CONSERVATION EFFECTS ASSESSMENT PROJECT (CEAP) - 2013

OMB No. 0535-0245
Approval Expires: 10/31/2014
Project Code: 912 QID: 072050
SMetaKey: 3273

NATIONAL AGRICULTURAL STATISTICS SERVICE

U.S. Department of Agriculture,
Rm 5030, South Building
1400 Independence Ave., S.W.
Washington, DC 20250-2000
Phone: 1-800-727-9540
Fax: 202-690-2090
Email: nass@nass.usda.gov

VERSION	CEAP ID	TRACT	SUBTRACT	T-TYPE	TABLE	LINE
1	__ __ __ __ __ __ __ __ __ __	01	01	0	000	00

		CONTACT RECORD
DATE	TIME	NOTES

INTRODUCTION
[*Introduce yourself, and ask for the operator.*]

The National Agricultural Statistics Service 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.

Authority for collection of information on the Conservation Effects Assessment Project Report is under Title 7 of the U.S. Code and CIPSEA (Public Law 107-347). Response to this survey is **confidential** and **voluntary**. You may skip any question(s) you prefer not to answer.

0001
1

H H M M

BEGINNING TIME
[*MILITARY*]

0004
__ __ __ __

SCREENING

Determine the Area of Interest

To focus the respondent on the area of interest, the location must be identified as follows.

1. **Selected field**
   - For purposes of this survey, the actual field where the sample point is located must be identified. This location is referred to as the **selected field**.
   - The survey collects information about conservation practices, cropping history and management practices being undertaken in the **selected field**.

2. **Conservation practices associated with the field.**
   - Sometimes conservation practices are not actually located in the selected field but are adjacent to or **adjoining** the field (such as a wind break or filter strip). These practices should also be captured during the survey.
   - For CEAP purposes, this area is referred to as the **conservation area**.

During this interview, the questions will be about the SELECTED FIELD and/or the associated CONSERVATION AREA.

SCREENING – NO SIGNAL AVAILABLE

ENUMERATOR NOTE: [*Show the aerial photography to respondent and locate the sample point. Identify the field associated with the point.*]

1. **Did you make any of the day-to-day farming/ranching decisions for the field containing this point in 2013?**

   ☐ **Yes** – [*If **Yes** continue.*]
   ☐ **No** – [*If **No**, conclude the interview and ask for the respondent's assistance in locating the correct operator.*]

ENUMERATOR NOTE: [*With the respondent, draw off the entire area that can be identified as the selected field and associated conservation area.*]

2. **In 2013, was any part of this field:**
   - planted to a crop? (**excluding** greenhouse and nursery crops);
   - pasture?;
   - idle cropland?; or
   - summer fallow?

CODE

☐ **Yes** – [*Enter 1, then go to item 5.*] ☐ **No** – [*Enter 3, then go to item 3.*]. . . . . ☐

3. **During 2013, was the entire field enrolled in continuous conservation cover?**
   [**Include** the General or Continuous Conservation Reserve Program (CRP), the Conservation Reserve Enhancement Program (CREP), or any other type of continuous cover conservation program offered by State, local or non-profit organizations.]

CODE

☐ **Yes** – [*Enter 1, then go to item 5.*] ☐ **No** – [*Enter 3, then go to item 5.*]. . . . . ☐

4. **Was the wireless internet signal present at the time of the screening interview?**

CODE

☐ **Yes** – [*Enter 1.*]
☐ **No** – [*Enter 3.*]. . . . . ☐

ENUMERATOR ACTION: If questions 2 **or** 3 = 1 (**Yes**), continue, and complete the interview.
If questions 2 **and** 3 = 3 (**No**), conclude the interview.

A FIELD CHARACTERISTICS---SELECTED FIELD A

1. **In 2013, 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 practices 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)?	+	xxx ___
g.	non-ag (*such as dwellings, buildings, structures, roads, and woodland and wasteland not in a conservation practice*)?	+	0022 ___

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

ENUMERATOR NOTE: [*If any acres are reported in 1a (planted or cropped), 1c (idle cropland or summer fallow), 1e (pasture), or 1f (continuous conservation cover) continue, else, go to Conclusion.*]

3. **During 2013, 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)**?

CODE 0732

☐ **Yes -** [*Enter 1.*]
☐ **No -** [*Enter 3.*]

4. **Was this field considered organic acreage**? **Yes = 1**

2013	2012	2011
3382	3381	3380

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

1 Owned by this operation?
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?

2013	2012	2011
0504	0503	0502

6. **Are the day-to-day decisions for this operation made by one individual, partners, or a hired manager?**

☐ One individual [*Enter 1.*]
☐ Partners [*Enter **number of partners** **(2-5)**, involved in the day-to-day decisions, including the operator].*
☐ A hired manager [*Enter 8.*]

CODE 0921

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, 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 Reserve Program (CRP)
- Environmental Quality Incentive Program (EQIP) Plan
- Wetland Reserve Program (WRP) Plan
- Wildlife Habitat Incentive Program (WHIP) Plan
- Grazing Land Reserve Program (GRP) Plan
- Agricultural Water Enhancement Program (AWEP) Plan
- Nutrient Management Plan or Comprehensive Nutrient Management Plan

	CODE
☐ **Yes –** [*Enter 1, and continue with Item a.*]	
☐ **Don't Know –** [*Enter 2, then go to Item 2.*]	0701
☐ **No –** [*Enter 3, then go to Item 2.*]	

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

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

		CODE
(i) Practices to reduce soil erosion?	**Yes =1**	0702
(ii) Nutrient management plan practices?	**Yes =1**	0703
(iii) Pest management plan practices?	**Yes =1**	0704
(iv) Irrigation water management plan practices?	**Yes =1**	0705
(v) Wildlife habitat enhancement practices?	**Yes =1**	0706
(vi) Manure management and handling practices?	**Yes =1**	0771
(vii) Agricultural water management plan that meets state or local requirements?	**Yes =1**	xxx

2. **Did you receive cost share or incentive payments in 2013, 2012, or 2011 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.*]

	CODE
☐ **Yes –** [*Enter 1, and continue.*]	
☐ **No –** [*Enter 3, then go to Item* 3.]	0707

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

		CODE
(i) Conservation Security Program (CSP).	**Yes =1**	0772
(ii) CRP.	**Yes =1**	0708
(iii) WRP.	**Yes =1**	0709
(iv) EQIP.	**Yes =1**	0710
(v) AWEP.	**Yes =1**	xxx
(vi) State Programs.	**Yes =1**	0711
(vii) Other (*specify*) _____	**Yes =1**	0712
(vii) Don't Know.	**Yes =1**	0713

3. **Did you receive any help for 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).*]
  - ☐ **Yes** – [*Check box then go to item a.*]
  - ☐ **No** – [*Check box and continue.*]

- conservation practices currently in place on this field/conservation area?
  - ☐ **Yes** – [*Check box and continue.]*
  - ☐ **No** – [*Check box then go to **Section C**.*]

a. If **Yes**, please identify who provided the assistance for the development of the Conservation Plan and/or conservation practice(s) on this field/conservation area.

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

Source	[*Mark 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	xxx	xxx	xxx
Trade Organizations.	xxx	xxx	xxx
University Extension.	0717	0723	0729
State Agencies.	0718	0724	0730
Other (*specify*:_____).	0719	0725	0731

Completion Code for Conservation Plan	
1 = Incomplete/Refusal	0700

4. **In 2013, 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, skip to the next practice.*]

a.	Terraces?	Yes = 1	1328
	(i) Were these terraces: (1 = primarily grassed, 2 = primarily cropped)	Code	1329
b.	Stream side forest buffer?	Yes = 1	1333
	(i) Width of buffer?	Feet	3320
	(ii) Species: (1 = evergreen, 2 = deciduous, 3 = mixed)	Code	3321
c.	Stream side herbaceous buffer?	Yes = 1	1334
	(i) Width of buffer?	Feet	3322
	(ii) Is the buffer maintained, for example, by fertilizing, mowing, or repairing any gullies?	Yes = 1	3323
	(iii) Is the buffer designed to capture---		
	(1) sediment?	Yes = 1	3330
	(2) nutrients?	Yes = 1	3331
	(3) pesticide residue?	Yes = 1	3332
d.	Field borders?	Yes = 1	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	3334
	(iii) Is the field border designed to capture---		
	(1) sediment?	Yes = 1	3341
	(2) nutrients?	Yes = 1	3342
	(3) pesticide residue?	Yes = 1	3343
e.	Filter strips?	Yes = 1	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	3350
	(iii) Is the filter strip designed to capture---		
	(1) sediment?	Yes = 1	3352
	(2) nutrients?	Yes = 1	3353
	(3) pesticide residue?	Yes = 1	3354

