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| **AGRICULTURAL RESOURCE MANAGEMENT SURVEY** | | | | | | | | | |
|  | | | | | | OMB No. 0535-0218  Approval Expires: 7/31/20XX  Project Code: 906  SMetaKey: 1312  Phase II | | | |
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| **SURVEY_LOGO_1:USDA_logo_bw.gif** | | **new_nass_logo_bw** | **NATIONAL**  **AGRICULTURAL**  **STATISTICS**  **SERVICE** |
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|  |  |  |  |  |  | | National Agricultural Statistics Service  U.S Department of Agriculture  NOC Division  9700 Page Avenue, Suite 400  St. Louis, MO 63132-1547  Phone: 1-888-424-7828  Fax: 1-855-415-3687  E-mail: nass@nass.usda.gov | | |

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| **CORN PRODUCTION PRACTICES AND COSTS REPORT FOR 2020** |

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| **VERSION**  **8** | **STATE**  **\_\_\_ \_\_\_** | **ID**  **\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_** | **TRACT**  **01** | **SUBTRACT**  **\_\_\_ \_\_\_** | **C-TYPE**  **105** |  |

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| **CONTACT RECORD** | | |
| DATE | TIME | NOTES |
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| INTRODUCTION:  [*Introduce yourself, and ask for the operator. Rephrase in your own words*.]  The information you provide will be used for statistical purposes only. Your responses will be kept confidential and any person who willfully discloses ANY identifiable information about you or your operation is subject to a jail term, a fine, or both. This survey is conducted in accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws. For more information on how we protect your information please visit: https://www.nass.usda.gov/confidentiality. 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** |  | | **SCREENING BOX** |  |
| **BEGINNING TIME**  [*MILITARY*] | 0004 |  |  | 0006 |  |
| **\_\_\_ \_\_\_ \_\_\_ \_\_\_** |  |  |

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| [*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 |

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

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|  | **TOTAL PLANTED ACRES** | |
| 1. **How many total acres of corn did this operation plant for the 2020 crop year?** . . . . . . . . . . . | 0050 | **.\_\_\_\_** |
| [*If no acres were planted, review Screening Survey Information Form, make notes, then go to Item 4 on back page*.] | | |

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| a. Did you produce any acres of **CERTIFIED ORGANIC** corn?. . . . . . . . . . . . . . . . . . . . | | | | **YES = 1** | | 1064 |
| b. Of the total (item 1) acres, how many were planted using/as -- | | | | | | |
|  | **TOTAL ACRES** | | | |  | **NUMBER OF FIELDS** |
| (i) Conventional corn?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 583 | | .\_\_ | | **+** | 1065 |
| (ii) Certified organic corn?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 730 | .\_\_ | | | **+** | 1066 |

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| **I will follow a simple procedure to make a random selection from the** **corn fields planted for the 2020 crop.** | |
| 2. **What is the TOTAL number of** **corn fields that were planted on this operation?**  [*If only one field, enter “1” and go to item 4.*] . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **TOTAL NUMBER OF FIELDS PLANTED** |
| 0020 |

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| 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.*] | |

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| **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 |

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| **APPLY “RANDOM NUMBER” LABEL HERE** |  | |
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| 4. [**ENUMERATOR ACTION:** *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 one field, enter 1.*] . . . . . . . . . . . . . . . . . . . . . . . . . | | **SELECTED FIELD**  **NUMBER** |
|  | | 0021 |
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| 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.*] |
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| 6. For the randomly selected field above, please provide the Farm Service Agency (FSA): | **NUMBER** |
| a. Farm Number. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1070 |
| b. Tract Number. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1071 |
| c. Field Number. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1072 |

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|  | **OFFICE USE**  **OY Field Substituted** | | |
|  | | 0022 |

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

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| 1. **How many acres of corn did this operation plant in this field for the** **2020 crop?** . . . . . . . . . . . . . | **ACRES** | |
| 1301 | **.\_\_** |

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|  | | **CODE** | |
| a. Are the acres in this field **CERTIFIED ORGANIC**?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1300 | |
| [*If* ***YES****, continue. If* ***NO****, go to item 2*.] |  | **DOLLARS & CENTS** | |
| b. What was the cost, per acre, for third party organic certification?. . . . . . . . . . . . . . . . . . . . . . . . . . | | 1891 | **.\_\_ \_\_** |

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| 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? | . . . | | **CODE** |
|  |  |  | | 1302 |
|  |  |  |  | |
| 3. [*If field is CASH RENTED* (item 2 = 2, 3, or 5)*, ask item 3*; *else go to item 4.*]  **What was the cash rent paid per acre for this 2020 corn field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | **DOLLARS & CENTS**  **PER ACRE** |
|  | | | | 1303  **.\_\_ \_\_** |

