2024 CONSERVATION EFFECTS ASSESSMENT PROJECT (CEAP)

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NATIONAL AGRICULTURAL STATISTICS SERVICE

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VERSION	CEAP ID	TRACT	SUBTRACT
1	__ __ __ __ __ __ __ __ __	01	01

		CONTACT RECORD
DATE	TIME	NOTES

INTRODUCTION:

[Introduce yourself, and ask for the operator.]

The information you provide will be used for statistical purposes only. Your response will be kept confidential and any person who willfully discloses ANY identifiable information about you or your operation is subject to a jail term, a fine, or both. This survey is conducted in accordance with the Confidential Information Protection and Statistical Efficiency Act of 2018, Title III of Pub. L. No. 115-435, codified in 44 U.S.C. Ch. 35 and other applicable Federal laws. For more information on how we protect your information please visit: https://www.nass.usda.gov/confidentiality.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB number is 0535-0245. The time required to complete this information collection is estimated to average 74 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The National Agriculture Statistics Service (NASS) is collecting information on land management and conservation practices. The information collected will be used by the Natural Resources Conservation Service (NRCS) to assess the environmental benefits associated with the implementation and installation of conservation practices.

We need your help to make the information as accurate as possible. All conservation practices that are in place should be reported - whether they were installed as part of a Federal or State Cost-Share program, an industry or non-profit program, or by you (the operator) with no outside support. We encourage you to refer to your farm records during the interview.

Response is Voluntary.

0001
1

HHMM

Beginning Time 0004

Military __ __ __ __

A FIELD CHARACTERISTICS — SELECTED FIELD A

1. In 2024, how many acres in the selected field and conservation area containing the sample point were:

		Acres
a. planted or cropped, EXCLUDING greenhouse and nursery crops (selected field)?	+	0017 .___
b. in field borders, grassed waterways, buffers, and other uses associated with conservation practice but not cropped?	+	0018 .___
c. idle cropland or summer fallow (selected field)?	+	0019 .___
d. greenhouse and nursery crops?	+	0020 .___
e. pasture (selected field)?	+	0021 .___
f. continuous conservation cover (selected field)?	+	0016 .___
g. non-ag (such as dwellings, buildings, structures, roads, woodland and wasteland not in a conservation practice)?	+	0022 .___

2. The TOTAL acres in the selected field and conservation area (1a + 1b + 1c +1d + 1e + 1f + 1g) are = Acres 0023 .___

Enumerator Action: If any acres are reported in Item 1a (planted or cropped) or item 1c (idle cropland or summer fallow) Continue, else Go to Conclusion, page 43.

3. During 2024, was any portion of the selected field and/or conservation area of interest enrolled in the continuous Conservation Reserve Program (CRP), the Farmable Wetland Program (FWP), or in the Conservation Reserve Enhancement Program (CREP)?

☐ Yes — Enter 1
☐ No — Enter 3 .....

Code 0732

4. Are the acres in the selected field certified organic or transitioning into certified organic production, as determined by the USDA National Organic Program (NOP) standards? ...

Yes, Certified Organic = 1 Yes, Transitioning = 2 No = 3	2024	2023	2022
	3382	3381	3380

5. Were the majority of the acres in this field (reported in Items 1a or 1c) .....

	2024	2023	2022
1 Owned by this operation?	0504	0503	0502
2 Rented for fixed CASH payment?			
3 Rented for a flexible CASH payment?			
4 Rented for a SHARE of the crop?			
5 Rented for some combination of CASH and a SHARE of the crop?			
6 Used RENT-FREE?			
7 Not operated?			

B CONSERVATION PLAN — SELECTED FIELD/CONSERVATION AREA B

1. Do you have a written Conservation Plan(s) for the selected field and/or conservation area?

   [A "written plan" is a plan prepared in accordance with Federal, State, and/or Conservation District standards.]

This INCLUDES a Conservation Plan, Conservation Compliance (HEL) Plan, or Conservation Plan written as a result of participating in a conservation program, such as:

- Conservation Stewardship Program (CSP)
- Conservation Reserve Program (CRP)
- Conservation Reserve Enhancement Program (CREP)
- Environmental Quality Incentive Program (EQIP)
- Farmable Wetland Program (FWP)
- Agricultural Conservation Easement Program (ACEP)
- Regional Conservation Partnership Program (RCPP)

☐ Yes — [Enter 1 and continue with Item 1a.]

☐ Don't Know — [Enter 2, then go to Item 2.]

☐ No — [Enter 3, then go to Item 2.] .....

	Code
	0701

[Encourage the respondent to get their Conservation Plan to answer the following questions.]

a. Does the written plan include any of the following? (Select all that apply.)

		Code
i. Practices to reduce soil erosion	Yes = 1 No = 3	0702
ii. Nutrient management plan practices	Yes = 1 No = 3	0703
iii. Pest management plan practices	Yes = 1 No = 3	0704
iv. Irrigation water management plan practices	Yes = 1 No = 3	0705
v. Wildlife habitat enhancement practices	Yes = 1 No = 3	0706
vi. Manure management and handling practices	Yes = 1 No = 3	0771
vii. Agricultural water management plan that meets state or local requirements	Yes = 1 No = 3	0742
viii. Soil health management plan practices	Yes = 1 No = 3	0785

2. Did you receive cost share or incentive payments in 2024, 2023, or 2022 for any conservation practices implemented on this field and/or conservation area?

   [Be sure to include payments for establishing grassed waterways and filter strips or riparian buffers on or adjoining the field.]

☐ Yes — [Enter 1 and continue.] ☐ No — [Enter 3, then go to Item 3.]

	Code
	0707

a. If Yes, for what program? (Select all that apply.)

		Code
i. CSP	Yes = 1 No = 3	0786
ii. CRP	Yes = 1 No = 3	0708
iii. CREP	Yes = 1 No = 3	0787
iv. EQIP	Yes = 1 No = 3	0710
v. FWP	Yes = 1 No = 3	0788

		Code
vi. ACEP	Yes = 1 No = 3	0789
vii. RCPP	Yes = 1 No = 3	0790
viii. State Programs	Yes = 1 No = 3	0711
ix. Other	Yes = 1 No = 3	0712

(Specify) 0791 _____

3. Did you receive any help or assistance with the development of:

a. Conservation Plan for this field/conservation area?
[Ask only if there is a written conservation plan for this field, Item 1 = 1 (Yes).]

0780 1 ☐ Yes 3 ☐ No

b. Conservation practices currently in place on this field/conservation area?

0781 1 ☐ Yes 3 ☐ No

c. If Yes to Item 3a or 3b, please identify who provided the assistance for the development of the Conservation Plan and/or conservation practice(s) on the field/conservation area.

INCLUDE:

- assistance for planning, installing, maintaining, or using conservation practices or systems for this land.
- grassed waterways and filter strips or riparian buffers on or adjoining this field.
- assistance from any source whether paid for or free.

Source	Select all that apply Yes = 1	Were you charged for the service? Yes = 1	Which of these was your PRIMARY source of assistance Select only 1 Yes = 1
NRCS	0714	0720	0726
Conservation District	0715	0721	0727
Technical Service Providers (NRCS certified)	0716	0722	0728
Private Consultant (Not NRCS certified)	0747	0760	0762
Trade Organizations	0751	0761	0763
University Extension	0717	0723	0729
State Agencies	0718	0724	0730
Other (Specify) 0792 _____	0719	0725	0731

Completion Code for Conservation Plan	
1 = Incomplete/Refusal	0700

4. In 2024, did the selected field and/or conservation area have any of the following conservation practices? [May or may not be included in the conservation plan.]

