|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SURVEY_LOGO_1:nass symbol black.jpg | **NATIONAL AGRICULTURAL STATISTICS**  **SERVICE** | AGRICULTURAL RESOURCE MANAGEMENT SURVEY |  | Form Approved  OMB Number 0535-0218  Approval Expires 8/31/2007  Project code 906  Phase II |
| **CORN PRODUCTION PRACTICES AND COSTS REPORT** |
| **DRAFT for 2015** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| U.S. Department of Agriculture,  Rm 5030, South Building  1400 Independence Ave., S.W.  Washington, DC 20250-2000  Toll Free: 1-800-727-9540  Fax: 202-690-2090  E-mail: nass@nass.usda.gov |  | | | | | | |
| **VERSION** | **ID** | **TRACT** | **SUBTRACT** | **T-TYPE** | **TABLE** | **LINE** |
| **2** | **\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_** | **01** | **\_\_\_ \_\_\_** | **0** | **000** | **00** |

|  |  |  |
| --- | --- | --- |
|  | |  |
| **CONTACT RECORD** |
| **DATE** | **TIME** | **NOTES** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **INTRODUCTION:**  [*Introduce yourself, and ask for the operator. Rephrase in your own words*.]  We are collecting information on costs and returns and need your help to make the information as accurate as possible.  Authority for collection of information on the Costs and Returns Report is Title 7, Section 2204 of the U.S. Code. Under Title 7 of the  U.S. Code and CIPSEA (Public Law 107-347), facts about your operation are kept confidential and used only for statistical purposes.  Response is voluntary. You may skip any question(s) you prefer not to answer.  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 control number for this information collection is 0535-0218. The time required to complete this information collection is estimated to average 65 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.  We encourage you to refer to your farm records during the interview. | | | | | | | | | | | | |
|  | | | | | | | | | | | | **H H M M** |
|  | | | | | | | | **BEGINNING TIME**  [*MILITARY*] | | | | 0004  **\_\_ \_\_ \_\_ \_\_** |
|  | | | | | | | | | | | | **SCREENING BOX** |
|  | | | | | | | | | | | | 0006 |
|  | | | | | | **[*ENUMERATOR NOTE: If screening box is code 1,***  ***complete the screening Supplement.***  ***If Screening box is not coded, begin with Section A.]*** | | | | | | |
|  | | | | | | 0014 **CEAP Match** | | | | 0016 **CEAP ID** | | |
|  | | | | **\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_** | | |
| [*Name, address and partners verified and updated if necessary*] | | | | | | | | | | | | |
| **POID**\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ | | | | **POID**\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ | | | | | | | | |
| PARTNER NAME | | | | PARTNER NAME | | | | | | | | |
| ADDRESS | | | | ADDRESS | | | | | | | | |
| CITY | STATE | ZIP | PHONE NUMBER | | CITY | | STATE | | ZIP | | PHONE NUMBER | |
| **POID**\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ | | | | **POID**\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ | | | | | | | | |
| PARTNER NAME | | | | PARTNER NAME | | | | | | | | |
| ADDRESS | | | | ADDRESS | | | | | | | | |
| CITY | STATE | ZIP | PHONE NUMBER | | CITY | | STATE | | ZIP | | PHONE NUMBER | |

|  |  |  |
| --- | --- | --- |
| **A** | **CORN FIELD SELECTION** | **A** |

|  |  |
| --- | --- |
|  |  |
| 1. **How many acres of corn did this operation plant for the 2015 crop year?** | **TOTAL PLANTED ACRES** |
| ► [*If no acres planted, review Screening Survey Information Form.*  *Make notes, then go to item 4 on back page***.**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 0050  **.\_\_\_\_** |
|  | |
|  | |
| 2. **I will follow a simple procedure to make a random selection from the corn fields**  **planted for the 2015 crop.** | |
|  | |
|  | **TOTAL NUMBER OF FIELDS PLANTED** |
| What is the TOTAL number of corn fields that were planted on this  operation?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 0020 |
|  | *[If only 1 field, enter 1 and go to item 4.]* |
|  | |
| 3. **Please list these fields according to identifying name/number or describe each field.**  **Then I will tell you which field has been selected**. | |
|  | |
| **►** [*If there are more than 18 fields make sure item* ***2*** *is* ***TOTAL*** *fields planted,*  a*nd list only the 18 fields closest to the operator’s permanent residence.*  *► If respondent is unable to identify or describe the fields, use the Field Selection Grid Supplement.]* | |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **FIELD NAME, NUMBER OR DESCRIPTION** |  | **FIELD NAME, NUMBER OR DESCRIPTION** |
| 1 |  | 10 |
| 2 |  | 11 |
| 3 |  | 12 |
| 4 |  | 13 |
| 5 |  | 14 |
| 6 |  | 15 |
| 7 |  | 16 |
| 8 |  | 17 |
| 9 |  | 18 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
|  | | | |
| **APPLY “RANDOM NUMBER’ LABEL HERE** |  | | |
|  | | | |
|  | | | |
| 4. **[ENUMERATOR ACTION:** | | | **SELECTED FIELD**  **NUMBER** |
| *Circle the pair of numbers on the above label associated with the last numbered field in item* 3*.*  *Select the field according to the number you circled on the label, and record the selected number.*  *If only 1 field, enter 1*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | 0021 |
|  | | |  |
| 5.**The field selected is (field name/number/description).**  **During this interview, the corn questions will be about this selected corn field.**  *[Be sure the operator can identify the selected field.]* | | | |
|  | | | |
|  | | **OFFICE USE**  **OY Field Substituted** | |
|  | | 0022 | |

|  |  |  |
| --- | --- | --- |
| **B** | **FIELD CHARACTERISTICS---**SELECTED FIELD | **B** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | |
|  | | | | | | | **ACRES** | |
| 1. **How many acres of corn did this operation plant in this field for the 2015 crop?**. . . . . . . . . . . . . . . . . | | | | | | | 1301 | .\_\_\_\_ |
|  | | | | | | | **CODE** | |
| a. Are the acres in this field **CERTIFIED ORGANIC**?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | **YES = 1** | | | 1311 | |
|  | | | | | | | **CODE** | |
| 2. **Were the acres in this field --** | 1. owned by this operation? 2. rented for CASH with the payment being a fixed cash amount? 3. rented for CASH with the payment being a flexible cash amount? 4. rented for a SHARE of the crop? 5. rented for some combination of CASH and SHARE of the crop? 6. used RENT FREE? | | | | |  | 1302 | |
|  |  | | | | |  |  | |
|  | | | | | | | **DOLLARS & CENTS PER ACRE** | |
| 3.[*If field is CASH RENTED (item 2 = 2, 3 or 5), ask*--]  **What was the cash rent paid per acre for this 2015 corn field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | 1303  **.\_\_\_ \_\_\_** | |
|  | | | | | | | **PERCENT** | |
| 4. [*If field is SHARE RENTED (item 2 = 4 or 5), ask*--]  **What was the landlord’s share of the crop from this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | 1304 | |
|  | | **DOLLARS & CENTS**  **PER ACRE** | | | **OR** | | **TOTAL DOLLARS** | |
| 5. [*If field is RENTED* (*item 2 = 2, 3, 4,or 5*), ask--]  **What was the total cost for all inputs provided by any landlord  and contractor for the 2015 crop?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  *(Include the costs for all inputs, such as seed, fertilizer, chemicals, technical services,  custom operations, and irrigation. Exclude real estate tax expenses, drying, and   lime costs paid by the landowner*.) | | 1305 | **.\_\_\_ \_\_\_** | |  | | 1306 | |
|  | |  | | | | |  | |
|  | | | | | | | **YEAR** | |
| 6. **What year did you** (*the operator listed on the label*) **start operating this field?**. . . . . . . . . . . . . . . . . . . . . . | | | | | | | 1307  **\_\_\_ \_\_\_ \_\_\_ \_\_\_** | |
|  | | | | | | |  | |
|  | | | | | | | **MM DD YY** | |
| 7. **On what date was this field planted?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | 1308  **\_\_ \_\_ \_\_ \_\_ \_\_ \_\_** | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | **INCHES** |
| 8. **What was the average corn row width?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | 1312 |
|  | | |  |
|  | **UNITS** | **UNIT CODES**  **for Seeding Rate**  1=Pounds/Acre  2=CWT/Acre  4=Bushels/Acre  25=Kernels-Seeds/Acre  38=Kernels-Seeds/Foot | |
| 9. **What was the seeding rate per acre the first time this field was planted?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1313  **.\_\_\_\_** | 1314 | |

|  |  |  |
| --- | --- | --- |
|  | **ACRES** | |
| 10. **How many acres in this field had to be replanted to corn?**  (*Number of acres times the number of times replanted*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1315 | **.\_\_\_\_** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | **DOLLARS & CENTS**  **PER UNIT** | | **UNIT CODE**  1=Pounds  2=Cwt  4=Bushel  22=Acre  23=Approx. 80,000 Kernel Bag | |
| 13. **What was the total cost per unit** (***Including*** *both your and the landlord’s and contractor’s share*) **of purchased seed for this field?** (***Include*** *cost of seed treatment and any seed technology fee*.). . . . . . . . . . . . . . . . . . . . . . . . . . | 1319 | | . \_\_\_ \_\_\_ | | 1320 |
|  |  | |  | |  |