		CODE
f. Grassed waterways?	Yes = 1	1330
g. Vegetative barriers (in-field)?	Yes = 1	1331
h. Hedgerow plantings?	Yes = 1	1332
i. Windbreak?	Yes = 1	1335
j. Herbaceous wind barrier?	Yes = 1	3360
k. Contour buffers (in-field)?	Yes = 1	1336
l. Critical area planting?	Yes = 1	1339
m. Grade stabilization structure?	Yes = 1	1340
n. Drainage water management?	Yes = 1	3361
(i.) Are water tables managed for – (**Include** above ground and below ground water levels)		
(1) Reduction of nutrient, pathogen, pesticide, and other contaminant losses from the field?	Yes = 1	xxx
(2) Seasonal wildlife habitat?	Yes = 1	xxx
(3) Weed control?	Yes = 1	xxx
(4) Managing crop residue?	Yes = 1	xxx
(5) Conserving soil organic matter?	Yes = 1	xxx
(6) Reducing wind erosion and particulate emissions?	Yes = 1	xxx
(7) Other purposes? Specify: _____	Yes = 1	xxx
o. Irrigation tailwater recovery system?	Yes = 1	xxx
p. Contour farming?	Yes = 1	3362
q. Strip cropping?	Yes = 1	3363
r. Other? (*Specify* _____)	Yes = 1	2450

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

CODE 3364

☐ **Yes**= **1** ☐ **No** = **3** ☐ **Not Applicable** = **4**

6. **Do you manage the vegetative cover for wildlife purposes?**

CODE 3370

☐ **Yes** = **1** ☐ **No** = **3** ☐ **Not Applicable** = **4**

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 crops, 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 2013 crop year. What was/were the:		**2013**	**2013**	**2013**
Crop(s) planted or Land Use?	**Crop**			
1. Crop(s) code or Land Use Code. [***See Respondent Booklet for codes***.]	**Code**	1005	1037	1069
2. Intended use of Crop(s)? **[*See Respondent Booklet for codes.*]**	**Code**	1006	1038	1070
3. Acres planted? [***Include*** *previous planted crops*.]	**Acres**	1007 .__	1039 .__	1071 .__
4. Date planted? (*mmddyy*)	**Date**	1008 __ __ __ __ __ __	1040 __ __ __ __ __ __	1072 __ __ __ __ __ __
5. Row Width (*for row crops*)?	**Inches**	1011 .__	1043 .__	1075 .__
6. Spacing between rows (*for orchards and vineyards*)?	**Feet**	xxxx	xxxx	xxxx
7. Spacing between plants within rows (*for orchards and vineyards*)?	**Feet**	xxxx	xxxx	xxxx
8. **Expected** yield/acre at planting (*yield goal*)?	**Number**	1012 .__	1044 .__	1076 .__
a. Unit: **[*See Respondent Booklet for codes.*]**	**Code**	1013	1045	1077
9. Type of tillage used? **[See Respondent Booklet for codes.]**	**Code**	1014	1046	1078
10. Acres harvested?	**Acres**	1015 .__	1047 .__	1079 .__
a. Date harvested? (*mmddyy*)	**Date**	1016 __ __ __ __ __ __	1048 __ __ __ __ __ __	1080 __ __ __ __ __ __
11. **Actual** yield at harvest/acre?	**Number**	1017 .__	1049 .__	1081 .__
a. Unit: **[*See Respondent Booklet for codes.*]**	**Code**	1018	1050	1082
12. Acres abandoned?	**Acres**	1019 .__	1051 .__	1083 .__
13. Was this crop irrigated?	**Yes=1 No=3**	1029	1061	1093
14. Was the grass vegetation, straw, or stubble harvested? *If **Yes**, enter 1 and continue. If **No**, enter 3 then go to question 15.*	**Yes=1 No=3**	1020	1052	1084
a. How many acres of grass vegetation, straw, or stubble were harvested?	**Acres**	1021 .__	1053 .__	1085 .__
b. What was the remaining stubble height after harvest?	**Inches**	1022	1054	1086
15. Was the field grazed? *If **Yes**, enter 1 and continue. If **No**, enter 3 then go to page 9.*	**Yes=1 No=3**	1023	1055	1087
16. What type of livestock grazed the field (primarily)? **[*See Respondent Booklet for codes.*]**	**Code**	1024	1056	1088
17. Regardless of ownership, how many head of _____ grazed this field **BEFORE** harvest?	**#/Head**	1025	1057	1089
a. How many **total** days was the field grazed **BEFORE** harvest?	**#/Days**	1026	1058	1090
b. Was supplemental feed supplied to livestock?	**Yes = 1 No=3**	1411	1413	1422
18. Regardless of ownership, how many head of _____ grazed this field **AFTER** harvest?	**#/Head**	1027	1059	1091
a. How many **total** days was the field grazed **AFTER** harvest?	**#/Days**	1028	1060	1092
b. Was supplemental feed supplied to livestock?	**Yes = 1 No=3**	1412	1421	1423
			2013 EDIT CROPPING TABLE	1004

		1	2	3
Let's continue with the 2012 crop year.		**2012**	**2012**	**2012**
Did you make day-to-day farming/ranching decisions for this field in 2012? *If **Yes,** continue, if **No**, go to page 10.*	**Yes = 1 No = 3**	0010		
What was/were the:				
Crop(s) planted or Land Use?	**Crop**			
1. Crop(s) code or Land Use Code. [***See Respondent Booklet for codes***.]	**Code**	1101	1133	1165
2. Intended use of Crop(s)? **[See *Respondent Booklet for codes.*]**	**Code**	1102	1134	1166
3. Acres planted? [***Include** previous planted crops*.]	**Acres**	1103 .__	1135 .__	1167 .__
4. Date planted? (*mmddyy*)	**Date**	1104 __ __ __ __ __ __	1136 __ __ __ __ __ __	1168 __ __ __ __ __ __
5. Row Width (*for row crops*)?	**Inches**	1107 .__	1139 .__	1171 .__
6. Spacing between rows (*for orchards and vineyards*)?	**Feet**	xxxx	xxxx	xxxx
7. Spacing between plants within rows (*for orchards and vineyards*)?	**Feet**	xxxx	xxxx	xxxx
8. **Expected** yield/acre at planting (*yield goal*)?	**Number**	1108 .__	1140 .__	1172 .__
a. Unit: **[*See Respondent Booklet for codes.*]**	**Code**	1109	1141	1173
9. Type of tillage used? **[*See Respondent Booklet for codes.*]**	**Code**	1110	1142	1174
10. Acres harvested?	**Acres**	1111 .__	1143 .__	1175 .__
a. Date harvested? (*mmddyy*)	**Date**	1112 __ __ __ __ __ __	1144 __ __ __ __ __ __	1176 __ __ __ __ __ __
11. **Actual** yield at harvest/acre?	**Number**	1113 .__	1145 .__	1177 .__
a. Unit: **[*See Respondent Booklet for codes.*]**	**Code**	1114	1146	1178
12. Acres abandoned?	**Acres**	1115 .__	1147 .__	1179 .__
13. Was this crop irrigated?	**Yes = 1 No = 3**	1125	1157	1189
14. Was the grass vegetation, straw, or stubble harvested? *If **Yes**, enter 1 and continue. If **No**, enter 3 then go to question 15.*	**Yes = 1 No = 3**	1116	1148	1180
a. How many acres of grass vegetation, straw, or stubble were harvested?	**Acres**	1117 .__	1149 .__	1181 .__
b. What was the remaining stubble height after harvest?	**Inches**	1118	1150	1182
15. Was the field grazed? *If **Yes**, enter 1 and continue. If **No**, enter 3 then go to page 10.*	**Yes = 1 No = 3**	1119	1151	1183
16. What type of livestock grazed the field (primarily)? **[*See Respondent Booklet for codes.*]**	**Code**	1120	1152	1184
17. Regardless of ownership, how many head of _____ grazed this field **BEFORE** harvest?	**#/Head**	1121	1153	1185
a. How many **total** days was the field grazed **BEFORE** harvest?	**#/Days**	1122	1154	1186
b. Was supplemental feed supplied to livestock?	**Yes = 1 No = 3**	1431	1433	1442
18. Regardless of ownership, how many head of _____ grazed this field **AFTER** harvest?	**#/Head**	1123	1155	1187
a. How many **total** days was the field grazed **AFTER** harvest?	**#/Days**	1124	1156	1188
b. Was supplemental feed supplied to livestock?	**Yes = 1 No = 3**	1432	1441	1443
		2012 EDIT CROPPING TABLE		1003