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| 4. [*If field is SHARE RENTED* (item 2 = 4 or 5)*, ask*--- ]  **What was the landlord’s share of the crop from this field?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | **PERCENT** |
|  | | | | 1304 |
| 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**  **for the 2020 crop on the selected field?** (***Include*** *the costs for all inputs,*  *such as seed, fertilizer, chemicals, technical services, custom operations, drying and irrigation.*  ***Exclude*** *real estate tax expenses and lime costs paid by the landowner*.) . . . . . . . . . . . . . . . . . . . . | **DOLLARS & CENTS**  **PER ACRE OR** | | | **TOTAL DOLLARS** |
|  | 1305 | **.\_\_ \_\_** |  | 1306 |
| 6. **What was the total cost for all inputs provided by any contractor**  **for the 2020 crop on the selected field?** (***Include*** *the costs for all inputs,*  *such as seed, fertilizer, chemicals, technical services, custom operations, drying and irrigation.*) . . | **DOLLARS & CENTS**  **PER ACRE OR** | | | **TOTAL DOLLARS** |
|  | 1309 | **.\_\_ \_\_** |  | 1310 |

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|  | **YEAR** |
| 7. **What year did you** (*the operator listed on the label*) **start operating this field?** . . . . . . . . . . . . . . . . . | 1312  **\_\_\_ \_\_\_ \_\_\_ \_\_\_** |

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|  | **MM DD YY** |
| 8. **On what date was this field planted?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1308  **\_\_ \_\_ \_\_ \_\_ \_\_ \_\_** |

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|  |  | |  | | **UNIT CODES** |
| a. What was your yield goal at planting for this field?. . . . . . . . . . . . . . . . . . . . | **UNITS PER ACRE** | |  | | 1 Pounds  2 CWT  3 Tons  4 Bushels |
| 0216 | **.\_\_** | |  | 0217 |

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| 9. **Was the corn on this field planted**  **with the intention of being harvested as** . . . . . . . . . . . . . . . . | 1 Grain  2 Silage  4 Seed  25 Other | . . . . . . . . . . . . . . . . . . | **CODE** |
| 3327 |

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|  | **DOLLARS & CENTS PER UNIT** | **UNIT CODE**  1 = Pound  2 = CWT  4 = Bushel  22 = Acre  23 = Approx. 80,000  Kernel Bag | |
| 10. **What was the total cost per unit** *(including operator, landlord, and contractor costs)* **of purchased seed for this field? (*Include*** *cost of seed treatment and seed technology fee***.**). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1319  **.\_\_\_ \_\_\_\_** | | 1320 |

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|  | **INCHES** |
| 11. **What was the average** **corn row width for this field?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1322 |

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|  | **UNITS** | **UNIT CODE**  1 = Pounds/Acre  2 = CWT/Acre  4 = Bushels/Acre  25 = Kernels-Seeds/Acre  38 = Kernels-Seeds/Foot | |
| 12. **What was the seeding/planting rate per acre for this field?** (If the field was replanted, report the seeding rate for the initial planting.). . . . . . . . . . . . . . . . . . . . | 1313  **.\_\_\_\_** | | 1314 |

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|  | **ACRES** |
| 13. **How many acres in this field had to be replanted to corn?**  (*Acres replanted = Number of acres x Number of times replanted*) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1315  **.\_\_\_** |

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|  | **2020**  **YES = 1** | **2019**  **YES = 1**  **N/A = 4**  (No Corn in Field) |
| 14. **Did you plant GMO/GE seeds for the 2019 or 2020 crop years?** . . . . . . . . . . . . . | 2300 | 2301 |