|  |  |
| --- | --- |
| **SEED TYPE - CORN** | |
| 1. Genetically-modified **herbicide resistant** seed variety (*e.g. LibertyLink; Roundup Ready*) | 6 **Stacked** gene variety with both genetically-modified Bt-ECB and  herbicide resistant (*e.g. YieldGard + Roundup Ready*) |
| 1. Non-genetically-modified **herbicide resistant** seed variety  (*e.g. IMI-corn*) | 7 **Stacked** gene variety with both genetically-modified Bt-CRW and  herbicide resistant (*e.g. YieldGard Rootworm + Roundup Ready*) |
| 1. Genetically-modified **Bt** variety for insect resistance to control European Corn Borer (Bt-ECB) (*e.g. YieldGard, NatureGard, Knockout*) | 8 Triple **stacked** gene variety with genetically-modified Bt-ECB and   Bt-CRW plus herbicide resistant (*e.g. YieldGard Plus + Roundup Ready)* |
| 1. Genetically-modified **Bt** variety for insect resistance to control the  corn rootworm (Bt-CRW) (*e.g. YieldGard Rootworm*) | 9 None of the above |
| 1. **Stacked** gene variety with both genetically-modified Bt-ECB and  Bt-CRW (*e.g. YieldGard Plus*) |  |
|  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 14. **Which type of corn seed was used on the majority of this field--** [*Show Seed Type Code List from Respondent Booklet and choose one code*.] | | | | | | | **CODE** |
| a. in 2015. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | 1321 |
| b. in 2014 [*Leave blank if corn was not on this field in 2014*.]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | 1322 |
|  | | | | | | | |
|  | | | | | | **CODE** | |
| 15. **Did you purchase seed treated with an insecticide?**  (e.g.,Poncho, Gaucho or Cruiser seed treatment)  [***Exclude*** *seed treated with fungicides.*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | **YES = 1** | 1323 | |
|  | | | | | |  | |
|  | |  | |  | | **CODE** | |
| 16. [*If 14a = 1,2 or 9, ask---* **Which of the following reasons**  **influenced you the most in deciding**  **not to plant Bt corn in 2015 on**  **this field---**. . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 1 Did not expect to have enough corn borers and/or corn rootworms to justify the cost of Bt corn.  2 Concerned about finding a market for Bt corn.  3 This field was used as refuge in 2015.  4 Concerned about the environmental impact of Bt corn.  5 Not aware of Bt Seed.  6 Other, Specify.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | . . . . . . . . | | 1324 | |
|  | |  | |
|  | |  | |
|  | |  | |
|  | | | | | | | |
| 17. [*If item 14a does NOT equal 9, ask---*] **Resistant seed varieties offer several benefits.** | | | | | | | |
| **Did you choose the resistant seed variety used on this field primarily to---** | | | | | | | |
|  | 1 Increase yields through improved pest (weed or insect) control?  2 Decrease pesticide input costs?  3 Decrease machinery costs?  4 Improve ability to use or ease of using reduced tillage or no-till system?  5 Improve ability to use or ease of rotating crops?  6 Save management time or labor or improve ease of management?  7 Adopt more environmentally friendly practices?  8 For some other reason(s)? [*Specify* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_] | |  | | | **CODE** | |
|  | . . . . . . . . . . . . . . . . . . . . . . . | | | 1325 | |
|  |  | | |  | |
|  |  | | |  | |
|  |  | | |  | |

|  |  |
| --- | --- |
|  | **PERCENT** |

|  |  |  |  |
| --- | --- | --- | --- |
| 18. **What percentage of the field was used as refuge for the corn borer and/or corn rootworm in order to comply with Bt corn insect resistance management guidelines?**. . . . . . . . . . . | | | 1326 |
|  | | | **CODE** |
| 19. **Was the corn on this field planted with the intention of being harvested as---**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1 GRAIN  2 SILAGE  4 SEED  25 OTHER | . . . . . . . . . . . . . . . . . . . . . | 1327 |

|  |  |  |
| --- | --- | --- |
|  | | **CODE** |
| 20. **Has harvest of this field been completed?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1328 |
|  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 21. **Now I need information about the acres harvested** (*or to be harvested***) and the yields from this field.** | | | | |
| **How many acres in the corn field were** (*will be*)-- | **ACRES** | **1**  **What yield per acre did you get**  (*do you expect*  *to get*)  **for—**  **UNITS PER ACRE** | | **2**  **UNIT CODES**  1= POUNDS  2= CWT  3= TONS  4= BUSHELS  **UNIT CODES** |
| a. harvested for grain?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1329  .\_\_\_\_ | 1330 | **.\_\_\_\_** | 1331 |
| b. harvested for hay, silage, or green chop?. . . . . . . . . . . . . . . . . . . . . | 1332  **.\_\_\_\_** | 1333 | **.\_\_\_\_** | **TONS** |
| c. harvested for commercial seed contract?. . . . . . . . . . . . . . . . . . . . . | 1335  **.\_\_\_\_** | 1336 | **.\_\_\_\_** | 1337 |
| d. abandoned?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1338  **.\_\_\_\_** |  | |  |
| e. used for some other purpose?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1339  **.\_\_\_\_** |  | |  |

|  | | | |
| --- | --- | --- | --- |
| **CROP CODE LIST for item 25**  PREVIOUSLY **PLANTED CROP was---** | | | |
| 1 Alfalfa hay | 196 Tobacco, flue cured | 16 Peanuts | 26 Soybeans |
| 11 Hay, all other | 193 Tobacco, burley | 17 Dry Peas | 28 Sugarbeets |
| 190 Barley | 281 Cotton, Upland | 20 Potatoes | 30 Sunflowers |
| 3 Dry Beans | 282 Cotton, Pima | 21 Rice | 142 Vegetables |
| 85 Canola | 302 CRP | 22 Rye | 163 Wheat, durum |
| 310 Clover | 311 Grasses other than clover | 98 Safflower | 164 Wheat, other spring |
| 6 Corn for grain | 94 Mustard Seed | 25 Sorghum for grain | 165 Wheat, winter |
| 5 Corn for silage | 15 Oats | 24 Sorghum for silage | 318 **No crop planted** during this period |
|  | 31 Sweet Potatoes |  |  |

|  |  |  |
| --- | --- | --- |
|  | | |
| 25. **Next, I need to know what crops were previously PLANTED on the majority of this field, including cover crops** | | |
| **What crop was PLANTED on this field in---** | | |
|  | **CROP NAME** | **CROP CODE** |
| a. **FALL of 2014**?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |  | 1352 |
| b. **SPRING/SUMMER of 2014**?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |  | 1353 |
| c. **FALL of 2013**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |  | 1354 |
| d. **SPRING/SUMMER of 2013**?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |  | 1355 |
| e. **FALL of 2012**?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |  | 1356 |
| f. **SPRING/SUMMER of 2012**?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |  | 1357 |
|  | | |

|  |  |  |
| --- | --- | --- |
|  | | |
| 26. **In 2015, did your land-use practices**  **for this field include---** | | **CODE** |
| a. terraces?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1358 |
| b. temporary or permanent levees?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1359 |
| c. grassed waterways?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1360 |
| d. filter strips or riparian buffers on or adjoining the field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1361 |
| e. contour farming?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1362 |
| f. strip cropping?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1363 |
| g. underground outlets such as tile drainage?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1364 |
| h. other drainage channels or diversions?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1365 |

|  |  |  |
| --- | --- | --- |
|  | | **CODE** |
| 27. **Has the Natural Resource Conservation Service** (NRCS) **classified any**  **part of this field as “Highly Erodible”?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1366 |
|  |  |  |
| 28. **Have you been notified by NRCS that this field contains a wetland?**. . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1367 |
|  |  |  |
| 29. **In 2015, did you receive technical 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*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1368 |
|  |  |  |
| 30. **During all or part of 2015, was this field enrolled in any public programs for which you or the landlord received** (*or will receive*) **cost-sharing payments, stewardship payments, or incentive payments for conservation practices on this field.** [*Be sure to consider grassed waterways and filter strips or riparian buffers on or adjoining this field*]?. . . . . . . . . . . . . . | **YES = 1** | 1369 |
| [*If item 30 is YES, ask*---] |  |  |
| a. Was this field enrolled in the Conservation Security Program(CSP) in 2015?. . . . . . . . . . . . . . | **YES = 1** | 1370 |
|  |  |  |
| b. Was this field enrolled in the Environmental Quality Incentives Program (EQIP) in 2015?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1371 |

|  |  |  |  |
| --- | --- | --- | --- |
| 31. **During 2015, did any written plan of the following types cover this field and if so, in what year was the plan implemented?**  (*A “written plan" is a plan prepared in accordance with Federal, State, or district standards.)* | | **CODE** | **YEAR IMPLEMENTED** |
| a. Conservation plan specifying practices to reduce soil erosion?. . . . . . . . . . . . . . | **YES = 1** | 1372 | 1373  **\_\_\_ \_\_\_ \_\_\_ \_\_\_** |
| b. Comprehensive nutrient management plan specifying practices for  applying both fertilizer and manure?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1374 | 1375  **\_\_\_ \_\_\_ \_\_\_ \_\_\_** |
| c. Nutrient management plan specifying practices for land application  of manure only?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1376 | 1377  **\_\_\_ \_\_\_ \_\_\_ \_\_\_** |
| d. Pest management plan specifying pesticide use and/or other  practices controlling weeds, insects, or plant disease?. . . . . . . . . . . . . . . . . . | **YES = 1** | 1378 | 1379  **\_\_\_ \_\_\_ \_\_\_ \_\_\_** |
| e. Irrigation water management plan specifying practices for applying  or conserving irrigation water?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1380 | 1381  **\_\_\_ \_\_\_ \_\_\_ \_\_\_** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | |  |
| [*If items 31a, b, c, d, or e = YES, ask---*] | | | **CODE** |
| 32. **During 2015, did you pay any technical service provider or consultant to  develop or write any of these plans which included this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | 1382 |
| a. [*If YES, ask---*] | **DOLLARS & CENTS**  **PER ACRE** | **OR** | **TOTAL DOLLARS** |
| What was the cost for developing these plans for this field?  (***Include*** *landlord’s/contractor’s share.*  *(****Exclude*** *cost of construction or materials*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1383  **.\_\_\_\_ \_\_\_\_** |  | 1384 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 33. **Was the corn on this field covered by Federal Crop Insurance in 2015?** | | | | | **CODE** |
| **YES** – [*Enter code 1 and continue.*] | **NO** – [*Go to item 34.*]. . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | 1385 |
|  | | | | | |
| a. Which coverage did you obtain?. . . . . . . . | 1. Basic catastrophic insurance (*Federal CAT)* 2. Buy-up above basic federal CAT level 3. Revenue insurance 4. Other Federal Crop insurance |  | | | **CODE** |
| . . . . . . . . | | | 1386 |
|  | | | | | |
| 34. **Was the corn on this field covered by private crop insurance?** (*Hail, wind, freeze, etc.*). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | | 1387 |

