop Year	2 Primary crop for which nutrients were intended	3 Crop Code [Enter crop code from Respondent Booklet pg. 4.]	4 MATERIALS USED Enter actual pounds of plant nutrients applied per acre and indicate "19" in column 6 (leave column 5 blank). If only fertilizer analysis is known, enter percent analysis in this column, quantity applied per acre in column 5, and the material code in column 6. [Show Common Fertilizers in Respondent Booklet pgs. 8-9.]				5 What quantity was applied per acre? [Leave the column blank if pounds of actual nutrients were reported in column 4.]	6 Enter material code. 1 Pounds 3 Tons 12 Gallons 13 Quarts 19 Pounds of actual nutrients CODE
				Nitrogen N	Phosphorus P ₂ O ₅	Potassium K ₂ O	Sulfur S		
<u>01</u>	<u>28</u> 22	Corn, grain	188	<u>31</u> 32	<u>32</u> 0	33 0	34 0	36 469	37 1

Example of Sheet 2 Filled In

L I N E	7	8	9	10	11	12	NOTES
	When was this applied? MM DD YY	How was this applied? [Enter code from box above.]	How many acres were treated in this application? Acres	Was variable rate technology (VRT) used? [Include "on-the-go" sensing.] Yes = 1 No = 3	Nitrogen slow-breakdown product [Enter code from box above.]	Fertilizer form [Enter code from box above.]	
01	³⁰ 05 01 22	³⁹ 2	⁴⁰ 100	²⁹ 3	²⁶ 1	²⁷ 1	Ammonium Nitrate applied

Another Key Point

- **Probe to see if any fertilizer applications were made in the fall of the previous year (2021 for crop year 2022).** This is common in winter wheat and needs to be recorded.

Winter Wheat example

LINE	1 Crop Year	2 Primary crop for which nutrients were intended	3 Crop Code [Enter crop code from Respondent Booklet pg. 4.]	4 MATERIALS USED Enter actual pounds of plant nutrients applied per acre and indicate "19" in column 6 (leave column 5 blank). If only fertilizer analysis is known, enter percent analysis in this column, quantity applied per acre in column 5, and the material code in column 6. [Show Common Fertilizers in Respondent Booklet pgs. 8-9.]				5 What quantity was applied per acre? [Leave the column blank if pounds of actual nutrients were reported in column 4.]	6 Enter material code. 1 Pounds 3 Tons 12 Gallons 13 Quarts 19 Pounds of actual nutrients CODE
				Nitrogen N	Phosphorus P ₂ O ₅	Potassium K ₂ O	Sulfur S		
01	²⁸ 22	Wheat, Winter	125	³¹ 75	³²	33	34	36	³⁷ 19

Winter Wheat example sheet 2

LINE	7	8	9	10	11	12	NOTES
	When was this applied? MM DD YY	How was this applied? [Enter code from box above.]	How many acres were treated in this application? Acres	Was variable rate technology (VRT) used? [Include "on-the-go" sensing.] Yes = 1 No = 3	Nitrogen slow-breakdown product [Enter code from box above.]	Fertilizer form [Enter code from box above.]	
01	30 10 01 21	39 2	40 100	29 3	26 1	27 1	Applied as NH4-NO3.



Common Mistakes

- Missing fertilizer data- remember this data is turned over to NRCS, who can not call your office
- Percent Analysis vs Actual Pounds
- Including micro-nutrients such as lime and gypsum

Section D Review & Section E Preview

REVIEW

- 4 R's – Rate, Timing, Form, Method
- Fertilizers v. Manures
- Q1-10 – Testing, Adv. Tech.
- Q11 – Details of the 4 R's in order to model the field in the APEX model.

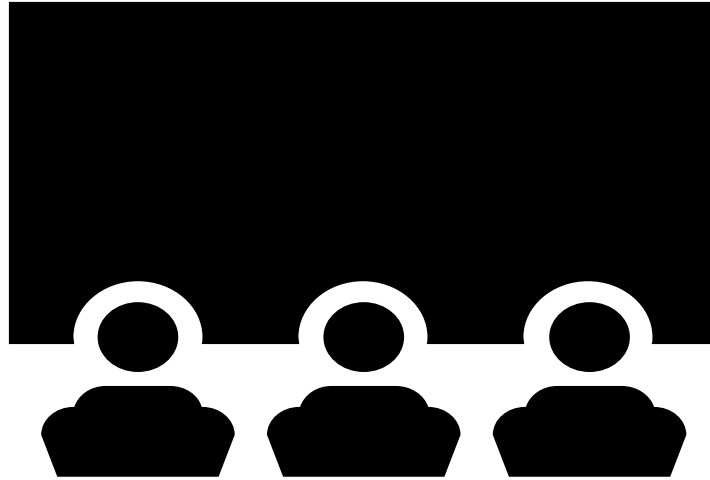
PREVIEW

- Similar format as Section D
- Gathering info on 4 R's for manure
- Some info. used for reporting (How many acres receive manure?).
- Some info. used for APEX modeling.

Questions?



Section E Video



Section E: Manure Applications



The 4 R's of Nutrient Management

- Determine **if manures were applied** to this field to meet crop growth needs.
 - Right rate
 - Right time
 - Right form
 - Applied in the right way



The Manure Tables

- All crop years reported in the manure tables

L I N E	1	2	3	4	5	6	7	8	9
	Crop Year	Primary crop for which nutrients were intended	Crop Code [Enter crop code from Respondent Booklet pgs. 4 - 7.]	What quantity of manure was applied per acre?	Unit (column 4 only) 1 Pounds 3 Tons 4 Bushels 12 Gallons 14 Acre - inches	Where was the manure produced? 1 On this operation 2 Purchased 3 Obtained at no cost off the operation 4 Obtained with compensation 5 Commercially prepared manure	How was the manure handled? 1 Solid 2 Liquid 3 Slurry	Was manure tested before application? 1 Yes 2 Don't Know (DK) 3 No	Nitrogen inhibitor applied with manure 1 Nitrification inhibitor 2 Urease inhibitor 3 None
	YY		Code		Code	Code	Code	Code	Code
01	42 24			44	45	46	47	48	59
02	42 23			44	45	46	47	48	59
03	42 22			44	45	46	47	48	59

Column 4 – Quantity Applied per Acre

- Partially dry and partially wet
 - Record on two lines
- Operator may not know the answer to the quantity applied
 - Type of livestock
 - Number of livestock
 - Total acreage outside of the field this manure was applied to
- Make sure to verify that this is the quantity applied per acre
 - $\text{Total Tons} \div \text{Acres} = \text{Rate per Acre}$



Column 7 – Manure Handling

- Consistencies include:
 - Solid – combination of waste & bedding
 - Liquid – added water
 - Slurry – thicker than liquid and cannot be stacked or handled like solid



Column 7 – (Continued)

- Different consistencies typically not mixed
- If the producer claims they are, ask:
 - Were there two applications?
 - If so, record these on two separate lines.
 - If not, record the form that makes up the majority and then make a note in the margin.



Columns 10 & 11 – Manure Analysis

- Column 8 should be marked a “1”
- Pay attention to your units and values
- Record to two decimal places
 - 25 lbs/T >>> 25.00
- Actual nutrients applied to the total acreage
 - Ex: 300 lbs of N, 150 lbs of P to a 10 acre field
 - $\text{Weight of nutrients} \div \text{Total Acres} = \text{Nutrients per acre}$
 - $300/10 = 30.00 \text{ lbs N}; 150/10 = 15.00 \text{ lbs P}$
- % by weight >>> small and less than one decimal place

CODES FOR UNIT COLUMN 11	
15	lbs/acre-inch
19	lbs of actual nutrients/acres
29	% by weight
31	lbs/ton
121	lbs/1000 gallons

LINE	10			11
	Results from manure analysis test OR actual amount of nutrients applied [Leave this column blank if column 8=2 or 3.]			Unit (column 10 only) [Enter code from box above.]
	Nitrogen N	Phosphorus P ₂ O ₅	Potassium K ₂ O	Code
01	49 30.00	50 15.00	51 __	52 19

Supplement Use

- Anything more than 10 entries will require a supplement

VERSION	CEAP ID	TRACT	SUBTRACT	TABLE
1	_____	01	01	___

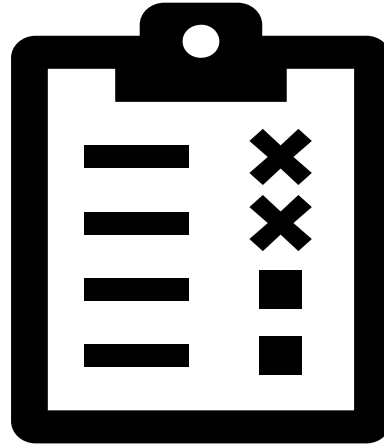
1st Supplement = Table 002
2nd Supplement = Table 003
3rd Supplement = Table 004
...etc.

Lines in Table	0599
----------------	------

Questions?



Kahoot Knowledge Check (Sections A-E)

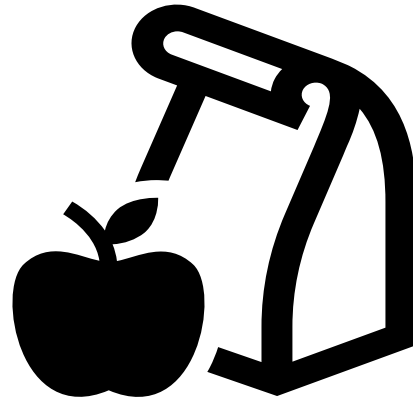


Question and Answer Session

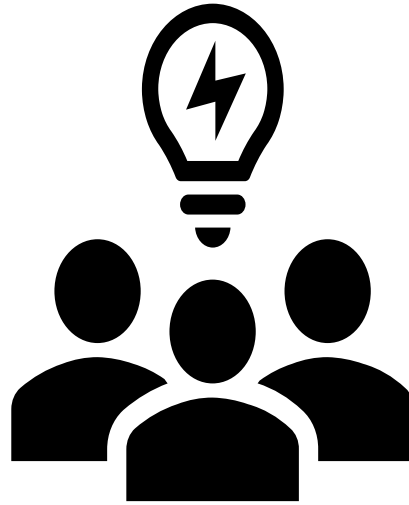


Lunch Break

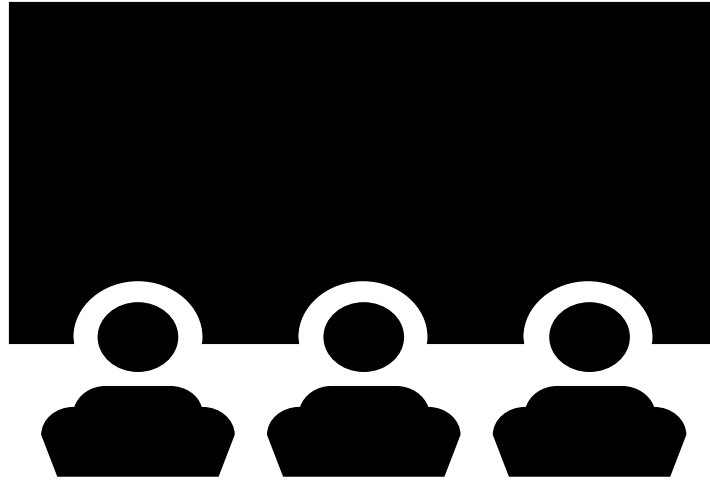
- Next agenda item when you return will be Supervisor Breakout Sessions



Supervisor Breakout Session



Section F & G Video



Section F-G: Pesticide Applications & Pest Management Practices



Section F: Pesticide Applications

The purpose of this section is to identify pesticides used to produce crops on the targeted field over the past 3 years



What is a Pest?

- **Q1** - Products applied to control weeds, insects, or diseases
 - Include herbicides, insecticides, fungicides, bio-control agents, seed treatments, and other conventional or organic products
- If none used, go to Section G

F		PEST CONTROL APPLICATIONS — SELECTED FIELD			F		
1. In which of the following years (2021, 2022, and/or 2023) were any products applied to this field to control weeds, insects, or diseases? [INCLUDE herbicides, insecticides, fungicides, bio-control agents, bio-pesticides, seed treatments, and other conventional or organic products.]		20XZ	20XY	20XX			
		0315	0345	0346			
Enumerator Action: If pesticides applied in any year, continue. Complete table for only year(s) specified, else Go to SECTION G.		Completion Code	0344	0343	0342		




Mechanisms of Action (MOAs)

- A **mechanism of action** describes HOW the chemical kills pest
- **Q4 – Rotation**: Two different MOAs applied separately during the season or in separate crop years
- **Q5 – Tank Mix**: Two different MOAs applied simultaneously
- Answer for this crop year and the past two crop years

4. Were pesticides with different mechanisms of action ROTATED for the PRIMARY PURPOSE of keeping pests from becoming resistant to pesticides?	Yes = 1 No = 3	0875
5. Were pesticides with different mechanisms of action TANK MIXED for the PRIMARY PURPOSE of keeping pests from becoming resistant to pesticides?	Yes = 1 No = 3	0876

Pest Control Application Factors

9. Other than cost and product effectiveness, which of the following factors did you consider in determining which pest control product to use in 2024?

Source	Code
a. Potential health risk to applicator or farm worker? Yes = 1 No = 3	0352
b. Risk to populations of beneficial organisms (earthworms, bees, ladybugs, etc)? Yes = 1 No = 3	0353
c. Risk to natural resources (drinking water, wildlife, fish, etc.)? Yes = 1 No = 3	0354
d. Pest resistance management? Yes = 1 No = 3	0355
e. Crop safety? Yes = 1 No = 3	0356
f. Impacts on soil health? Yes = 1 No = 3	0879
g. None?  Only answer "None" if all above are "No" Yes = 1 No = 3	0880

Pesticide Application Table

- Item 10a/b/c: Details on three years of applications
- Include pesticides in tank mixes with Sec. D fertilizer
- Crop Years pre-printed; hand-write on supplements
- Show the operator the respondent booklet for:
 - Crop Codes – Column 3
 - Product Codes – Column 4

PRODUCT NAME	LINE	1 Crop Year	2 Primary crop for which control agent was intended.	3 Crop Code [Enter crop code from Respondent Booklet pgs. 4 - 7.]	4 What products were applied to this field? [Enter product code from Respondent Booklet pgs. 10 - 36.]	5 Was this product bought in liquid or dry form? [Enter L or D.]	6 Was this part of a tank mix? [If tank mix, enter line number of first product in mix.]