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| 25. Please report what seed products were used in previous years.     |  |  |  | | --- | --- | --- | |  | Seed Product Name | What seed product was used this year  [Show product codes from Respondent Booklet.] | | 2020 |  |  | | 2019 |  |  | | 2018 |  |  | | 2017 |  |  | | 2016 |  |  |   15. **Did the CORN planted on this field have any of the following GMO/GE traits in 2019 or 2020? --** | **2020**  **YES = 1** | **2019**  **YES = 1** |
| a. Insect Resistance (Bt) to Corn Borer . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2501 | 2502 |
| (i) With multiple (pyramided) modes of action . . . . . . . . . . . . . . . . . . . . . . . . . | 2503 | 2504 |
| b. Insect Resistance (Bt) to Rootworm . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 362 | 363 |
| (i) With multiple (pyramided) modes of action . . . . . . . . . . . . . . . . . . . . . . . . . | 2507 | 2508 |
| c. Insect Resistance (Bt) to Earworm . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2509 | 2510 |
| d. Insect Resistance (Bt) to Armyworm . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2511 | 2512 |
| e. Other BT Trait . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2513 | 2514 |
| f. Herbicide Tolerance (HT) to Glyphosate . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2306 | 2307 |
| g. Herbicide Tolerance (HT) to 2, 4-D. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2308 | 2309 |
| h. Herbicide Tolerance (HT) to Dicamba. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2310 | 2311 |
| i. Herbicide Tolerance (HT) to Glufosinate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2312 | 2313 |
| j. Other HT Trait . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2514 | 2315 |
| k. Drought Resistance . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2515 | 2516 |
| l. Enzyme technology for ethanol (e.g. Enogen). . . . . . . . . . . . . . . . . . . . . . . . . . . |  |  |
| **Note:** Any genetically modified organism/genetically engineered HT trait other than Glyphosate tolerance, 2,4-D tolerance,  Dicamba Tolerance, or Glufosinate Tolerance should be accounted for using the “Other HT train” column. | | |

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|  | **2020**  **YES = 1** | **2019**  **YES = 1**  **N/A = 4**  (No Corn in Field) |
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| 16. **Was a non-GMO/GE seed planted in**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2316 | 2317 |
| [*If item 16=1 for either year, continue. Else, go to 19.*] |  |  |
| 17. **Was this non-GMO/GE seed herbicide tolerant in** -- . . . . . . . . . . . . . . . . . . . . . | 2318 | 2319 |
| 18. Was the corn from this field sold (or will it be sold) through a market specifically for non-genetically modified corn?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .   1. [If item 23 = YES, ask--] What was the price premium ( or the expected premium if not yet sold) received for this non-genetically modified corn? | 2518 | 2519 |

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| 19. **Was the CORN planted on this field drought tolerant?**  **YES** - [*Enter code 1 and continue*]  **NO** - [*Go to item* 21]. . . . . . . . . . . . . . . . . . . . . . . . . . | **CODE** |
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| a. Were these GMO/GE drought-tolerant seeds (e.g., Genuity® DroughtGard®)? . . . . . . . . | **YES = 1** |  | |
| b. Were these non-GMO/GE drought-tolerant seeds (e.g., Optimum® AQUAmax®, Agrisure Artesian ®)? . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** |  | |
| c. Since the time that drought-tolerant corn became available in your area, when planting corn, have you only planted drought-tolerant corn varieties? . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** |  | |
| 20. Was the decision to plant drought-tolerant corn on this field based on (enter code 1 for all that apply) – | | | |

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|  | CODE  YES = 1 |
| RESOURCE CONCERNS |
|  |
| a. Ability to bundle with one or more GMO/GE traits (e.g., insect resistance)?. . . . . . . . . . . . . . . . . . |  |
| b. Price of this seed relative to seeds without drought tolerance?. . . . . . . . . . . . . . . . . . |  |
| c. Price of irrigation water and/or irrigation water applications?. . . . . . . . . . . . . . . . . . . . . . |  |
| d. Soil moisture is usually low due to frequent droughts?. . . . . . . . . . . . . . . . . . . . . . . |  |
| e. Field conditions other than soil moisture or seasonal forecasts at planting time?. . . . . . . . . . . . . . . . |  |
| f. Drought last year that at least partially damaged last year’s crop?. . . . . . . . . . . . . . . . . . . . . . . . |  |
| g. Concerns about changing growing conditions?. . . . . . . . . . . . . . . . . . . . . . |  |

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| 21 **Did you use a genetically engineered, insect resistant seed variety for the 2020 crop?** | **YES = 1** | 2326 |

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| [*If item 21is yes, ask*--] |  |  |
| a. Did you choose the resistant seed variety used on this field primarily to-- |  |  |
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|  | 1 Increase yields through improved pest (weed or insect) control?  2 Decrease pesticide input costs?  3 Save management time or labor or improve ease of management?  4 Reduce refuge requirements  5 For some other reason(s)? [*Specify \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*] |  | **CODE** |
|  | . . . . . . . . . . . . . . . . . . . . . . . | 2327 |
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| b. Was this a refuge-in-the-bag product?. . . . . . . . . . . . . . . . . . . . . . .  c. What percentage of the bag was conventional seed? | **YES = 1** | |  |
| [*If item 21 = YES continue. Else go to item 23*.] | | **PERCENT** | |