|  |  |  |
| --- | --- | --- |
| **C** | **FERTILIZER and NUTRIENT APPLICATIONS---**SELECTED FIELD | **C** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | **CODE** | **EDIT TABLE** |
| 1. **Were commercial FERTILIZERS applied to this field for the 2015  corn crop?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0202 | 0201 |
| 2. [*If COMMERCIAL fertilizer applied, continue, else go to item 5.*] | | | **NUMBER** |
| 3. **How many commercial fertilizer applications were made to this field  for the 2015 crop?**  (***Include*** *applications made by airplanes and custom applicators*). . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | 0203 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4. **Now I need to record information for each application** | | | | |
| **CHECKLIST** | |  | | |
| **INCLUDE** | **EXCLUDE** |  | | |
| Custom applied fertilizers | Micronutrients |  | **T-TYPE** | **TABLE** |
| Fertilizers applied in the fall of  2014 and those applied earlier  if this field was fallow in 2014. | Unprocessed manure  Fertilizer applied to previous  crops in this field |  | **2** | **001** |
| Commercially prepared manure | Lime and Gypsum/landplaster | **Line**  **99** | **Office Use**  **Lines in Table** | 0213 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | |
|  | | | | | **APPLICATION CODES for COLUMN 6** | | | | | | | |
|  | | | | | 1 Broadcast, ground without incorporation  2 Broadcast, ground with incorporation  3 Broadcast, by aircraft  4 In seed furrow | | | | 5 In irrigation water  6 Chisel, injected or knifed in  7 Banded/Sidedressed in or over row  8 Foliar or directed spray | | | |
|  | | | | | | | | | | | | |
| **L**  **I**  **N**  **E** | **2**  **MATERIALS USED**  [*Enter percentage analysis or*  *actual pounds of plant nutrients applied per acre*.]  [*Show Common Fertilizers in Respondent Booklet*.] | | | | | **3**  **What**  **quantity**  **was**  **applied**  **per**  **acre?**  [*Leave this column blank*  *if actual nutrients*  *were*  *reported*] | **4**  [Enter  material  code.]  1 Pounds  12 Gallons  19 Pounds  of actual  nutrients | **5**  **When was**  **this applied?**  1 In the fall  before seeding  2 In the spring  before seeding  3 At seeding  4 After seeding | | **6**  **How was**  **this**  **applied?**  [*Refer to*  *code*  *list above*] | **7**  **How many**  **acres were**  **treated**  **In this**  **application?**  **ACRES** | |
|
|
|
|
| **N**  Nitrogen | **P2O5**  Phosphate | **K2O**  Potash | **S**  Sulfur | |
| **01** | 0205 | 0206 | 0207 | 0214 | | 0208 | 0209 | 0210 | | 0211 | 0212 | **.\_\_\_\_** |
| **02** | 0205 | 0206 | 0207 | 0214 | | 0208 | 0209 | 0210 | | 0211 | 0212 | **.\_\_\_\_** |
| **03** | 0205 | 0206 | 0207 | 0214 | | 0208 | 0209 | 0210 | | 0211 | 0212 | **.\_\_\_\_** |
| **04** | 0205 | 0206 | 0207 | 0214 | | 0208 | 0209 | 0210 | | 0211 | 0212 | **.\_\_\_\_** |
| **05** | 0205 | 0206 | 0207 | 0214 | | 0208 | 0209 | 0210 | | 0211 | 0212 | **.\_\_\_\_** |
| **06** | 0205 | 0206 | 0207 | 0214 | | 0208 | 0209 | 0210 | | 0211 | 0212 | **.\_\_\_\_** |
| **07** | 0205 | 0206 | 0207 | 0214 | | 0208 | 0209 | 0210 | | 0211 | 0212 | **.\_\_\_\_** |
| **08** | 0205 | 0206 | 0207 | 0214 | | 0208 | 0209 | 0210 | | 0211 | 0212 | **.\_\_\_\_** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | |  | |  |
|  | **T – TYPE**  **0** | **TABLE**  **000** | | **LINE**  **00** | |

|  |  |  |
| --- | --- | --- |
|  |  | **CODE** |
| 5. **Was gypsum applied to this field for the 2015 corn crop?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0218 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 6. **Were any fertilizers applied by custom applicators?** | | | | | | |
| **YES** - [*Continue*.] | **NO** - [*Go to item 7*.] | | | | | |
| a. Are you able to report the cost of fertilizer materials and custom application separately? | | | | | **OFFICE USE** | |
| **YES** - [*Continue*.] | **NO** - [*Go to item 7.*] | | | | 0215 | |
|  | | | | | | |
| b. Excluding the cost of the fertilizer materials, how much was spent for custom application of fertilizers on this field?  **(*Include*** *landlord and contractor costs***.**  ***Exclude*** *custom application of lime, gypsum, & purchased manure*.)  [*If material and application costs can’t be separated,*  ***exclude*** *them here and record the total in item 7.*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **DOLLARS & CENTS**  **PER ACRE** | | **OR** | | **TOTAL DOLLARS** |
| 0219 | **.\_\_\_\_ \_\_\_\_** |  | | 0220 |
|  | | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | **DOLLARS & CENTS**  **PER ACRE** | | **OR** | **TOTAL DOLLARS** |
| 7. **What was the TOTAL COST of all fertilizer products applied to**  **this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  (***Include*** *landlord and contractor costs***.** *Include**costs for sulfur**and micronutients***. *Exclude*** *lime, gypsum, & purchased manure*.)  [*If* ***custom******applied****,**include the cost of materials ONLY,*  *unless materials and application costs cannot be separated.*  *Include materials applied to this field if it was fallow in 2014*.*]* |  | 0221 | **.\_\_\_\_ \_\_\_\_** | 0222 |
|  | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | | |  |
| [*If planted with the intention of harvesting for grain (item B19 = 1*)*, ask*---.] | |  | | **BUSHELS**  **PER ACRE** |
| 8. **What was your yield** **goal at planting for this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | 0223 |
|  | | | |  |
| 9. **Was a soil or plant tissue test performed on this corn field in 2014**  **or 2015 for the 2015 crop?** | | | |  |
| **YES** [*Continue*.] | **NO** [*Go to item 14*.] | | |  |
|  | | | | **CODE** |
| 10. **Was a soil test for phosphorus performed on this corn field in 2014**  **or 2015 for the 2015 crop?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | 0225 |
| a. [*If phosphorus test done, ask*---] | | | | **POUNDS**  **PER ACRE** |
| How many pounds of phosphorus (*per acre*) were recommended  (*by the phosphorus test*)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | 0226 |
|  | | | | **CODE** |
| 11. **Was a soil test for nitrogen performed on this corn field in 2014**  **or 2015 for the 2015 crop?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | 0227 |
| a. [*If nitrogen test done, ask---*] | | | | **POUNDS**  **PER ACRE** |
| How many pounds of nitrogen (*per acre*) were recommended  (*by the nitrogen test*)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | 0228 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | **CODE** |
| 12. **Was a plant tissue test for nutrient deficiency performed on this field in 2014**  **or 2015 for the 2015 corn crop?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | **YES = 1** | | 0229 |
|  | |  | | |  |  |
|  | | **DOLLARS & CENTS PER ACRE** | | | **OR** | **TOTAL DOLLARS** |
| 13. **How much was spent for these soil and plant tissue tests**  **on this field?** *[****Include*** *landlord and contractor costs.]*. . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 0230 | **.\_\_\_\_ \_\_\_\_** | | 0231 |
|  | | | | | | |
| a. If tests were done at no cost explain--- | 1 Soil/plant tissue test provided free of charge  by dealer, crop consultant, or extension service.  2 Soil/plant tissue test costs were included in the total fertilizer costs reported in item 7.  3 Some other reason. | | |  | | **CODE** |
|  | . . . . . . . | | 0232 |
|  |  | | |
|  | | | | | | |

|  |  |  |
| --- | --- | --- |
| 14. [***Enumerator Action: Refer to the Fertilizer Table, column 2.***  *If nitrogen (N) was applied, complete items* *15 and* *16.*  *If NO nitrogen applied, go to item* *17.*] | | |
|  | | |
| 15.**Was the amount of nitrogen you decided to apply to this field based on---**  [*Enter code “1” for all that apply.*] | | |
|  | | **CODE** |
| a. Results of a soil or plant tissue test?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0233 |
| b. Crop consultant recommendation?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0234 |
| c. Fertilizer dealer recommendation?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0235 |
| d. Extension Service recommendation?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0236 |
| e. Cost of nitrogen and/or expected commodity price?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0237 |
| f. Contractor recommendation?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0238 |
| g. Routine practice (operator’s own determination based on past  experience, yield goal, etc.)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0239 |
|  | | **CODE** |
| 16. **Did you use any product to slow the breakdown of nitrogen on this field?**  (*For example a nitrification inhibitor such as N-Serve or a urease inhibitor such as Agrotain*). . . . . . . . . . . . . . . . . . . | **YES = 1** | 0241 |
|  | | **CODE** |
| 17. **Is lime ever applied to this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0242 |
| a. [*If no lime applied, go to item 18---else continue*.] | | **YEARS** |
| On average, how many years are there between applications of **lime** to this field?. . . . . . . . . . . . . . . . . | | 0243 |
|  | | **TONS PER ACRE** |
| b. How many tons of **lime** were applied per acre the last time it was applied to  this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 0244  .\_\_\_\_ |
| c. [*If rented,* (*item B2 =2, 3, 4, or 5*) *ask---*] | | **PERCENT** |
| Considering the last time it was applied, what percent of the total cost of lime and  its application was paid by the landlord(s)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 0245 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18. **Was manure or other organic material** (*e.g. biosolids*) **applied to this field for the**  **2015 corn crop?** (***Exclude*** *commercially prepared manure*.) | | | | | | | | | | | | | | | **CODE** | |
| **YES** - [*Enter code 1 and continue.*] | | | **NO** - [*Go to* ***Section D***.]. . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | | | | | | 0246 | |
|  | | | | | | | | | | | | | | | **ACRES** | |
| a. How many acres was manure applied to?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | | | | | | | | | 0247  **.\_\_\_\_** | |
| b. What was the amount of manure applied  to this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 1 TONS  2 GALLONS  3 BUSHELS | |  | **CODE** | | **AND** | | **UNITS PER ACRE** | | | | | **OR** | **TOTAL UNITS** | |
|  | |  | | …... | 0248 | |  | | 0249 | **.\_\_\_ \_\_\_** | | | |  | 0250  **.\_\_\_\_** | |
|  | | | | | | | | | | | | | | | **MILES** | |
| c. What is the distance between the manure storage/production location and  the manured field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | | | | | | | | | 0251  **.\_\_\_\_** | |
|  | | | | 1 TONS  2 GALLONS  3 BUSHELS | | | | . . . . . . . . | | **CODE** | | | **AND** | | **TOTAL UNITS** | |
| d. What was the capacity of the manure spreader used to  apply manure to this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | |  | | | |  | | 0252 | | |  | | 0253 | **.\_\_\_\_ \_\_\_\_** |
| e. What was the percent of manure applied--- | | | | | | | | | | | | | | | **PERCENT** | |
| (i) in the fall before planting?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | | | | | | | | **+** | 0254 | |
| (ii) in the spring before planting?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | | | | | | | | **+** | 0255 | |
| (iii) after planting?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | | | | | | | | **+** | 0256 | |
|  | | | | | | | | | | | | | | | **100%** | |
| f. Was the manure--- | 1 Lagoon liquid?  2 Slurry liquid?  3 Semi – dry or dry? | | | | |  | | | | | | | | | **CODE** | |
|  |  | | | | | . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | | | 0257 | |
|  | | | | | | | | | | | | | | | | |
| g. Was the manure---- | 1 Broadcast or sprayed *without* incorporation?  2 Broadcast or sprayed *with* incorporation?  3 Injected/knifed in?  4 Sprayed using irrigation systems? | | | | | | | | | |  | | | | **CODE** | |
|  |  | | | | | | | | | | . . . . . . . . . . . | | | | 0258 | |
|  | | | | | | | | | | | | | | | | |
| h. Was the major source of the  manure from--- | 1 Beef cattle?  2 Dairy cattle?  3 Hogs?  4 Sheep?  5 Poultry?  6 Equine?  7 Biosolids (municipal sludge, food waste, etc.)?  8 Other (Specify)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_? | | | | | | | | | | |  | | | **CODE** | |
|  |  | | | | | | | | | | | . . . . . . . . . . | | | 0259 | |
|  |  | | | | | | | | | | |  | | |  | |
|  | | | | | | | | | | | | | | | | |
| i. Was the manure--- | 1 Produced on this operation?  2 Purchased (including any payment for   transportation or application)?  3 Obtained at no cost off this operation?  4 Obtained with compensation? | | | | | | | | | | |  | | | **CODE** | |
|  |  | | | | | | | | | | | . . . . . . . . . . | | | 0260 | |