		1	2	3
Let's finish up with the 2011 crop year:		**2011**	**2011**	**2011**
Did you make day-to-day farming/ranching decisions for this field	**Yes=1 No=3**	0011		
What was/were the:				
Crop(s) planted or Land Use?	**Crop**			
1. Crop(s) code or Land Use Code. [***See Respondent Booklet for codes***.]	**Code**	1197	1229	1261
2. Intended use of Crop(s)? [***See Respondent Booklet for codes***.]	**Code**	1198	1230	1262
3. Acres planted? [***Include*** *previous planted crops*.]	**Acres**	1199 .__	1231 .__	1263 .__
4. Date planted? (*mmddyy*)	**Date**	1200 __ __ __ __ __ __	1232 __ __ __ __ __ __	1264 __ __ __ __ __ __
5. Row Width (*for row crops*)?	**Inches**	1203 .__	1235 .__	1267 .__
6. Spacing between rows (*for orchards and vineyards*)?	**Feet**	xxxx	xxxx	xxxx
7. Spacing between plants within rows (*for orchards and vineyards*)?	**Feet**	xxxx	xxxx	xxxx
8. **Expected** yield/acre at planting (*yield goal*)?	**Number**	1204 .__	1236 .__	1268 .__
a. Unit: [***See Respondent Booklet for codes***.]	**Code**	1205	1237	1269
9. Type of tillage used? [***See Respondent Booklet for codes***.]	**Code**	1206	1238	1270
10. Acres harvested?	**Acres**	1207 .__	1239 .__	1271 .__
a. Date harvested? (*mmddyy*)	**Date**	1208 __ __ __ __ __ __	1240 __ __ __ __ __ __	1272 __ __ __ __ __ __
11. **Actual** yield at harvest/acre?	**Number**	1209 .__	1241 .__	1273 .__
a. Unit: [***See Respondent Booklet for codes***.]	**Code**	1210	1242	1274
12. Acres abandoned?	**Acres**	1211 .__	1243 .__	1275 .__
13. Was this crop irrigated?	**Yes = 1 No = 3**	1221	1253	1285
14. Was the grass vegetation, straw, or stubble harvested? *If **Yes**, enter 1 and continue. If **No**, enter 3 then go to question 15.*	**Yes = 1 No = 3**	1212	1244	1276
a. How many acres of grass vegetation, straw, or stubble were harvested?	**Acres**	1213 .__	1245 .__	1277 .__
b. What was the remaining stubble height after harvest?	**Inches**	1214	1246	1278
15. Was the field grazed? *If **Yes**, enter 1 and continue. If **No**, enter 3 then go to page 11.*	**Yes = 1 No = 3**	1215	1247	1279
16. What type of livestock grazed the field (primarily)? [***See Respondent Booklet for codes***.]	**Code**	1216	1248	1280
17. Regardless of ownership, how many head of _____ grazed this field **BEFORE** harvest?	**#/Head**	1217	1249	1281
a. How many **total** days was the field grazed **BEFORE** harvest?	**#/Days**	1218	1250	1282
b. Was supplemental feed supplied to livestock?	**Yes = 1 No = 3**	1451	1453	1462
18. Regardless of ownership, how many head of _____ grazed this field **AFTER** harvest?	**#/Head**	1219	1251	1283
a. How many **total** days was the field grazed **AFTER** harvest?	**#/Days**	1220	1252	1284
b. Was supplemental feed supplied to livestock?	**Yes = 1 No = 3**	1452	1461	1463
		2011 EDIT CROPPING TABLE		1002

2. **Do you have a crop rotation plan for this field?**

☐ **Yes –** [*Enter 1, and continue.*]

☐ **No –** [*Enter 3, then go to Item 3.*]. . . . . CODE 1343

a. Let's record your crop rotation plan. [*Use the crop codes from* ***the Respondent Booklet****. 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
1st year of rotation		1344	1351	1358
2nd year of rotation		1345	1352	1359
3rd year of rotation		1346	1353	1360
4th year of rotation		1347	1354	1361
5th year of rotation		1348	1355	1362
6th year of rotation		1349	1356	1363

3. **Was a cover crop planted on this field for the 2013, 2012 or 2011 crop years?** CODE 1471

☐ **Yes –** [*Enter 1, and continue.*]

☐ **No –** [*Enter 3, then go to Item 4.*]. . . . . .

a. Let's record your cover crop history:

		2013	2012	2011
When was the cover crop planted?	MMDDYY	1472 __ __ __ __ __ __	1483 __ __ __ __ __ __	1571 __ __ __ __ __ __
What type of cover crop was planted? (*Enter code*)	1 Wheat, 2 Rye, 3 Other small grain/ winter annual, 4 Legume (clover, cowpeas, etc.), 5 Other	1473	1491	1572
When was the cover crop terminated?	MMDDYY	1481 __ __ __ __ __ __	1492 __ __ __ __ __ __	1573 __ __ __ __ __ __
How was the cover crop terminated? (*Enter code*)	1 Herbicide, 2 Mowed, 3 Hayed, 4 Plowed or disked in, 5 Roller/Crimper, 6 Harvested for grain, 7 Burned	1482	1493	1581

4. **Is the field adjacent (within 100 feet up slope) to a water body, including a stream, intermittent stream, wetland, or drainage ditch or irrigation canal/ditch?** . . . . . **Yes = 1** CODE 1327

[If ***Yes****, continue. If* ***No****, go to item 6.]*

5. Are irrigation/drainage ditches lined or vegetated to maintain a stable channel? . . . . . **Yes = 1** CODE xxx

6. **Does this field have subsurface (tile) drainage?** CODE 1341

☐ **Yes –** [*Enter 1, and continue.*]

☐ **Don't Know –** [*Enter 2, then go to Item 7.*]

☐ **No –** [*Enter 3, then go to Item 7.*] . . . . . .

a. Are the drainage tiles organized in a pattern?. . . . . **Yes = 1** 1781

[*If* ***Yes****, continue. If* ***No****, go to 6c.*]

b. What is the approximate subsurface (tile) drain spacing?. . . . . CODE 1782

1 – less than 30 feet **2** – 30-59 feet **3** – 60-100 feet **4** – more than100 feet

c. Are there surface inlet pipes connected to the subsurface (tile) drains in this field?. . . . . **Yes = 1** CODE 1783

7. **Does this field have surface drainage structures?**. . . . . **Yes = 1** 1342

D COMMERCIAL FERTILIZER APPLICATIONS---SELECTED FIELD D

1. **Were commercial FERTILIZERS applied to this field for:**

		CODE	EDIT TABLE
a.	the **2013** crop? [*If **Yes**, enter 1 and continue. If **No**, enter 3 then go to c.*]. . . (Yes = 1, No = 3)	0221	0234
b.	Did you use any product to slow the breakdown of nitrogen on this field in **2013**? (For example a nitrification inhibitor, an urease inhibitor, or slow release polymer.). . . . . (Yes = 1, No = 3)	0222	
c.	the **2012** crop? [*If **Yes**, enter 1 and continue. If **No**, enter 3 then go to e.*]. . . (Yes = 1, No = 3)	0235	0233
d.	Did you use any product to slow the breakdown of nitrogen on this field in **2012**? (For example a nitrification inhibitor, an urease inhibitor, or slow release polymer.). . . . . (Yes = 1, No = 3)	0236	
e.	the **2011** crop? [*If **Yes**, enter 1 and continue. If **No**, enter 3 then go to question 2.*]. . . . . (Yes = 1, No = 3)	0237	0232
f.	Did you use any product to slow the breakdown of nitrogen on this field in **2011**? (For example a nitrification inhibitor, an urease inhibitor, or slow release polymer.). . . . . (Yes = 1, No = 3)	0238	

2. **Is your soil phosphorus level elevated to a point where no additional phosphorus nutrients can be applied to this field for the 2013 crop year?**. . . . . Yes =1 — 0247

3. **Were phosphorus nutrients applied to this field as either fertilizer or manure prior to 2011 to supply phosphorus for subsequent years of the crop rotation?** — CODE 0248

☐ **Yes** – [*Enter 1, and continue.*]
☐ **No** – [*Enter 3, then go to item 4.*]. . . . . .

a. When were the phosphorus nutrients applied?. . . . . — MMDDYY 0249 ——————

b. What rate was applied?. . . . . 18 lbs/acre P_2O_5 . . . . . — AMOUNT 0250 AND UNIT CODE 0251

Units for fertilizer	Units for manure
	1 Pounds per acre 3 Tons per acre 12 Gallons per acre 14 Acre-Inch manure/acre

4. **Were soil amendments other than nutrients added to this field?** . . . . Yes =1

2013	2012	2011
xxx	xxx	xxx

*[If **Yes**, continue for that year. If **No** for all years, go to item 5.]*

a. Were the amendments added to address pH, soil structure, or micronutrient-related problems?. . . . . Yes =1

2013	2012	2011
xxx	xxx	xxx

5. **Was a soil test performed on this field within the last 5 years to determine crop nutrient application needs?** — CODE 0252

☐ **Yes** – [*Enter 1, and continue.*]
☐ **No** – [*Enter 3, then go to item 6.*]. . . . . .

a. How often is the soil test performed?. . . . . (1 annual; 2 every 2-3 years; 3 once during the rotation) . . . . . — CODE 0253

b. Please provide the following information for the last soil test performed on this field. If nitrogen and phosphorus were tested separately, provide the information for BOTH tests. (Report soil test value only. Do not report recommended fertilizer amounts.)