Enumerator Action : If the respondent reports "Yes" to any practice, complete the additional questions about that practice. Otherwise, Go to the next practice.

a.	Terraces?	Yes = 1 No = 3	1328
	i. Were these terraces? (1 = primarily grassed; 2 = primarily cropped)	Code	1329
b.	Riparian (stream side) forest buffer?	Yes = 1 No = 3	1333
	i. Width of buffer	Feet	3320
	ii. Species (1 = evergreen; 2 = deciduous; 3 = mixed)	Code	3321
c.	Riparian (stream side) herbaceous non-woody plants buffer?	Yes = 1 No = 3	1334
	i. Width of buffer?	Feet	3322
	ii. Is the buffer maintained, for example, by fertilizing, mowing, or repairing any gullies?	Yes = 1 No = 3	3323
	iii. Is the buffer designed to capture —		
	(a) sediment?	Yes = 1 No = 3	3330
	(b) nutrients?	Yes = 1 No = 3	3331
	(c) pesticide residue?	Yes = 1 No = 3	3332
d.	Field borders?	Yes = 1 No = 3	1337
	i. Width of field border?	Feet	3333
	ii. Is the field border maintained, for example, by fertilizing, mowing, or repairing any gullies?	Yes = 1 No = 3	3334
	iii. Is the field border designed to capture —		
	(a) sediment?	Yes = 1 No = 3	3341
	(b) nutrients?	Yes = 1 No = 3	3342
	(c) pesticide residue?	Yes = 1 No = 3	3343
e.	Filter strips?	Yes = 1 No = 3	1338
	i. Width of filter strip?	Feet	3344
	ii. Is the filter strip maintained, for example, by fertilizing, mowing, or repairing any gullies?	Yes = 1 No = 3	3350
	iii. Is the filter strip designed to capture —		
	(a) sediment?	Yes = 1 No = 3	3352
	(b) nutrients?	Yes = 1 No = 3	3353
	(c) pesticide residue?	Yes = 1 No = 3	3354

		Code
f. Grassed waterways?	Yes = 1 No = 3	1330
g. Vegetative barriers (in-field)?	Yes = 1 No = 3	1331
h. Hedgerow plantings?	Yes = 1 No = 3	1332
i. Windbreak?	Yes = 1 No = 3	1335
j. Herbaceous wind barrier?	Yes = 1 No = 3	3360
k. Contour buffers (in-field)?	Yes = 1 No = 3	1336
l. Critical area planting?	Yes = 1 No = 3	1339
m. Grade stabilization structure?	Yes = 1 No = 3	1340
n. Drainage water management?	Yes = 1 No = 3	3361
o. Irrigation tailwater recovery system?	Yes = 1 No = 3	3373
p. Contour farming?	Yes = 1 No = 3	3362
q. Strip cropping?	Yes = 1 No = 3	3363
r. Alley cropping?	Yes = 1 No = 3	0793
s. Use continuous no-till? If Yes — Continue with Item (i.), If No — Go to Item t	Yes = 1 No = 3	0794
(i.) How many years has the land been continuously managed as a no-till system? Go to Item u?	Years	0795
t. Use reduced, mulch till, or seasonal no-till? If Yes — Continue with Item (i.), If No — Go to Item 5	Yes = 1 No = 3	0796
(i.) How many years has the land been continuously managed as a reduced, mulch till, or seasonal no-till system?	Years	0797

u. What was the primary purpose of shifting to conservation tillage (continuous no-till, seasonal no-till, reduced till, or mulch till)?

1	Soil health
2	Pest management
3	Cost
4	Fuel use
5	Carbon sequestration

Code 0798

5. Have you modified or added any conservation practices for the selected field SPECIFICALLY to improve the quality of fish or wildlife (including pollinators) habitat?

☐ Yes = 1 ☐ No = 3 ☐ Not Applicable = 4 — Code 3364

6. Do you manage the vegetative cover for wildlife (including pollinators) purposes?

☐ Yes = 1 ☐ No = 3 ☐ Not Applicable = 4 — Code 3370

7. Have you installed practices to restore, enhance, or create wetlands?

☐ Yes = 1 ☐ No = 3 ☐ Not Applicable = 4 — Code 0799

C CROPPING HISTORY & CONSERVATION PRACTICES — SELECTED FIELD C

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 Resp. Booklet pg. 4 for codes.]	Code	1005	1037	1069
b. Intended use of Crop(s). [See Respondent Booklet pg. 7 for codes.]	Code	1006	1038	1070
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
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 .___
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

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

		1	2	3
Let's continue with the 2023 crop year.		**2023**	**2023**	**2023**
Did you make day-to-day farming/ranching decisions for this field in 2023? If Yes — Continue. If No — Go to page 9.	Yes = 1 No = 3	0010		
What was/were the :				
Crop(s) planted or Land Use?	Crop			
a. Crop(s) code or Land Use Code. [See Resp. Booklet pg. 4 for codes.]	Code	1101	1133	1165
b. Intended use of Crop(s). [See Respondent Booklet pg. 7 for codes.]	Code	1102	1134	1166
c. Acres planted? [Include previous planted crops.]	Acres	1103 .___	1135 .___	1167 .___
d. Date planted, transplanted, or established? (MM DD YY)	Date	1104 __ __ __ __ __ __	1136 __ __ __ __ __ __	1168 __ __ __ __ __ __
e. Row Width (for row crops)?	Inches	1107 .___	1139 .___	1171 .___
f. Was precision technology used to change seeding rate within the field?	Yes = 1 No = 3	0812	0813	0814
g. Was precision technology used to change crop variety within the field?	Yes = 1 No = 3	0815	0816	0817
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	0818	0819	0820
i. Did you apply soil carbon amendments (e.g., biochar, compost, compost teas, etc.) to improve soil health?	Yes = 1 No = 3	0821	0822	0823
j. Was this crop irrigated?	Yes = 1 No = 3	1125	1157	1189
k. EXPECTED yield/acre at planting (yield goal)?	Number	1108 .___	1140 .___	1172 .___
(1) Unit: [See Respondent Booklet pg. 7 for codes.]	Code	1109	1141	1173
l. Acres harvested?	Acres	1111 .___	1143 .___	1175 .___
(1) Date harvested? (MM DD YY)	Date	1112 __ __ __ __ __ __	1144 __ __ __ __ __ __	1176 __ __ __ __ __ __
m. ACTUAL yield at harvest/acre?	Number	1113 .___	1145 .___	1177 .___
(1) Unit: [See Respondent Booklet pg.7 for codes.]	Code	1114	1146	1178
n. Acres Abandoned or NOT harvested?	Acres	1115 .___	1147 .___	1179 .___
o. Was the grass vegetation, straw, or stubble harvested?	Yes = 1 No = 3	1116	1148	1180
p. Was the field grazed? [If Yes — Enter 1 and continue. If No — Enter 3, Go to Item t.]	Yes = 1 No = 3	1119	1151	1183
q. What type of livestock grazed the field (primarily)? [See Respondent Booklet pg. 7 for codes.]	Code	1120	1152	1184
r. Regardless of ownership, how many head of _____ grazed this field BEFORE harvest or termination?	Head	1121	1153	1185
(1) How many TOTAL days was the field grazed BEFORE harvest or termination?	Days	1122	1154	1186
s. Regardless of ownership, how many head of _____ grazed this field AFTER harvest or termination?	Head	1123	1155	1187
(1) How many TOTAL days was the field grazed AFTER harvest or termination?	Days	1124	1156	1188
t. Was any forage intentionally left behind for wildlife use, cover, and/or shelter?	Yes = 1 No = 3	2622	2623	2624
		Completion Code for 2023 Cropping History		
		1 = Inaccessible/Refusal 3 = Valid Zero		1003

		1	2	3
Let's continue with the 2022 crop year.		**2022**	**2022**	**2022**
Did you make day-to-day farming/ranching decisions for this field in 2022? If Yes, continue. If No, go to page 10.	Yes = 1 No = 3	0011		
What was/were the :				
Crop(s) planted or Land Use?	Crop			
a. Crop(s) code or Land Use Code. [See Resp. Booklet pg. 4 for codes.]	Code	1197	1229	1261
b. Intended use of Crop(s). [See Respondent Booklet pg. 7 for codes.]	Code	1198	1230	1262
c. Acres planted? [Include previous planted crops.]	Acres	1199 .___	1231 .___	1263 .___
d. Date planted, transplanted, or established? (MM DD YY)	Date	1200 __ __ __ __ __ __	1232 __ __ __ __ __ __	1264 __ __ __ __ __ __
e. Row width (for row crops)?	Inches	1203 .___	1235 .___	1267 .___
f. Was precision technology used to change seeding rate within the field?	Yes = 1 No = 3	0824	0825	0826
g. Was precision technology used to change crop variety within the field?	Yes = 1 No = 3	0827	0828	0829
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	0830	0831	0832
i. Did you apply soil carbon amendments (e.g. biochar, compost, compost teas, etc.) to improve soil health?	Yes = 1 No = 3	0833	0834	0835
j. Was this crop irrigated?	Yes = 1 No = 3	1221	1253	1285
k. EXPECTED yield/acre at planting (yield goal)?	Number	1204 .___	1236 .___	1268 .___
(1) Unit: [See Respondent Booklet pg. 7 for codes.]	Code	1205	1237	1269
l. Acres harvested?	Acres	1207 .___	1239 .___	1271 .___
(1) Date harvested? (MM DD YY)	Date	1208 __ __ __ __ __ __	1240 __ __ __ __ __ __	1272 __ __ __ __ __ __
m. ACTUAL yield at harvest/acre?	Number	1209 .___	1241 .___	1273 .___
(1) Unit: [See Respondent Booklet pg.7 for codes.]	Code	1210	1242	1274
n. Acres Abandoned or NOT harvested?	Acres	1211 .___	1243 .___	1275 .___
o. Was the grass vegetation, straw, or stubble harvested?	Yes = 1 No = 3	1212	1244	1276
p. Was the field grazed? [If Yes — Enter 1 and continue. If No — Enter 3, go to Item t.]	Yes = 1 No = 3	1215	1247	1279
q. What type of livestock grazed the field (primarily)? [See Respondent Booklet pg. 7 for codes.]	Code	1216	1248	1280
r. Regardless of ownership, how many head of _____ grazed this field BEFORE harvest or termination?	Head	1217	1249	1281
(1) How many TOTAL days was the field grazed BEFORE harvest or termination?	Days	1218	1250	1282
s. Regardless of ownership, how many head of _____ grazed this field AFTER harvest or termination?	Head	1219	1251	1283
(1) How many TOTAL days was the field grazed AFTER harvest or termination?	Days	1220	1252	1284
t. Was any forage intentionally left behind for wildlife use, cover, and/or shelter?	Yes = 1 No = 3	2625	2626	2627