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  | **CODE** |
| j. Was any manure applied to this field tested for nutrient content prior to application?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0261 |
|  |  |  |
| k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0262 |
| [*If YES, ask*---] |  | **PERCENT** |
| (i)By what percent did you reduce the commercial nitrogen fertilizer application  rate on this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 0263 |

|  |  |  |
| --- | --- | --- |
|  | | **CODE** |
| 19. **Were the manure APPLICATION RATES to this field influenced by Federal,**  **State, or local restrictions?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0264 |
| a. [*If item 19 is YES, ask---*]  What basis was used to determine these manure application rate restrictions-- | | |
| (i) Nitrogen requirement of the crop?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0265 |
| (ii) Phosphorus requirement of the crop?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0266 |

|  |
| --- |
| **NOTES** |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

|  |  |  |
| --- | --- | --- |
| **D** | **PESTICIDE APPLICATIONS---**SELECTED FIELD | **D** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| **Now I have some questions about all the pesticides used on this field**  **for the 2015 corn crop including both custom applications**  **and applications made by this operation.** | | | |
|  | | **CODE** | **EDIT TABLE** |
| 1. **Were any herbicides, insecticides, fungicides or other chemicals**  **used on the corn field for the 2015 crop?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0302 | 0301 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [*Probe for applications made in the fall of 2014 (and those made earlier if this field was fallow*).]  [If *no pesticides applied, go to* ***Section E***.] | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | |  | | **T - TYPE** | | | | | **TABLE** | |
| **Include** defoliants, fungicides, herbicides,  insecticides, and pesticides | | | | | | **Exclude** fertilizers reported earlier and  seed treatments. | | | | | | |  | | **3** | | | | | **001** | |
| **Include** biological and botanical pesticides. | | | | | |  | | | | | | | **LINE**  **99** | | **OFFICE USE**  **LINE IN TABLE** | | | | | 0319 | |
|  | | | | | | | | | | | | | | | | | | | | | |
| **CHEMICAL**  **PRODUCT**  **NAME** |  | | **2** | **3** | | | | **4** | **5** | | | **6 OR 7** | | | | | | | | | **8** |
| **L**  **I**  **N**  **E** | | **What products**  **were applied**  **to this field?**  [*Show product*  *codes from*  *Respondent*  *Booklet.*] | **Was this**  **product**  **bought in**  **liquid or dry form?**  [*Enter L or D*] | | | | **Was this part**  **of a tank mix?**  [*If tank mix,*  *enter line*  *number of*  *first product*  *in mix*.] | **When was**  **this applied?**  1 BEFORE planting  3 AT planting  4 AFTER planting | | | **How much**  **was applied**  **per acre**  **per**  **application?** | | | | **What was**  **the total**  **amount**  **applied per**  **application**  **in this field?** | | | | | [*Enter unit code.*]  1 Pounds  12 Gallons  13 Quarts  14 Pints  15 Liquid Ounces  28 Dry Ounces  30 Grams |
|  | **01** | | 0305 |  | | | | 0306 | 0307 | | | 0308 | | **.\_\_\_ \_\_\_** | | 0309 | | | **.\_\_\_ \_\_\_** | | 0310 |
|  | **02** | | 0305 |  | | | | 0306 | 0307 | | | 0308 | | **.\_\_\_ \_\_\_** | | 0309 | | | **.\_\_\_ \_\_\_** | | 0310 |
|  | **03** | | 0305 |  | | | | 0306 | 0307 | | | 0308 | | **.\_\_\_ \_\_\_** | | 0309 | | | **.\_\_\_ \_\_\_** | | 0310 |
|  | **04** | | 0305 |  | | | | 0306 | 0307 | | | 0308 | | **.\_\_\_ \_\_\_** | | 0309 | | | **.\_\_\_ \_\_\_** | | 0310 |
|  | **05** | | 0305 |  | | | | 0306 | 0307 | | | 0308 | | **.\_\_\_ \_\_\_** | | 0309 | | | **.\_\_\_ \_\_\_** | | 0310 |
|  | **06** | | 0305 |  | | | | 0306 | 0307 | | | 0308 | | **.\_\_\_ \_\_\_** | | 0309 | | | **.\_\_\_ \_\_\_** | | 0310 |
|  | **07** | | 0305 |  | | | | 0306 | 0307 | | | 0308 | | **.\_\_\_ \_\_\_** | | 0309 | | | **.\_\_\_ \_\_\_** | | 0310 |
|  | **08** | | 0305 |  | | | | 0306 | 0307 | | | 0308 | | **.\_\_\_ \_\_\_** | | 0309 | | | **.\_\_\_ \_\_\_** | | 0310 |
|  | **09** | | 0305 |  | | | | 0306 | 0307 | | | 0308 | | **.\_\_\_ \_\_\_** | | 0309 | | | **.\_\_\_ \_\_\_** | | 0310 |
|  | **10** | | 0305 |  | | | | 0306 | 0307 | | | 0308 | | **.\_\_\_ \_\_\_** | | 0309 | | | **.\_\_\_ \_\_\_** | | 0310 |
|  | **11** | | 0305 |  | | | | 0306 | 0307 | | | 0308 | | **.\_\_\_ \_\_\_** | | 0309 | | | **.\_\_\_ \_\_\_** | | 0310 |
|  | **12** | | 0305 |  | | | | 0306 | 0307 | | | 0308 | | **.\_\_\_ \_\_\_** | | 0309 | | | **.\_\_\_ \_\_\_** | | 0310 |
|  | **13** | | 0305 |  | | | | 0306 | 0307 | | | 0308 | | **.\_\_\_ \_\_\_** | | 0309 | | | **.\_\_\_ \_\_\_** | | 0310 |
|  | **14** | | 0305 |  | | | | 0306 | 0307 | | | 0308 | | **.\_\_\_ \_\_\_** | | 0309 | | | **.\_\_\_ \_\_\_** | | 0310 |
| 2. [*For pesticides not listed in Respondent Booklet, specify*---] | | | | | | | | | | | | | | | | | | | | | |
| **LINE** |  | **Pesticide Type**  (Herbicide, Insecticide  Fungicide, etc.) | | |  | | **EPA No. or Trade name**  **And Formulation** | | |  | **Form Purchased**  (Liquid or Dry) | | | | | |  | **Where Purchased**  [ASK only if EPA No.  cannot be reported.] | | | |
|  |  | | |  | | |  | | | | | |  | | | |
|  |  | | |  | | |  | | | | | |  | | | |
|  |  | | |  | | |  | | | | | |  | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| **APPLICATIONS CODES for column 9** | | | | | | |  | | | | [**ENUMERATOR NOTE**:  Use these columns only if  TOTAL COST  (item 4 on next page)  cannot be provided.] | | | | |  |
| 1 Broadcast, ground without incorporation  2 Broadcast, ground with incorporation  3 Broadcast, by aircraft  4 In Seed furrow  5 In Irrigation water | | | | 6 Chisel/Injected or Knifed in  7 Banded in or over row  8 Foliar or directed spray  9 Spot treatments | | |  | | | |  |
|  | | | |  |
| **↓** | | | |  | | |  | | | |  | | | | |  |
| [*If column 9 = 9, then column 6 and column 10 must be blank*] | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | **9** | **10** | | **11** | | **12** | | **OPTIONAL ITEM 4** | | | | | | | | |
|  |  |  | |  | |  | | **What was the cost per unit of the product?** | | | | | | | | |
|  |  |  | |  |  | | |  | | | | **UNIT CODE** | | | | |
| **L**  **I**  **N**  **E** | **How**  **was**  **this**  **product**  **applied?**  [*Enter code*  *from above*.] | **How many**  **acres in this**  **field were**  **treated with**  **this product?**  **ACRES** | | **How many**  **times was it**  **applied?**  **NUMBER** | **Were these**  **applications**  **made by—**  1 Operator, Partner or family member?  2 Custom applicator?  3 Employee/Other? | | | **DOLLARS**  **and**  **CENTS**  **PER UNIT** | | | | 1 Pounds  12 Gallons  13 Quarts  14 Pints | | 15 Liquid Ounces  28 Dry Ounces  30 Grams | | |
| **01** | 0311 | 0312 | **.\_\_\_\_** | 0313 | 0316 | | | 0317 | | **.\_\_\_\_ \_\_\_\_** | | 0318 | | | | |
| **02** | 0311 | 0312 | **.\_\_\_\_** | 0313 | 0316 | | | 0317 | | **.\_\_\_\_ \_\_\_\_** | | 0318 | | | | |
| **03** | 0311 | 0312 | **.\_\_\_\_** | 0313 | 0316 | | | 0317 | | **.\_\_\_\_ \_\_\_\_** | | 0318 | | | | |
| **04** | 0311 | 0312 | **.\_\_\_\_** | 0313 | 0316 | | | 0317 | | **.\_\_\_\_ \_\_\_\_** | | 0318 | | | | |
| **05** | 0311 | 0312 | **.\_\_\_\_** | 0313 | 0316 | | | 0317 | | **.\_\_\_\_ \_\_\_\_** | | 0318 | | | | |
| **06** | 0311 | 0312 | **.\_\_\_\_** | 0313 | 0316 | | | 0317 | | **.\_\_\_\_ \_\_\_\_** | | 0318 | | | | |
| **07** | 0311 | 0312 | **.\_\_\_\_** | 0313 | 0316 | | | 0317 | | **.\_\_\_\_ \_\_\_\_** | | 0318 | | | | |
| **08** | 0311 | 0312 | **.\_\_\_\_** | 0313 | 0316 | | | 0317 | | **.\_\_\_\_ \_\_\_\_** | | 0318 | | | | |
| **09** | 0311 | 0312 | **.\_\_\_\_** | 0313 | 0316 | | | 0317 | | **.\_\_\_\_ \_\_\_\_** | | 0318 | | | | |
| **10** | 0311 | 0312 | **.\_\_\_\_** | 0313 | 0316 | | | 0317 | | **.\_\_\_\_ \_\_\_\_** | | 0318 | | | | |
| **11** | 0311 | 0312 | **.\_\_\_\_** | 0313 | 0316 | | | 0317 | | **.\_\_\_\_ \_\_\_\_** | | 0318 | | | | |
| **12** | 0311 | 0312 | **.\_\_\_\_** | 0313 | 0316 | | | 0317 | | **.\_\_\_\_ \_\_\_\_** | | 0318 | | | | |
| **13** | 0311 | 0312 | **.\_\_\_\_** | 0313 | 0316 | | | 0317 | | **.\_\_\_\_ \_\_\_\_** | | 0318 | | | | |
| **14** | 0311 | 0312 | **.\_\_\_\_** | 0313 | 0316 | | | 0317 | | **.\_\_\_\_ \_\_\_\_** | | 0318 | | | | |
|  |  |  |  |  |  | | |  | |  | |  | | | | |
|  | | | | | | | | | **T-TYPE**  **0** | | | | **TABLE**  **000** | | **LINE**  **00** | |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | |
| 3. **Were any chemicals or pesticides applied by custom applicators?** | | | | | | | | | |
| **YES** – [*Continue.*] | | **NO** - [*Go to item 4*.] | | | | | | | |
|  | | | | | | | | | **OFFICE USE** |
| a. Are you able to report the cost of chemical product and custom application  separately? | | | | | | | | | 0324 |
| **YES** – [*Continue.*] | | NO - [*Go to item 4*.] | | | | | | | |
| b. Excluding the cost of the chemical product, how much was spent for  custom application of chemicals and pesticides on this field?  (***Include*** *operator and landlord cost.)*. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **DOLLAR & CENTS**  **PER ACRE** | | | | | **OR** | **TOTAL DOLLARS** |
| 0331 | | | **.\_\_\_\_ \_\_\_\_** | |  | 0332 |
|  | | | **DOLLAR & CENTS**  **PER ACRE** | | | | | **OR** | **TOTAL DOLLARS** |
| 4. **What was the TOTAL COST of all chemical products applied to**  **this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  **Include** *operator and landlord cost, defoliants, herbicides, insecticides, fungicides,*  *surfactants, wetting agents, growth regulators, and materials applied before planting*  *and during 2014 fallow period.* **Exclude** *seed treatments* | | | |  | 0334 | **.\_\_\_\_ \_\_\_\_** | |  | 0335 |
|  | | | | | |
|  |  | | | | | |  | | |
|  | **NOTE 1**: *If respondent cannot report TOTAL COST, itemize cost for each product in*  *optional columns in Pesticide Table, item D1.* | | | | | |  | | |
|  | **NOTE 2**: *For custom applications. If respondent cannot report cost of chemical*  *product separately from application costs, report both in item 4*. | | | | | |  | | |