Missing Product Codes

- Product(s) not listed in the respondent booklet?
 - Use the lines at the bottom of page 24, 26, and 28

Line	Pest Control Product Type (Herbicide, Insecticide, Fungicide, etc.)	EPA No. or Tradename and Formulation	Form Purchased (Liquid or Dry)	Where Purchased [Ask only if EPA No. cannot be reported.]
6	Insecticide	Danitol 2.4 EC, EPA # 59639-35	Liquid	
16	Fungicide	Regulator II	Liquid	Midland Chem





Tank Mixes

PRODUCT NAME	LINE	1 Crop Year	2 Primary crop for which control agent was intended.	3 Crop Code [Enter crop code from Respondent Booklet pgs. 4 - 7.]	4 What products were applied to this field? [Enter product code from Respondent Booklet pgs. 10 - 36.]	5 Was this product bought in liquid or dry form? [Enter L or D.]	6 Was this part of a tank mix? [If tank mix, enter line number of first product in mix.]
Powerflex	01	60 Y	Wheat	125	61 40071	D	63 _____
Atrazine 4L	02	60 Y	Corn	188	61 40136	L	63 2
Express	03	60 Y	Corn	188	61 40310	D	63 2

LINE	7 When was this applied? MM DD YY	8 How much was applied per acre per application?	9 What was the total amount applied per application in this field?	10 [Enter unit code] (col. 8 or 9 only) 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams 40 Kilograms 41 Liters Code	11 How was this product applied? [Enter code from box above.] Code	12 Was this product applied to the entire field, to only a portion of the field, or as a spot treatment? 1 Entire field 2 Part of field 3 Spot Treatment 4 Entire field plus borders and buffers Code	13 How many acres in this field were treated with this product? Acres
	MM DD YY						
01	83 0 9 2 2 Y Y	65 2 0 0	73 _____	74 28	76 6	84 1	77 1500 .
02	83 0 5 1 1 Y Y	65 _____	73 1 0 0	74 14	76 8	84 1	77 0 1500 .
03	83 0 5 1 1 Y Y	65 0 1 3	73 _____	74 15	76 8	84 1	77 0 1500 .

0



Application Rates

- **Column 8: Per Acre**
- **Column 9: Per Application**
 - Use for spot treatments or when rates per acre vary
- Record the amount of concentrated product, not spray volume
- Add two zeroes after the decimal point when using whole numbers

8	OR	9	10
How much was applied per acre per application?		What was the total amount applied per application in this field?	[Enter unit code] (col. 8 or 9 only) 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams 40 Kilograms 41 Liters Code
65 2 0 0		73 _____	74 28
65 _____		73 1 0 0	74 14

Section G: Pest Management Practices

The purpose of this section is to collect information on the use of IPM (Integrated Pest Management) techniques to control pests in the selected field in the current reference year



Scouting

- Q1: Scouting Methods
 - Making general observations while performing routine tasks
 - Deliberately going out to the field specifically for scouting activities
 - The field was not scouted for pests
- Q3: Why was scouting done in the field?
 - Pre-determined schedule or calendar
 - Pest development model based on degree days, maximum or minimum temperature, or wetness
 - Pest advisory warning

Q5: What Was the Field Scouted For

1	2	3	4
	<p>Yes = 1 No = 3</p> <p>Code</p>	<p>If Column 2 = Yes, Ask—</p> <p>Who did the majority of the scouting for Column 1 —</p> <p>1 Operator, partner or family member 2 An employee 3 Farm supply or chemical dealer 4 Independent crop consultant or commercial scout</p> <p>Code</p>	<p>If Column 2 = Yes, Ask—</p> <p>Based on the scouting report and compared to published threshold level, rate the pest pressure as —</p> <p>1 Low 2 Medium 3 High</p> <p>Code</p>
a. weeds?	1705	1709	1774
b. insects or mites?	1706	1710	1775
c. diseases?	1707	1711	1776
d. other (specify) 0881	1708	1712	1777

Pest Management Practices

10. Did you conduct any of the following activities for the crops grown in 2024 SPECIFICALLY for the purpose of managing pests or reducing the spread of pests —

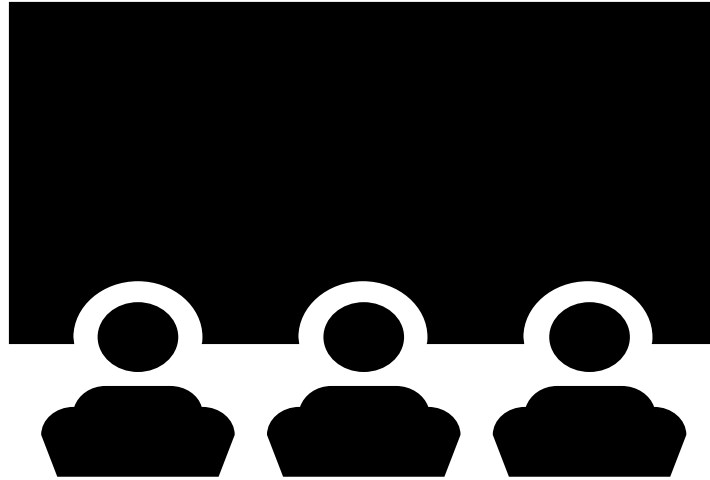
		Code
a. remove, plow down, or burn any crop or crop residue?	Yes = 1 No = 3	1717
b. alter crop rotation?	Yes = 1 No = 3	1718
c. maintain ground covers, mulches, or other physical barriers?	Yes = 1 No = 3	1719
d. use no-till or reduced till?	Yes = 1 No = 3	1720
e. adjust spacing or plant density?	Yes = 1 No = 3	1721
f. chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fence lines?	Yes = 1 No = 3	1723
g. clean equipment and field implements after completing field work?	Yes = 1 No = 3	1725
h. cultivate for weed control during the growing season?	Yes = 1 No = 3	1727
i. choose not to plant a crop in certain areas of the field to avoid a specific pest?	Yes = 1 No = 3	1779
j. adjust planting or harvesting dates?	Yes = 1 No = 3	1730



Questions?



Section H Video



Section H: Irrigation



Section H Preview

- Understand the basic types of irrigation systems used on crop fields
- Understand the difference between “gravity” and “pressure” system
- A simple example will be presented
- Regardless, when in doubt, write NOTES

Irrigated Land by State (2022 Census of Agriculture)

- Kansas: 2.34 million acres (6th largest state)
- Nebraska: 7.97 million acres (2nd largest state)
- North Dakota: 248 thousand acres
- South Dakota: 411 thousand acres



Irrigation Efficiency & Environmental Impacts

Evaporation losses

- From transport structures within field (ditches, lined or not)
- From application method
 - Small drop or mist from high pressure sprinkler
 - Surface evaporation from flooding/ponding or furrow irrigation

Percolation losses

- Required to fully fill soil profile across length of field
- Some occurs before soil is full across the field
- Transports nutrients and chemicals down through soil profile

Runoff losses

- Unavoidable with most gravity type systems
- Erode soil, nutrients, and chemicals

Gravity vs. Pressure Systems



Gravity irrigation systems use gravity to distribute water in the field.



Pressure systems use pressure to distribute water in the field.

Irrigation System Type Codes

Section H, Item 1a

IRRIGATION SYSTEM TYPE CODES

Pressure Systems		Gravity Systems	
1	Hand-move	10	Siphon-Tube System from unlined ditches
2	Solid or Permanent Set	11	Siphon-Tube System from lined ditches
3	Side Roll or Wheel Line	12	Portal System from unlined ditches
4	Center Pivot or Linear Move with impact sprinklers	13	Portal System from lined ditches
5	Center Pivot or Linear Move low pressure spray nozzles below the tower and suspended above ground level	14	Any Poly-Pipe System
6	Center Pivot or Linear Move with spray or bubbler nozzles discharging on or near the ground	15	Gated-Pipe (not poly-pipe)
7	Big Gun	16	Improved Gated Pipe (surge flow or cablegation, not poly-pipe)
8	Low-Flow Irrigation (drip, trickle, or micro spray)	17	Sub irrigation
9	Other (Specify: _____)	18	Open discharge from well, pump, border large scale turned structures or large alfalfa valves
		19	Other (Specify: _____)

Irrigation system type codes found in the Respondent Booklet on page 38 to complete Section H Question 1

Common Pressure Systems



Center Pivot with low pressure nozzles



Big Gun



Center Pivot with Impact Sprinklers

Common Gravity Systems



Poly Pipe



Improved Gated Pipe



Gated Pipe

Type of Irrigation System Used

Eumerator Action: Confirm if Irrigation was utilized on the selected field, Section C. Cropping History and Conservation Practices, Item j = Yes on pages 7,8,9. If no Irrigation was reported for any crop years in SECTION C, Go to SECTION I.

1. Now, I have some questions about the irrigation of this field for the [years of irrigation] crops(s).
- a. What type of irrigation system(s) were used to irrigate this field?
[Show System Type Codes in RESPONDENT BOOKLET pg. 38. If more than 1 system was used, enter System Type Code for the system most-used during the irrigation season as the Primary System and the next most-used system during the season as the Secondary System. If only 1 type of system was used, report under the Primary System and then skip to 1b.]

	2024 SYSTEM TYPE	2023 SYSTEM TYPE	2022 SYSTEM TYPE
i. Primary Irrigation System Code	1505	1506	1507
ii. Secondary Irrigation System Code	1511	1513	1515
b. Were any major changes made to the way the field was irrigated during the period from 2022 to 2024 (INCLUDE irrigation system type, source of water, and major changes to scheduling or monitoring)?	Yes = 1 No = 3		1593

Eumerator Action: If an irrigation system reported in 1a for any year is a gravity system (code 10 - 19) then continue; else , Go to Item 4.



If the Irrigation System was a Gravity System

2. What gravity irrigation system source was used?

- 1

2

3

4

5
- furrow

border

basin

contour levee

meadow or wild flood

	2024	2023	2022
Primary System Code	1508	1509	1510
Secondary System Code	1517	1518	1519



Furrow



Border



Basin

If the Irrigation System was a Gravity System

2. What gravity irrigation system source was used?

- 1

furrow
- 2

border
- 3

basin
- 4

contour levee
- 5

meadow or wild flood

	2024	2023	2022
Primary System Code	1508	1509	1510
Secondary System Code	1517	1518	1519



Contour Levee



Wild Flood

7. If there is a limit on water availability or supply for this field, what is the maximum annual application amount? [If no maximum annual application amount, enter 99.]

Inches

Amount / Acre

1541

8. Has the irrigation water supply been tested for either nitrogen content or salinity? [If Yes — Continue. If No — Go to Question 9.]

Yes = 1
No = 3

Code

1542

Please provide the following information for the last test performed on this field:

Salinity	Unit	Nitrate-Nitrogen (NO ₃ - N)	Unit
Test Value	1 ppm 2 mg/L 3 microseimens/cm	Test Value	1 ppm 2 mg/L
1543	1544	1547	1548
1545	1546	1549	1550

- a. Surface water
- b. Ground water

Completion Codes

Completion Code for Irrigation			
1 = Inaccessible/Refusal 3 = Valid Zero	2024	2023	2022
	1504	1503	1502

Brief Example

Enumerator Action: Confirm if Irrigation was utilized on the selected field, Section C. Cropping History and Conservation Practices, Item j = Yes on pages 7,8,9. If no Irrigation was reported for any crop years in SECTION C, Go to SECTION I.

1. Now, I have some questions about the irrigation of this field for the [years of irrigation] crops(s).
- a. What type of irrigation system(s) were used to irrigate this field?
[Show System Type Codes in RESPONDENT BOOKLET pg. 38. If more than 1 system was used, enter System Type Code for the system most-used during the irrigation season as the Primary System and the next most-used system during the season as the Secondary System. If only 1 type of system was used, report under the Primary System and then skip to 1b.]

	2024 SYSTEM TYPE	2023 SYSTEM TYPE	2022 SYSTEM TYPE
i. Primary Irrigation System Code	1505 4	1506 4	1507 4
ii. Secondary Irrigation System Code	1511	1513	1515
b. Were any major changes made to the way the field was irrigated during the period from 2022 to 2024 (INCLUDE irrigation system type, source of water, and major changes to scheduling or monitoring)?	Yes = 1 No = 3		1593 3

Enumerator Action: If an irrigation system reported in 1a for any year is a gravity system (code 10 - 19) then continue; else , Go to Item 4.



Brief Example

4. In 2024, 2023, and 2022 which of these water management approaches best describes the irrigation water management of the selected field?

- 1

Permanent flooding
- 2

Pinpoint flooding
- 3

Delayed flooding
- 4

None of the above

Code	0891	0892	0893
	4	4	4

5. Irrigation runoff from the field is primarily?
[See Respondent Booklet pg. 38 for codes.]

Code	2024 1536	2023 1537	2022 1538
	5	5	5

6. If the amount of water applied is known, what was the total amount of water applied?

Inches per Acre	2024 3407	2023 3408	2022 3409
	7	9	6



		Amount / Acre
		1541
7. If there is a limit on water availability or supply for this field, what is the maximum annual application amount? [If no maximum annual application amount, enter 99.]	Inches	15
		Code
		1542
8. Has the irrigation water supply been tested for either nitrogen content or salinity? [If Yes — Continue. If No — Go to Question 9.]	Yes = 1 No = 3	3
		Code
		1551
9. Did you take steps to evaluate or improve the uniformity of water application of your pressure system?	Yes = 1 No = 3	3
		Code
		1552
a. Well	Yes = 1 No = 3	1
		1553
b. Irrigation district	Yes = 1 No = 3	3
		1554
c. River or stream	Yes = 1 No = 3	3
		1555
d. Other Specify: 0894	Yes = 1 No = 3	3
[If Item 10b = 1, Continue, Else — Go to Item 12.]		



Don't Forget!

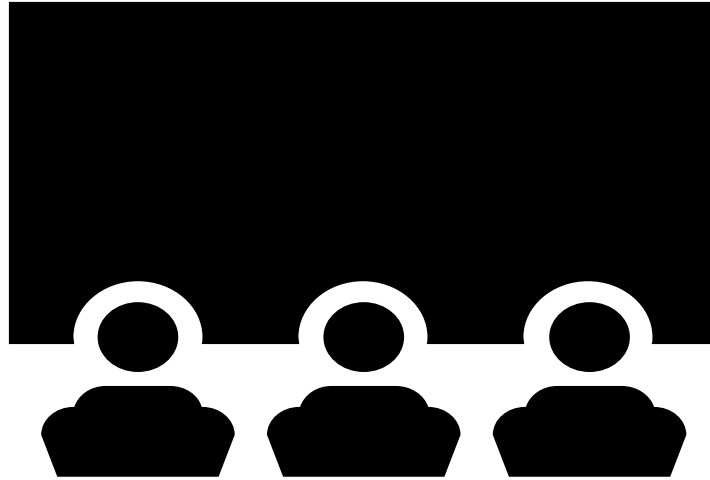
- Fill out item code boxes where needed
(YES = 1, NO = 3)
- Probe for additional information to clarify, if needed
- **Leave notes**



Questions?