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

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 pg. 4. 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. 1st year of rotation		1344	1351	1358
ii. 2nd year of rotation		1345	1352	1359
iii. 3rd year of rotation		1346	1353	1360
iv. 4th year of rotation		1347	1354	1361
v. 5th year of rotation		1348	1355	1362
vi. 6th year of rotation		1349	1356	1363

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

1471 1 ☐ Yes — Continue 3 ☐ No — Go to Item 4.

		2024	2023	2022
a. When was the cover crop planted?	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.). Other; 6 Mixed; 7	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

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 ☐ Yes — Continue 3 ☐ No — Go to Item 7. 2 ☐ Don't Know — Go to Item 7.

Code 1341

a. Are the drainage tiles organized in a pattern? .....

Yes = 1
No = 3

Code 1781

[If Yes — Continue. If No — Go to Item 6c.]

b. What is the approximate subsurface (tile) drain spacing? .....

Code 1782

1 — less than 30 ft.	**2** — 30-59 ft.	**3** — 60-100 ft.	**4** — Greater than 100 ft.

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

D COMMERCIAL FERTILIZER APPLICATION — SELECTED FIELD D

1. Were commercial FERTILIZERS applied to the field for:

		Code	Edit Table
a. The 2024 crop?	Yes = 1 No = 3	0221	0234
b. The 2023 crop?	Yes = 1 No = 3	0235	0233
c. The 2022 crop?	Yes = 1 No = 3	0237	0232

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? ..... Yes = 1 No = 3 — Code 0247

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? — Code 0248

1 ☐ Yes — Enter 1, then Continue. 3 ☐ No — Enter 3, then Go to Item 4 .....

a. When were the phosphorus nutrients applied? ..... 0249 MM DD YY — — — — — —

4. What types of information did you use to inform fertilizer application decisions?

		Code
a. Fertilizer costs	Yes = 1 No = 3	0855
b. Current weather conditions	Yes = 1 No = 3	0856
c. Mid to long-term forecasted climate conditions	Yes = 1 No = 3	0857
d. Crop market prices	Yes = 1 No = 3	0858
e. Nutrient Management Plan (right source, method, rate, and timing for the specific field conditions)	Yes = 1 No = 3	0859
f. Availability of application equipment	Yes = 1 No = 3	0860

5. In which of the following years (2024, 2023, and/or 2022) were soil amendments other than nutrients (such as lime or gypsum) added to this field? ..... Yes = 1 No = 3

[If Yes — Continue for that year. If No — for all years, Go to Item 6.]

a. Were the amendments added to address pH, soil structure, or micronutrient-related problems? ..... Yes = 1 No = 3

2024	2023	2022
0283	0285	0287
0284	0286	0288

6. Were any of the following types of soil or tissue tests performed to determine nutrient need on this field?

		Code
a. Pre-plant or pre-sidedress nitrate-nitrogen test	Yes = 1 No = 3	0272
b. Deep soil profile nitrate-nitrogen test (greater than one foot deep)	Yes = 1 No = 3	0273
c. Leaf petiole or leaf tissue tests	Yes = 1 No = 3	0274
d. Post-harvest stalk test	Yes = 1 No = 3	0275
e. Chlorophyll analysis (for example leaf color charts, chlorophyll meters, optical sensors, or remote aerial sensing)	Yes = 1 No = 3	0276

		2024	2023	2022
7. In which of the following years (2024, 2023, and/or 2022) was Global Positioning System (GPS) device used to georeference and/or produce a map of the soil properties of this field (such as soil nitrate levels, pH, etc.)? ..... [If Yes — Any crop year, Continue.] [If No — All crop years, Go to Item 8.]	Yes = 1 No = 3	1299	1310	1321

		2024	2023	2022
a. Was the map based on random sampling?	Yes = 1 No = 3	0277	0279	0281
b. Was the map based on grid sampling?	Yes = 1 No = 3	0278	0280	0282
c. Was the map based on an instrument that measured electrical conductivity of the soil?	Yes = 1 No = 3	1301	1312	1323
8. Was yield monitoring data used to adjust fertilizer application rates within the field?	Yes = 1 No = 3	0861	0862	0863
9. Was in-soil application fertilizer placement (distance from root zone) adjusted for optimal plant availability?	Ye = 1 No = 3	0864	0865	0866
10. Was remote sensing used to monitor nutrient needs? ..... [Remote sensing is the use of satellites or aircraft (planes, drones, etc.) to scan a field to obtain information about the plant or soil conditions within the field.]	Yes = 1 No = 3	0867	0868	0869

Enumerator Action: Was fertilizer applied in 2024? If Yes — Continue. If No — Go to Item 11b.

11a. Now I need to record information for each fertilizer application for the 2024 crop.
Probe for applications made in the fall of 2023 (and those made earlier if this field was fallow) for the 2024 crop year.

CHECKLIST	
INCLUDE	EXCLUDE
☐ Custom applied fertilizers	☐ Micronutrients
☐ Sulfur	☐ Commercially prepared manure
	☐ Unprocessed manure
	☐ Lime and gypsum

Lines in Table	Table 100	0299

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_2O_5	Potassium K_2O	Sulfur S		Code
01	28 24			31	32	33	34	36	37
02	28 24			31	32	33	34	36	37
03	28 24			31	32	33	34	36	37
04	28 24			31	32	33	34	36	37
05	28 24			31	32	33	34	36	37
06	28 24			31	32	33	34	36	37
07	28 24			31	32	33	34	36	37
08	28 24			31	32	33	34	36	37
09	28 24			31	32	33	34	36	37
10	28 24			31	32	33	34	36	37
11	28 24			31	32	33	34	36	37
12	28 24			31	32	33	34	36	37
13	28 24			31	32	33	34	36	37
14	28 24			31	32	33	34	36	37

APPLICATION CODES FOR COLUMN 8	PRODUCT USED TO SLOW BREAKDOWN OF NITROGEN FOR COLUMN 11	FERTILIZER FORM FOR COLUMN 12
1 Broadcast, ground without incorporation 2 Broadcast, ground with incorporation 3 Broadcast by aircraft 4 In seed furrow 5 In irrigation water (fertigation) 6 Chiseled/injected or knifed in 7 Banded/side-dressed on the soil surface 8 Foliar or directed spray	1 Nitrification inhibitor 2 Urease inhibitor 3 Chemical-coated fertilizers (such as sulfur-coated and polymer-coated urea) 4 Other Inhibitors (specify) 0907 _____ 5 None	1 Ammonia-based 2 Not ammonia-based

LINE	7 When was this applied? MM DD YY	8 How was this applied? [Enter code from box above.]	9 How many acres were treated in this application? Acres	10 Was variable rate technology (VRT) used? [Include "on-the-go" sensing.] Yes = 1 No = 3	11 Nitrogen slow-breakdown product [Enter code from box above.]	12 Fertilizer form [Enter code from box above.]	NOTES
01	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
02	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
03	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
04	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
05	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
06	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
07	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
08	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
09	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
10	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
11	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
12	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
13	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
14	30 __ __ __ __ __ __	39	40 . ___	29	26	27	

Enumerator Action: Was fertilizer applied in 2023? If Yes — Continue. If No — Go to Item 11c.