|  |  |  |
| --- | --- | --- |
| **E** | **PEST MANAGEMENT PRACTICES---**SELECTED FIELD | **E** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Now I have some questions about your pest management decisions and practices**  **used on this field for the 2015 corn crop.**  **By pests, we mean WEEDS, INSECTS, and DISEASES.** | | | | | **T-TYPE**  **0** | **TABLE**  **000** | **LINE**  **00** |
|  | | | | | | | |
| 1. **[Enumerator Action: Were PESTICIDE APPLICATIONS reported in Section D?]** | | | | | | | |
| **YES** - [*Continue*.] | **NO** - [*Go to item**10.*] | | | | | | |
|  | | | | | | **CODE** | |
| 2. **Was weather data used to assist in determining either the need or timing of**  **pesticide applications?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | **YES = 1** | 0800 | |
| 3. **Were any biological pesticides such as Bt** (*Bacillus thuringiensis*)**, insect growth**  **regulators, neem or other natural/biological based products sprayed or applied to**  **manage pests in this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | **YES = 1** | 0801 | |
| 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** | 0802 | |
|  | | | | | | | |
| 5. [***Enumeration Action: Were HERBICIDES used (pesticide product codes 4000-4999*),**  ***Section D, item 1, column 2*?]** | | | | | | | |
| **YES** - [*Continue*.] | **NO** - [*Go to item 8.*] | | | | | | |
|  | | | | | | **CODE** | |
| 6. **Were herbicides applied to this corn field BEFORE weeds emerged?**  [*If item 6 = YES, ask---*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | **YES = 1** | 0803 | |
|  | | | | |  | **CODE** | |
| a. Were the herbicides applied BEFORE weeds emerged on this corn  field based primarily on--- | | 1 routine treatments of what **weeds** are usually present?  **OR**  2 weed scouting from the previous year? | . . . . . . . . . . . . . . . . | | | 0804 | |
|  | |  |  | |  |  | |
|  | | | | | | **CODE** | |
| 7. **Were herbicides applied to this corn field AFTER weeds emerged?**  [*If item 7 = YES, ask---*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | **YES = 1** | 0805 | |
| a. Were the herbicides applied AFTER  weeds emerged on this corn  field based primarily on--- | | 1 routine treatments of what **weeds** are usually present?  **OR**  2 weed scouting from the current year? |  | |  | **CODE** | |
|  | |  | . . . . . . . . . . . . . . . . | | | 0806 | |
|  | | | | | | | |
| 8. **[*Enumeration Action: Were INSECTICIDES used (pesticide product codes 1000 – 1999*),**  ***in Section D, item 1, column 2*?]** | | | | | | | |
| **YES** - [*Continue*.] | **NO** - [*Go to item 10.*] | | | | | | |
|  | | | | | | **CODE** | |
| 9. **Were the insecticides applied to this corn**  **field based primarily on---** | | 1 routine treatments of what **insects** are usually present?  **OR**  2 scouting for insect infestation? | | . . . . . . . . . . . . . . | | 0807 | |
|  | |  | |  |  |  | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | **CODE** |
| 10. **In 2015, how was this field primarily scouted for insects, weeds,**  **diseases, and/or beneficial organisms---** | 1 By conducting general observations while performing routine tasks? [*Enter code 1 and go to item 13*.]  2 By deliberately going to the field specifically for scouting activities? [*Enter code 2 and go to item 11.*]  3 This field was not scouted.  [*Enter code 3 and go to item 19.*] | . . . . . . . . . . . | 0808 |
|  |  |
|  |  |

|  |  |  |
| --- | --- | --- |
|  | | **CODE** |
| 11. **Was an established scouting process used** (*systematic sampling, recording counts, etc*.)  **or were insect traps used in this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0809 |
| 12. **Was scouting for pests done in this field due to---** |  | **CODE** |
| a. a pest advisory warning?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0810 |
| b. a pest development model?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0811 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| 1 | | 2 | 3 |
| 13. **Was this corn field scouted for--** | **YES = 1** | [*If* ***YES****, ask--*-]  **Was the**  **infestation level for** [*column 1*]—  1 Worse than normal  2 Normal  3 Less than normal  **CODE** | [*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** |
| a. weeds?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 0812 | 0813 | 0814 |
| b. insects or mites?. . . . . . . . . . . . . . . . . . . . . . . . |  |  |  |
| (i) Corn Borer?. . . . . . . . . . . . . . . . . . . . . . . . . | 0818 | 0819 | 0820 |
| (ii) Corn Rootworm?. . . . . . . . . . . . . . . . . . . . | 0821 | 0822 | 0823 |
| (iii) Other Insects?. . . . . . . . . . . . . . . . . . . . . . . | 0824 | 0825 | 0826 |
| c. diseases?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 0827 | 0828 | 0829 |
|  | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | | |  |  |
| 14.[*If item 13, column 3 = 3 or 4), ask--- else go to item 15.*]  **How much did you pay for the scouting services for this field?**  [***Include*** *landlord and contractor cost*.]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **DOLLARS & CENTS**  **PER ACRE** | | | **OR** | **TOTAL DOLLARS** |
| 0830 | **.\_\_\_ \_\_\_** | |  | 0831 |
|  | | | | | **OFFICE USE** |
| a. [***Note:*** *If scouting performed at no cost, explain*:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_] | | | . . . . . . . | | 0333 |
|  | | | | | **CODE** |
| 15. **Were written or electronic records kept for this field to track the activity or numbers of weeds, insects or diseases?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | | 0832 |
| 16. **Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in field?**. . . . . . . . . . . . . . . . | | | **YES = 1** | | 0833 |
| 17. **Did you use field mapping of previous weed problems to assist you in making weed management decisions?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | | 0834 |