1 Year of Test YY	2 Crop Name	3 Crop Code	4 Soil Test Nitrogen		5 Soil Test Phosphorus		6 Soil Test Potassium		7
			Test Value	Unit 1 lbs/acre 2 ppm	Test Value	Unit 1 lbs/acre 2 ppm 3 mg/kg	Test Value	Unit 1 lbs/acre 2 ppm	Soil pH
0254 __ __		0255	0256	0257	0258	0259	0260	0261	0262 .___
0263 __ __		0264	0265	0266	0267	0268	0269	0270	0271 .___

8 Year of Test YY	9 Crop Name	10 Crop Code	11 Soil Test Electrical Conductivity (EC)		12 Soil Test Sodium Absorption Ratio (SAR)
			Test Value	Unit 1 – siemen per meter (S m-1) 2 – deciSiemens per meter (dS m-1) 3 – microSiemens per centimeter (uS/cm) 4 – millimhos per centimeter (mmho cm-1)	Test Value
xxx __ __		xxx	xxx	xxx	xxx
xxx __ __		xxx	xxx	xxx	xxx

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

		CODE
a. Pre-plant or pre-sidedress nitrate-nitrogen test.	**Yes = 1**	0272
b. Deep soil profile nitrate-nitrogen test (greater than one foot deep).	**Yes = 1**	0273
c. Leaf petiole or leaf tissue tests.	**Yes = 1**	0274
d. Post-harvest stalk test.	**Yes = 1**	0275
e. Chlorophyll analysis (for example, leaf color charts, chlorophyll meters, optical sensors, or remote aerial sensing).	**Yes = 1**	0276

7. **During crop years 2013, 2012, or 2011---**

Was a GPS (Global Positioning System) device used to georeference and/or produce a map of the soil properties of this field (*such as soil nitrate levels, pH, etc.*)?. . . . . **Yes = 1**

2013	2012	2011
1299	1310	1321

[*If **Yes** to any crop year, continue. If **No** to all crop years, go to item 8a.*]

	2013	2012	2011
a. Was the map based on random sampling?. . . . . **Yes = 1**	0277	0279	0281
b. Was the map based on grid sampling?. . . . . **Yes = 1**	0278	0280	0282
c. Was the map based on a machine that measured electrical conductivity of the soil?. . . . . **Yes = 1**	1301	1312	1323

ENUMERATOR NOTE: Was fertilizer applied in 2013? [*If **Yes**, continue. If **No**, go to Item 8b.*]

8a. **Now I need to record information for each fertilizer application for the 2013 crop.**
[Probe for applications made in the fall of 2012 (and those made earlier if this field was fallow) for the 2013 crop year.]

CHECKLIST

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

	T-TYPE 2	TABLE 100
Line 99	Office use Lines in table	0220

LINE	1 Crop Year	2 Primary crop for which nutrients were intended	3 Crop Code [*Enter crop code from Respondent Booklet.*]	4 MATERIALS USED — Nitrogen N	Phosphorus P_2O_5	Potassium K_2O	Sulfur S	5 What quantity was applied per acre? [*Leave this column blank if actual nutrients were reported in column 4.*]	6 [*Enter material code.*] *1 Pounds 3 Tons 12 Gallons 13 Quarts 19 Pounds of actual nutrients*
				Enter actual pounds of plant nutrients applied per acre. If only fertilizer analysis is known, enter percent analysis in this column and quantity of plant nutrients applied per acre in column 5. [*Show Common Fertilizers in Respondent Booklet.*]					
01	**13**		0204	0205	0206	0207	0239	0208	0209
02	**13**		0204	0205	0206	0207	0239	0208	0209
03	**13**		0204	0205	0206	0207	0239	0208	0209
04	**13**		0204	0205	0206	0207	0239	0208	0209
05	**13**		0204	0205	0206	0207	0239	0208	0209
06	**13**		0204	0205	0206	0207	0239	0208	0209
07	**13**		0204	0205	0206	0207	0239	0208	0209
08	**13**		0204	0205	0206	0207	0239	0208	0209
09	**13**		0204	0205	0206	0207	0239	0208	0209
10	**13**		0204	0205	0206	0207	0239	0208	0209
11	**13**		0204	0205	0206	0207	0239	0208	0209
12	**13**		0204	0205	0206	0207	0239	0208	0209
13	**13**		0204	0205	0206	0207	0239	0208	0209
14	**13**		0204	0205	0206	0207	0239	0208	0209

APPLICATION CODES FOR COLUMN 8

1 Broadcast, ground without incorporation
2 Broadcast, ground with incorporation
3 Broadcast, by air
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

LINE	7 **When was this applied?** **MMDDYY**	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**	NOTES
01	0210 __ __ __ __ __ __	0211	0212 .___	0215	
02	0210 __ __ __ __ __ __	0211	0212 .___	0215	
03	0210 __ __ __ __ __ __	0211	0212 .___	0215	
04	0210 __ __ __ __ __ __	0211	0212 .___	0215	
05	0210 __ __ __ __ __ __	0211	0212 .___	0215	
06	0210 __ __ __ __ __ __	0211	0212 .___	0215	
07	0210 __ __ __ __ __ __	0211	0212 .___	0215	
08	0210 __ __ __ __ __ __	0211	0212 .___	0215	
09	0210 __ __ __ __ __ __	0211	0212 .___	0215	
10	0210 __ __ __ __ __ __	0211	0212 .___	0215	
11	0210 __ __ __ __ __ __	0211	0212 .___	0215	
12	0210 __ __ __ __ __ __	0211	0212 .___	0215	
13	0210 __ __ __ __ __ __	0211	0212 .___	0215	
14	0210 __ __ __ __ __ __	0211	0212 .___	0215	

ENUMERATOR NOTE: Was fertilizer applied in 2012? [*If **Yes**, continue. If **No**, go to Item 8c.*]

8b. **Now I need to record information for each fertilizer application for the 2012 crop.**
[*Probe for applications made in the fall of 2011 (and those made earlier if this field was fallow) for the 2012 crop year.*]

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

	T-TYPE 2	**TABLE 200**
Line 99	**Office use Lines in table**	0220

LINE	1 Crop Year	2 Primary crop for which nutrients were intended	3 Crop Code [*Enter crop code from Respondent Booklet.*]	4 MATERIALS USED *Enter actual pounds of plant nutrients applied per acre. If only fertilizer analysis is known, enter percent analysis in this column and quantity of plant nutrients applied per acre in column 5.* *[Show Common Fertilizers in Respondent Booklet.]*				5 What quantity was applied per acre? [*Leave this column blank if 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		
01	**12**		0204	0205	0206	0207	0239	0208	0209
02	**12**		0204	0205	0206	0207	0239	0208	0209
03	**12**		0204	0205	0206	0207	0239	0208	0209
04	**12**		0204	0205	0206	0207	0239	0208	0209
05	**12**		0204	0205	0206	0207	0239	0208	0209
06	**12**		0204	0205	0206	0207	0239	0208	0209
07	**12**		0204	0205	0206	0207	0239	0208	0209
08	**12**		0204	0205	0206	0207	0239	0208	0209
09	**12**		0204	0205	0206	0207	0239	0208	0209
10	**12**		0204	0205	0206	0207	0239	0208	0209
11	**12**		0204	0205	0206	0207	0239	0208	0209
12	**12**		0204	0205	0206	0207	0239	0208	0209
13	**12**		0204	0205	0206	0207	0239	0208	0209
14	**12**		0204	0205	0206	0207	0239	0208	0209

APPLICATION CODES FOR COLUMN 8

1 Broadcast, ground without incorporation
2 Broadcast, ground with incorporation
3 Broadcast, by air
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

LINE	7 **When was this applied?** **MMDDYY**	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**	NOTES
01	0210 __ __ __ __ __ __	0211	0212 .___	0215	
02	0210 __ __ __ __ __ __	0211	0212 .___	0215	
03	0210 __ __ __ __ __ __	0211	0212 .___	0215	
04	0210 __ __ __ __ __ __	0211	0212 .___	0215	
05	0210 __ __ __ __ __ __	0211	0212 .___	0215	
06	0210 __ __ __ __ __ __	0211	0212 .___	0215	
07	0210 __ __ __ __ __ __	0211	0212 .___	0215	
08	0210 __ __ __ __ __ __	0211	0212 .___	0215	
09	0210 __ __ __ __ __ __	0211	0212 .___	0215	
10	0210 __ __ __ __ __ __	0211	0212 .___	0215	
11	0210 __ __ __ __ __ __	0211	0212 .___	0215	
12	0210 __ __ __ __ __ __	0211	0212 .___	0215	
13	0210 __ __ __ __ __ __	0211	0212 .___	0215	
14	0210 __ __ __ __ __ __	0211	0212 .___	0215	