11b. Now I need to record information for each fertilizer application for the 2023 crop.
Probe for applications made in the fall of 2022 (and those made earlier if this field was fallow) for the 2023 crop year.

CHECKLIST	
INCLUDE	EXCLUDE
☐ Custom applied fertilizers	☐ Micronutrients
☐ Sulfur	☐ Commercially prepared manure
	☐ Unprocessed manure
	☐ Lime and gypsum

Lines in Table	Table 200	0299

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_2O_5	Potassium K_2O	Sulfur S		CODE
01	28 23			31	32	33	34	36	37
02	28 23			31	32	33	34	36	37
03	28 23			31	32	33	34	36	37
04	28 23			31	32	33	34	36	37
05	28 23			31	32	33	34	36	37
06	28 23			31	32	33	34	36	37
07	28 23			31	32	33	34	36	37
08	28 23			31	32	33	34	36	37
09	28 23			31	32	33	34	36	37
10	28 23			31	32	33	34	36	37
11	28 23			31	32	33	34	36	37
12	28 23			31	32	33	34	36	37
13	28 23			31	32	33	34	36	37
14	28 23			31	32	33	34	36	37

APPLICATION CODES FOR COLUMN 8	PRODUCT USED TO SLOW BREAKDOWN OF NITROGEN FOR COLUMN 11	FERTILIZER FORM FOR COLUMN 12
1 Broadcast, ground without incorporation 2 Broadcast, ground with incorporation 3 Broadcast by aircraft 4 In seed furrow 5 In irrigation water (fertigation) 6 Chiseled/injected or knifed in 7 Banded/side-dressed on the soil surface 8 Foliar or directed spray	1 Nitrification inhibitor 2 Urease inhibitor 3 Chemical-coated fertilizers (such as sulfur-coated and polymer-coated urea) 4 Other Inhibitors (specify) 0908 _____ 5 None	1 Ammonia-based 2 Not ammonia-based

LINE	7 When was this applied? MM DD YY	8 How was this applied? [Enter code from box above.]	9 How many acres were treated in this application? Acres	10 Was variable rate technology (VRT) used? [Include "on-the-go" sensing.] Yes = 1 No = 3	11 Nitrogen slow-breakdown product [Enter code from box above.]	12 Fertilizer form [Enter code from box above.]	NOTES
01	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
02	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
03	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
04	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
05	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
06	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
07	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
08	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
09	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
10	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
11	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
12	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
13	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
14	30 __ __ __ __ __ __	39	40 . ___	29	26	27	

Enumerator Action: Was fertilizer applied in 2022? If Yes — Continue. If No — Go to Section E.

11c. Now I need to record information for each fertilizer application for the 2022 crop.
Probe for applications made in the fall of 2021 (and those made earlier if this field was fallow) for the 2022 crop year.

CHECKLIST	
INCLUDE	EXCLUDE
☐ Custom applied fertilizers	☐ Micronutrients
☐ Sulfur	☐ Commercially prepared manure
	☐ Unprocessed manure
	☐ Lime and gypsum

Lines in Table	Table 300	0299

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_2O_5	Potassium K_2O	Sulfur S		CODE
01	28 22			31	32	33	34	36	37
02	28 22			31	32	33	34	36	37
03	28 22			31	32	33	34	36	37
04	28 22			31	32	33	34	36	37
05	28 22			31	32	33	34	36	37
06	28 22			31	32	33	34	36	37
07	28 22			31	32	33	34	36	37
08	28 22			31	32	33	34	36	37
09	28 22			31	32	33	34	36	37
10	28 22			31	32	33	34	36	37
11	28 22			31	32	33	34	36	37
12	28 22			31	32	33	34	36	37
13	28 22			31	32	33	34	36	37
14	28 22			31	32	33	34	36	37

APPLICATION CODES FOR COLUMN 8	PRODUCT USED TO SLOW BREAKDOWN OF NITROGEN FOR COLUMN 11	FERTILIZER FORM FOR COLUMN 12
1 Broadcast, ground without incorporation 2 Broadcast, ground with incorporation 3 Broadcast by aircraft 4 In seed furrow 5 In irrigation water (fertigation) 6 Chiseled/injected or knifed in 7 Banded/side-dressed on the soil surface 8 Foliar or directed spray	1 Nitrification inhibitor 2 Urease inhibitor 3 Chemical-coated fertilizers (such as sulfur-coated and polymer-coated urea) 4 Other Inhibitors (specify) 0909 _____ 5 None	1 Ammonia-based 2 Not ammonia-based

LINE	7 When was this applied? MM DD YY	8 How was this applied? [Enter code from box above.]	9 How many acres were treated in this application? Acres	10 Was variable rate technology (VRT) used? [Include "on-the-go" sensing.] Yes = 1 No = 3	11 Nitrogen slow-breakdown product [Enter code from box above.]	12 Fertilizer form [Enter code from box above.]	NOTES
01	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
02	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
03	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
04	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
05	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
06	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
07	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
08	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
09	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
10	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
11	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
12	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
13	30 __ __ __ __ __ __	39	40 . ___	29	26	27	
14	30 __ __ __ __ __ __	39	40 . ___	29	26	27	

E MANURE APPLICATIONS — SELECTED FIELD E

1. Was manure or manure compost applied to this field for the 2024, 2023, or 2022 crop year?

   Manure application includes solids and effluents from waste lagoons, waste holding ponds, and waste runoff storage ponds. (Include commercially prepared manure.)

   [Probe for applications made in the fall of 2021, 2022, and 2023 (and those made earlier if this field was fallow) for the 2022, 2023, and 2024 crop years.]

   1 ☐ Yes — [Enter 1 and continue.]

   3 ☐ No — [Enter 3, then Go to SECTION F.]

0418

2. Now I need to record information for each manure application.

Lines in Table	Table 001	0599

LINE	1 Crop Year YY	2 Primary crop for which nutrients were intended	3 Crop Code [Enter crop code from Respondent Booklet pg. 4.] Code	4 What quantity of manure was applied per acre?	5 Unit (column 4 only) 1 Pounds 3 Tons 4 Bushels 12 Gallons 14 Acre - inches Code	6 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 Code	7 How was the manure handled? 1 Solid 2 Liquid 3 Slurry Code	8 Was manure tested before application? 1 Yes 2 Don't Know (DK) 3 No Code	9 Nitrogen inhibitor applied with manure 1 Nitrification inhibitor 2 Urease inhibitor 3 None Code
01	42 __ __			44 .___	45	46	47	48	59
02	42 __ __			44 .___	45	46	47	48	59
03	42 __ __			44 .___	45	46	47	48	59
03	42 __ __			44 .___	45	46	47	48	59
05	42 __ __			44 .___	45	46	47	48	59
06	42 __ __			44 .___	45	46	47	48	59
07	42 __ __			44 .___	45	46	47	48	59
08	42 __ __			44 .___	45	46	47	48	59
09	42 __ __			44 .___	45	46	47	48	59
10	42 __ __			44 .___	45	46	47	48	59

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

CODES FOR MANURE SOURCE COLUMN 12	
1	Beef cattle
2	Dairy cattle
3	Hogs
4	Sheep/goats
5	Broiler
6	Layer
7	Poultry Breeder
8	Turkey
9	Poultry (other)
10	Equine
11	Bio solids
12	Other (specify) 0911 _____
13	Don't Know

CODES FOR APPLICATION COLUMN 16	
1	Dry broadcast, without incorporation
2	Dry broadcast, with incorporation
3	Liquid broadcast, without incorporation
4	Liquid broadcast, with incorporation
5	Chiseled/injected or knifed in
6	Furrow or basin irrigated
7	Sprinkler irrigated