|  |  |  |
| --- | --- | --- |
| 19. **Did you do any of the following other type(s) of pest management for the specific   purpose of managing or reducing the spread of pests in this field?**  [*Enter code “1****”*** *for all that apply*.] | | **CODE** |
| a. Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0836 |
| b. Plow down crop residues (*using conventional tillage*)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0837 |
| c. Remove crop residue?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0838 |
| d. Rotate crops in this field during the past 3 years?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0839 |
| e. Maintain ground covers, mulches, or other physical barriers?. . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0840 |
| f. Choose crop variety because of specific resistance to certain pest?. . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0841 |
| g. Use no-till or minimum till?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0842 |
| h. Plan planting locations to avoid cross infestation of pests?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0843 |
| i. Adjust planting or harvesting dates?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0844 |
| j. Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fences lines?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0845 |
| k. Clean equipment and field implements after completing field work to reduce the spread of pests?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0846 |
| l. Adjust row spacing, plant density or row directions?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0847 |
|  |  |  |
| 20. **Were water management practices such as irrigation scheduling, controlled**  **drainage, or treatment of retention water used on this field to manage for pests  or toxic producing fungi and bacteria** (*i.e.aflatoxin*)**?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0851 |
| 21. **Was protection of beneficial organisms a factor in your pest control decisions for this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0852 |
| 22. **Did you cultivate this field for weed control****?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0853 |
| [*If yes, ask---*] |  | **NUMBER** |
| a. How many times?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 0854 |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | |  |
|  | **UNITS PER ACRE** | | **UNIT CODES**  1= POUNDS  2= CWT  3= TONS  4= BUSHELS |
| 23. **If untreated** (*either with insecticides or Bt seed*), **how much yield loss** (*e.g. bushels per acre*) **do you think the CORN BORERS would most likely cause on this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 0855 | .\_\_\_\_ | 0856 |
|  |  | |  |
| 24. **If untreated** (*either with insecticides or Bt seed*), **how much yield loss** (*e.g. bushels per acre*) **do you think the CORN ROOTWORMS would  most likely cause on this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 0857 | .\_\_\_\_ | 0858 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PEST MANAGEMENT INFORMATION** | | | | | | |
| 25. [*Show Pest Management Information Sources Code List from Respondent Booklet*.] | | | | | | |
| **Which outside sources of information on pest management practices and products were**  **used for the 2015 corn crop?** | | | | | | |
| (*Starting with the most influential in determining the pest management practices used on this*  *operation, enter code(s) for up to 3 sources.*) | | | | | | |
| **PEST MANAGEMENT INFORMATION SOURCES CODE LIST** | | | | | | |
| 1 County, Cooperative, or University Extension Advisor,  Publications or demonstrations |  | | | | [Enter up to 3 source codes.] | |
| 2 Farm Supply or Chemical Dealer |  | | |  | | |
| 3 Commercial Scouting Service |  | | | **FIRST** | | |
| 4 Independent Crop Consultant or  Pest Control Advisor/Custom Applicator | . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | 0859 | | |
| 5 Other Growers or Producers |  | | |  | | |
| 6 Producer Associations, Newsletters or Trade Magazines |  | | | **SECOND** | | |
| 7 Electronic Information Services  (*DTN, Internet, World Wide Web, etc*.) |  | | | 0860 | | |
| 8 Employee Pest Advisor |  | | |  | | |
| 9 Other – (Specify:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) |  | | | **THIRD** | | |
| 10 None – Operator used no **outside** information source |  | | | 0861 | | |
|  | | | | **CODE** | | |
| 26. **Other than pesticide applicator training, have you** (*the operator*) **attended any**  **training session on pest identification and management since October 1, 2014?**. . . . . . . . | | | **YES = 1** | 0862 | | |
|  | | | | | | |
|  | | **Completion Code for Pest Management Data** | | | | |
|  | | 1- Incomplete/Refusal | | | | 0340 |

|  |
| --- |
| **NOTES** |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

|  |  |  |
| --- | --- | --- |
| **F** | **FIELD OPERATIONS---**SELECTED FIELD | **F** |

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Including custom operations, I need to list field work performed**  **by machines on this field for the 2015 corn crop. Please…** | | | **CHECK LIST**  **Include** all field work using machines for--- |
| ► Begin with the first field operation after harvest of previous crop,  (*If fallow during 2014, list operations starting with fall 2013*.) | | | Land Forming/Levee Building  Tillage  Preparing for Irrigation  Planting  Fertilizer & Pesticide applications  Harvesting & Hauling to storage or first point of sale  **Exclude**  Lime & Gypsum\landplaster applications |
| ► List the operations in order through harvest and hauling of this  crop to storage or first point of sale, and | | |
| ► Maintain the order of tandem hook-ups. | | |
|  | **CODES FOR COLUMN 5** |  |
|  | 1. You (The Operator)?   2 Partner?  3 Unpaid Worker?  4 Paid Part-time or Seasonal Worker?   1. Paid Full-time Worker   6 Custom Applicator?---[*Skip columns 6-11*.] |  |
|  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **2** | **3** | **4** | **5** | **[IF CUSTOM(*column 5 = code 6* ), *skip columns 6-11*]** | | | | | | | | |
|  |  |  |  | **6** | **7** | **8** | | **9** | | **10** | | 11 |
| **S**  **E**  **Q**  **U**  **E**  **N**  **C**  **E**  **No.** | **What**  **operation**  **or**  **equipment**  **was used?** | [*Record machine*  *code*  *from*  *Respondent*  *Booklet.*]  **CODE** | **Who was**  **the machine**  **operator-**  [*Enter*  *code*  *from*  *above*.]  **CODE** | **What**  **was the**  **size or**  **swath**  **of the**  [*machine*]  **used?** | [*Record size code*.]  1 Feet  2 Row  3 Moldboard   (*bottoms*)   **Hauling**  4 Pounds  5 Bushels  6 Tons  **CODE** | **How**  **many**  **acres**  **were**  **covered?**  1**/**  **ACRES** | | **Which Power Source**  **was used?**  1=Tractor (<50 HP)  2=Tractor (50-99 HP)  3=Tractor (100-149 HP)  4=Tractor (150-199 HP)  5=Tractor (>=200 HP)  66=Animal Drawn  77=Pick up  99=Self Propelled  2/  **CODE** | | **What was the fuel type of the tractor?**  [*Record fuel type only if Power code equals 1-5*]  1=diesel  2=gasoline  3=LP gas  4=other  **CODE** | | **What is the model year of the tractor.**  [*Record model year*  *for*  *Power codes 1 -5*]  **YEAR** |
| 0351 |  | 0352 | 0353 | 0354 | 0355 | 0356 | **.\_\_\_** | 0357 |  | 0358 | | 0359  **\_\_ \_\_ \_\_ \_\_** |
| 0361 |  | 0362 | 0363 | 0364 | 0365 | 0366 | **.\_\_\_** | 0367 |  | 0368 | | 0369  **\_\_ \_\_ \_\_ \_\_** |
| 0371 |  | 0372 | 0373 | 0374 | 0375 | 0376 | **.\_\_\_** | 0377 |  | 0378 | | 0379  **\_\_ \_\_ \_\_ \_\_** |
| 0381 |  | 0382 | 0383 | 0384 | 0385 | 0386 | **.\_\_\_** | 0387 |  | 0388 | | 0389  **\_\_ \_\_ \_\_ \_\_** |
| 0391 |  | 0392 | 0393 | 0394 | 0395 | 0396 | **.\_\_\_** | 0397 |  | 0398 | | 0399  **\_\_ \_\_ \_\_ \_\_** |
| 0401 |  | 0402 | 0403 | 0404 | 0405 | 0406 | **.\_\_\_** | 0407 |  | 0408 | | 0409  **\_\_ \_\_ \_\_ \_\_** |
| 0411 |  | 0412 | 0413 | 0414 | 0415 | 0416 | **.\_\_\_** | 0417 |  | 0418 | | 0419  **\_\_ \_\_ \_\_ \_\_** |
| 0421 |  | 0422 | 0423 | 0424 | 0425 | 0426 | **.\_\_\_** | 0427 |  | 0428 | | 0429  **\_\_ \_\_ \_\_ \_\_** |
| 0431 |  | 0432 | 0433 | 0434 | 0435 | 0436 | **.\_\_\_** | 0437 |  | 0438 | | 0439  **\_\_ \_\_ \_\_ \_\_** |
| 0441 |  | 0442 | 0443 | 0444 | 0445 | 0446 | **.\_\_\_** | 0447 |  | 0448 | | 0449  **\_\_ \_\_ \_\_ \_\_** |
| 0451 |  | 0452 | 0453 | 0454 | 0455 | 0456 | **.\_\_\_** | 0457 |  | 0458 | | 0459  **\_\_ \_\_ \_\_ \_\_** |
| 0461 |  | 0462 | 0463 | 0464 | 0465 | 0466 | **.\_\_\_** | 0467 |  | 0468 | | 0469  **\_\_ \_\_ \_\_ \_\_** |
| 0471 |  | 0472 | 0473 | 0474 | 0475 | 0476 | **.\_\_\_** | 0477 |  | 0478 | | 0479  **\_\_ \_\_ \_\_ \_\_** |
| 0481 |  | 0482 | 0483 | 0484 | 0485 | 0486 | **.\_\_\_** | 0487 |  | 0488 | | 0489  **\_\_ \_\_ \_\_ \_\_** |
| 0491 |  | 0492 | 0493 | 0494 | 0495 | 0496 | **.\_\_\_** | 0497 |  | 0498 | | 0499  **\_\_ \_\_ \_\_ \_\_** |
| 0501 |  | 0502 | 0503 | 0504 | 0505 | 0506 | **.\_\_\_** | 0507 |  | 0508 | | 0509  **\_\_ \_\_ \_\_ \_\_** |
| 0511 |  | 0512 | 0513 | 0514 | 0515 | 0516 | **.\_\_\_** | 0517 |  | 0518 | | 0519  **\_\_ \_\_ \_\_ \_\_** |
| 0521 |  | 0522 | 0523 | 0524 | 0525 | 0526 | **.\_\_\_** | 0527 |  | 0528 | | 0529  **\_\_ \_\_ \_\_ \_\_** |
| 1/ *For backhoes, disk border maker, ditch closer,ditcher, levee-plow disk, quarter drain machine, rear mounted blade, and hauling operations, enter* ***TOTAL HOURS****.* | | | | | | | | | | | **OFFICE USE** | |
| 2/ *If trucks other than pick-ups are used as the power source, use truck codes in Respondent Booklet. If power source equals  66, 77, or 99, skip columns 10 and 11.* | | | | | | | | | | | 0032 | |

|  |  |  |  |
| --- | --- | --- | --- |
| 2. **Was a self-propelled harvester used to harvest the corn field?** | | | |
| **YES** - [*Continue.*] | **NO** - [*If NO, go to item 3.*] | | |
| [*If item 2 = YES, ask---*] | | **YEAR** | |
| a. What is the model year of the self-propelled harvester(s) used to harvest corn  from this field? (*Report the average year if more than one was used*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 1100 | \_\_\_ \_\_\_ \_\_\_ \_\_\_ |