ENUMERATOR NOTE: [Was fertilizer applied in 2011? *If **Yes**, continue. If **No**, go to **Section E**.*]

8c. **Now I need to record information for each fertilizer application for the 2011 crop.**
[*Probe for applications made in the fall of 2010 (and those made earlier if this field was fallow) for the 2011 crop year.*]

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

	T-TYPE 2	**TABLE 300**
Line 99	**Office use Lines in table**	0220

LINE	1 **Crop Year**	2 **Primary crop for which nutrients were intended**	3 **Crop Code** [*Enter crop code from Respondent Booklet.*]	4 **MATERIALS USED** *Enter actual pounds of plant nutrients applied per acre. If only fertilizer analysis is known, enter percent analysis in this column and quantity of plant nutrients applied per acre in column 5.* *[Show Common Fertilizers in Respondent Booklet.]*				5 **What quantity was applied per acre?** [*Leave this column blank if 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**		
01	**11**		0204	0205	0206	0207	0239	0208	0209
02	**11**		0204	0205	0206	0207	0239	0208	0209
03	**11**		0204	0205	0206	0207	0239	0208	0209
04	**11**		0204	0205	0206	0207	0239	0208	0209
05	**11**		0204	0205	0206	0207	0239	0208	0209
06	**11**		0204	0205	0206	0207	0239	0208	0209
07	**11**		0204	0205	0206	0207	0239	0208	0209
08	**11**		0204	0205	0206	0207	0239	0208	0209
09	**11**		0204	0205	0206	0207	0239	0208	0209
10	**11**		0204	0205	0206	0207	0239	0208	0209
11	**11**		0204	0205	0206	0207	0239	0208	0209
12	**11**		0204	0205	0206	0207	0239	0208	0209
13	**11**		0204	0205	0206	0207	0239	0208	0209
14	**11**		0204	0205	0206	0207	0239	0208	0209

APPLICATION CODES FOR COLUMN 8

1 Broadcast, ground without incorporation
2 Broadcast, ground with incorporation
3 Broadcast, by air
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

LINE	7 **When was this applied?** **MMDDYY**	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**	NOTES
01	0210 __ __ __ __ __ __	0211	0212 .___	0215	
02	0210 __ __ __ __ __ __	0211	0212 .___	0215	
03	0210 __ __ __ __ __ __	0211	0212 .___	0215	
04	0210 __ __ __ __ __ __	0211	0212 .___	0215	
05	0210 __ __ __ __ __ __	0211	0212 .___	0215	
06	0210 __ __ __ __ __ __	0211	0212 .___	0215	
07	0210 __ __ __ __ __ __	0211	0212 .___	0215	
08	0210 __ __ __ __ __ __	0211	0212 .___	0215	
09	0210 __ __ __ __ __ __	0211	0212 .___	0215	
10	0210 __ __ __ __ __ __	0211	0212 .___	0215	
11	0210 __ __ __ __ __ __	0211	0212 .___	0215	
12	0210 __ __ __ __ __ __	0211	0212 .___	0215	
13	0210 __ __ __ __ __ __	0211	0212 .___	0215	
14	0210 __ __ __ __ __ __	0211	0212 .___	0215	

E MANURE APPLICATIONS---SELECTED FIELD E

1. **Was manure or manure compost applied to this field for the 2013, 2012, or 2011 crop year?** Manure applications include solids and effluents from waste lagoons, waste holding ponds, and waste runoff storage ponds. (***Include*** *commercially prepared manure.)*

T-TYPE	TABLE	LINE
0	000	00

ENUMERATOR NOTE: [Probe for applications made in the fall of 2010, 2011 and 2012 (and those made earlier if this field was fallow) for the 2011, 2012, and 2013 crop years.]

	CODE
☐ **Yes** – [*Enter 1, and continue.*]	0418
☐ **No** – [*Enter 3, then go to* ***Section F****.*]	

	T-TYPE	TABLE
	4	001
LINE 99	OFFICE USE LINES IN TABLE	0417

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

LINE	1 Crop Year YY	2 Primary crop for which nutrients were intended	3 Crop Code CODE	4 What quantity of manure was applied per acre?	5 Unit *(column 4 only)* 1 Pounds 3 Tons 4 Bushels 12 Gallons 14 Acres/Inch	6 Where was the manure produced? 1 On this operation 2 Purchased 3 Obtained at no cost off this 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 a manure test done? 1 Yes 2 DK 3 No CODE
01	0403 __ __		0404	0408 .___	0409	0407	0416	0455
02	0403 __ __		0404	0408 .___	0409	0407	0416	0455
03	0403 __ __		0404	0408 .___	0409	0407	0416	0455
04	0403 __ __		0404	0408 .___	0409	0407	0416	0455
05	0403 __ __		0404	0408 .___	0409	0407	0416	0455
06	0403 __ __		0404	0408 .___	0409	0407	0416	0455
07	0403 __ __		0404	0408 .___	0409	0407	0416	0455
08	0403 __ __		0404	0408 .___	0409	0407	0416	0455
09	0403 __ __		0404	0408 .___	0409	0407	0416	0455
10	0403 __ __		0404	0408 .___	0409	0407	0416	0455

CODES FOR UNIT COLUMN 10

31 lbs/ton
121 lbs/1000gals
19 lbs of actual nutrients/acre
15 lbs/acre-inch
29 % by weight

CODES FOR MANURE SOURCE COLUMN 11

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 Biosolids
12 Other (*specify*)_____
13 Don't Know

CODES FOR APPLICATION COLUMN 15

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	9 **Results from manure analysis test OR actual amount of nutrients applied** [*Leave this column blank if column 8 = 2 or 3*] Nitrogen **N**	Phosphorus **P_2O_5**	Potassium **K_2O**	10 **Unit** (*column 9 only*) [*Enter code from box above.*]	11 **Major source of manure** [*Enter code from box above.*]	12 **Was manure composted before application?** 1 Yes 2 DK 3 No	13 **Composting Method?** [*Leave this column blank if column 12 = 2 or 3*] 1 Windrow 2 Static pile 3 In-Vessel 4 Other	14 **When was this applied?** **MMDDYY**	15 **How was this applied?** [*Enter code from box above.*]	16 **How many acres were treated in this application?** **ACRES**
01	0405 .__ __	0406 .__ __	0457 .__ __	0456	0413	0415	0458	0410 __ __ __ __ __ __	0411	0412 .__
02	0405 .__ __	0406 .__ __	0457 .__ __	0456	0413	0415	0458	0410 __ __ __ __ __ __	0411	0412 .__
03	0405 .__ __	0406 .__ __	0457 .__ __	0456	0413	0415	0458	0410 __ __ __ __ __ __	0411	0412 .__
04	0405 .__ __	0406 .__ __	0457 .__ __	0456	0413	0415	0458	0410 __ __ __ __ __ __	0411	0412 .__
05	0405 .__ __	0406 .__ __	0457 .__ __	0456	0413	0415	0458	0410 __ __ __ __ __ __	0411	0412 .__
06	0405 .__ __	0406 .__ __	0457 .__ __	0456	0413	0415	0458	0410 __ __ __ __ __ __	0411	0412 .__
07	0405 .__ __	0406 .__ __	0457 .__ __	0456	0413	0415	0458	0410 __ __ __ __ __ __	0411	0412 .__
08	0405 .__ __	0406 .__ __	0457 .__ __	0456	0413	0415	0458	0410 __ __ __ __ __ __	0411	0412 .__
09	0405 .__ __	0406 .__ __	0457 .__ __	0456	0413	0415	0458	0410 __ __ __ __ __ __	0411	0412 .__
10	0405 .__ __	0406 .__ __	0457 .__ __	0456	0413	0415	0458	0410 __ __ __ __ __ __	0411	0412 .__

T-TYPE	TABLE	LINE	EDIT MANURE TABLE		
			2013	2012	2011
0	000	00	0454	0453	0452

TYPE	TABLE	LINE
0	000	00

3. **Were the manure application rates to this field influenced by State or local restrictions, by your conservation plan, nutrient management plan (NMP) or your comprehensive nutrient management plan (CNMP)?** [*If **Yes**, enter 1 and continue. If **No**, enter 3 then go to Item 4.*]. 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: 459 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.*]. 0421

a. Was commercial nitrogen reduced?. . . . . **Yes = 1** 0422

b. Was commercial phosphorus reduced?. . . . . **Yes = 1** 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 a year 4 Twice a year 5 Once a year 6 Once every 2 years 7 Once every 3 or more years . . . . . CODE 0424

ENUMERATOR NOTE: [*If any of the manure applied on this field was produced on this operation, that is, if a "1" was reported in **Section E**, question 2, column 6, continue. If not, go to question 8.*]

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

☐ **Yes** – [*Enter 1, and continue.*]
☐ **No** – [*Enter 3, then go to question 8.*] . . . . . 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*) _____ 6 none	7 concrete or steel tank, basin or pit 8 earthen storage facility 9 other (*specify*) _____	10 single stage lagoon or holding pond 11 two stage lagoon system with the second stage being either a lagoon or a holding pond 12 run off storage pond used only for collection of open-lot run off 13 other (*specify*)_____
CODE	**CODE**	**CODE**
xxx	xxx	xxx

8. **Was an amendment added to manure prior to application, or to the field, in order to enhance nutrient efficiency or reduce environmental impacts?** [*For example, aluminum or iron compounds, strong acids, nitrapyrin, or NBPT*]. . . . . **Yes = 1** CODE 0461

F PEST CONTROL APPLICATIONS---SELECTED FIELD F

1. **Were any products applied to this field in 2013, 2012, or 2011 to control weeds, insects, or diseases?** [**Include** herbicides, insecticides, fungicides, biocontrol agents, and other conventional or organic products]. . . . . .