LINE	10 Results from manure analysis test OR actual amount of nutrients applied [Leave this column blank if column 8=2 or 3.]			11 Unit (column 10 only) [Enter code from box above.]	12 Major source of manure [Enter code from box above.]	13 Was manure composted before application? 1 Yes 2 DK 3 No	14 Composting Method? [Leave this column blank if column 13 = 2 or 3.] 1 Windrow 2 Static pile 3 In-Vessel 4 Other	15 When was this applied?	16 How was this applied? [Enter code from box above.]	17 How many acres were treated in this application?
	Nitrogen N	Phosphorus P_2O_5	Potassium K_2O	Code	Code	Code	Code	MM DD YY	Code	Acres
01	49 .__ __	50 .__ __	51 .__ __	52	53	54	55	56 _ _ _ _ _ _	57	58 .___
02	49 .__ __	50 .__ __	51 .__ __	52	53	54	55	56 _ _ _ _ _ _	57	58 .___
03	49 .__ __	50 .__ __	51 .__ __	52	53	54	55	56 _ _ _ _ _ _	57	58 .___
04	49 .__ __	50 .__ __	51 .__ __	52	53	54	55	56 _ _ _ _ _ _	57	58 .___
05	49 .__ __	50 .__ __	51 .__ __	52	53	54	55	56 _ _ _ _ _ _	57	58 .___
06	49 .__ __	50 .__ __	51 .__ __	52	53	54	55	56 _ _ _ _ _ _	57	58 .___
07	49 .__ __	50 .__ __	51 .__ __	52	53	54	55	56 _ _ _ _ _ _	57	58 .___
08	49 .__ __	50 .__ __	51 .__ __	52	53	54	55	56 _ _ _ _ _ _	57	58 .___
09	49 .__ __	50 .__ __	51 .__ __	52	53	54	55	56 _ _ _ _ _ _	57	58 .___
10	49 .__ __	50 .__ __	51 .__ __	52	53	54	55	56 _ _ _ _ _ _	57	58 .___

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

3. Were the manure application rates to this field influenced by State or local restrictions, by your conservation plan, Nutrient Management Plan (NMP), or Comprehensive Nutrient Management Plan (CNMP)? [If Yes — Enter 1 and continue. If No — Enter 3, then Go to Item 4.] ..... Code 0419

   a. What nutrient requirement basis was used to determine these manure applications? ..... 1 Nitrogen, 2 Phosphorus ..... Code 0420

   b. What was the soil test phosphorus level in the field before the manure application occurred? ..... Soil Test P 0459; Unit Codes: 1 mg/Kg P, 2 ppm P, 3 lbs/acre ..... Code 0460

4. Was the use of commercial fertilizers adjusted on this field in years when manure was applied? [If Yes — Enter 1 and continue. If No — Enter 3, then Go to Item 5.] ..... Code 0421

   a. Was commercial nitrogen reduced? ..... Yes = 1, No = 3 — 0422

   b. Was commercial phosphorus reduced? ..... Yes = 1, No = 3 — 0423

5. How often do you plan to apply manure to this field in future years? .....
   1 No plans to apply manure again
   2 At least once per month
   3 4 times per year
   4 Twice a year
   5 Once a year
   6 Once every 2 years
   7 Once every 3 years or more
   ..... Code 0424

6. Was any manure applied to the selected field Produced on this operation?

Enumerator Action: Manure applied on this field that was produced on this operation should have been reported in Item 2, column 6.

☐ Yes — [Enter 1 and continue.]

☐ No — [Enter 3, then Go to Section F.] ..... Code 0425

7. For each form of manure applied to this field, what type of storage and/or treatment system is used for the bulk of that manure?.....

Solid	Slurry	Liquid
1 stacking slab (open storage) 2 covered slab 3 manure pack 4 barn, shed or house 5 other (specify) 0870 _____ 6 none	7 concrete or steel tank, basin or pit 8 earthen storage facility 9 other (specify) 0871 _____	10 single stage lagoon 11 single stage holding pond 12 2-stage lagoon system with the 2nd stage being a lagoon 13 2-stage lagoon system with the 2nd stage being a holding pond 14 run off storage pond used only for collection of open-lot run off 15 other (specify) 0872 _____
Code 0468	Code 0469	Code 0470

8. For liquid manure stored in lagoon, is a methane digester being used? ..... Yes = 1, No = 3 — Code 0873

9. Were bulking agents (e.g., straw, wood chips, and/or other materials) in addition to existing bedding material added to manure in housing, storage, or during composting? ..... Yes = 1, No = 3 — 0874

F PEST CONTROL APPLICATIONS — SELECTED FIELD F

1. In which of the following years (2024, 2023, and/or 2022) 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.] ..... Yes = 1 No = 3

	2024	2023	2022
	0315	0345	0346
EDIT TABLE	0344	0343	0342

Enumerator Action: If pesticides applied in any year, continue. Complete table for only year(s) specified, else Go to SECTION G.

2. In which of the following years (2024, 2023, and/or 2022) did you select and plant crop cultivars with genetically engineered traits for:

		2024	2023	2022
a. tolerances to specific herbicides(e.g., glyphosate, glufosinate, dicamba or 2,4-D Choline)?	Yes=1 No =3	0350	0360	0361
b. insect resistance (Bt)?	Yes=1 No =3	0912	0913	0914

[For questions 3 - 8 regarding pesticide applications, please report activities done in 2024, 2023, or 2022.]

		Code
3. Did you alter any of your pesticide applications specifically to protect honey bees and/or native pollinators? (For example, utilize an IPM program that specifically protects pollinators, only apply insecticides outside of the bloom period, only apply insecticides at night, etc.)	Yes = 1 No = 3	0348
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
6. Did you select and plant crop seeds that had been commercially treated with fungicides or insecticides?	Yes = 1 No = 3	0349
7. Did you apply practices to reduce potential drift, runoff, or leaching?	Yes = 1 No = 3	0877
8. Did you use precision technology such as GPS, variable rate application, or smart or robotic sprayers?	Yes = 1 No = 3	0878

Enumerator Action: Were any pest control products applied in 2024? If Yes — Continue. If No — Go to Item 10b.

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?	Yes = 1 No = 3	0880

10a. Including both custom applications and applications made by this operation, list all the pest control products used on this field for the 2024 crop(s). [Probe for applications made in the fall of 2023 (and those made earlier if this field was fallow) for the 2024 crop year.]

INCLUDE: herbicides, insecticides, fungicides, defoliants, growth regulators, microbial agents, miticides, nematicides, rodenticides, soil fumigants, and seed treatments. INCLUDE biological and botanical pest control products.	EXCLUDE: fertilizers and adjuvants, (e.g. wetting agents, stickers, spreaders, etc.).

					Lines in Table	Table 100	0399
PRODUCT NAME	LINE	1 Crop Year	2 Primary crop for which control agent was intended.	3 Crop Code [Enter crop code from Respondent Booklet pg. 4.]	4 What products were applied to this field? [Enter product code from Respondent Booklet pg. 10.]	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.]
	01	60 24			61		63
	02	60 24			61		63
	03	60 24			61		63
	04	60 24			61		63
	05	60 24			61		63
	06	60 24			61		63
	07	60 24			61		63
	08	60 24			61		63
	09	60 24			61		63
	10	60 24			61		63
	11	60 24			61		63
	12	60 24			61		63
	13	60 24			61		63
	14	60 24			61		63
	15	60 24			61		63

For pest control products not listed in Respondent Booklet please specify —

Line	Pest Control Product Type (Herbicide, Insecticide, Fungicide, etc.)	EPA Number or Trade name and Formulation	Form Purchased (Liquid or Dry)	Where Purchased (Ask only if EPA Number cannot be reported)

APPLICATION CODES FOR COLUMN 11	
4 Seed furrow	21 Broadcast, ground, incorporated
5 Chemigation (in irrigation water)	31 Broadcast, by aircraft
6 Chisel/injected or knifed in	32 Broadcast, foliar, by aircraft
8 Direct spray, foliar	71 Banded/side dressed
10 Seed treatment by producer prior to planting	73 Banded/side-dressed, foliar
11 Broadcast, ground, not incorporated	76 T-Banded (combo of banded and injected)
13 Broadcast, ground, foliar	77 Broadcast, by drone
	78 Broadcast, foliar, by drone

LINE	7 When was this applied? MM DD YY	8 OR 9 How much was applied per acre per application? / 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
01	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___
02	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___
03	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___
04	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___
05	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___
06	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___
07	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___
08	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___
09	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___
10	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___
11	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___
12	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___
13	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___
14	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___
15	83 __ __ __ __ __ __	65 .__ __ / 73 .__ __	74	76	84	77 .___

Enumerator Action: Were pest control products applied in 2023? If Yes — Continue, If No — Go to Item 10c.

10b. Including both custom applications and applications made by this operation, list all the pest control products used on this field for the 2023 crop(s). [Probe for applications made in the fall of 2022 (and those made earlier if this field was fallow) for the 2023 crop year.]