|  |  |  |
| --- | --- | --- |
|  | | |
| 3. **I need some information about the additional labor, other than the labor just reported operating**  **machines, that worked on this field.** | | |
| Please report the paid and unpaid labor that worked on this field to produce the  2015 corn crop. | | |
|  | **1**  **How many hours did** (*type of worker*)**spend on this field---** | |
| **TYPE OF WORKERS** | **a.**  **scouting for weeds and insects?**  **HOURS** | **b.**  **irrigating?**  **HOURS** |
| You (The Operator) | 1102 | 1103 |
| Partner(s) | 1104 | 1105 |
| Unpaid workers | 1106 | 1107 |
| Paid part-time or seasonal workers (***Exclude*** *custom and contract labor*) | 1108 | 1109 |
| Paid full-time workers (***Exclude*** *custom and contract labor*) | 1110 | 1111 |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | **DOLLARS & CENTS**  **PER HOUR** | |
| 4. **What was the average hourly wage rate paid to full-time hired workers?**  (***Exclude*** *custom and contract workers, payroll taxes and benefits.*). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 1114 | **.\_\_\_\_ \_\_\_\_** |
|  | | **DOLLARS & CENTS**  **PER HOUR** | |
| 5. **What was the average hourly wage rate paid to part-time or seasonal hired workers?**  (***Exclude*** *custom and contract workers, payroll taxes and benefits.*). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 1115 | **.\_\_\_\_ \_\_\_\_** |
|  | | **CODE** | |
| 6. **Was any contract labor used on this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1116 | |
|  | | **DOLLARS & CENTS**  **PER ACRE** | |
| a. *If YES, ask* – What was the average cost per acre for this contract labor?  (***Include*** *landlord and contractor costs*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 1117 | **.\_\_\_\_ \_\_\_\_** |
|  | | **PERCENT** | |
| 7. **What percent of the total hours worked on this field by UNPAID workers**  **was worked by children under 16 years old?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 1118 | |

|  |  |  |  |
| --- | --- | --- | --- |
| 8. **Now I need some information on how much was spent for custom services used on this**  **field for the 2015 corn crop.** | | | |
|  | | | |
| √ | 1  **CUSTOM SERVICE**  **Which of these services were done for the 2015 corn crop on this field?**  [*Check √ box for each service performed; refer to item F1 if necessary*.] | 2  **Including**  **landlord’s/contractor’s**  **cost,**  **how much was spent**  **for**  *[column 1*] **on**  **this field for the 2015**  **corn crop?**  **DOLLARS & CENTS**  **PER ACRE** | |
|  | a. custom land preparation, shaping and/or leveling?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1119 | **.\_\_\_ \_\_\_** |
|  | b. custom cultivating?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1120 | **.\_\_\_ \_\_\_** |
|  | c. custom planting and/or reseeding?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1121 | **.\_\_\_ \_\_\_** |
|  | d. custom harvesting?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1122 | **.\_\_\_ \_\_\_** |
|  | e. custom hauling to storage or point of first sale?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  (\_\_ \_\_**.\_\_** **\_\_** X\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**÷\_\_\_\_\_\_\_\_\_\_\_\_= \_\_ \_\_.\_\_ \_\_**  Dollars & Cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & Cents per acre.) | 1126 | **.\_\_\_ \_\_\_** |
|  | 1. custom harvesting and hauling from field to storage or point of first sale?. . . . . . . . . . . . . . . . .   (\_\_ \_\_**.\_\_** **\_\_** X\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**÷\_\_\_\_\_\_\_\_\_\_\_\_= \_\_ \_\_.\_\_ \_\_**  Dollars & Cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & Cents per acre.) | 1127 | **.\_\_\_ \_\_\_** |
|  | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9. **Did you hire any technical or consultant services to make recommendations for this**  **field?** (*such as for nutrient, pest control, irrigation, or precision farming recommendations*) | | | | | | | | |
| **YES** - [*Continue.*] | **NO** - [Go to item *11*.] | | | | | | **CODE** | |
| a. Nutrient recommendations/management service?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | **YES = 1** | | 1129 | |
| b. Collect soil or tissue samples?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | **YES = 1** | | 1130 | |
| c. Pest control recommendations/management service?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | **YES = 1** | | 1131 | |
| d. Pest scouting?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | **YES = 1** | | 1132 | |
| e. Irrigation management service (*i.e. irrigation scheduling*)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | **YES = 1** | | 1133 | |
| f. Yield map or remote sensing map development/interpretation?. . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | **YES = 1** | | 1134 | |
| g. Other custom or technical service (Specify:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) | | | | | **YES = 1** | | 1135 | |
|  | | | | | | | | |
| 10. **If YES to any of these services, what was the cost for all of these services?** | | |  | | | | | |
| (***Include*** *landlord/contractor cost.*  ***Exclude*** *cost of soil/tissue tests or scouting cost reported earlier*.  *Do not report costs for any of these services if they were previously   reported as part of the costs of materials and/or application.*). . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **DOLLARS & CENTS**  **PER ACRE** | | | | **OR** | **TOTAL DOLLARS** | |
| 1136 | | **.\_\_\_ \_\_\_** | |  | 1137 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | | | **CODE** |
| 11. **Was there** (*will there be*) **a yield monitor on the equipment used to harvest**  **this corn field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | | 1138 |
| [*If YES, continue; else go to item 12.*] | | | | | |
| a. Was there (*will there be*) a yield map produced from this harvest using information from the yield monitor?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | 1139 | |
| b. Did you use the yield monitor information to--- [*Enter code for all that apply*.] | |  | | | |
| (i) monitor crop moisture content to determine need for crop drying?. . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | | 1140 |
| (ii) add/improve tile drainage?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | | 1141 |
| (iii) add/improve irrigation equipment/irrigation water application?. . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | | 1142 |
| (iv) conduct in-field experiments (*e.g., compare fertilizer applications*,  *seed varieties, herbicides, pesticides, etc*)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | | 1143 |
| (v) negotiate new crop leases?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | | 1144 |
| (vi) document yields for crop insurance, real estate tax, or farm  program purposes?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | | 1145 |
| (vii) accurately divide crop production among partners and/or for  landlord crop shares?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | | 1146 |
| (viii) other uses [specify\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_] | . . . . . . . . . . . . . | | **YES = 1** | | 1147 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | | | **CODE** |
| 12. **During 2014 or 2015, was a GPS** (*Global Positioning System*) **device used**  **to produce a map of the soil properties of this field?**  (*such as nitrate levels, PH,soil type, etc*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | 1148 |
| [*If item 12 is YES, Ask—*] | | | |  |
|  | | | |  |
|  | 1 soil tests from this field?  2 a machine that measured electrical conductivity  of the soil in this field (*e.g.Veris machine*)?  3 other? *Specify*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  | | **CODE** |
| a. Was the information collected  above based on---. . . . . . . . . . . . . . . . . | . . . . . . . . . . . . . . . . . | | 1149 |

|  |  |  |
| --- | --- | --- |
|  | | **CODE** |
| 13. **Did you have an airplane or satellite provide an image or photograph of this**  **field either at the start or during the 2015 growing season?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1151 |

|  |  |  |  |
| --- | --- | --- | --- |
| 14. **Was a variable rate applicator** (*i.e., variable rate technology or VRT; include on-the-go systems  such as GreenSeeker*) **used on this field for---** | | | |
| a. fertilization or liming?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1152 | |
|  | |  | |
| (i) *If YES, ask*---Did you use a variable rate applicator for---  [*Enter code “1” for all that apply*.] | | | |
| (1) nitrogen applications?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | | 1153 |
| (2) phosphorus applications?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | | 1154 |
| (3) potash applications?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | | 1155 |
| (4) lime applications?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | | 1156 |
| (5) manure applications?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | | 1157 |
| b. seeding?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | | 1158 |
| c. pesticide applications?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | | 1159 |

|  |  |  |
| --- | --- | --- |
|  | | |
| 15. **Was a guidance or auto-steering system** (*connected to G.P.S*.) **usedwith**  **any machine operation on this field** (*e.g. light bar, assisted steering,  automatic steering, etc. – exclude custom operations)?*. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1212 |