Section I Video



Section I: Field Operations



Section I Field Operations

- Record operations in order of occurrence
- Record operations related to:
 - Hand work
 - Machine work
 - Livestock grazing
- Do not record operations related to:
 - Fertilizer applications
 - Manure applications
 - Pesticide applications
- Exception to the above rule are some applications with incorporation



Section I Field Operations

- Planted in fall and harvested in spring?
 - Record the crop year as the year harvested
- Operations after harvest will have the crop code of next year's crop



What happened?

- Corn planted 4/10/23
- Corn cultivated: 5/15/23
- Corn harvested: 9/15/23
- Stubble disked under: 11/1/23
- Field cultivator: 5/30/24
- Soybeans planted: 6/1/24
- Soybeans harvested: 10/15/24



2023 table

LINE	1 Crop Year	2 Sequence Number	3 What crop was associated with this operation?	4 Crop Code [Record from Respondent Booklet pgs. 4 -7.]	5 What operation or equipment was used on this field?	6 Machine Code [Record from Respondent Booklet pgs. 39 - 41.]	7 Was this operation used to incorporate a fertilizer or manure application? Yes = 1 No = 3	8 What was the timing of the field operation?	9 What was the depth of tillage for tillage/planting operations?
	Year	Number	Crop Name	Code		Code	Code	MM DD YY	Inches
01	⁸⁶ 23	⁸⁷ 1	Corn	188	planter	⁸⁸ 114	⁹⁹ 3	⁹⁶ 0 4 1 0 2 3	⁹⁷ 2 0
02	⁸⁶ 23	⁸⁷ 2	Corn	188	cultivator	⁸⁸ 24	⁹⁹ 3	⁹⁶ 0 5 1 5 2 3	⁹⁷ 1 5
03	⁸⁶ 23	⁸⁷ 3	Corn	188	combine	⁸⁸ 123	⁹⁹ 3	⁹⁶ 0 9 1 5 2 3	⁹⁷ .

2024 table

LINE	1 Crop Year	2 Sequence Number	3 What crop was associated with this operation?	4 Crop Code [Record from Respondent Booklet pgs. 4 - 7.]	5 What operation or equipment was used on this field?	6 Machine Code [Record from Respondent Booklet pgs. 39 - 41.]	7 Was this operation used to incorporate a fertilizer or manure application? Yes = 1 No = 3 Code	8 What was the timing of the field operation? MM DD YY	9 What was the depth of tillage for tillage/planting operations? Inches
01	⁸⁶ 24	⁸⁷ 1	Soybeans	188	tandem disk	⁸⁸ 15	⁹⁹ 3	⁹⁶ 1 1 0 1 2 3	⁹⁷ 3 0
02	⁸⁶ 24	⁸⁷ 2	Soybeans	188	field cult	⁸⁸ 21	⁹⁹ 3	⁹⁶ 0 5 3 0 2 4	⁹⁷ 3 5
03	⁸⁶ 24	⁸⁷ 3	Soybeans	188	planter	⁸⁸ 114	⁹⁹ 3	⁹⁶ 0 6 0 1 2 4	⁹⁷ 1 5
04	⁸⁶ 24	⁸⁷ 4	Soybeans	188	combine	⁸⁸ 123	⁹⁹ 3	⁹⁶ 1 0 1 5 2 4	⁹⁷ .

Tandem Operations

This occurs when machinery is hooked up together, “share” a sequence number

LINE	1 Crop Year	2 Sequence Number	3 What crop was associated with this operation?	4 Crop Code [Record from Respondent Booklet pgs. 4 - 7.]	5 What operation or equipment was used on this field?	6 Machine Code [Record from Respondent Booklet pgs. 39 - 41.]	7 Was this operation used to incorporate a fertilizer or manure application? Yes = 1 No = 3 Code	8 What was the timing of the field operation? MM DD YY	9 What was the depth of tillage for tillage/planting operations? Inches
01	⁸⁶ 24	⁸⁷ 1	Soybeans	188	tandem disk	⁸⁸ 15	⁹⁹ 3	⁹⁶ 1 1 0 1 2 3	⁹⁷ 3 0
02	⁸⁶ 24	⁸⁷ 2	Soybeans	188	field cult	⁸⁸ 21	⁹⁹ 3	⁹⁶ 0 5 3 0 2 4	⁹⁷ 3 5
03	⁸⁶ 24	⁸⁷ 2	Soybeans	188	harrow	⁸⁸ 33	⁹⁹ 3	⁹⁶ 0 5 3 0 2 4	⁹⁷ 6 0
04	⁸⁶ 24	⁸⁷ 3	Soybeans	188	planter	⁸⁸ 114	⁹⁹ 3	⁹⁶ 0 6 0 1 2 4	⁹⁷ 1 5
05	⁸⁶ 24	⁸⁷ 4	Soybeans	188	combine	⁸⁸ 123	⁹⁹ 3	⁹⁶ 1 0 1 5 2 4	⁹⁷ —

Crop Failure

1 Crop Year	2 Sequence Number	3 Crop Name	4 What crop was associated with this operation?	5 What operation or equipment was used on this field?	6 Machine Code <i>[Record machine code from Responden t Booklet.]</i>	7 What was the timing of the field operation?	8 What was the depth of tillage for tillage/ planting operation s?
YEAR	Number		CODE		CODE	MMDDYY	INCHES
2023	1	cotton	108	chisel plow	1	022123	5
2023	2	cotton	108	field cultivator	21	032923	1
2023	2	cotton	108	flex-tine tooth harrow	33	032923	0.5
2023	3	cotton	108	conventional planter	114	040123	1
2023	4	soybean	120	light disk	11	070123	3
2023	4	soybean	120	planter	114	070123	1.5
2023	5	soybean	120	harvester	123	101123	-



Cover Crops

LINE	1 Crop Year	2 Sequence Number	3 What crop was associated with this operation?	4 Crop Code [Record from Respondent Booklet pgs. 4 - 7.]	5 What operation or equipment was used on this field?	6 Machine Code [Record from Respondent Booklet pgs. 39 - 41.]	7 Was this operation used to incorporate a fertilizer or manure application? Yes = 1 No = 3	8 What was the timing of the field operation?	9 What was the depth of tillage for tillage/planting operations?
	Year	Number	Crop Name	Code		Code	Code	MM DD YY	Inches
01	⁸⁶ 24	⁸⁷ 1	Wheat	125	drill	⁸⁸ 104	⁹⁹ 3	⁹⁶ 1 0 1 5 2 3	⁹⁷ 2.0
02	⁸⁶ 24	⁸⁷ 2	Wheat	125	till	⁸⁸ 61	⁹⁹ 3	⁹⁶ 0 3 0 1 2 4	⁹⁷ 2.0

Multiple Harvests

LINE	1 Crop Year	2 Sequence Number	3 What crop was associated with this operation?	4 Crop Code [Record from Respondent Booklet pgs. 4 - 7.]	5 What operation or equipment was used on this field?	6 Machine Code [Record from Respondent Booklet pgs. 39 - 41.]	7 Was this operation used to incorporate a fertilizer or manure application? Yes = 1 No = 3 Code	8 What was the timing of the field operation? MM DD YY	9 What was the depth of tillage for tillage/planting operations? Inches
01	⁸⁶ 24	⁸⁷ 1	hay	119	mow	⁸⁸ 152	⁹⁹ 3	⁹⁶ 0 4 2 9 2 4	⁹⁷ ____
02	⁸⁶ 24	⁸⁷ 2	hay	119	rake	⁸⁸ 157	⁹⁹ 3	⁹⁶ 0 4 3 0 2 4	⁹⁷ ____
03	⁸⁶ 24	⁸⁷ 3	hay	119	bale	⁸⁸ 147	⁹⁹ 3	⁹⁶ 0 4 3 0 2 4	⁹⁷ ____
04	⁸⁶ 24	⁸⁷ 4	hay	119	haul	⁸⁸ 195	⁹⁹ 3	⁹⁶ 0 5 0 1 2 4	⁹⁷ ____
05	⁸⁶ 24	⁸⁷ 5	hay	119	mow	⁸⁸ 152	⁹⁹ 3	⁹⁶ 0 5 2 9 2 4	⁹⁷ ____
06	⁸⁶ 24	⁸⁷ 6	hay	119	rake	⁸⁸ 157	⁹⁹ 3	⁹⁶ 0 5 3 0 2 4	⁹⁷ ____
07	⁸⁶ 24	⁸⁷ 7	hay	119	bale	⁸⁸ 147	⁹⁹ 3	⁹⁶ 0 6 0 1 2 4	⁹⁷ ____
08	⁸⁶ 24	⁸⁷ 8	hay	119	haul	⁸⁸ 195	⁹⁹ 3	⁹⁶ 0 6 0 1 2 4	⁹⁷ ____

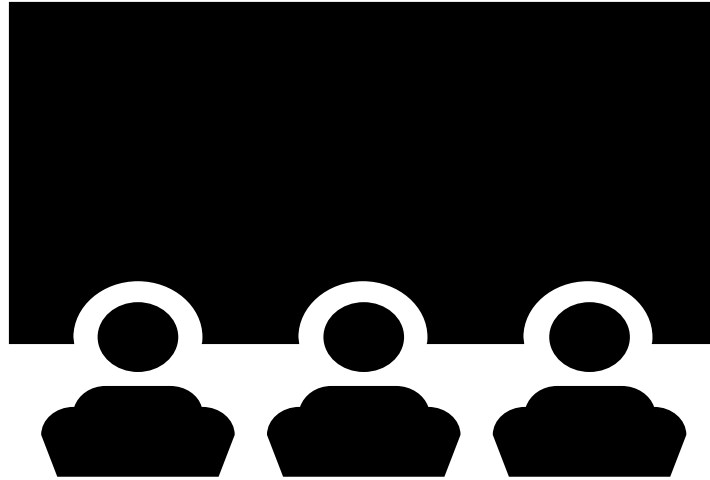
Grazing Stocks

LINE	1 Crop Year	2 Sequence Number	3 What crop was associated with this operation?	4 Crop Code [Record from Respondent Booklet pgs. 4 - 7.]	5 What operation or equipment was used on this field?	6 Machine Code [Record from Respondent Booklet pgs. 39 - 41.]	7 Was this operation used to incorporate a fertilizer or manure application? Yes = 1 No = 3 Code	8 What was the timing of the field operation? MM DD YY	9 What was the depth of tillage for tillage/planting operations? Inches
01	86 24	87 1	Corn	188	No-Till Planter	88 113	99 3	96 04 15 24	97 2.0
02	86 24	87 2	Corn	188	Bed Former	88 42	99 3	96 06 15 24	97
03	86 24	87 3	Corn	188	Self Prop 2wd Combine	88 122	99 3	96 10 20 24	97
04	86 24	87 4	Corn	188	Start Grazing	88 409	99 3	96 10 22 24	97
05	86 24	87 5	Corn	188	Stop Grazing	88 410	99 3	96 01 05 25	97

Questions?



Section J, K, & Conclusion Videos



Section J & K: Whole Farm & Operator and Operation Characteristics









Section J: Whole Farm

The purpose of this section is to gather information about the TOTAL acreage involved in the operation during the 2024 crop year



Total Acres In The Operating Arrangement

- Focuses on land operated during 2024 season
- Remember to answer all acres in the nearest tenth acre

J	WHOLE FARM — SELECTED FIELD	J
<hr/>		
TOTAL ACRES IN THIS OPERATING ARRANGEMENT		
<p>Now I'm going to ask you a few general questions about your entire operation. (INCLUDE the farmstead, all cropland, pastureland, wasteland, woodland, wetland, and government program land. INCLUDE land in other states.)</p>		
<p>1. During the 2024 crop year, how many total acres did this operation:</p>		
a. Own?	+	Acres 1901 
b. Rent FROM others? (EXCLUDE land used on an AUM (Animal Unit Month) basis.)	+	1902 
c. Rent TO others? (INCLUDE privately owned/rented land administered by a public agency through exchange-of-use.)	-	1903 
2. Then the TOTAL acres in this operation including the farmstead, all cropland, pastureland, wasteland, wetland, woodland and government program land is: (Total of 1a + 1b - 1c)	=	1904 
<p>a. Have I accounted for the farmstead, all cropland, pastureland, wasteland, wetland, woodland and government program land in this operation?</p>		
<p>1 <input type="checkbox"/> Yes — Continue 3 <input type="checkbox"/> No — Make corrections, then continue.</p>		
3. Of the total (Item 2) acres operated, how many acres are considered cropland, including land in hay and cropland in government programs?		Acres 1905  1906 
4. Of the total (Item 2) acres operated, how many acres are considered pastureland?		



Total Acres on the Entire Farming Operation During 2024

- Include: all cropland, woodlands, wasteland, wetlands, pasture, idle land, and government program lands regardless of location when the operator made the day-to-day decisions
- If an operator living in one state made the day-to-day decisions for land across state lines, that land should be included in this section (owned, rented, or leased)
- Question 3: Remember that hay meadows are considered cropland and not pasture



Section K: Operator & Operation Characteristics

The purpose of this section is to gather demographic information about CEAP respondents



Total Acres on the Entire Farming Operation During 2024

- Reminder: data in this section refers to the entire farming operation, not just the selected field like previous sections
- Item 9: Asks the operator to identify a range of their gross value of sales
 - Gross Value of Sales = Total amount of sales without any deductions (expenses, taxes, etc)
- Item 10: Asks the operator to identify only one category where the largest portion of gross income on the operation originates



Phase 2 Conclusion

The purpose of this section is to gather information on records used for the interview, track supplement forms, and record the time and date of the interview



Record usage vs supplements used

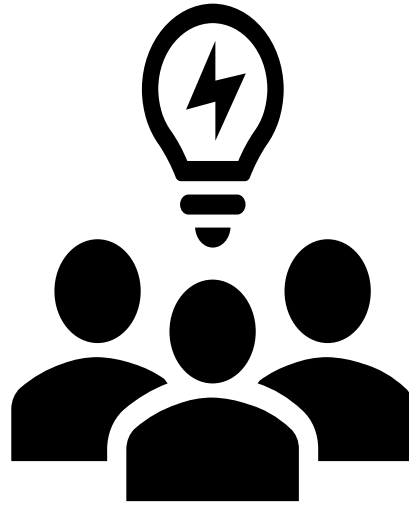
- One of the most common mistakes in this section is marking supplements as actual operation records
 - Questions 2: Supplement forms are only used for tables that have applications, operations, or other data that needs additional data lines
 - These are not records but additional supplement sheets where additional information is recorded for the respective sections
- Question 1 refers to if an operator completed the questionnaire with operation records and if so, which areas of the operation
- Question 3: **Leave comments and information in this section but remember, no PII anywhere on the questionnaire**



Question and Answer Session



Supervisor Breakout Session



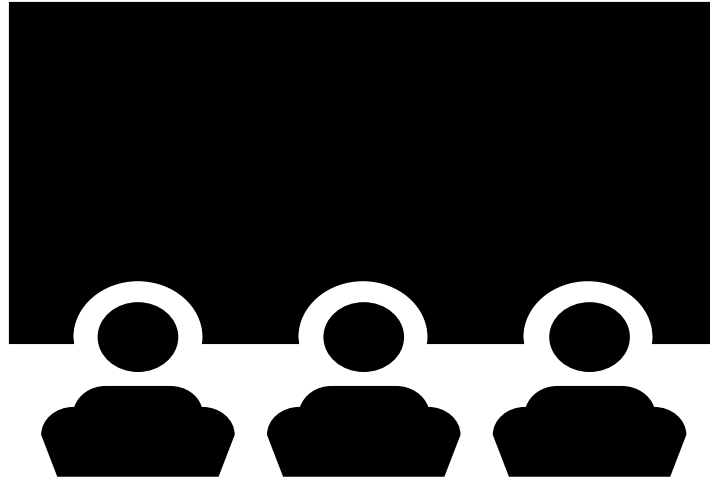
Conclusion of CEAP Day 1 Training



Day 2 Question and Answer Session



NRCS Purpose Video



NRCS Purpose and Uses Video (SD/ND)

Brianna Henry, NRCS



SELLING SURVEYS

Getting Your Foot In The Door Is Just
The Beginning



A nice part about being an enumerator is you're not selling anything.