INCLUDE: herbicides, insecticides, fungicides, defoliants, growth regulators, microbial agents, miticides, nematicides, rodenticides, soil fumigants, and seed treatments. INCLUDE biological and botanical pest control products.	EXCLUDE: fertilizers and adjuvants, (e.g. wetting agents, stickers, spreaders, etc.).

			Lines in Table	Table 200	0399
PRODUCT NAME	LINE	1 Crop Year	2 Primary crop for which control agent was intended.	3 Crop Code [Enter crop code from Respondent Booklet pg. 4.]	4 What products were applied to this field? [Enter product code from Respondent Booklet pg. 10.]	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.]
	01	60 23			61		63
	02	60 23			61		63
	03	60 23			61		63
	04	60 23			61		63
	05	60 23			61		63
	06	60 23			61		63
	07	60 23			61		63
	08	60 23			61		63
	08	60 23			61		63
	09	60 23			61		63
	10	60 23			61		63
	11	60 23			61		63
	12	60 23			61		63
	13	60 23			61		63
	14	60 23			61		63
	15	60 23			61		63

For pest control products not listed in Respondent Booklet please specify —

Line	Pest Control Product Type (Herbicide, Insecticide, Fungicide, etc.)	EPA Number or Trade name and Formulation	Form Purchased (Liquid or Dry)	Where Purchased (Ask only if EPA Number cannot be reported)

APPLICATION CODES FOR COLUMN 11	
4 Seed furrow 5 Chemigation (in irrigation water) 6 Chisel/injected or knifed in 8 Direct spray, foliar 10 Seed treatment by producer prior to planting 11 Broadcast, ground, not incorporated 13 Broadcast, ground, foliar	21 Broadcast, ground, incorporated 31 Broadcast, by aircraft 32 Broadcast, foliar, by aircraft 71 Banded/side-dressed 73 Banded/side-dressed, foliar 76 T-Banded (combo of banded and injected) 77 Broadcast, by drone 78 Broadcast, foliar, by drone

LINE	7 When was this applied? MM DD YY	8 **OR** 9 How much was applied per acre per application? 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
01	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___
02	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___
03	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___
04	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___
05	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___
06	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___
07	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___
08	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___
09	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___
10	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___
11	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___
12	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___
13	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___
14	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___
15	83 __ __ __ __ __ __	65 .__ __ 73 .__ __	74	76	84	77 .___

Enumerator Action : Were pest control products applied in 2022? If Yes — Continue, If No — Go to SECTION G.

10c. Including both custom applications and applications made by this operation, list all the pest control products used on this field for the 2022 crops(s). [Probe for applications made in the fall of 2021 (and those made earlier if this field was fallow) for the 2022 crop year.]

INCLUDE: herbicides, insecticides, fungicides, defoliants, growth regulators, microbial agents, miticides, nematicides, rodenticides, soil fumigants, and seed treatments. INCLUDE biological and botanical pest control products.	EXCLUDE: fertilizers and adjuvants, (e.g. wetting agents, stickers, spreaders, etc.).	Lines in Table	Table 300	0399

PRODUCT NAME	LINE	1 Crop Year	2 Primary crop for which control agent was intended.	3 Crop Code [Enter crop code from Respondent Booklet pg. 4.]	4 What products were applied to this field? [Enter product code from Respondent Booklet pg. 10.]	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.]
	01	60 22			61		63
	02	60 22			61		63
	03	60 22			61		63
	04	60 22			61		63
	05	60 22			61		63
	06	60 22			61		63
	07	60 22			61		63
	08	60 22			61		63
	08	60 22			61		63
	09	60 22			61		63
	10	60 22			61		63
	11	60 22			61		63
	12	60 22			61		63
	13	60 22			61		63
	14	60 22			61		63
	15	60 22			61		63

For pest control products not listed in Respondent Booklet please specify —

Line	Pest Control Product Type (Herbicide, Insecticide, Fungicide, etc.)	EPA Number or Trade name and Formulation	Form Purchased (Liquid or Dry)	Where Purchased (Ask only if EPA Number cannot be reported)

APPLICATION CODES FOR COLUMN 11	
4 Seed furrow 5 Chemigation (in irrigation water) 6 Chisel/injected or knifed in 8 Direct spray, foliar 10 Seed treatment by producer prior to planting 11 Broadcast, ground, not incorporated 13 Broadcast, ground, foliar	21 Broadcast, ground, incorporated 31 Broadcast, by aircraft 32 Broadcast, foliar, by aircraft 71 Banded/side-dressed 73 Banded/side-dressed, foliar 76 T-Banded (combo of banded and injected) 77 Broadcast, by drone 78 Broadcast, foliar, by drone

LINE	7 When was this applied? MM DD YY	8 **OR** 9 How much was applied per acre per application?	 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
01	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___
02	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___
03	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___
04	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___
05	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___
06	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___
07	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___
08	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___
09	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___
10	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___
11	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___
12	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___
13	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___
14	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___
15	83 __ __ __ __ __ __	65 .__ __	73 .__ __	74	76	84	77 .___

G PEST MANAGEMENT PRACTICES — SELECTED FIELD G

Now I have some questions about the pest management decisions and practices used on this field during the 2024 crop year. By pests, we mean INSECTS, WEEDS, and PLANT DISEASES.

1. During 2024, how was this field primarily scouted for pests and/or beneficial organisms? .....

1	By conducting general observations while performing routine tasks. [Enter 1, then Go to Item 3.]
2	By deliberately going to the field specifically for scouting activities. [Enter 2, then Go to Item 2.]
3	This field was not scouted for pests. [Enter 3, then Go to Item 8.]

..... Code 1701

2. Was an established scouting process used in this field (systematic sampling, recording counts, use of insect traps, etc.)? ..... Yes = 1 No = 3 — Code 1702

3. Was scouting for pests done in this field due to:

		Code
a.	a pre-determined schedule or calendar? ..... Yes = 1 No = 3	1773
b.	a pest development model based on degree days, maximum or minimum temperatures, or wetness? ..... Yes = 1 No = 3	1703
c.	a pest advisory warning? ..... Yes = 1 No = 3	1704

4. Were scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in this field? ..... Yes = 1 No = 3 — Code 1714

5. Was this field scouted for:

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

		Code
6. Was scouting for pests done in the field after a pest control application to evaluate degree of control?	Yes = 1 No = 3	1778
7. Were either written or electronic records kept for this field to track the activity or numbers of weeds, insects, or diseases?	Yes = 1 No = 3	1713
8. Was field mapping data (including from unmanned aerial vehicle (UAV) or drone) used for making pest management decisions on this field?	Yes = 1 No = 3	1715
9. Were the services of a diagnostic laboratory used for pest identification or soil or plant tissue pest analysis for this field?	Yes = 1 No = 3	1716

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

		Code
11. Were weather data used to assist in determining either the "need for" or "when to" apply a pest management practice?	Yes = 1 No = 3	1731
12. Other than pesticide applicator training, have you (the operator) attended any training sessions on pest identification and management in the past 3 years?	Yes = 1 No = 3	1746
13. Were floral lures, attractants, repellants, pheromone traps, or other biological pest controls used on this field?	Yes = 1 No = 3	1756

Completion Code for Pest Management Data	
1 = Incomplete/Refusal 3 = Valid Zero	1700

H IRRIGATION — SELECTED FIELD H

Eunumerator 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

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.

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

3. In which of the following years (2024, 2023, or 2022.)

		2024	2023	2022
a. Did you use mid-season drainage?	Yes = 1 No = 3	0882	0883	0884
b. Did you practice winter flooding?	Yes = 1 No = 3	0885	0886	0887
c. Did you practice alternate wetting and drying?	Yes = 1 No = 3	0888	0889	0890

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

	2024	2023	2022
Code	0891	0892	0893

1 Permanent flooding
2 Pinpoint flooding
3 Delayed flooding
4 None of the above

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

	2024	2023	2022
Code	1536	1537	1538

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

	2024	2023	2022
Inches per Acre	3407	3408	3409

		Amount / Acre
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	1541

		Code
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	1542

Please provide the following information for the last test performed on this field:	Salinity Test Value	Unit 1 ppm 2 mg/L 3 microseimens/cm	Nitrate-Nitrogen (NO_3 - N) Test Value	Unit 1 ppm 2 mg/L
a. Surface water	1543	1544	1547	1548
b. Ground water	1545	1546	1549	1550

Enumerator Action: If irrigation system reported in Item 1a, for any year, is a pressure system (Code 1—9), then Continue, else Go to Item 10.