	2013	2012	2011
Yes = 1 No = 3	0315	0345	0346
Edit Table	0344	0343	0342

ENUMERATOR ACTION: [*If pesticides applied in any year, continue. Complete table only for year(s) specified, else go to* ***Section G***.]

		CODE
2. **Did you use a pesticide product for the purpose of improving plant health as opposed to controlling a pest?**	**Yes = 1**	0347
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**	0348
4. **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**	0318
5. **Did you select and plant crop seeds that had been commercially treated with fungicides or insecticides?**	**Yes = 1**	0349
6. **Did you select and plant crop cultivars with genetically engineered tolerances to specific herbicides such as glyphosate or glufosinate?**	**Yes = 1**	0350

ENUMERATOR ACTION: [Were any pest control products applied in 2013? *If* ***Yes****, continue. If* ***No****, go to item 8b*.]

7. **Other than cost and product effectiveness, did you consider any other factors in determining which pest control product to use in 2013?**

CODE 0351

☐ **Yes** – [*Enter 1, and continue*.] ☐ **No** – [*Enter 3, then go to item 8a*.]. . . . . .

a. Which of the following factors did you consider?

Source	[*Mark all that apply*.] **Yes = 1**
Potential health risk to applicator or farm worker.	0352
Risk to populations of beneficial organisms (earthworms, bees, ladybugs, etc.).	0353
Risk to natural resources (drinking water, wildlife, fish, etc.).	0354
Pest resistance management.	0355
Crop safety.	0356
Other (s*pecify)*_____	0357

ENUMERATOR NOTE: Were pest control products applied in 2013? [*If **Yes**, continue. If **No**, go to Item 8b.*]

8a. **Including both custom applications and applications made by this operation, list all the pest control products used on this field for the 2013 crop(s).**

[*Probe for applications made in the fall of 2012 (and those made earlier if this field was fallow) for the 2013 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, adjuvants (e.g. wetting agents, stickers, spreaders, etc.).*

	T-TYPE	TABLE
	3	100
Line 99	Office use Lines in table	0314

PRODUCT NAME	LINE	1 Crop Year	2 Primary crop for which control agent was intended	3 Crop Code [*Enter crop code from Respondent Booklet.*]	4 What products were applied to this field? [*Enter Product Code from Respondent Booklet.*]	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	**13**		0304	0305		0306
	02	**13**		0304	0305		0306
	03	**13**		0304	0305		0306
	04	**13**		0304	0305		0306
	05	**13**		0304	0305		0306
	06	**13**		0304	0305		0306
	07	**13**		0304	0305		0306
	08	**13**		0304	0305		0306
	09	**13**		0304	0305		0306
	10	**13**		0304	0305		0306
	11	**13**		0304	0305		0306
	12	**13**		0304	0305		0306
	13	**13**		0304	0305		0306
	14	**13**		0304	0305		0306
	15	**13**		0304	0305		0306

[*For pest control products not listed in Respondent Booklet, specify --*]

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.*]
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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

LINE	7 **When was it applied?** **MMDDYY**	8 **How much was applied per acre per application**	**OR**	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	11 **How was this product applied?** [*Enter code from above.*]	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	13 **How many acres in this field were treated with this product?** **ACRES**
01	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
02	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
03	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
04	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
05	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
06	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
07	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
08	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
09	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
10	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
11	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
12	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
13	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
14	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
15	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___

ENUMERATOR NOTE: Were pest control products applied in 2012? [*If **Yes**, continue. If **No**, go to Item 8c.*]

8b. **Including both custom applications and applications made by this operation, list all the pest control products used on this field for the 2012 crop(s).**

[*Probe for applications made in the fall of 2011 (and those made earlier if this field was fallow) for the 2012 crop year.]*

***Include** herbicides, insecticides, fungicides, defoliants, growth regulators, microbial agents, miticides, nematicides, rodenticides, soil fumigants, and seed treatments.*

***Include** biological and botanical control products.*

***Exclude** fertilizers, adjuvants (e.g. wetting agents, stickers, spreaders, etc.).*

	T-TYPE	TABLE
	3	200
Line 99	Office use Lines in table	0314

PRODUCT NAME	LINE	1 Crop Year	2 Primary crop for which control agent was intended	3 Crop Code [*Enter crop code from Respondent Booklet.*]	4 What products were applied to this field? [*Enter Product Code from Respondent Booklet.*]	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	**12**		0304	0305		0306
	02	**12**		0304	0305		0306
	03	**12**		0304	0305		0306
	04	**12**		0304	0305		0306
	05	**12**		0304	0305		0306
	06	**12**		0304	0305		0306
	07	**12**		0304	0305		0306
	08	**12**		0304	0305		0306
	09	**12**		0304	0305		0306
	10	**12**		0304	0305		0306
	11	**12**		0304	0305		0306
	12	**12**		0304	0305		0306
	13	**12**		0304	0305		0306
	14	**12**		0304	0305		0306
	15	**12**		0304	0305		0306

[*For pest control products not listed in Respondent Booklet, specify --*]

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.*]
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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

LINE	7 **When was it applied?** MMDDYY	8 **How much was applied per acre per application?**	**OR**	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	11 **How was this product applied?** [*Enter code from above.*]	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	13 **How many acres in this field were treated with this product?** ACRES
01	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__
02	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__
03	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__
04	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__
05	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__
06	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__
07	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__
08	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__
09	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__
10	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__
11	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__
12	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__
13	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__
14	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__
15	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .__

ENUMERATOR NOTE: [Were pest control products applied in **2011**? *If **Yes**, continue. If **No**, go to Section G.*]

8c. **Including both custom applications and applications made by this operation, list all the pest control products used on this field for the 2011 crop(s).**

[*Probe for applications made in the fall of 2010 (and those made earlier if this field was fallow) for the 2011 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, adjuvants (e.g. wetting agents, stickers, spreaders, etc.).*

	T-TYPE	TABLE
	3	300
Line 99	Office use Lines in table	0314

PRODUCT NAME	LINE	1 Crop Year	2 Primary crop for which control agent was intended	3 Crop Code [*Enter crop code from Respondent Booklet.*]	4 What products were applied to this field? [*Show Product Code from Respondent Booklet.*]	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	**11**		0304	0305		0306
	02	**11**		0304	0305		0306
	03	**11**		0304	0305		0306
	04	**11**		0304	0305		0306
	05	**11**		0304	0305		0306
	06	**11**		0304	0305		0306
	07	**11**		0304	0305		0306
	08	**11**		0304	0305		0306
	09	**11**		0304	0305		0306
	10	**11**		0304	0305		0306
	11	**11**		0304	0305		0306
	12	**11**		0304	0305		0306
	13	**11**		0304	0305		0306
	14	**11**		0304	0305		0306
	15	**11**		0304	0305		0306

[*For pest control products not listed in Respondent Booklet, specify --*]

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.*]
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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

LINE	7 **When was it applied?** **MMDDYY**	8 **How much was applied per acre per application?**	**OR**	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	11 **How was this product applied?** [*Enter code from above.*]	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	13 **How many acres in this field were treated with this product?** **ACRES**
01	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
02	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
03	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
04	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
05	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
06	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
07	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
08	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
09	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
10	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
11	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
12	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
13	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
14	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___
15	0307 __ __ __ __ __ __	0308 .__ __		0309 .__ __	0310	0311	0358	0312 .___

G PEST MANAGEMENT PRACTICES---SELECTED FIELD G

T-Type	Table	Line
0	000	00

Now I have some questions about the pest management decisions and practices used on this field during the 2013 crop year. By pests, we mean INSECTS, WEEDS, and PLANT DISEASES.