- May have heard this when you were first being hired.
- Well.....technically true, however.....

NASS Surveys are Voluntary

- Respondents need to see the value in filling out the survey...

...and it's your job to help them find that value.



Be Prepared to Overcome the Negatives

- Surveys take time.
- Surveys ask personal and private information.
- Farmers and Ranchers are bombarded with surveys from a variety of sources.
- There is (lots of) misinformation about how data from NASS reports are used.



Survey Work is Similar to Sales

- Have your sales pitch ready.
- Know your product.
- Be organized.
- Be ready to give you pitch anywhere and anytime.
- Be prepared to deal with reluctant/skeptical customers.
- Gotta be willing to put the time (miles) in.

Sales Tips from People who Sell for a Living

- **Believe in yourself and what you're doing.**
 - Why should anyone buy anything from you if you don't even believe in it? Confident salespeople are more successful.
- **Overcome your customer's preconceived notions.**
 - Be ready to counter any misconceptions or misinformation with facts and counter arguments.
 - You can have the best sales pitch ever created, but if your customer doesn't believe it, you're not going to get anywhere.



Sales Tips from People who Sell for a Living

- **Show up (and show up on time).**
 - Many sales are lost because the salesperson either failed to show or failed to show up on time.
 - Respect their time/schedule.
- **Steal (good ideas) from others.**
- **Be honest.**
 - Don't overpromise and under deliver.

Sales Tips from People who Sell for a Living

➤ **Know your customer.**

- Many customers are repeat customers.
- Make it a point to learn something personal and/or professional about them.
- Look for items that are of common interest to you both. Making connections on a level outside of the business relationship can help create long term success.



Sales Tips from People who Sell for a Living

➤ Understand the basics of a sales call.

- Always layout the agenda for a sales call
 - How long will this call take?
 - Be honest. Respect their time.
 - What is the reason for the call?
 - How do they benefit by investing their time/energy?
 - How does this call relate to any previous or future calls?
 - By connecting the current call to a previous (positive) interaction gives the customer the comfort in knowing what to expect.
 - Lay the groundwork for future calls.



Sales Tips from People who Sell for a Living

➤ **Take notes.**

- Give yourself a roadmap for the next call or the next time you call on that customer.

➤ **Learn from each call.**

- Feedback, both positive and negative, can help make you better.

➤ **Attitude isn't everything, but it's a lot.**

- Smile when you're on the phone. People can hear smiles.
- Taking a positive approach on each and every call can be difficult, but customers are more likely to buy from someone who likes what they do.



IT'S ALL ABOUT ATTITUDE.



If you remember nothing else...

...remember the golden rule.

TREAT OTHERS AS YOU WOULD LIKE TO BE TREATED



Questions?



COMPLETION CODES LINES IN A TABLE SUPPLEMENTS



Section C: Cropping History

- Page 7, Item Code 1004
 - 2024 Cropping History

Completion Code for 2024 Cropping History	
1 = Inaccessible/Refusal	1004

- Page 8, Item Code 1003
 - 2023 Cropping History

Completion Code for 2023 Cropping History	
1 = Inaccessible/Refusal 3 = Valid Zero	1003

- Page 9, Item Code 1002
 - 2022 Cropping History

Completion Code for 2022 Cropping Table	
1 = Incomplete/Refusal 3 = Valid Zero	1002

- Completion Code Boxes

- Blank = Data is present
- 1 = Data incomplete or refused
- 3 = Valid zero data for this crop year
- 2024 can't be a valid zero
- Box has to be coded a “3” if the respondent didn't make day to day decisions for 2023 or 2022.



Section D: Commercial Fertilizer Application

- Page 12, item code 0234
 - 2024 crop year
 - Page 12, item code 0233
 - 2023 crop year
 - Page 12, item code 0232
 - 2022 crop year
- Completion Code Boxes
 - Blank = Data present for section
 - 1 = Data incomplete or refused
 - 3 = Valid zero data for this crop year
 - Box has to be coded a “3” if the respondent didn’t make day to day decisions for 2023 or 2022.

1. Were commercial FERTILIZERS applied to the field for:

- a. The 2024 crop?
- b. The 2023 crop?
- c. The 2022 crop?

	Code	Completion Code
Yes = 1 No = 3	0221	0234
Yes = 1 No = 3	0235	0233
Yes = 1 No = 3	0237	0232



Section D: Commercial Fertilizer Application

- LINES IN TABLE
 - 3 tables, 2024, 2023, 2022
 - Count number of lines in each of the tables
 - Page 14, table 100 = 2024, Item code 299, lines in the table
 - Max is 14 lines
 - Exceed 14 lines need to get a fertilizer supplement

		0299
Lines in Table	Table 100	

Section D: Commercial Fertilizer Application

- Page 16, table 200 = 2023, Item code 299, lines in the table
- Max is 14 lines
- Exceed 14 lines need to get a supplement
- Page 18, table 300 = 2022, Item code 299, lines in the table
- Max is 14 lines
- Exceed 14 lines need to get a supplement

		0299
Lines in Table	Table 200	

		0299
Lines in Table	Table 300	

Section E: Manure Application

- LINES IN TABLE
 - Page 20, table 001 = 2024-2022, Item code 0599, lines in the table
 - Max is 10 lines
 - Exceed 10 lines need to get a manure supplement
 - All 3 years go into one table

Lines in Table	Table 001	0599
----------------	-----------	------

Section E: Manure Application

- Page 21
 - Item Code 0454 = 2024
 - Item Code 0453 = 2023
 - Item Code 0452 = 2022

Manure Table Completion Codes		
1 = Inaccessible/Refusal 3 = Valid Zero		
2024	2023	2022
0454	0453	0452

- Completion Code Boxes
 - Blank = Data present for section
 - 1 = Data incomplete or refused
 - 3 = Valid zero data for this crop year
 - Box has to be coded a “3” if the respondent didn’t make day to day decisions for 2023 or 2022.

Section F: Pest Control Applications

- Page 23
 - Item Code 0344 = 2024
 - Item Code 0343 = 2023
 - Item Code 0342 = 2022

Applied

	2024	2023	2022
Yes = 1 No = 3	0315	0345	0346
Completion Code	0344	0343	0342

Completion Code Boxes

- Blank = Data present for section
- 1 = Data incomplete or refused
- 3 = Valid zero data for this crop year
- Box has to be coded a “3” if the respondent didn’t make day to day decisions for 2023 or 2022.

Section F: Pest Control Applications

- LINES IN TABLE
 - 3 tables, 2024, 2023, 2022
 - Count number of lines in each of the tables
 - Page 24, table 100 = 2024, Item code 0399, lines in the table
 - Max is 15 lines
 - Exceed 15 lines need to get a pest control supplement

EXCLUDE: fertilizers and adjuvants, (e.g. wetting agents, stickers, spreaders, etc.).			
	Lines in Table	Table 100	0399

Section F: Pest Control Applications

- Page 26, table 200 = 2023, Item code 0399, lines in the table
- Max is 15 lines
- Exceed 15 lines need to get a pest control supplement

Lines in Table	Table 200	0399
1	5	6

- Page 28, table 300 = 2022, Item code 0399, lines in the table
- Max is 15 lines
- Exceed 15 lines need to get a pest control supplement

Lines in Table	Table 300	0399

Section G: Pest Management Practices

- Completion Code Box
 - Page 31, item code = 1700
 - Blank = Data is present for this section
 - 1 = Data is incomplete or refused
 - Valid zero is not valid for this box

Completion Code for Pest Management Data	
1 = Incomplete/Refusal	1700

Section H: Irrigation

- Completion Code Box

- Page 35

- Item code 1504 = 2024
 - Item code 1503 = 2023
 - Item code 1502 = 2022
 - Blank = Data is present for this section
 - 1 = Data is incomplete or refused
 - 3 = Valid zero data for this crop year
 - Box has to be coded a “3” if the respondent has no irrigation
 - Reference page 32 for 3 columns for the past 3 years.

Completion Code for Irrigation			
	2024	2023	2022
1 = Inaccessible/Refusal 3 = Valid Zero	1504	1503	1502

Section I: Field Operations

- Lines in Table
 - Page 36, Table 100 = 2024, item code =0499
 - Max is 15 lines
 - Exceed 15 lines need to get a field operations supplement
- Completion Code box
 - 2024 Field Operations
 - Blank = data is present
 - 1 = data is incomplete or refused
 - 3 = valid zero for crop year

Lines in Table	Table 100	0499
----------------	-----------	------

Completion Code 2024 Field Operations		
1 = Inaccessible/Refusal	3 = Valid Zero	3004

Section I: Field Operations

- Lines in Table

- Page 37, Table 200 = 2023, item code =0499
- Max is 15 lines
- Exceed 15 lines need to get a field operations supplement

Lines in Table	TABLE 200	0499
----------------	-----------	------

- Completion Code box

- 2023 Field Operations
- Blank = data is present
- 1 = data is incomplete or refused
- 3 = valid zero for crop year
- Box has to be coded a “3” if the respondent didn’t make day to day decisions for 2023 or 2022.

Completion Code 2023 Field Operations	
1 = Inaccessible/Refusal 3 = Valid Zero	3003

Section I: Field Operations

- Lines in Table

- Page 38, Table 300 = 2022, item code =0499
- Max is 15 lines
- Exceed 15 lines need to get a field operations supplement

Lines in Table	TABLE 300	0499
----------------	-----------	------

- Completion Code box

- 2022 Field Operations
- Blank = data is present
- 1 = data is incomplete or refused
- 3 = valid zero for crop year
- Box has to be coded a “3” if the respondent didn’t make day to day decisions for 2023 or 2022.

Completion Code 2022 Field Operations	
1 = Inaccessible/Refusal 3 = Valid Zero	3002

Conclusion

- Number of Supplements Used
- Page 42
- Count the number of supplements used for Sections listed below

Supplements Used:

	Number
Fertilizer Applications	0030
Pest Control Applications	0031
Field Operations	0032
Manure Applications	0033
Crop History Supplement	0034



Supplements

- Please make sure to fill out supplements correctly

- CEAP ID = 9 digit POID

- Table

- 101 = 2024
- 201 = 2023
- 301 = 2002

VERSION	CEAP ID	TRACT	SUBTRACT	TABLE
1	_____	01	01	_____

10X = 2024
20X = 2023
30X = 2002

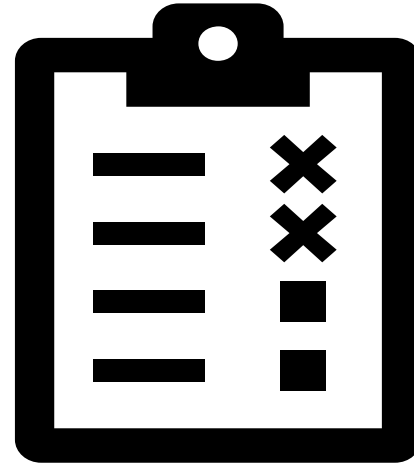
Lines in Table	0499
----------------	------

- Begin numbering the supplements with table 101, 201 or 301 because table 100, 200, 300 appears in the questionnaire.
- Number of lines in the table in the supplement needs to be filled out too
- Place supplements in the back of the questionnaire prior to shipping
- Don't ship blank supplements

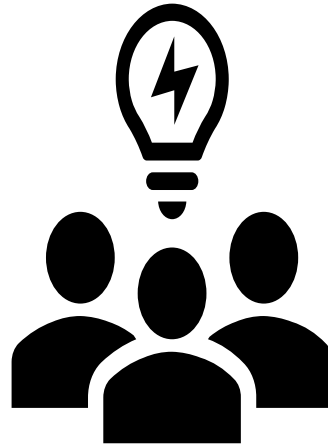
Questions?