		Code
9. Did you take steps to evaluate or improve the uniformity of water application of your pressure system?	Yes = 1 No = 3	1551

10. Which of the following are sources of your irrigation water? (Select all that apply)

		Code
a. Well	Yes = 1 No = 3	1552
b. Irrigation district	Yes = 1 No = 3	1553
c. River or stream	Yes = 1 No = 3	1554
d. Other Specify: 0894 _____	Yes = 1 No = 3	1555

[If Item 10b = 1, Continue, Else — Go to Item 12.]

11. Which one of the following best describes how you receive your water from the irrigation district?

		Code
a. I receive it when it's my turn	Yes = 1 No = 3	1556
b. I receive it by calling one or more days ahead of when I want it	Yes = 1 No = 3	1557
c. I receive it anytime I want it	Yes = 1 No = 3	1558

		Code
12. Does the source of your water limit your selection of irrigation methods, such as a conversion to a pressurized system?	Yes = 1 No = 3	1559

13. Which of the following are ways you decide when to irrigate? (Select all that apply)

		Code
a. When plants appear dry or stressed	Yes = 1 No = 3	1560
b. When indicated by the calendar or schedule of field operations	Yes = 1 No = 3	1561
c. When water is available	Yes = 1 No = 3	1562
d. On the soil surface appearance or feel, or current climate observations	Yes = 1 No = 3	1563
e. When a target "dryness" value, such as inches depleted, centibars of tension, percent remaining, etc, from soil moisture monitoring devices is reached	Yes = 1 No = 3	1564
f. When a target water use value, such as inches of evapotranspiration (ET) since last irrigation, from root zone water budget and current weather data (California Irrigation Management Information System (CIMIS)) is reached	Yes = 1 No = 3	1568
g. When a target measured plant stress level, such as pressure bomb, canopy temperature, etc., is reached	Yes = 1 No = 3	1569

14. Which of the following are ways you decide how long to apply water at each field location (e.g., set time for manually moved or fixed systems, or speed of automated pressure systems, like a center-pivot)? (Select all that apply)

		Code
a. Observe when the right amount of time has passed, the furrows or border checks appear to be adequately wet, or the water has reached the end of the field	Yes = 1 No = 3	1574
b. Run times based on past experience and schedule of required field operations	Yes = 1 No = 3	1575
c. When the target amount of water (inches or gallons) is applied, the system moves automatically or manually, or is shutoff. (May be calculated from the run time and flow rate.)	Yes = 1 No = 3	1576
d. Field collected data such as from an observation well or soil moisture probe	Yes = 1 No = 3	0895

15. Which of the following are ways you determine how much water is applied? (Select all that apply)

		Code
a. Irrigation district record, report, or bill	Yes = 1 No = 3	1579
b. A flow measuring device	Yes = 1 No = 3	1580
c. Measuring the flows to the field	Yes = 1 No = 3	1582
d. Measuring the flows at the water supply	Yes = 1 No = 3	1583
e. The runtime plus a known system application rate	Yes = 1 No = 3	1584
f. A pump test flow rate and runtime	Yes = 1 No = 3	1585

		Code
16. Do you know how much water the crop(s) removed from the soil? [If Yes, Continue. If No, Go to Item 18.]	Yes = 1 No = 3	1587

17. How did you determine how much water the crop(s) removed from the soil? (Select all that apply)

		Code
a. The current (real time) climate-based measurements such as CIMIS	Yes = 1 No = 3	1588
b. Historic ET data through CIMIS, Cooperative Extension publications, etc	Yes = 1 No = 3	1589
c. Tracking root zone soil moisture changes with electronic probes or other devices	Yes = 1 No = 3	1590

18. In addition to replacing water used by the crop, which of the following were reasons you irrigated? (Select all that apply)

		Code
a. Pre-planting irrigation to refill root zone	Yes = 1 No = 3	1592
b. Apply moisture for seed germination and emergence	Yes = 1 No = 3	1594
c. Freeze protection or crop cooling	Yes = 1 No = 3	1595
d. To apply fertilizer or other chemicals	Yes = 1 No = 3	1596
e. Ground water recharge	Yes = 1 No = 3	1597

19. If other practices were used to improve water applications, what were the three primary practices?

List up to three practices. [See Respondent Booklet pg. 38 for codes.]

1565	1566	1567

		Code
20. During and after each irrigation, do you defer grazing animals from the field until soil is no longer saturated?	Yes = 1 No = 3	3410
21. Do you manage irrigation to address salinity problems in this field?	Yes = 1 No = 3	1539

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

I FIELD OPERATIONS — SELECTED FIELD I

1. Including custom operations, what operations were performed by hand or machines on this field for the 2024, 2023, and 2022 crop years?
   - Begin with the first field operation for the 2024 crop (after harvesting of 2023 crop)
   - List the operations in order by crop year, through harvest
   - Maintain the order of tandem hook-ups
   - Include field operations performed by hand

   a. Let's start with the 2024 crop year

Lines in Table	Table 100	0499

CHECK LIST

INCLUDE all field work done by hand or using machines for

☐ Land Forming ☐ Planting ☐ Hauling within field
☐ Tillage ☐ Harvesting ☐ Residue Management
☐ Preparing for Irrigation before seeding
☐ Custom Operations ☐ Pruning, hedging, topping

EXCLUDE all field work done by hand or using machines for

☐ Lime & Gypsum applications
☐ Fertilizers, Manure & Pesticides applications
☐ Hauling from field edge to storage

LINE	1 Crop Year Year	2 Sequence Number Number	3 What crop was associated with this operation? Crop Name	4 Crop Code [Record from Respondent Booklet pg. 4.] Code	5 What operation or equipment was used on this field?	6 Machine Code [Record from Respondent Booklet pg. 39.] Code	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				88	99	96 __ __ __ __ __ __	97 .___
02	86 **24**	87				88	99	96 __ __ __ __ __ __	97 .___
03	86 **24**	87				88	99	96 __ __ __ __ __ __	97 .___
04	86 **24**	87				88	99	96 __ __ __ __ __ __	97 .___
05	86 **24**	87				88	99	96 __ __ __ __ __ __	97 .___
06	86 **24**	87				88	99	96 __ __ __ __ __ __	97 .___
07	86 **24**	87				88	99	96 __ __ __ __ __ __	97 .___
08	86 **24**	87				88	99	96 __ __ __ __ __ __	97 .___
09	86 **24**	87				88	99	96 __ __ __ __ __ __	97 .___
10	86 **24**	87				88	99	96 __ __ __ __ __ __	97 .___
11	86 **24**	87				88	99	96 __ __ __ __ __ __	97 .___
12	86 **24**	87				88	99	96 __ __ __ __ __ __	97 .___
13	86 **24**	87				88	99	96 __ __ __ __ __ __	97 .___
14	86 **24**	87				88	99	96 __ __ __ __ __ __	97 .___
15	86 **24**	87				88	99	96 __ __ __ __ __ __	97 .___

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

b. Now let's continue with the 2023 crop year.

- Begin with the first field operation for the 2023 crop (after harvesting of 2022 crop.)

Lines in Table	TABLE 200	0499

CHECK LIST

INCLUDE all field work done by hand or using machines for

☐ Land Forming ☐ Planting ☐ Hauling within field
☐ Tillage ☐ Harvesting ☐ Residue Management
☐ Preparing for Irrigation before seeding
☐ Custom Operations ☐ Pruning, hedging, topping

EXCLUDE all field work done by hand or using machines for

☐ Lime & Gypsum applications
☐ Fertilizers, Manure & Pesticides applications
☐ Hauling from field edge to storage

LINE	1 Crop Year Year	2 Sequence Number Number	3 What crop was associated with this operation? Crop Name	4 Crop Code [Record from Respondent Book pg. 4]. Code	5 What operation or equipment was used on this field?	6 Machine Code [Record from Respondent Booklet pg. 39.] Code	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 **23**	87				88	99	96 __ __ __ __ __ __	97 .___
02	86 **23**	87				88	99	96 __ __ __ __ __ __	97 .___
03	86 **23**	87				88	99	96 __ __ __ __ __ __	97 .___
04	86 **23**	87				88	99	96 __ __ __ __ __ __	97 .___
05	86 **23**	87				88	99	96 __ __ __ __ __ __	97 .___
06	86 **23**	87				88	99	96 __ __ __ __ __ __	97 .___
07	86 **23**	87				88	99	96 __ __ __ __ __ __	97 .___
08	86 **23**	87				88	99	96 __ __ __ __ __ __	97 .___
09	86 **23**	87				88	99	96 __ __ __ __ __ __	97 .___
10	86 **23**	87				88	99	96 __ __ __ __ __ __	97 .___
11	86 **23**	87				88	99	96 __ __ __ __ __ __	97 .___
12	86 **23**	87				88	99	96 __ __ __ __ __ __	97 .___
13	86 **23**	87				88	99	96 __ __ __ __ __ __	97 .___
14	86 **23**	87				88	99	96 __ __ __ __ __ __	97 .___
15	86 **23**	87				88	99	96 __ __ __ __ __ __	97 .___

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

c. Now let's continue with the 2022 crop year.