1. **During 2013, 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** 1702

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

a. a pre-determined schedule or calendar? . . . . . **Yes = 1** 1773

b. a pest development model based on degree days, maximum or minimum temperatures, or wetness? . . . . . **Yes = 1** 1703

c. a pest advisory warning? . . . . . **Yes = 1** 1704

4. **Was this field scouted for --**

1	YES = 1	2 [*If column 1 = **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	3 [*If column 1 = **Yes**, Ask--*] **Based on the scouting report and compared to published threshold levels, 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*) _____	1708	1712	1777

CODE

5. **Was scouting for pests done in the field after a pest control application to evaluate degree of control?** . . . . . **Yes = 1** 1778

6. **Were either written or electronic records kept for this field to track the activity or numbers of weeds, insects, or diseases?** . . . . . **Yes = 1** 1713

7. **Were scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in this field?** . . . . . **Yes = 1** 1714

		CODE
8. **Were field mapping data used for making weed management decisions on this field?**	Yes = 1	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	1716

10. **Did you conduct any of the following activities for the crops grown in 2013 SPECIFICALLY for the purpose of managing pests or reducing the spread of pests?**

	YES = 1
a. Remove, plow down, or burn any crop or crop residue	1717
b. Alter crop rotation	1718
c. Maintain ground covers, mulches, or other physical barriers	1719
d. Use no-till or minimum till	1720
e. Adjust spacing or plant density	1721
f. Release beneficial organisms (insects, nematodes, fungi) in the field	1722
g. Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways or fence lines	1723
h. Grow a trap crop	1724
i. Clean equipment and field implements after completing field work	1725
j. Cultivate for weed control during the growing season	1727
k. Choose crop variety because of specific resistance to a pest	1728
l. Choose not to plant a crop in certain areas of the field to avoid a specific pest	1779
m. Adjust planting or harvesting dates	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	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	1746
13. **Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on this field?**	Yes = 1	1756

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

H IRRIGATION---SELECTED FIELD H

ENUMERATOR NOTE: [*Ask ONLY if irrigation was reported in **Section C**. Cropping History and Conservation Practices, line 13 = **Yes** on pages 8, 9, or 10. 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*] **crop(s).**

   a. What type of irrigation system(s) were used to irrigate this field?

   [*Show System Type Codes in **Respondent Booklet**. 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 irrigation season as the Secondary System. If only 1 type of system was used, report under the Primary System and then skip to item 1b.*]

		2013 SYSTEM TYPE	2012 SYSTEM TYPE	2011 SYSTEM TYPE
(i.) Primary Irrigation System.	Code	1505	1506	1507
(ii.) Secondary Irrigation System.	Code	xxx	xxx	xxx
(iii.) What was the estimated date that primary and secondary irrigation systems were switched?	(mmddyy)	xxx __ __ __ __ __ __	xxx __ __ __ __ __ __	xxx __ __ __ __ __ __

   b. Were any major changes made to the way the field was irrigated during the period 2011 – 2013? (**Include** irrigation system type, source of water, and major changes to scheduling or monitoring.). . . . . **Yes = 1** 1593

ENUMERATOR NOTE: [*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

	2013	2012	2011
Primary system code	1508	1509	1510
Secondary system code	xxx	xxx	xxx

3. **Did you take steps to allow for or encourage quicker water advance rates to the end of the field, such as shortening runs, furrow smoothing, higher flow rates, narrow checks, tailwater recovery systems, etc.?**. . . . . **Yes = 1**	2013	2012	2011
	1520	1521	1522

4. **Is there a limit on the maximum amount of irrigation water that may be applied to the field?**. . . . . **Yes = 1** xxx

   *[If **Yes**, continue. If **No**, got to item 5.]*

		Amount/Acre
a. What was the annual limit?	Inches	xxx

5. **Has the irrigation water supply been tested for either nitrogen content or salinity?**. . . . . **Yes = 1** xxx

   *[If **Yes**, continue, If **No**, go to ENUMERATOR NOTE]*

	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	xxx	xxx	xxx	xxx
b. Groundwater.	xxx	xxx	xxx	xxx

ENUMERATOR NOTE: *If irrigation system reported in 1a for any year is a pressure system (code 1-9), continue, else, go to Item 7.*

6. **Did you take steps to evaluate or improve the uniformity of water application of your pressure system?** . . . . . **Yes=1** | xxx

7. **Is the irrigation runoff from the field primarily:**
[*See **Respondent Booklet** for codes*] . . . . . **Code**

2013	2012	2011
1536	1537	1538

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

a. Well?	**Yes=1**	xxx
b. Irrigation district?	**Yes=1**	xxx
c. River or stream?	**Yes=1**	xxx
d. Other? Specify: _____	**Yes=1**	xxx

*[If item **8b = 1**, continue, else go to item 10]*

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

a. I receive it when it's my turn	**Yes=1**	xxx
b. I receive it by calling one or more days ahead of when I want it	**Yes=1**	xxx
c. I receive it any time I want it	**Yes=1**	xxx

10. **Does the source of your water limit your selection of irrigation methods, such as a conversion to a pressurized system?** . . . . . **Yes=1** | xxx

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

a. When plants appear dry or stressed?	**Yes=1**	xxx
b. When indicated by the calendar or schedule of field operations?	**Yes=1**	xxx
c. When water is available?	**Yes=1**	xxx
d. On the surface soil appearance or feel, or general current climate observations?	**Yes=1**	xxx
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**	xxx
f. When a target water use value, such as inches of ET since last irrigation, from rootzone water budget and current weather data (CIMIS) is reached?	**Yes=1**	xxx
g. When a target measured plant stress level, such as pressure bomb, canopy temperature, etc., is reached?	**Yes=1**	xxx
h. Other? Specify: _____	**Yes=1**	xxx

12. **Which of the following are ways you decide how long or how much to run the water on each set?** (Select all that apply)

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**	xxx
b. Run times based on past experience and schedule of required field operations?	**Yes=1**	xxx
c. Sets or blocks are changed when the target number of inches or gallons, per tree or vine, are applied? (May be calculated from the run time and flow rate).	**Yes=1**	xxx
d. Other? Specify: _____	**Yes=1**	xxx

13. **Do you know how much water you applied to the crop(s) in this field?**
*[If **Yes**, continue. If **No**, got to item 15.]* **Yes=1** xxx

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

a. Irrigation district record, report, or bill? . . . . . **Yes=1** xxx
b. A flow measuring device?. . . . . **Yes=1** xxx
c. Measuring the flows to the field? ..... **Yes=1** xxx
d. Measuring the flows at the water supply? ..... **Yes=1** xxx
e. The runtime plus a known system application rate? ..... **Yes=1** xxx
f. A pump test flow rate and runtime? ..... **Yes=1** xxx
g. Other? Specify: _____ **Yes=1** xxx

15. **Do you know how much water the crop(s) removed from the soil?** **Yes=1** xxx
*[If **Yes**, continue. If **No**, go to item 17.]*

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

a. The current (real-time) climate-based measurements such as CIMIS? . . . . . **Yes=1** xxx
b. Historic ET data through CIMIS, Cooperative Extension publications, etc.? . . . . . **Yes=1** xxx
c. Tracking root zone soil moisture changes with electronic probes or other devices? . . . . **Yes=1** xxx
d. Other? Specify: _____ **Yes=1** xxx

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

a. Pre-planting irrigation to refill rootzone? ..... **Yes=1** xxx
b. Apply moisture for seed germination and emergence? ..... **Yes=1** xxx
c. Freeze protection or crop cooling? ..... **Yes=1** xxx
d. To apply fertilizer or other chemicals? ..... **Yes=1** xxx
e. Ground water recharge? ..... **Yes=1** xxx
f. Other? Specify: _____ **Yes=1** xxx

18. **Were other practices used to improve water applications?** . . . . . **Yes=1** 1533
[*If **Yes**, please list practices. **See Respondent Booklet**.*]

1565 | 1566 | 1567

19. **Do you manage irrigation to address salinity problems in this field?**. . . . . **Yes=1** 1539

Completion Code for Irrigation	2013	2012	2011
	1504	1503	1502

FIELD OPERATIONS---SELECTED FIELD

1. **Including custom operations, I need to list the operations performed by hand or machines on this field for the 2013, 2012, and 2011 crop years.**
   - Begin with the first field operation for the 2013 crop (after harvesting of 2012 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 2013 crops.