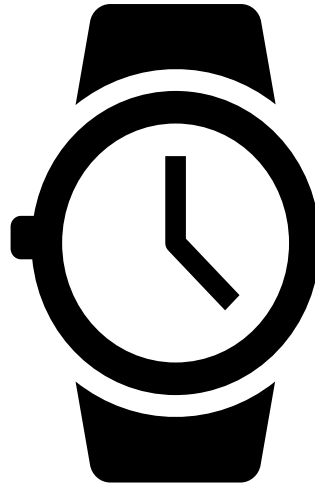
Respondent Booklet Scavenger Hunt



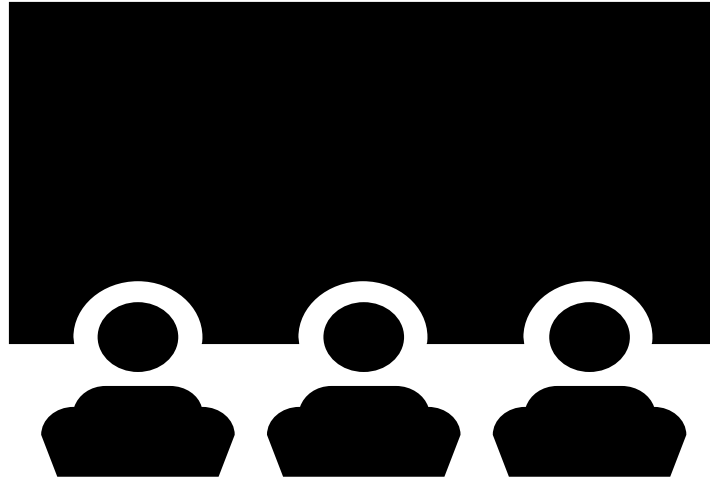
Supervisor Breakout Session



Group Break



Reminders, Tips & Tricks Video



CEAP Basic Principles & Review



Section A: Field Characteristics

- Defines and confirms boundaries of the selected field and associated conservation areas
- Conservation Area: any area of land adjoining or adjacent to the selected field, such as field borders, buffers, or other land areas in conservation practices that the operator associates with the selected field or provides benefits to the selected field.
- Accurate identification is essential for data collection
- Adjust field boundaries in this section



Section B: Conservation Plan

- Documents any conservation plan/s associated with the selected field
- Prepared under Federal, State, and conservation district standards
- Assistance to implement these plans can come from many entities



Section C: Cropping History & Conservation Practices

- Records cropping history over three crop years
- Emphasis on practices such as:
 - Crop rotations
 - Cover crops
 - Tillage practices
- Important to understand cropping systems and their impact on soil and conservation



Section D: Commercial Fertilizer Applications

- Records info on fertilizers and nutrients applications
- Helps understand issues related to water quality and agricultural productivity
- Table for each crop year
- Exclude:
 - Micronutrients
 - Commercially prepared manure
 - Unprocessed manure
 - Lime
 - Gypsum

Section E: Manure Applications

- Records info on manure applications
- Helps understand nutrient management and its impact on soil and water
- Only one table for all crop years

Section F: Pest Control Applications

- Detailed info on types of pesticides (herbicides, insecticides, fungicides)
- Track trends and amounts of pesticides used
- Goes with Section G: Pest Management Practices
- Only record pesticides
- Spot treatments: do not enter a rate per acre
 - Only complete column 9
 - Do not complete column 8



Section G: Pest Management Practices

- Records pest management practices
- Includes both chemical and non-chemical management
- Main focus on scouting practices
- A pest refers to:
 - Weeds
 - Insects
 - Plant diseases



Section H: Irrigation

- Collects data on the use of irrigation
- Combined with data from other sections to estimate:
 - Soil erosion
 - Nutrient losses
 - Pesticide losses



Section I: Field Operations Section

- Records data on all field operations
- Data used to understand:
 - Rates of soil erosion based on crop type and production practices
 - Nutrient and pesticide losses
 - Soil health
- Tillage/planting depth very important
- Pay Attention!!! Field Ops supplements are year specific



Section I: Field Operations

Section (continued)

- Harvest activities include crop stubble harvest/grazing
- Exclude:
 - Pesticide, manure, and fertilizer applications
 - **UNLESS separate tillage equipment is used to incorporate**
 - Hauling of the crop from the field edge
 - Work done outside of the field



Section J: Whole Farm

- Entire operations owned, rented, and leased acres
- Determines the total acres operated
- Help track conservation practices across different size farms
- Land in other states should be included



Section K: Operator and Operation Characteristics

- Demographic data on the operation
- Provides patterns of conservation practices in relation to:
 - Number of years on the farm
 - Education
 - Gross value of sales
 - Full vs. part time
- “Supplements used” \neq number operation records used
 - This is how many supplements were used to collect data



Before the Interview

- Inform the respondent they will need their records of:
 - Fertilizer applications
 - Pest control applications
 - Manure applications
 - Livestock grazing
 - Written conservation plans

PERSONALLY IDENTIFIABLE INFORMATION (PII)

- NO PII ANYWHERE ON THE QUESTIONNAIRE!!!!
 - Names – first, last, and nicknames
 - Phone numbers
 - Addresses or directions to the field/operator
- No, not even in the comments section.



PERSONALLY IDENTIFIABLE INFORMATION (PII)

Comments for the Questionnaire

- Unusual data situations
 - Crop failures, droughts, etc.
- Unusual fertilizer, pesticide, or manure applications
- NO PII!!!

Comments for CAPI

- Operating arrangements
- Driving directions to the location
- Phone or address updates




Appropriate Questionnaire Comments

- Good: Operator applies manure from a neighboring 400 head dairy to this field and other fields, a total of 1000 acres, but is unsure how much manure is applied.
- Bad: Mr. Smith applies manure from a neighboring 400 head dairy to this field and other fields, but is not sure how much manure is applied.



Appropriate Questionnaire Comments

- **RIGHT:** Operator applies manure from a neighboring 400 head dairy to this field and other fields, a total of 1000 acres, but is unsure how much manure is applied. 

- **WRONG:** Mr. Smith applies manure from a neighboring 400 head dairy to this field and other fields, but is not sure how much manure is applied. 

Appropriate CAPI Comments

- Jimmy Cricket, Timmy, and Joe Schmo all operate this field as a 1/3, 1/3, 1/3 partnership. You will want to contact Timmy at (555) 555-5555 to collect any and all data associated with this operation.



Questions?



CEAP Phase 1 Benchmarks

- CEAP Phase 1
 - **Tuesday, September 24: CEAP Phase 1 Data Collection Ends (100% submitted both in CAPI and NRI)**
 - Refusal, inaccessible, and ineligible operations during this Phase cannot be attempted again during Phase 2
- Shortly after this training, NASS will determine who screened through and create new assignment listings for Phase 2
 - You will receive a mailing bulk bundle with supplements, door hangers, UPS poly bags, UPS labels, and new assignment listings (paper and CAPI)
 - Forms that are not going to Phase 2 can be destroyed



CEAP Phase 2 Benchmarks

- CEAP Phase 2 Data Collection
 - Starts: Friday, November 1, 2024
 - Ends: Friday, February 28, 2025 (Last Day To Mail)
 - **Data Collection strategy subject to change based on budget**
- CEAP Phase 2 Benchmarks
 - Friday, November 29th -25% mailed to Saint Louis, MO
 - Friday, December 27th -50% mailed to Saint Louis, MO
 - Friday, January 24 – 75% mailed to Saint Louis, MO
 - Friday, February 28 – 100% mailed to Saint Louis, MO



CEAP Phase 2 Office Hours

- NPR will run two separate CEAP Phase 2 Office Hours
 - Office led discussion on survey updates on data collection progress
 - Answer questions
 - Address editing trends or concerns the office may be seeing from mailed questionnaires
- Scheduled Office Hours (45-60 mins)
 - Wednesday, November 20th at 9AM
 - Wednesday, January 8th at 9AM



CEAP Phase 2 Data Collection Plan

- After completing your first two complete questionnaires, schedule time with your supervisors to review your work
 - After this meeting, your supervisor will determine if you can mail questionnaires directly to Saint Louis or if additional review is needed
- Please use the Completion Code Edit Checklist prior to mailing questionnaires
 - Catching these potential edit errors will help the office out immensely
- Mail completed questionnaires in a timely manner
 - No CAPI data entry and all questionnaires will be keyed by hand at the NOD
 - Still need to mark survey status in CAPI (just like Phase 1)



CEAP Phase 2 Data Collection Plan

- Mail only 3 questionnaires at a time in their original assignment envelope
 - Use the provided Blue UPS labeled envelopes (will be mailed after the school)
- Mail the bar code labeled Phase 2 questionnaire inside of the original assignment envelope when mailing to Saint Louis, MO



CEAP Phase 2 Data Collection Plan

- Phase 1 Refusal and Inaccessible Assignment Envelopes:
 - Phase 1 Assignment Envelopes that did not screen into Phase 2 will be field destroyed
- Phase 2 Refusal and Inaccessible Questionnaires
 - Mail return barcoded questionnaires original envelope using Blue UPS label
 - Basically, the same process as mailing completed Phase 2 questionnaires to Saint Louis
 - Field destroy maps, FSA listing, respondent booklet, etc.



CEAP Phase 2 Data Collection Plan



CEAP Phase 2 Personally Identifiable Information Reminder

- Absolutely no PII anywhere on the Phase 2 Questionnaire
- Use broad terms to describe unique situations
 - They, operator, operation, the target, manager, etc.
- No first names, nicknames, or specific references to medical conditions



Conclusion of CEAP Day 2 Training



Thank you for your help and attention! Good luck!





United States Department of Agriculture
National Agricultural Statistics Service



ARMS 2 Training

September 2024

Project Code – 906



Prior to Workshop

- Training videos on each section were watched independently
- Questionnaires, Respondent Booklets, and Interviewer's Manual reviewed
- Home Study Quiz was completed



Breakouts

- Work through questionnaire
- Complete workshop booklet exercises
- Mock interviews
- Discuss the Home Study Quiz
- Discuss how to gain cooperation/plan of attack
- Explore ARMS 2 CAPI instrument



Production Practices Report (PPR)

- Only the PPR this year
 - No cost questions
- 2 Versions
 - Wheat
 - Sorghum
- 8 pages
 - Section A – Field selection
 - Section C – Fertilizer Applications
 - Section D – Pesticide Applications
 - Section E – Pest Management Practices

Kansas	Nebraska	North Dakota	South Dakota
Winter Wheat	Winter Wheat	Durum Wheat	Winter Wheat
Sorghum	Sorghum	Spring Wheat	Spring Wheat
			Sorghum



Face Page, Inserts & Section A

Face Page-Label

- Field Direction Indicator
 - Page 2

1	<input type="checkbox"/> Northern most field
2	<input type="checkbox"/> Southern most field
3	<input type="checkbox"/> Eastern most field
4	<input type="checkbox"/> Western most field
5	<input type="checkbox"/> Northeastern most field
6	<input type="checkbox"/> Southeastern most field
7	<input type="checkbox"/> Northwestern most field
8	<input type="checkbox"/> Southwestern most field

ST POID
Operation Name
Person Name
Address
(xxx) xxx-xxxx
3 Winter Wheat

- Target Type of Wheat (Wheat Version ONLY)
 - Winter, Spring, or Durum

- Verify the name and address of the operator and any partners.
 - Partner names are in CAPI **only**
- Record the starting time of the interview using military time.
 - Example: 2:30 p.m. = 1430

Face Page-Screening

searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.
We encourage you to refer to your farm records during the interview.

BEGINNING TIME [MILITARY] H H M M 0004		SCREENING BOX 0006 1
<input type="checkbox"/> Check if verified POID _____		

- There should be a 1 in the screening box but some may have been missed
- **Screening form will be inserted in questionnaire if screening needs to be done**
- **Enumerator Note in CAPI & Acreage Insert “Screening Supplement Required”**



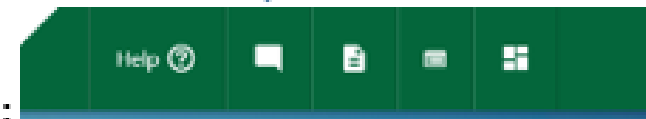
Screening



- Verify if operator is still in business
 - Including CRP & Pasture
- Out of Business or Landlord only
 - Conclude interview
- Collect data for addition individual ops or partnerships
- Take good notes

Screening

Comments icon



Please write the following information in CAPI comments:

1. Another Farm/Ranch name: Y(name)/N	
5. If out of business who is operating the land:	
7. One Individual, <u>Hired</u> manager, partners (how many)?	
8. Target name make any day-to-day decisions for another farm or ranch? If so, how many?	



- [illegible]



Section A – Target Crop & Field Selection

- Wheat Version, Q1 – get Wheat type from label or acreage insert
 - Target type of wheat is printed on the label, acreage insert, assignment listings and in CAPI under “Operator Information”
 - The questionnaire only refers to that particular type of wheat as the target crop, and not all wheat.
- Total Acres Planted of target crop
 - Only planted acres of the specific type of wheat
 - Compare to Acreage Insert Sheet – comment on large differences
 - Include acres even if they were abandoned or not for grain
- Total number of fields planted to the targeted crop



Section A – Target Crop & Field Selection

- **Cardinal & Inter-Cardinal Directions**

- Direction indicator is a 1-8 on the face page Label, Acreage insert, Assignment listing & in CAPI
- For each operation, the field has already been randomly pre-selected using the eight cardinal and inter-cardinal directions
- Field selection is irrespective of the location of the homestead on the operation

4. [Now, I need to identify a wheat field to be used for this survey.] The wheat field pre-selected for this interview is the:

1 <input type="checkbox"/> Northern most field	<p>Field description:</p> <div></div>
2 <input type="checkbox"/> Southern most field	
3 <input type="checkbox"/> Eastern most field	
4 <input type="checkbox"/> Western most field	
5 <input type="checkbox"/> Northeastern most field	
6 <input type="checkbox"/> Southeastern most field	
7 <input type="checkbox"/> Northwestern most field	
8 <input type="checkbox"/> Southwestern most field	

5. The field selected is _____ (field name/number/description).
During this interview, the wheat questions will be about this selected wheat field.
[Be sure the operator can identify the selected field.]



Section A –Field Selection

- **Where can I find the field direction indicator?**

- Face Page Label
- Acreage insert
- Assignment listings
- CAPI under “Operator Information”

ST POID

Operation Name

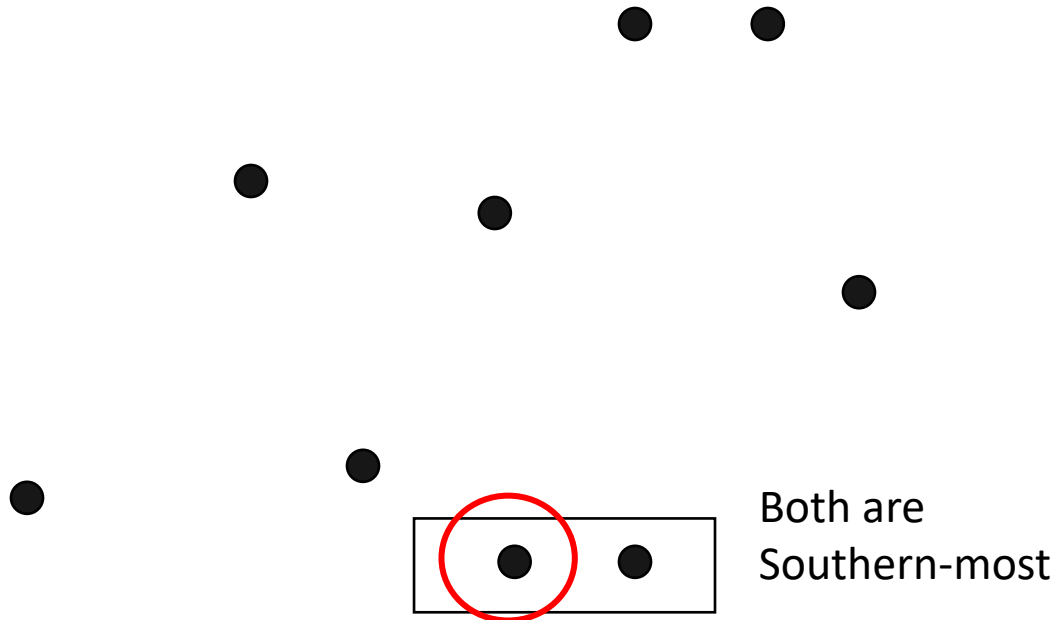
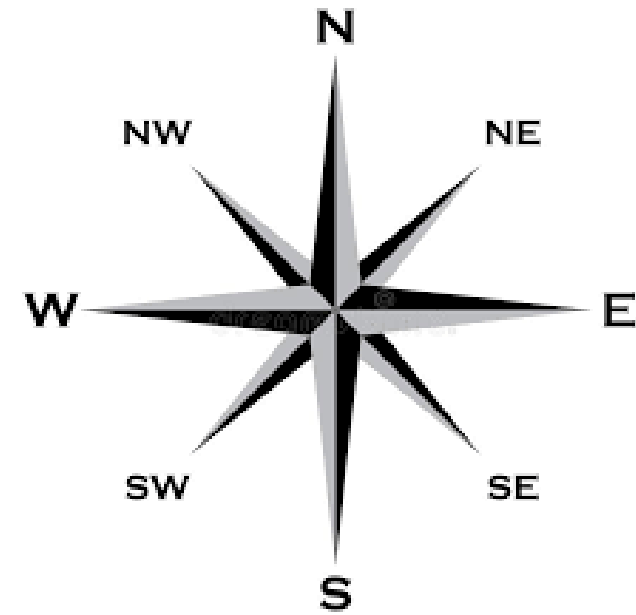
Person Name

Address

(xxx) xxx-xxxx

3 Winter Wheat

Section A - Field Selection



Legend

- Targeted Crop Field

- To determine which of those two fields to select, rotate clockwise around the compass rose
 - South-western field is selected



Section A: Question

- If a producer did not plant the targeted crop do we do the survey with them?