- Begin with the first field operation for the 2022 crop (after harvesting of 2021 crop.)

Lines in Table	TABLE 300	0499

CHECK LIST

INCLUDE all field work done by hand or using machines for

☐ Land Forming ☐ Planting ☐ Hauling within field
☐ Tillage ☐ Harvesting ☐ Residue Management
☐ Preparing for Irrigation before seeding
☐ Custom Operations ☐ Pruning, hedging, topping

EXCLUDE all field work done by hand or using machines for

☐ Lime & Gypsum applications
☐ Fertilizers, Manure & Pesticides applications
☐ Hauling from field edge to storage

LINE	1 Crop Year Year	2 Sequence Number Number	3 What crop was associated with this operation? Crop Name	4 Crop Code [Record from Respondent Book pg. 4.] Code	5 What operation or equipment was used on this field? 	6 Machine Code [Record from Respondent Booklet pg. 39.] Code	7 Was this operation used to incorporate a fertilizer or manure application? Yes = 1 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 **22**	87				88	99	96 __ __ __ __ __ __	97 .___
02	86 **22**	87				88	99	96 __ __ __ __ __ __	97 .___
03	86 **22**	87				88	99	96 __ __ __ __ __ __	97 .___
04	86 **22**	87				88	99	96 __ __ __ __ __ __	97 .___
05	86 **22**	87				88	99	96 __ __ __ __ __ __	97 .___
06	86 **22**	87				88	99	96 __ __ __ __ __ __	97 .___
07	86 **22**	87				88	99	96 __ __ __ __ __ __	97 .___
08	86 **22**	87				88	99	96 __ __ __ __ __ __	97 .___
09	86 **22**	87				88	99	96 __ __ __ __ __ __	97 .___
10	86 **22**	87				88	99	96 __ __ __ __ __ __	97 .___
11	86 **22**	87				88	99	96 __ __ __ __ __ __	97 .___
12	86 **22**	87				88	99	96 __ __ __ __ __ __	97 .___
13	86 **22**	87				88	99	96 __ __ __ __ __ __	97 .___
14	86 **22**	87				88	99	96 __ __ __ __ __ __	97 .___
15	86 **22**	87				88	99	96 __ __ __ __ __ __	97 .___

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

J **WHOLE FARM** — SELECTED FIELD **J**

TOTAL ACRES IN THIS OPERATING ARRANGEMENT

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.)

1. During the 2024 crop year, how many total acres did this operation:

		Acres
a. Own?	+	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 .___

   a. Have I accounted for the farmstead, all cropland, pastureland, wasteland, wetland, woodland and government program land in this operation?

   1 ☐ Yes — Continue 3 ☐ No — Make corrections, then continue.

	Acres
3. Of the total (Item 2) acres operated, how many acres are considered cropland, including land in hay and cropland in government programs?	1905 .___
4. Of the total (Item 2) acres operated, how many acres are considered pastureland?	1906 .___

K OPERATOR AND OPERATION CHARACTERISTICS K

1. In 2024, was this operation's LEGAL STATUS.....

1	Individual (Sole/Family Proprietorship)?
2	A Legal Partnership?
3	A Family-Held Corporation?
4	A Non-Family Corporation?
5	Other (including estates, trusts, and cooperatives)?

(specify) 0896 _____

..... Code 1912

2. What is the highest level of formal education you (the operator) have completed?.....

1	Less than a high school diploma
2	High school diploma or equivalency (GED)
3	Some college
4	Completed a 4 year degree (BA or BS)
5	Graduate school

..... Code 1914

3. In what year did you (the operator) begin making day-to-day decisions for any farm/ranch? ..... YYYY 1915 __ __ __ __

4. Is the operator of Hispanic, Latin, or Spanish origin? ..... Yes = 1 No = 3 — Code 0897

5. What is the operator's race? [Select all that apply.]

		Code
a.	American Indian or Alaska Native	Yes = 1 No = 3 — 0898
b.	Asian	Yes = 1 No = 3 — 0899
c.	Black or African American	Yes = 1 No = 3 — 0900
d.	Middle Eastern or North African	Yes = 1 No = 3 — 0901
e.	Native Hawaiian or Other Pacific Islander	Yes = 1 No = 3 — 0910
f.	White	Yes = 1 No = 3 — 0902
g.	Not Listed	Yes = 1 No = 3 — 0903

(specify) 0904 _____

6. What code represents the respondent's military status in the U.S. Armed Forces, Reserves, or National Guard?

1. Never served in the military
2. Only on active duty for training in the Reserves or National Guard
3. Now on active duty
4. On active duty in the past, but not now

..... Code 0905

7. How many years have you been continously managing a forest, farm, or ranch operation? ..... 0906 __ __

8. At what occupation did the operator spend the majority (50 percent or more) of his/her time in 2024? .....

Mark One

0920

1 ☐ Forestry, farm, or ranch work

2 ☐ Work other than forestry, farm, or ranch work

9. Now I would like to classify the total acres operated in terms of total gross value of sales.

Considering —

- all crops sold,
- all livestock, poultry (including commercial broilers), and products (milk, eggs, etc.) sold,
- all sales of crops, livestock, or poultry produced under contract,
- all sales of any miscellaneous agricultural products,
- all government payments received, and
- landlord's share of government payments and crops sold in 2024.

What code represents the total gross value of sales for this operation in 2024?

99	None during 2024		
1	$1	—	$999
2	$1,000	—	$2,499
3	$2,500	—	$4,999
4	$5,000	—	$9,999
5	$10,000	—	$24,999
6	$25,000	—	$49,999
7	$50,000	—	$99,999
8	$100,000	—	$249,999
9	$250,000	—	$499,999
10	$500,000	—	$999,999
11	$1,000,000	—	$2,499,999
12	$2,500,000	—	$4,999,999
13	$5,000,000	—	over

Code

..... 1916

Code

10. Of the farm income reported, which of these categories represents the largest portion of the gross income from the operation? 1917

Farm Type Codes

1	Grains, Oilseeds, and Dry Beans	9	Hogs and Pigs
2	Tobacco	10	Milk and Other Dairy Products from Cows
3	Cotton and Cottonseed	11	Cattle and Calves
4	Vegetables, Melons, and Potatoes	12	Sheep, Goats, and their Products
5	Fruit Trees, Nuts, Grapes, Citrus, and Berries	13	Horses, Ponies, and Mules
6	Nursery, Greenhouse, Floriculture, and Sod	14	Poultry and Eggs
7	Cut Christmas Trees and Short Woody Crops	15	Aquaculture
8	Other Crops and Hay, CRP, and Pasture	16	Other Animals and other Animal Products

CONCLUSION

RECORDS USE

1. Did respondent use farm/ranch records to report:

		Code
a. fertilizer data?	Yes=1 No =3	0026
b. pest control data?	Yes=1 No =3	0027
c. manure data?	Yes=1 No =3	0028
d. livestock grazing data?	Yes=1 No =3	0035

		Code
2. Did respondent use a written Conservation Plan to complete Section B?	Yes=1 No =3	0029

Supplements Used:

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

	Military Time HHMM
Ending Time (Military)	0005 __ __ __ __

	Total Hours
	0006 .__

9910	MM	DD	YY
Date:	__ __	__ __	__ __

3. Comments related to the information you reported:

1511

OFFICE USE ONLY												
Response		Respondent		Mode		Enum.	Eval.	Change	Office Use for POID			
1-Comp 2-R 3-Inac 4-Office Hold 5-R – Est 6-Inac – Est 7-Off Hold – Est	9901	1-Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Oth	9902	1-PASI (Mail) 2-PATI (Tel) 3-PAPI (Face-to-Face) 6-Email 7-Fax 19-Other	9903	9998	9900	9985	9989 __ __ __ - __ __ __ - __ __ __			
							R. Unit		Optional Use			
							9921		9907	9908	9906	9916
S/E Name												