|  |  |  |
| --- | --- | --- |
| **G** | **IRRIGATION** | **G** |

|  |  |  |
| --- | --- | --- |
|  | **ACRES** | |
| 1. **How many acres in this field were irrigated for the 2015 corn crop?** [*If none, go to* ***Section******H***.]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1160 | **.\_\_\_\_** |
|  | | |
| 2. **Now, I have some questions about irrigation systems and water used on this field**  **for the 2015 corn crop.** | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **↓** | | **UNIT** | **SYSTEM 1** | | **SYSTEM 2** | |
| a. What type(s) of irrigation system(s) was used to irrigate  this field?  [*Show* ***System Type Codes*** *in the Respondent Booklet. Enter* ***System***  ***Type Code*** *for up to two systems covering the most field acres*.] | | **SYSTEM**  **TYPE**  **CODE** | 1161 | | 1175 | |
| b. What was the total quantity of water applied to this field during  the entire growing season?  [***Include*** *ALL water used from both on-farm and off-farm sources*.]. . . . . . . . . . . . . | | **INCHES PER**  **ACRE**  **OR**  **TOTAL**  **ACRE -FEET** | 1162 | | 1176 | |
| 1163 | | 1177 | |
| [*If operator cannot provide item 2b, ask* (i) & (ii)---]; *else go to 2c* | |  |  | |  | |
| (i) What is the **total** number of **hours** this system was used to  apply water to this field during the corn growing  season?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **TOTAL**  **HOURS** | 1164 | | 1178 | |
| (ii) How many gallons per minute were applied?. . . . . . . . . . . . . . . . . . . . . . | | **GALLONS**  **PER MINUTE** | 1165 | | 1179 | |
| c. What percent of the water used to irrigate this field through this  system came from surface water sources?. . . . . . . . . . . . . . . . . . . . . . . . . . . | | **PERCENT** | 1166 | | 1180 | |
| d. What was the number of times this field was irrigated during the  corn growing season using this system?  [***Include*** *any pre-plant irrigation*.] | | **NUMBER OF**  **IRRIGATIONS** | 1167 | | 1181 | |
| e. Was the pump type---  [*Enter code for most common pump type.]*  *(If more than one pump in the system, enter*  *type for pump closest to water source.]* | 1. **TURBINE?** 2. **SUBMERSIBLE?** 3. **CENTRIFUGAL?** 4. **BOOSTER?** 5. **SIPHON?** 6. **NO PUMP?**   [*If code 99, go to item* j.] | **CODE** | 1168 | | 1182 | |
| f. What was the average pumping rate?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **GALLONS**  **PER MINUTE** | 1169 | | 1183 | |
| g. *[If item 2a = code 1-9 (PRESSURE SYSTEM), ask---]*  What was the system operating pressure?. . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **POUNDS**  **PER**  **SQUARE INCH** | 1170 | | 1184 | |
| h. What was the primary motor type used  to pump the water? | 1. **DIESEL** 2. **GASOLINE** 3. **LP GAS** 4. **NATURAL GAS** 5. **ELECTRICITY** 6. **SOLAR POWER** | **CODE** | 1171 | | 1185 | |
| i. What was the average motor size?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **HORSEPOWER** | 1172 | | 1186 | |
| j. [*If NO PUMP was used (item e = 99), ask*---]  What was the average flow rate?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **GALLONS**  **PER MINUTE** | 1173 | | 1187 | |
| k. How many other acres on this operation were irrigated using  this field’s irrigation system during the 2015 growing season?  [***Exclude*** *this field.*] | | **ACRES** | 1174 | **.\_\_\_\_** | 1188 | **.**\_\_\_\_ |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **DOLLARS & CENTS**  **PER ACRE** | | **OR** | **TOTAL DOLLARS** |
| 3. **What was the cost of the fuel or electricity used to irrigate this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1208 | **.\_\_\_ \_\_\_** |  | 1209 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4. **Was any water purchased to irrigate this field?**  (***Include*** *landlord's share and purchases from all sources*.) | | | | | | | **CODE** | |
| **YES** - [*Enter code 1 and continue*.] | **NO** - [*Go to item 5.*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | 1189 | |
|  | | | | | | | **PERCENT** | |
| a. What percent of the water used on this field was purchased?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | 1190 | |
|  | | | **DOLLARS & CENTS**  **PER ACRE** | | | **OR** | **TOTAL DOLLARS** | |
| b. What was the total cost for the water purchased for  this field during the 2015 growing season?  (***Include*** *landlord and contractor costs and ditch maintenance costs*.). . . . . . . . . . . . . | | | 1191 | **.\_\_\_ \_\_\_** | |  | 1192 | |
| 5. [*If SIPHON TUBES were used (item 2a = 10 or 11), ask*---] | | | | | | | **TOTAL DOLLARS** | |
| **What would be the total cost to replace all the siphon tubes used on this field?**. . . . . . . . . . . . . . . . . | | | | | | | 1193 | |
| 6. [*If POLY PIPE system were used (item 2a = 14*) *ask*---] | | | | | | | **TOTAL DOLLARS** | |
| **What was the total amount spent for poly pipe used on this field during**  **the 2015 growing season?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | 1194 | |
| 7. [*If GATED PIPE system were used (item 2a = 15 or 16)*, *ask*---] | | | | | | | **INCHES** | |
| a. What was the average diameter of gated pipe used to irrigate this field?. . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | 1195 | |
|  | | | | | | | **FEET** | |
| b. What was the total length of gated pipe used?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | 1196 | |
| 8. **Were wells used to supply irrigation water for this field?** | | | | | | | **CODE** | |
| **YES** - [*Enter code 1 and continue*.] | | **NO** - [*Go to item 9*.]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | 1197 | |
|  | | | | | | | **NUMBER** | |
| a. How many wells were used to irrigate this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | 1198 | |
|  | | | | | | | **INCHES** | |
| b. What was the average diameter of the outer well casing?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | 1199 | |
|  | | | | | | | **FEET** | |
| c. What was the average pumping depth of these wells during the irrigation season?  [*Pumping depth is the depth to water at the start of the irrigation season,*  *plus an average decline in the water level caused by pumping during the irrigation season*.]. . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | 1200 | |
|  | | | | | | | **CODE** | |
| d. Did this well(s) have a water meter or other flow measurement device?. . . . . . . . . . . . . . . . . . . | | | | | **YES = 1** | | 1201 | |
| e. Were other fields irrigated using water pumped from well(s) that supplied  water to the selected field? | | | | | | | **CODE** | |
| **YES** - [*Enter code 1 and continue*.] | | **NO** - [*Go to item 9*.]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | 1202 | |
|  | | | | | | | **ACRES** | |
| (i) Excludingthis field, how many other acres on this operation were irrigated  using the same well(s) during the 2015 growing season?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | 1203 | **.\_\_\_\_** |

|  |  |  |
| --- | --- | --- |
| 9. **Other than pipe that is part of the system, was any additional mainline or lateral**  **pipe used to carry water from the source to this field?**  (***Include*** *underground pipe.*) | | |
| **YES** - [*Continue.*] | **NO** - [*Go to item 10*.] | |
|  | | **INCHES** |
| a. What was the average diameter (*in inches*) of the most common type  of this additional pipe used?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 1205 |
|  | | **FEET** |
| b. How many feet of this additional pipe were used to bring water to this field?. . . . . . . . . . . . . . . . . . . . . . . | | 1206 |
|  | |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **RUN-OFF CODES**  1 retained at the end of the field?  2 re-used to irrigate on the farm?  3 collected in evaporation ponds on the farm?  4 drained from the farm?  5 there is no run off. |  | **CODE** |
| 10. **Is the run-off from this field---**. . . . . . . . . . . . . . . . . | . . . . . . . . . . . | 1207 |
|  | |  |  |

|  |  |  |
| --- | --- | --- |
| **H** | **MANAGEMENT** | **H** |

|  |  |  |  |
| --- | --- | --- | --- |
| 1. **In response to high fuel prices during the 2015 crop year for corn, did you:** | | | |
|  | | | **CODE** |
| a. reduce the number of field operations such as tillage, cultivation, or nutrient and pesticide applications? (*i.e., compared to what you would have otherwise done on this field*)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | 1210 |
|  | |  |  |
| b. leave the crop in the field to dry longer than you would have otherwise done on this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | 1211 |
|  | |  |  |
| c. reduce the amount of irrigation water (*i.e., compared to what you would  have otherwise applied on this field*)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | 1220 |
|  | |  |  |
| d. change other production practices on this field in response to high  fuel prices? [*If yes, specify*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_] | . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1213 |
|  | | | |
| 2. **In response to high fertilizer prices during the 2015 crop year for corn, did you:** | | | |
|  | |  |  |
| a. reduce the application rate of commercial nitrogen fertilizer? (*i.e., compared to what you would have otherwise applied on this field*)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | 1214 |
| [*If YES, ask*---] | |  | **PERCENT** |
| (i) by what percent did you reduce the amount of commercial nitrogen  fertilizer for 2015?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | 1215 |
|  | |  | **CODE** |
| b. change the type of commercial nitrogen fertilizer products applied  (*i.e., compared to what you would have otherwise applied on this field*)?  [*e.g*. *less anhydrous ammonia and more UAN*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | 1216 |
|  | |  |  |
| c. increase the application rate of manure or other organic fertilizers  (*i.e., compared to what you would have otherwise applied on this field*)?. . . . . . . . . . . . . . . . . . | | **YES = 1** | 1217 |
|  | |  |  |
| d. manage fertilizer more closely, with such practices as soil testing, split applications, variable rate applications, or soil incorporation (*i.e., compared to what you would have otherwise done on this field*)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | 1218 |

|  |
| --- |
| **CONCLUSION** |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LOCATION OF SELECTED FIELD** | | | | | | | | | | | |
| 1. **I need to locate the selected field of corn on**  **this map.** | | | **COUNTY NAME** | | | | | | | **OFFICE USE**  **COUNTY FIPS**  **CODE** | |
| **What county is the corn field in?**. . . . . . . . . . . . . . . . . . . | | |  | | | | | |  | 0010 | |
| **Field description**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | |  | | | | | | | | |
| **FOR STATES WITH GPS UNITS ONLY** |  | **LATITUDE** | | |  | **LONGITUDE** | | | | | |
| **Field location**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **N** | 0054 | | **\_\_\_ \_\_\_. \_\_\_ \_\_\_. \_\_\_ \_\_\_** | **W** | 0055 | **\_\_\_ \_\_\_ \_\_\_. \_\_\_ \_\_\_. \_\_\_ \_\_\_** | | | | |
|  |  |  | | *d d m m s s* |  |  | *d d d m m s s* | | | | |
| 2. [**ENUMERATOR ACTION:** *Mark map to indicate where the selected corn field is located*.   *Be sure the “X” marked on map is in county identified above*.] | | | | | | | | | | | |
| 3. **We will need additional information to complete this study. We will contact you in February**  **or March, 2016, to collect it. I’ll call you then to set up a time that is good for you.** | | | | | | | | | | | |
|  | | | | | | | | | | **CODE** | |
| 4. **Would you like to receive a copy of the results of this survey in the mail?** (Results will also be available on the Internet at <http://www.usda.gov/nass/> **&** <http://www.ers.usda.gov/>.). . . . . . . . . . | | | | | | | | **YES** = **1** | | 0099 | |
|  | | | | | | | |  | | **HH MM** | |
| 5. **ENDING TIME** [*MILITARY*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | | | | 0005  \_\_ \_\_ \_\_ \_\_ | |
|  | | | | | | | | | |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **RECORDS USE** | | | | |
| 6. [*Did respondent use farm/ranch records to report---*] | | | | **CODE** |
| a. [***fertilizer*** *data*?]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | 0011 |
| b. [***pesticide*** *data?*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | 0012 |
| c. [*majority of this* ***expense*** *data*?]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | 0013 |
| **SUPPLEMENTS USED** | | | | **NUMBER** |
|  | | **FERTILIZER**  **APPLICATIONS** | | 0041 |
| 7. [*Record the total number of each type of supplement used to*  *complete this interview.*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **PESTICIDE**  **APPLICATIONS** | | 0042 |
|  | | **FIELD**  **OPERATIONS** | | 0043 |
|  | | | | |
|  | | | | |
| Reported by:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Telephone: (\_\_\_\_\_\_)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Response** | | **Respondent** | | **Mode** | | **Enum** | **Eval.** | **Date**  **MM DD YY** | **Optional** | **Optional** |
| 1-Comp  2-R  3-Inac | 9901 | 1- Op/Mgr  2-Sp  3-Acct/Bkpr  4-Partner  9-Other | 9902 | 2-Tel  3-Face-to- Face | 9903 | 0098 | 0100 | 0007  **\_\_\_ \_\_\_ \_\_\_ \_\_\_05** | 0002 | 0003 |
| S/E Name | | | | | | | | | | |