2. How many acres of the selected type of wheat did this operation plant for the 2024 crop year?.....

Total Planted Acres

0050

[If no acres planted, review Screening Information Form, make notes, then go to back page.]

Section A: Field Selection



Section C:

Nutrient or Fertilizer Applications



Section C Purpose

- Identify nutrients or fertilizer used to produce the 2024 Wheat/Sorghum crop on the selected field
- Fertilizer application data is used to analyze water quality and agricultural productivity issues and policies
- Get Actual application rates



Fertilizer is made up of 2 things:

- **Actual Nutrients**

- N: Nitrogen
- P: Phosphorus
- K: Potassium
- S: Sulfur
- And many others

- **Carrier Material**

- Filler - other stuff



2 Ways to Record Nutrient or Fertilizer Applications:



- **Percent Analysis** (most common & preferred)
 - A complete product
 - Urea 46-0-0
 - 10-34-0
 - MAP 11-52-0
 - DAP 18-46-0
- **Pounds of Actual Nutrients**
 - Individual ingredients of a complete product
 - Nitrogen
 - Phosphorus
 - Potassium
 - Sulfur



Common Fertilizers & Percent Analysis

From Respondent Booklet

Section C, Item 3, Column 2 Common Fertilizers and Their Percent Analysis					
[Enumerator Note: If Respondent cannot report the formulation for Section C, item 3 use the formulations below.]					
Name	Form	Percent Active Ingredients			
		N	P ₂ O ₅	K ₂ O	S
Ammonia	D/L	80	---	---	---
Ammoniated superphosphate	D	12-17	22-35	---	---
Ammonium metaphosphate	D	12	51	---	---
Ammonium nitrate	D	32-34	---	---	---
Ammonium phosphate	D	11-18	46-48	---	---
Ammonium phosphate nitrate	D	27-30	10-15	---	---
Ammonium phosphate sulfate (APS)	D	13-16	20	---	15
Ammonium polyphosphate (APP)	L	10-11	34-37	---	---
Ammonium polysulfide (Ammonium Sulfate)	L	20-21	---	---	24
Ammonium sulfate nitrate	D	20-30	---	---	5
Ammonium thiosulfate solution	L	12	---	---	26
Anhydrous ammonia	L/G	82	---	---	---
Aqua ammonia (Ammonium Hydroxide)	L	16-25	---	---	---
Bone meal	D	0-2	10-20	---	---
Calcium ammonium nitrate	D	15-16	---	---	---
Diammonium phosphate sulfur	D	15-16	39-41	---	---
Diammonium phosphate (DAP)	D	16-21	46-53	---	---
Elemental sulfur	D	---	---	---	52-100
Greensand	D	---	1	6	---
Magnesium sulfate	D	---	---	---	13
Monoammonium phosphate (MAP)	D	11-13	48-62	---	---
Natralene	D/L	40	---	---	---
Nitrogen solutions	L	7-58	---	---	---
Nitric phosphate	D	12-17	22-35	---	---
Phosphate rock	D	---	2-35	---	---
Phosphoric acid	L	---	2-76	---	---
Potassium carbonate	D	---	---	34-48	---
Potassium chloride (Muriate of potash)	D	---	---	60-62	---
Potassium magnesium sulfate	D	---	---	22	23
Potassium metaphosphate	D	---	55-57	37-38	---
Potassium nitrate	D	13	---	44	---
Potassium orthophosphate	D	---	30-60	30-50	---
Potassium polyphosphate	L	---	40-60	22-48	---
Potassium sodium nitrate	D	15	---	14-15	---
Potassium solutions	L	---	---	13-15	---
Potassium sulfate	D	---	---	50-53	16
Sodium nitrate (Nitrate of Soda)	D	15-16	---	---	---
Sulfuric acid	L	---	---	---	20-26
Super phosphate (22% & under)	D	---	16-22	---	11
Super phosphate (over 22%)	D	---	23-39	---	11
Triple super phosphate	D	---	40-54	---	11
Urea	D	45-46	---	---	---
Urea, sulfur coated	D	36-38	---	---	13-16
Urea ammonium phosphate	D	25-58	28-35	---	---
Urea ammonium nitrate (UAN)	L	28-32	---	---	---
Urea phosphate	D	17	44	---	---



Fertilizer - Percent Analysis

Written with numbers and dashes

- 26 - 5 - 10
N - P - K
- First number is Nitrogen, second is Phosphorus, third is Potassium
- If a Fourth number is present: 26 - 5 - 10 - 7 that is Sulfur

Numbers represent the percentage of that nutrient in the fertilizer

- 26-5-10
- For any given quantity of this fertilizer,
 - 26% of it will be Nitrogen
 - 5% of it will be Phosphorus
 - 10% of it will be Potassium
 - The remaining 59% will be carrier material



Fertilizer Percent Analysis

- 10-34-0 11-52-0 18-46-0 46-0-0 82-0-0
- No fertilizer reported by analysis will have total N-P-K greater than 85
 - If you add the 3 #'s together, it will not be greater than 85
 - If Sulfur is included in the mix then this does not hold true.



Fertilizer Table - Percent Analysis

- Farmer applied 5gal of 10-34-0, & 120lbs of 0-0-60 per acre to the target field

Nitrogen Codes for Column 2

- | | |
|---------------------------|---|
| 1 Anhydrous ammonia | 6 Ammonia sulfate |
| 2 Nitrogen solution (UAN) | 7 Potassium nitrate, magnesium nitrate, and calcium nitrate |
| 3 Urea | |
| 4 Ammonium nitrate | 8 Other nitrogen fertilizer material [specify: _____] |
| 5 Sodium nitrate | |

LINE	2 Materials Used [Enter percentage analysis or actual pounds of plant nutrients applied per acre.] [Show Common Nutrients or Fertilizers in Respondent Booklet] [Refer to nitrogen list above for type of nitrogen used.]					3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported]	4 [Enter material code] 1 Pounds 12 Gallons 13 Quarts 19 Pounds of actual nutrients
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash	S Sulfur	Type of N Used		
	31	32	33	34	35	36	37
01	10	34			4	5	12
02			60			120	1
03							

- Column 2 – nutrients
- Column 3 – Quantity applied
- Column 4 = 1, 12 or 13



Fertilizer Table - Pounds of Actual Nutrients

- Reported in “Units” or “Pounds”
- Farmer applied 60lbs Nitrogen, 35lbs Phosphorus, 40lbs Potassium, & 35lbs Sulfur per acre to target field

L I N E	2 Materials Used [Enter percentage analysis or actual pounds of plant nutrients applied per acre.] [Show Common Nutrients or Fertilizers in Respondent Booklet] [Refer to nitrogen list above for type of nitrogen used.]					3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported]	4 [Enter material code] 1 Pounds 12 Gallons 13 Quarts 19 Pounds of actual nutrients
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash	S Sulfur	Type of N Used		
01	31 60	32 35	33 40	34 35	35 4	36	37 19
02	31	32	33	34	35	36	37
03	31	32	33	34	35	36	37

- Pounds of Actual Nutrients
 - Column 3 is BLANK
 - Column 4 = 19

Quiz

- 100 units of Anhydrous
- 100 units of Nitrogen using Anhydrous
- ***Are these the same?***



Answer: NOT THE SAME

NO

- Anhydrous 82-0-0
- 100 lbs of Anhydrous
 - $100 \times .82 = 82$ pounds of N
- 100 lbs of Nitrogen using Anhydrous
 - $100 / .82 = 122$ lbs of Anhydrous



I put out 100 units...

- Did you put out 100 units of Anhydrous
- Did you put out 100 units of Nitrogen using Anhydrous
- These are not the same

When talking about putting out units that usually means pounds of actual nutrients. Need to clarify.



1) Find the Mistake

LINE	2 Materials Used [Enter percentage analysis or actual pounds of plant nutrients applied per acre.] [Show Common Nutrients or Fertilizers in Respondent Booklet] [Refer to nitrogen list above for type of nitrogen used.]					3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported]	4 [Enter material code] 1 Pounds 12 Gallons 13 Quarts 19 Pounds of actual nutrients	5 When was this applied? 1 In the fall before seeding 2 In the spring before seeding 3 At seeding 4 After seeding	6 How was this applied? [Refer to code list above]	7 How many acres in the selected field were treated in this application? Acres
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash	S Sulfur	Type of N Used					
	31	32	33	34	35	36	37	38	39	40
01	125	40			4	200	19	XX	XX	XX. x
02										_____
03										_____
04										_____

Quantity per acre should be blank.



2) Find the Mistake

L I N E	2 Materials Used [Enter percentage analysis or actual pounds of plant nutrients applied per acre.] [Show Common Nutrients or Fertilizers in Respondent Booklet] [Refer to nitrogen list above for type of nitrogen used.]					3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported]	4 [Enter material code] 1 Pounds 12 Gallons 13 Quarts 19 Pounds of actual nutrients	5 When was this applied? 1 In the fall before seeding 2 In the spring before seeding 3 At seeding 4 After seeding	6 How was this applied? [Refer to code list above]	7 How many acres in the selected field were treated in this application? Acres
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash	S Sulfur	Type of N Used					
	31	32	33	34	35	36	37	38	39	40
01	85	25	20	10	4		1 19	XX	XX	XX . x
02										_____
03										_____
04										_____

Codes 1 and 19 are both pounds:

- Code 1 is Percent analysis, but sum of parts is greater than 100%.

- Code 19 is for actual nutrients.

3) Find the Mistake

LINE	2 Materials Used [Enter percentage analysis or actual pounds of plant nutrients applied per acre.] [Show Common Nutrients or Fertilizers in Respondent Booklet] [Refer to nitrogen list above for type of nitrogen used.]					3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported]	4 [Enter material code] 1 Pounds 12 Gallons 13 Quarts 19 Pounds of actual nutrients	5 When was this applied? 1 In the fall before seeding 2 In the spring before seeding 3 At seeding 4 After seeding	6 How was this applied? [Refer to code list above]	7 How many acres in the selected field were treated in this application? Acres
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash	S Sulfur	Type of N Used					
01	31 40	32 10	33 10	34	35 4	36	37 1	38 XX	39 XX	40 XX .x
02	31	32	33	34	35	36	37	38	39	40 . _
03	31	32	33	34	35	36	37	38	39	40 . _
04	31	32	33	34	35	36	37	38	39	40 . _

Appears to be reported as Percent of a solution, but
Quantity Applied Per Acre is missing



Section C: Nutrient or Fertilizer





Section D:

Biocontrol or Pesticide Applications



Section D: Pesticide Applications

- Collects information on Biocontrols or Pesticides used on the selected field for the 2024 Wheat/Sorghum crop.
- Chemical mixes are described and application practices are enumerated
- Use Operator Records
- Both you and the respondent should use a Respondent Booklet.

Section D - Data Collection

- **Include all pesticides applied for the 2024 crop** on the selected field.
 - Herbicides, insecticides, fungicides, defoliants, and other pesticides
- **Exclude:**
 - Chemical applications to fence rows, ponds, canals and ditch banks.
 - This land should not be considered part of the survey acres of interest.
 - Fertilizer Applications
 - Seed Treatments
 - Adjuvants/Surfactants

Section D – Data Collection

- Respondent Booklet
 - Products are categorized as:
 - Dry (D)
 - Liquid (L)
 - Type or class of each product:

CHEMICALS and PESTICIDES for WHEAT

F = Fungicide, H = Herbicide, I = Insecticide, M = Misc. Other, MD = Defoliant/Dessicant, MG = Growth Regulator, AS = Aqueous Suspension, D = Dry, DF = Dry Flowable, DG = Water-Dispersible Granules, E or EC = Emulsifiable Concentrate, ES = Emulsifiable Solution, F = Flowable, G or GR = Granular, L = Liquid, LV = Low Volatility M or ME = Microencapsulated, P = Pellets, S = Solution, S = Solution, SC = Soluble Concentrate, SL - Slurry, SP - Soluble Powder, W or WP - Wettable Powder, WDG or WG = Water-Dispersible Granules, WSP = Water-Soluble Packets

- Be sure to record the correct trade name & proper formulation of the chemical
 - Some chemicals have multiple listings in the respondent booklet (Ex. **Round up**)

L	H	40942	ROUNDUP HERBICIDE	524-445
L	H	41007	ROUNDUP ORIGINAL 2K HERBICIDE	524-539
L	H	41162	ROUNDUP ORIGINAL II HERBICIDE	524-454
L	H	40653	ROUNDUP PRO CONCENTRATE	524-529
L	H	41096	ROUNDUP PROMAX	524-579
L	H	40905	ROUNDUP READY-TO-USE WEED & GRASS KILLER	71995-8
D	H	40841	ROUNDUP ULTRA DRY	524-504
L	H	41159	ROUNDUP ULTRA HERBICIDE	524-475



Pesticide Applications Table

- If product is not in the respondent booklet or can't find it
 - Write the product name
 - Record it in item #2 at bottom of page

Chemical Product Name	LINE	2	3	4	5	6 OR 7	8	
		What products were applied to the selected field? [Show product codes from Respondent Booklet.]	Was this product bought in liquid or dry form? [Enter L or D]	If this was part of a tank mix, enter line number of first product in mix.	When was this applied? 1 Before planting 3 At planting 4 After planting 5 Defoliation prior to harvest	How much was applied per acre per application?	What was the total amount applied per application in the selected field?	[Enter unit code] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams
Bison Herbicide	01	61	62 L	63	64	65 .__	73 .__	74
	02	61	62	63	64	65 .__	73 .__	74

2. For biocontrols or pesticides not listed in the Respondent Booklet, specify—

Line	Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)	EPA No. or Trade Name and Formulation	Form Purchased (Liquid or Dry)	Where Purchased (Ask only if EPA No. cannot be reported)
1	Herbicide	Bison (EPA 9779-347)	Liquid	Midland Chem Supply