CHECK LIST

Include all field work done by hand or using machines for--

☐ Land Forming ☐ Planting ☐ Hauling ☐ Harvesting
☐ Tillage ☐ Residue Management ☐ Custom Operations
☐ Preparing for Irrigation before seeding

Exclude all field work done by hand or using machines for--

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

1 **Crop Year** **YEAR**	2 **Sequence Number** **NUMBER**	**Was this part of a tandem operation?** [If Yes, record the sequence order of equipment]	**What crop was associated with this operation?** **CROP NAME**	3 **Crop Code** [*Record from Respondent Booklet*.] **CODE**	4 **What operation or equipment was used on this field?**	5 **Machine Code** [*Record from Respondent Booklet*.] **CODE**	6 **What was the timing of the field operation?** **MMDDYY**	7 **What was the depth of tillage for tillage/planting operations?** **INCHES**
2013	3005			3006		3007	3008 __ __ __ __ __ __	3009 .___
2013	3015			3016		3017	3018 __ __ __ __ __ __	3019 .___
2013	3025			3026		3027	3028 __ __ __ __ __ __	3029 .___
2013	3035			3036		3037	3038 __ __ __ __ __ __	3039 .___
2013	3045			3046		3047	3048 __ __ __ __ __ __	3049 .___
2013	3055			3056		3057	3058 __ __ __ __ __ __	3059 .___
2013	3065			3066		3067	3068 __ __ __ __ __ __	3069 .___
2013	3075			3076		3077	3078 __ __ __ __ __ __	3079 .___
2013	3085			3086		3087	3088 __ __ __ __ __ __	3089 .___
2013	3095			3096		3097	3098 __ __ __ __ __ __	3099 .___
2013	3105			3106		3107	3108 __ __ __ __ __ __	3109 .___
2013	3115			3116		3117	3118 __ __ __ __ __ __	3119 .___
2013	3125			3126		3127	3128 __ __ __ __ __ __	3129 .___
2013	3135			3136		3137	3138 __ __ __ __ __ __	3139 .___
2013	3145			3146		3147	3148 __ __ __ __ __ __	3149 .___
2013	3155			3156		3157	3158 __ __ __ __ __ __	3159 .___
2013	3165			3166		3167	3168 __ __ __ __ __ __	3169 .___
2013	3175			3176		3177	3178 __ __ __ __ __ __	3179 .___

2013 EDIT FIELD OPERATIONS	**3004**

b. Now let's continue with the 2012 crop year.

- Begin with the first field operation for the 2012 crop (after harvesting of 2011 crop.)

CHECK LIST

Include all field work done by hand or using machines for--

☐ Land Forming ☐ Planting ☐ Hauling ☐ Harvesting

☐ Tillage ☐ Residue Management ☐ Custom Operations

☐ Preparing for Irrigation before seeding

Exclude all field work done by hand or using machines for--

☐ Lime & Gypsum applications

☐ Hauling from field edge to storage

☐ Fertilizers, Manure & Pesticides applications

1 **Crop Year** **YEAR**	2 **Sequence Number** **NUMBER**	**Was this part of a tandem operation?** [If Yes, record the sequence order of equipment.]	**What crop was associated with this operation?** **CROP NAME**	3 **Crop Code** [*Record from Respondent Booklet*.] **CODE**	4 **What operation or equipment was used on this field?**	5 **Machine Code** [*Record from Respondent Booklet*.] **CODE**	6 **What was the timing of the field operation?** **MMDDYY**	7 **What was the depth of tillage for tillage/planting operations?** **INCHES**
2012	3305			3306		3307	3308 __ __ __ __ __ __	3309 .___
2012	3315			3316		3317	3318 __ __ __ __ __ __	3319 .___
2012	3325			3326		3327	3328 __ __ __ __ __ __	3329 .___
2012	3335			3336		3337	3338 __ __ __ __ __ __	3339 .___
2012	3345			3346		3347	3348 __ __ __ __ __ __	3349 .___
2012	3355			3356		3357	3358 __ __ __ __ __ __	3359 .___
2012	3365			3366		3367	3368 __ __ __ __ __ __	3369 .___
2012	3375			3376		3377	3378 __ __ __ __ __ __	3379 .___
2012	3385			3386		3387	3388 __ __ __ __ __ __	3389 .___
2012	3395			3396		3397	3398 __ __ __ __ __ __	3399 .___
2012	3405			3406		3407	3408 __ __ __ __ __ __	3409 .___
2012	3415			3416		3417	3418 __ __ __ __ __ __	3419 .___
2012	3425			3426		3427	3428 __ __ __ __ __ __	3429 .___
2012	3435			3436		3437	3438 __ __ __ __ __ __	3439 .___
2012	3445			3446		3447	3448 __ __ __ __ __ __	3449 .___
2012	3455			3456		3457	3458 __ __ __ __ __ __	3459 .___
2012	3465			3466		3467	3468 __ __ __ __ __ __	3469 .___
2012	3475			3476		3477	3478 __ __ __ __ __ __	3479 .___
						2012 EDIT FIELD OPERATIONS		**3003**

c. Please answer the following for the 2011 crop year.

- Begin with the first field operation for the 2011 crop (after harvesting of 2010 crop.)

CHECK LIST

Include all field work done by hand or using machines for--

☐ Land ☐ Planting ☐ Hauling ☐ Harvesting

☐ Tillage ☐ Residue Management ☐ Custom Operations

☐ Preparing for Irrigation before seeding

Exclude all field work done by hand or using machines for--

☐ Lime & Gypsum applications

☐ Hauling from field edge to storage

☐ Fertilizers, Manure & Pesticides applications

1 **Crop Year** **YEAR**	2 **Sequence Number** **NUMBER**	**Was this part of a tandem operation?** [If Yes, record the sequence order of equipment.]	**What crop was associated with this operation?** **CROP NAME**	3 **Crop Code** [*Record from Respondent Booklet*.] **CODE**	4 **What operation or equipment was used on this field?**	5 **Machine Code** [*Record from Respondent Booklet*.] **CODE**	6 **What was the timing of the field operation?** **MMDDYY**	7 **What was the depth of tillage for tillage/planting operations?** **INCHES**
2011	3605			3606		3607	3608 __ __ __ __ __ __	3609 .___
2011	3615			3616		3617	3618 __ __ __ __ __ __	3619 .___
2011	3625			3626		3627	3628 __ __ __ __ __ __	3629 .___
2011	3635			3636		3637	3638 __ __ __ __ __ __	3639 .___
2011	3645			3646		3647	3648 __ __ __ __ __ __	3649 .___
2011	3655			3656		3657	3658 __ __ __ __ __ __	3659 .___
2011	3665			3666		3667	3668 __ __ __ __ __ __	3669 .___
2011	3675			3676		3677	3678 __ __ __ __ __ __	3679 .___
2011	3685			3686		3687	3688 __ __ __ __ __ __	3689 .___
2011	3695			3696		3697	3698 __ __ __ __ __ __	3699 .___
2011	3705			3706		3707	3708 __ __ __ __ __ __	3709 .___
2011	3715			3716		3717	3718 __ __ __ __ __ __	3719 .___
2011	3725			3726		3727	3728 __ __ __ __ __ __	3729 .___
2011	3735			3736		3737	3738 __ __ __ __ __ __	3739 .___
2011	3745			3746		3747	3748 __ __ __ __ __ __	3749 .___
2011	3755			3756		3757	3758 __ __ __ __ __ __	3759 .___
2011	3765			3766		3767	3768 __ __ __ __ __ __	3769 .___
2011	3775			3776		3777	3778 __ __ __ __ __ __	3779 .___

2011 EDIT FIELD OPERATIONS	**3002**

J WHOLE FARM 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, wetland, woodland and government program land. Include land in other states.*)

1. **During the 2013 crop year, how many total acres did this operation --**

			ACRES
a.	own?	+	1901 .___
b.	rent **FROM** others? (***Exclude*** *land used on an AUM 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?

   ☐ **Yes –** [*Continue.*] ☐ **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 .___

K OPERATOR AND OPERATION CHARACTERISTICS K

1. **In 2013, 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)*?
*Describe*_____

. . . . . CODE 1912

2. **In 2013, what was your** (*the operator's*) **major occupation?**. . . . . .

1 Farm or ranch work
2 Hired farm manager
3 Something else
4 Retired

. . . . . CODE 1913

3. **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

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

5. **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 2013.

What code represents the total gross value of sales for this operation in 2013?

- ☐ 99 None during 2013
- ☐ 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 and over

. . . . . CODE 1916

6. **Of the farm income reported, which of these categories represents the largest portion of the gross income from the operation?**. . . . . CODE 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

CONCLUDE INTERVIEW and THANK the RESPONDENT

CONCLUSION

RECORDS USE

1. [*Did respondent use farm/ranch records to report---*]

		CODE
a. [***fertilizer*** *data*?]	YES = 1	0026
b. [***pest control*** *data*?]	YES = 1	0027
c. [***manure*** *data*?]	YES = 1	0028

		CODE
2. [*Did the respondent use a Conservation Plan to complete* ***Section B****?*]	YES = 1	0029

SUPPLEMENTS USED

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

	NUMBER
FERTILIZER APPLICATIONS	0030
PEST CONTROL APPLICATIONS	0031
FIELD OPERATIONS	0032
MANURE APPLICATIONS	0033

ENDING TIME [*MILITARY*]

MILITARY TIME
H H M M

0005 __ __ __ __

TOTAL HOURS

0006 .___

9910 MM DD YY

Date: __ __ __ __ __ __

Response		Respondent		Mode		Enum.	Eval.	Change	Optional Use			
1-Comp 2-R 3-Inac	9901	1-Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner	9902	3-Face-to-Face	9903	098	100	785	0002	0003	9906	9916
S/E Name												