Pesticide Applications Table

- Tank Mixes
 - 2 or more products are mixed and applied at the same time
 - Record each product on its own line in the table
 - Enter the line number of the first product in the mix for all products in the mix

Chemical Product Name	1 L I N E	2 What products were applied to the selected field? [Show product codes from Respondent Booklet.]	3 Was this product bought in liquid or dry form? [Enter L or D]	4 If this was part of a tank mix, enter line number of first product in mix.	5 When was this applied? 1 Before planting 3 At planting 4 After planting 5 Defoliation prior to harvest	6 How much was applied per acre per application?	OR 7 What was the total amount applied per application in the selected field?	8 [Enter unit code] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams
	01	61	62	63	64	65 . _ _	73 . _ _	74
	02	61	62	63	64	65 . _ _	73 . _ _	74



Tank Mix Example

Applications Codes for Column 9

- | | |
|---|----------------------------------|
| 1 Broadcast, ground without incorporation | 6 Chiseled/injected or knifed in |
| 2 Broadcast, ground with incorporation | 7 Banded in or over row |
| 3 Broadcast, by aircraft | 8 Foliar or directed spray |
| 4 In seed furrow | 9 Spot treatments |
| 5 In irrigation water | |

Chemical Product Name	LINE	2	3	4	5	6	OR	7	8	LINE	9	10	11	12
		What products were applied to the selected field? [Show product codes from Respondent Booklet.]	Was this product bought in liquid or dry form? [Enter L or D]	If this was part of a tank mix, enter line number of first product in mix.	When was this applied? 1 Before planting 3 At planting 4 After planting 5 Defoliation prior to harvest	How much was applied per acre per application?		What was the total amount applied per application in the selected field?	[Enter unit code] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams		How was this product applied? [Enter code from above.]	How many acres in the selected field were treated with this product? Acres	How many times was it applied? Number	Were these applications made by— 1 Operator, partner, or family member? 2 Custom applicator? 3 Employee/Other?
Bison	01	61 40012	62 L	63 1	64 1	65 12 .22		73 .	74 15	01	76 1	77 100 .0	79 1	80 2
Wolverine	02	61 40070	62 L	63 1	64 1	65 13 .03		73 .	74 15	02	76 1	77 100 .0	79 1	80 2
Stinger	03	61 40425	62 L	63 1	64 1	65 14 .00		73 .	74 15	03	76 1	77 100 .0	79 1	80 2
Spartan Herb.	04	61 41040	62 D	63	64 4	65 3 .00		73 .	74 28	04	76 1	77 30 .0	79 1	80 2
Quilt Fungicide	05	61 70525	62 L	63 1	64 1	65 11 .00		73 .	74 15	05	76 1	77 100 .0	79 1	80 2
	06	61	62	63	64	65 .		73 .	74	06	76	77 .	79	80

Section D: Pesticides





Section E: Pest Management Practices

- Purpose is to provide data about pest management practices that growers use on their crops.
 - Alternative to pesticides
 - Practices which improve the effectiveness of pesticides
- Pests refers to Weeds, Insects & Diseases
 - Pest management is the prevention, avoidance, monitoring or suppression
- Mainly yes/no questions



Section E

Things to Remember

- Be familiar with Skip Codes
- If pesticides reported in Section D,
 - Questions 1-3 are asking if weather data, biological, and different mechanisms of action were used on the selected field

Now I have some questions about your pest management decisions and practices used on the selected field for the 2024 wheat crop. By pests, we mean weeds, insects, and diseases.

[Enumerator Action: Were pesticide applications reported in Section D?]

☐ Yes – Continue ☐ No – Go to item 6

1. Were weather data used to assist in determining either the need or when to make pesticide applications?.....	Yes=1 No=3	<table><thead><tr><th>Code</th></tr></thead><tbody><tr><td>0800</td></tr></tbody></table>	Code	0800
Code				
0800				
2. Were any biological pesticides such as Bt (<i>Bacillus thuringiensis</i>), insect growth regulators, neem or other natural/biological based products sprayed or applied to manage pests in the selected field?.....	Yes=1 No=3	<table><thead><tr><th>Code</th></tr></thead><tbody><tr><td>0801</td></tr></tbody></table>	Code	0801
Code				
0801				
3. Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides?.....	Yes=1 No=3	<table><tbody><tr><td>0802</td></tr></tbody></table>	0802	
0802				



Section E: Pest Management Practices

- **[ENUMERATOR ACTION:** *Were HERBICIDE (pesticide product codes 40000-49000 application reported in Section D, item 1, column 2?)*

YES – [Continue]

NO – [Go to item 6]

- If YES, Questions 4 and 5 are asking for the timing of herbicide applications
- Questions 6 and 7 are asking about record keeping for the selected field and was information used to make management decisions
- Questions 8 – 11 are asking about the scouting processes used on the selected field
- Question 12 asks about using field mapping of previous weed problems in managing pests in the selected field
- Question 13 asks for the other practices used to manage or reduce the spread of pests



Section E: Pest Management Practices



- Questions 14 and 15 are asking about beneficial organisms and other biological controls used on the selected field
- Questions 16 – 18 are asking about other pest management decisions

Conclusion

- Ending time
- Use of records
- Supplements used

8
CONCLUSION

[Enumerator Note: Thank the respondent, then review this questionnaire.]

Office Use Only				
Ending Time (Military)		OR	Total Hours	
Hours	Minutes		Hours	Minutes
0005			0008	

1. Ending time.....

2. Records Use
[Did respondent use farm/ranch records to report—]

Code

Yes=1
No=3

[fertilizer data].....

0011

Code

Yes=1
No=3

[pesticide data].....

0012

3. Supplements Used
[Record the total number of each type of supplement used to complete this interview.]

Number

0041

Fertilizer Supplement.....

Number

0042

Pesticide Supplement.....



Breakout Time



- Work through questionnaire
- Complete workshop booklet exercises
- Mock interviews
- Discuss the Home Study Quiz
- Discuss how to gain cooperation/plan of attack
- Explore ARMS 2 CAPI instrument



Data Collection Materials & Extra Supplies

- Handing out Assignments tomorrow
 - Assignment listing
 - Labeled questionnaires
 - Acreage insert sheet
 - Respondent booklets
 - Consent form
 - Chemical use highlights
 - Screening form *if required
 - State specific industry support letter *if available
- Blank Questionnaires
 - 2 Wheat
 - 2 Sorghum (KS, NE, SD)
 - 2 Respondent booklets (1 of each)
- 3 Extra Screening supplements
- Telephone Quality Control worksheets
 - Supervisors only



2022 Wheat Chemical Use Highlights



NASS Highlights

May 2023 • No. 2023-2



2022 AGRICULTURAL CHEMICAL USE SURVEY

Wheat

Twenty-two states ...

... accounted for 93% of the 45.7 million U.S. acres planted to wheat in 2022.

The 2022 Agricultural Chemical Use Survey of wheat producers collected data about fertilizer and pesticide use as well as pest management practices in growing wheat. NASS conducted the survey in 22 states that together accounted for more than 93% of the 45.7 million acres planted to wheat in the United States

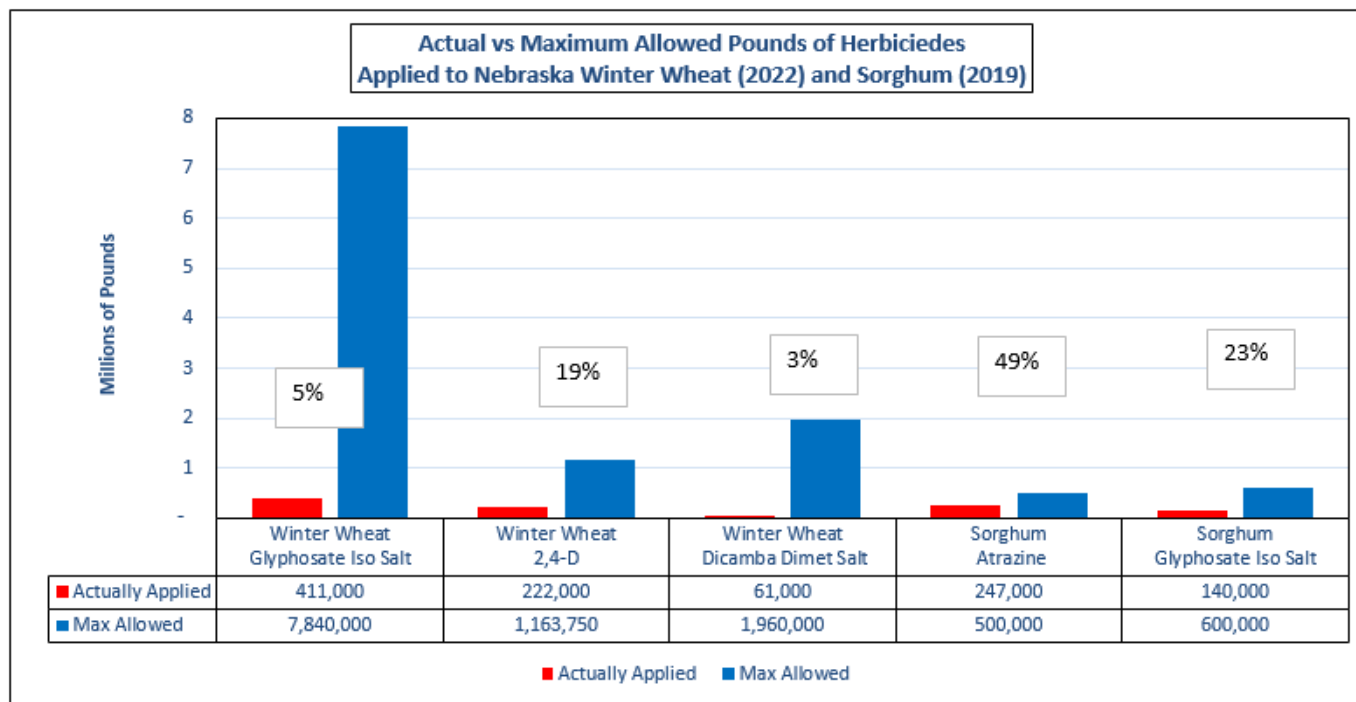


Why We are Here



Why are we here?

Nebraska
Winter Wheat 2022
Sorghum 2019



Without the ARMS survey, the general public would be allowed to assume MAXIMUM label rates are being applied on ALL crop acreage.

The result could be the cancellation of pesticides farmers rely on. Our survey provides reliable, accurate pesticide use information to the general public and ensures the availability of chemicals farmers need.



Data Collection Plan



- September 18 - Postcard was mailed out to respondents

**YOUR PARTICIPATION
IN THIS SURVEY IS
IMPORTANT!**

To make the interview quicker,
please have your application
records available.

Thank you for your
participation! By responding,
you represent and give
voice to thousands of farmers
like you across the nation.

For more information call
888-424-7828 or visit
www.nass.usda.gov/go/arms/

OMB# 0535-0218

USDA-NASS
NATIONAL OPERATIONS CENTER
9700 PAGE AVENUE SUITE 400
ST LOUIS MO 63132-1547

ADDRESS SERVICE REQUESTED

FIRST-CLASS MAIL
PRESORTED
U.S. POSTAGE PAID
USDA
PERMIT NO. G-38

Agricultural Resource Management Survey



- A representative from USDA will call you to help complete the survey in person between Oct. 1, and Dec. 6, 2024.
- Our interviewer will ask you detailed questions about the types of pesticides you use on your crops.



United States Department of Agriculture
National Agricultural Statistics Service



Data Collection Plan

- | | |
|------------------------|--|
| • Wed, Sep. 18 | Postcard mailed to respondents |
| • Tues, Oct. 1 | ARMS 2 Data Collection |
| • Tues, Oct. 15 | 1 Report submitted in CAPI |
| • Wed, Oct. 16 | Office Hours 9 am CT |
| • Wed, Oct. 30 | 25% submitted in CAPI |
| • Wed, Nov. 6 | Office Hours 9 am CT |
| • Wed, Nov. 13 | 50% submitted in CAPI |
| • Wed, Nov. 27 | 75% submitted in CAPI |
| • Fri, Dec. 6 | Last day to submit ARMS 2 in CAPI |
| • Mon, Jan. 13 | Destroy labeled questionnaires |
| • Mon, May 12 | Data published in Ag Chem Usage release |



Data Collection Plan



- Questionnaire handling
 - Supervisor review: After you have completed your first 1 or 2 interviews, save for review in CAPI and let your supervisor know so they can go over those questionnaires in CAPI.
 - CAPI: All questionnaires will be entered in CAPI.
 - Phone number lookup: The office can try to help find a new phone number for a respondent.
 - Questionnaires: After data collection is over, destroy ARMS 2 materials



Office Hours



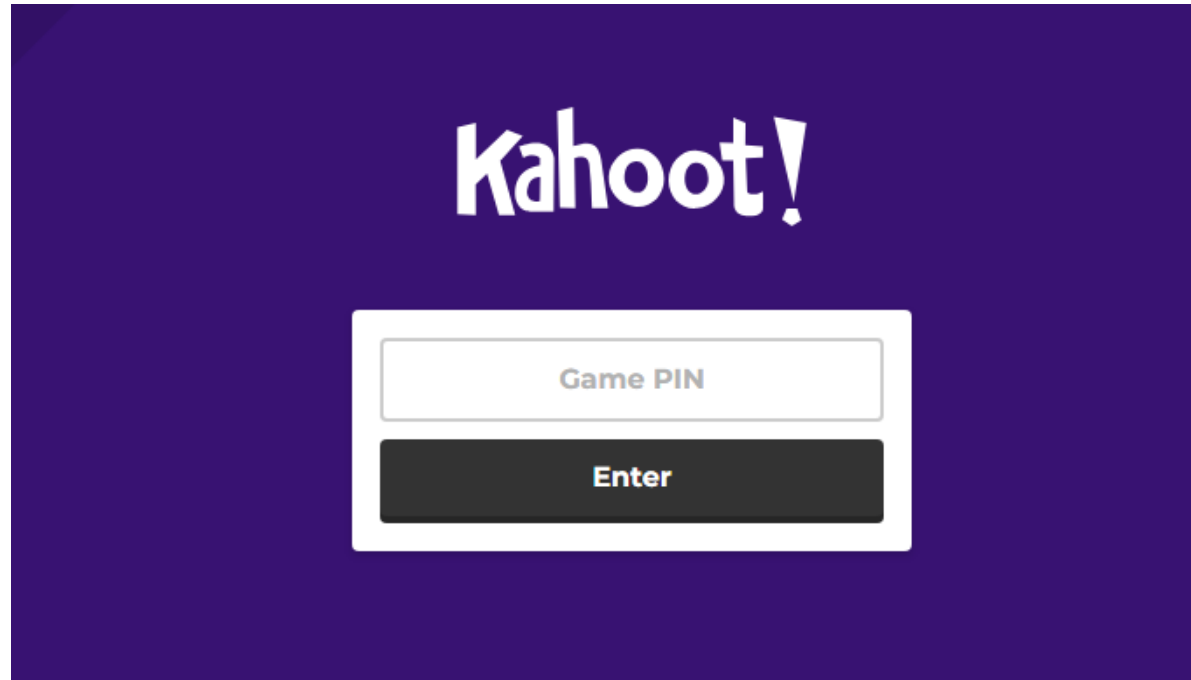
- Office hours will be offered to ask questions
- Reach out with questions before if you can't attend
- Zoom Meeting
 - October 16 at 9 am CT
 - November 6 at 9 am CT

Questions



Kahoot!

- Go to <https://kahoot.it>





United States Department of Agriculture
National Agricultural Statistics Service



NASDA Administrative Items



United States Department of Agriculture
National Agricultural Statistics Service



Recent Response Rates

Coming Soon™



United States Department of Agriculture
National Agricultural Statistics Service




iPad

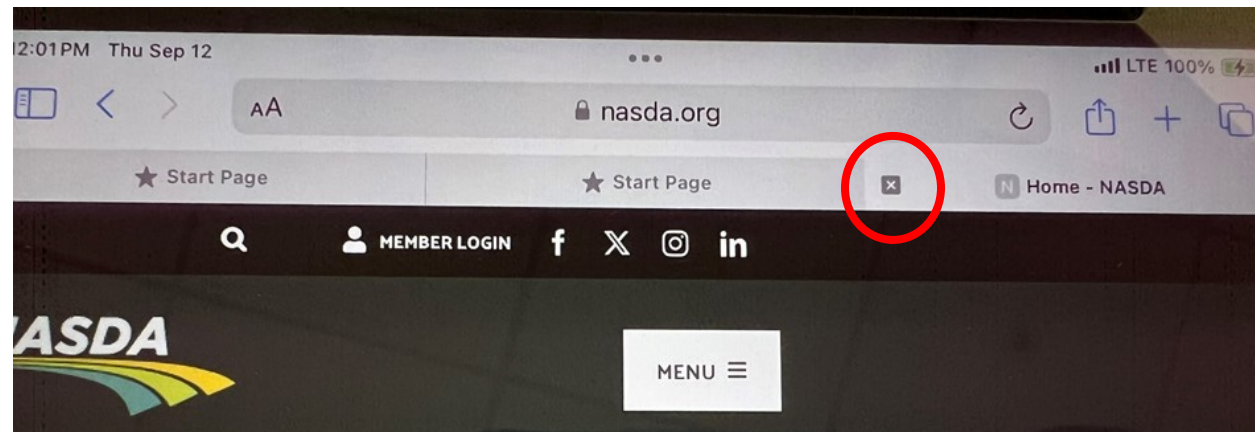


iPad Troubleshooting



- iPad will prompt you to set up a new passcode every 90 days.
- Enter passcode wrong too many times?
 - You will need to re-set up your iPad – Contact your NASDA Coordinator
- Forgot passcode?
 - Call NASDA Coordinator before you enter the wrong too many times. (10 attempts)
 - IT will need to send an unlock code
 - May take up to 48 hours to get iPad reset or unlocked.
- Log onto iPad and CAPI at least 2 days prior to data collection.
- Use your iPad at least once every 30 days so you don't get locked out.

- At the end of the day, make sure to logout of CAPI. 
- Close all windows not being used.
 - Tap on Safari and close all tabs not in use by clicking on the “x”
 - Double click the home button to show all open windows.
 - Swipe up with finger to the top of the screen and let go.





iPad Troubleshooting



- When using CAPI, please make sure you are logged out of iSolved (and close the window).
- When using iSolved, please make sure you are logged out of CAPI (and close the window).



United States Department of Agriculture
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CAPI Dashboard





CAPI Dashboard



Welcome to the CAPI Dashboard! Your one stop shop to access all announcements, training materials, and other information needed. Be sure to check here on a regular basis for any important news!

CAPI "Flash" News 9/12/24: Apple will release iOS 18.0 as an optional update on 9/16/24. This update is not approved to run on your iPad device. Do NOT run this up

[NASDA](#)[iSolved](#)[NASS](#)[Training](#)

Prod System Status:



If you experience repeated issues logging into the CAPI Application on your iPad, please contact your RFO first to help diagnose your issue. Then please try the troubleshooting steps below. If that fails then completely close the application, swipe closed, then try the below URLs for access.



CAPI Troubleshooting



CAPI URLs

CAPI PRODUCTION: <https://www.agcounts.usda.gov/static/capi/index.html>

CAPI TRAINING: <https://capitraining.nass.usda.gov/static/capi/index.html>

Please try these general troubleshooting steps before contacting your CAPI (Point of Contact) POC:

- 1. Clear Preferences on the CAPI log in screen.**
- 2. Clear History and Website Data under the Settings/SAFARI**
- 3. Perform a hard reboot ****

**** Hard reboot instructions for iPads with and without the Home button**

- For iPads with Home Buttons:** hold the power and home button simultaneously until a white apple shows on the screen.
- For iPads without Home Buttons:** Quickly press volume down, then quickly press volume up, then press and hold the hold the power until a white apple shows on the screen



NASDA NPR website



Welcome to the CAPI Dashboard! Your one stop shop to access all announcements, training materials, and other information needed. Be sure to check here on a regular basis for any important news!

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CAPI



CAPI Assignment Listing



	INF	CMT	MAP	ST	CTY	POID	Tra	Sub	OP DOM	SEQ. NUM	DCMS	Name
AGRICULTURAL RESOURCE MANAGEMENT SURVEY - Costs and Returns Report - Version 1 2021-12-31 (904)												
<input type="checkbox"/>				38	029	300034600	1	1	0		220	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				38	029	300046650	1	1	0		220	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				38	047	300171060	1	1	0		220	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				38	029	791074820	1	1	0		260	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				38	029	957000070	1	1	0		260	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				38	029	957014200	1	1	0		260	DOE FARMS INC JOHN DOE

Tap on icon
in the CMT
column to
read
Enumerator
Notes.



CAPI Assignment Listing



Comments

Close

Elmo Comments:

CROPS CE 12/21: Operator reported via CAPI he quit farming and operation was turned over to someone else. 2022 FSA lists target as operator. Left active. EEP/FMG.

Close



CAPI Assignment Listing



	INF	CMT	MAP	ST	CTY	POID	Tra	Sub	OP DOM	SEQ. NUM	DCMS	Name
AGRICULTURAL RESOURCE MANAGEMENT SURVEY - Costs and Returns Report - Version 1 2021-12-31 (904)												
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<input type="checkbox"/>				38	029	791074820	1	1	0		260	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				38	029	957000070	1	1	0		260	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				38	029	957014200	1	1	0		260	DOE FARMS INC JOHN DOE

Tap on icon
in the INF
column to
record
your call
attempts.



CAPI Assignment Listing



Attempted Contacts

Date	Time	Notes	
1/24/2023	9:11:11 AM	Left a message	Edit
1/24/2023	9:00:00 PM	No answer	Edit
			Save



What if I can't get ahold of an operator?



- NASDA – NPR Website -> News & Events -> Lookup Request
- Fill out your
 - Name
 - Email Address
 - State
 - Poid
 - What info you need?
 - Phone # or Address?

News & Events

Enumerator Calendar

Agriculture Stress Handouts

OY Equipment Requests

Lookup Request



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iSolved

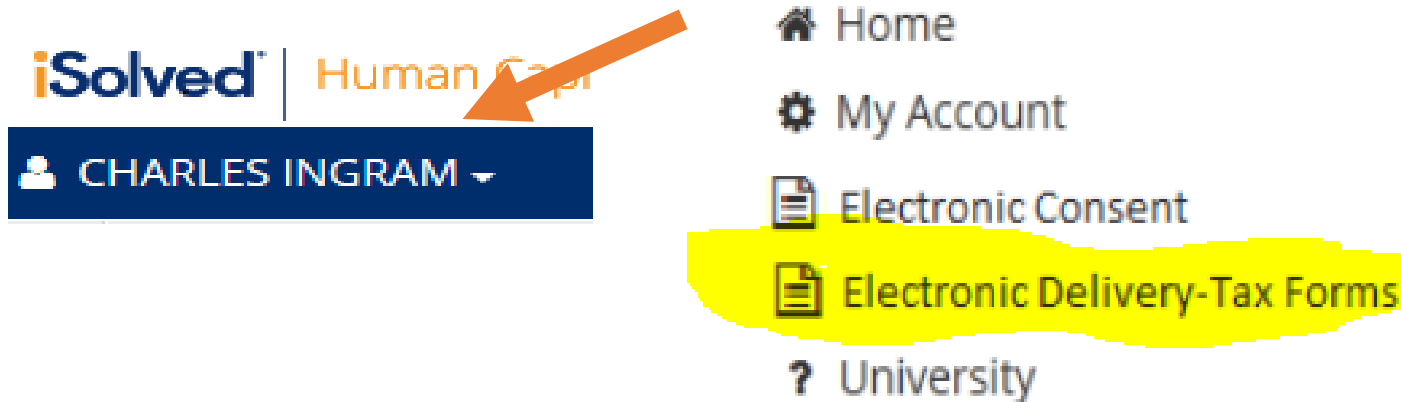


iSolved Tips



- Enter time and verify daily (or days that you work)
- Complete timesheets accurately
 - Project Codes, Hours, Miles, Expenses
- Verify timesheets in the proper order
 - 1st-Enumerator; 2nd-Supervisor; 3rd-NASDA Coordinator
- You may continue to claim cell phone expense every pay period you work and use your cell phone for work.

- W-2s will not be mailed if you consented to electronic delivery.
 - Employee Self-Service > W2/ACA/1099 Forms
 - Will be mailed if you did not consent to electronic delivery
 - If you are new this year, or had to request a mailing this year, check in iSolved.





Expense Reimbursement



- Submit in iSolved
- Receipts are needed for reimbursable expenses.
- Write on the receipt:
 - Name and Enumerator Id
 - Project Code (recorded in iSolved)
 - Description of Expense



Expense Reimbursement



- Receipts need to be sent to your NASDA Coordinator by either option:
 - Email/text an image of the receipt
 - Mail in receipt
- Send in a timely manner
 - For example: expenses occurred September 8 – September 21; make sure the receipts are in the office by September 23.

Assignment Packets Contents

- CEAP material has been sent out for Phase 1
- We will send out material for Phase 2 in October.
 - After Phase 2 eligible points are determined
- Do not destroy ANY CEAP information until after Phase 2 assignments are sent out
- ARMS 2 Assignments will be passed out during your breakout.
 - Assignment listings & Labeled questionnaires
 - Extra supplies

Extra Supplies

- (3) Screening Supplements
- (2) Blank Wheat and Sorghum Questionnaires
- (2) Blank Wheat and Sorghum Respondent Booklets

Extra Supplies – Supervisors

- Quality Control Forms (2 per enumerator)
- Practice Interviews
- Exercise Answers
- Quiz Answers
- Supervisor Breakout Expectations



Travel and Training Time



- Code Monday to Wednesday hours, mileage, and M&IE to CEAP - Project Code 912.
- Code Thursday hours, mileage, and M&IE to ARMS 2 - Project Code 906.
- M & IE
 - Monday, September 16: \$44.25
 - Tuesday, September 17: \$59.00
 - Wednesday, September 18: \$59.00
 - Thursday, September 19: \$44.25



Looking Ahead...



- 2024 Quarterly Zoom Meetings
 - November 21
 - Offered at 9:00 am and 7:00 pm (CT)
 - Plan for 90 minutes
- ARMS 2 Office Hours
 - Wednesday, October 16 @ 9:00 am (CT)
 - Wednesday, November 6 @ 9:00 am (CT)
 - Optional, bring your questions
- CEAP Office Hours
 - Wednesday, November 20 @ 9:00 am (CT)
 - Wednesday, January 8 @ 9:00 am (CT)
 - Optional, bring your questions



Looking Ahead...



- ARMS 3 workshop:
 - TBD.
 - Will be in person.
 - We will send out information as soon as possible.
- NASDA will take the lead on planning during pilot area.



ARMS 2 Reminders



- **October 1 – ARMS 2 Data Collection Begins**
- **October 15 – 1 record** Submitted in CAPI
- **October 30 – 25%** submitted in CAPI
- **November 13 – 50%** submitted in CAPI
- **November 27 – 75%** submitted in CAPI
- **December 6 – Last Day to submit ARMS 2 in CAPI.**
- Plan your contacts around local operator availability.
 - When will they be most busy with harvest? What crop are they selected for?
 - If October is too early in your area, should you set up an appointment for November or just save time now and set aside time to try them later?



CEAP Reminders



- **November 1 – CEAP Data Collection Begins**
- **November 29 – 25%** mailed to St. Louis
- **December 27 – 50%** mailed to St. Louis
- **January 24 – 75%** mailed to St. Louis
- **February 28 – 100% mailed to St. Louis**



CEAP Reminders



- Assignment listings, mailing supplies, and any other supplies will be mailed in October.
- Additional mailing instructions will be included with assignment listings.
- Questionnaires will be shipped to St. Louis.
- No PII on Phase 2 questionnaires.
- Mail early and often.
 - If you have 3 questionnaires, mail them!
 - If you don't think you'll have another one complete soon, mail what you have!
 - If you need more labels – reach out to your NC.
- Do not destroy any CEAP material yet.



CEAP Reminders – Phase 1



- CEAP Phase 1 due: Tuesday, September 24.
- Plan to finish THIS weekend.
- Each point should be completed on nrisurvey.org/ceap.
 - Only eligible points will be in CEAP Phase 2.
- Each point should be completed on CAPI.
 - Enter any contact information changes & comments in CAPI.
 - NO PII in the NRI website.



CEAP Reminders – Phase 1



- CEAP Phase 1 due: Tuesday, September 24.
- Plan to finish THIS weekend.

- Phase 1 Progress (as of 9/13)
- ND: 57% entered on NRI
- SD: 54% entered on NRI
- NE: 41% entered on NRI
- KS: 44% entered on NRI



Friendly Reminders



- Start Early!
 - ARMS 2 – October 1
 - CEAP – November 1
- Keep your supervisor updated with progress and issues.
- Review work before submitting data.
 - “Save for Review” until supervisor instructs you otherwise.
 - Work with your Supervisor on reviewing CEAP questionnaires.
- **Don't forget to mail CEAP questionnaires in**



Friendly Reminders



- Enter your time daily in iSolved.
 - CEAP: Project Code 912.
 - ARMS 2: Project Code 906.
- Please take a moment to complete the workshop evaluation:
 - NPR NASDA Website -> 'ARMS 2' OR 'CEAP' ->
CEAP Phase 2 / ARMS 2 Training Evaluation

Questions

- Call Your Supervisor
- Call Other Enumerators
- Call Your NASDA Coordinator