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| 22. Was a refuge for insect pests planted on this field [If item 22 is yes, ask-., Else go to item DD]  22. **What percentage of the field was used as refuge for insect pests in order**  **to comply with Bt corn insect resistance management guidelines?** . . . . . . . . . . . . . . . . . . . . . . . . | 2328 |

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| a. Within this field. . . . . . . . . . . . . . . . . . . . . |  |  |
| b. DD. How many acres adjacent to, or as a separate block within ½ mile, of the selected field did you plant with conventional seeds as a refuge? . . . . . . . . . . . . . . . . . . . . . . . |  |  |
| 23. **Did you purchase seed treated with---** | | **CODE** |
| a. a fungicide (e.g., Trilex, Allegiance, or other seed treatments)? . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 2320 |
| b. an insecticide (e.g., Poncho, Gaucho or Cruiser seed treatment)? . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 2322 |
| c. a nematicide (e.g., Acceleron or Avicta seed treatment)? . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 2321 |

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  | | **UNIT CODES** | | |  | **UNITS PER ACRE** | | 1  2  3  4 | POUNDS  CWT  TONS  BUSHELS | | 23. **What was the difference in yields in the Bt crop with the yields in the non-bt refuge crop?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2670 | .\_\_\_ | 2671 | | | | **CODE** | | |
| 24. List the name of the seed treatment product. [*If item 21a, 21b, or 21c is YES, ask—*] Enter the appropriate product code from the Respondent Booklet, Page 2. (*Enter 3 if a seed treatment was not applied, 999 if a seed treatment was applied but the product is not listed*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 2325 | | |
| [*If item 21b is YES, ask--*] | | **CODE** | | |
| 26. **Did you use an “air delivery” or “vacuum (pneumatic) planter”?** . . . . . . . . . . . . . . . . . . . | **YES = 1** | 2323 | | |
| [*If item 23 is YES, ask--*] | | | **CODE** |
| a. Did you use a talc and/or graphite seed flow lubricant?. . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 2324 | | |
| b. Did you use an alternative seed flow lubricant (e.g. Bayer Fluency Agent) instead of talc and/or graphite?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 2394 | | |

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| --- | --- | --- |
|  | | **CODE** |
| 27. **Has harvest of this field been completed?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1328 |

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| 28. **Please report the following information about the acres harvested** (or to be harvested) **and the yields**  **from this field.** | | | | | |
| **How many acres in this corn field were** (*or will be*)--- | | 1  **What yield per**  **acre did you** (*or*  *do you expect to*)  **get for corn---**  **UNITS PER ACRE** | | 2  **UNIT CODE**  1 Pounds  2 CWT  3 Tons  4 Bushels  **CODE** |
|  | **ACRES** |
| a. harvested for grain, first crop?. . . . . . . . . . . . . . . . . . | 1346  **.**\_\_\_\_ | 1347 | .\_\_\_\_ | 1348 |
| b. harvested for silage or green chop?. . . . . . . . . . . . . . | 1349  .\_\_\_\_ | 1350 | .\_\_\_\_ | TONS |
| c. harvested for seed?. . . . . . . . . . . . . . . . . . . . . . . . . . | 1431  **.\_\_\_\_** | 1432 | **.\_\_\_\_** | 1433 |
| d. abandoned?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1351  **.\_\_\_\_** |  | |  |
| e. used for some other purpose?. . . . . . . . . . . . . . . . . . | 1439  **.\_\_\_\_** |  | |  |

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| 29. **Were the stalks/stover harvested from this field?**  **YES** - [*Enter code 1 and go to item 27*] **NO** - [*Ask 26a, then go to item 28*]. . . . . . . . . . . | **CODE** | |
| 1754 |

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| a. [*If the corn stalks/stover were not harvested, ask*---]  What was the primary reason for not harvesting the corn stalks/stover?. . . . . . | 1 No market/use for corn stalks/stover  2 Harvesting was not profitable  3 The corn stalks/stover were left as organic  matter for the soil  4 The stalks/stover were left for livestock grazing  5 The stalks/stover were used for animal bedding  6 Other [*Specify:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_] | . . . . | **CODE** |
| 1398 | |

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|  | | | | | | | | | | | | | | **ACRES** |
| 30. **How many acres of corn stalks/stover were harvested from this corn field?** . . . . . . . . . . . . . . . . | | | | | | | | | | | | | | 1755  **.\_\_\_** |
|  | | | | | | | | | | | | | | **TOTAL TONS** |
| a. How many **tons** of corn **stalks/stover** were harvested from these corn acres (*item 27*)?. . . . . . . | | | | | | | | | | | | | | 1756 |
|  | \_\_\_\_\_\_\_**.\_\_**  Tons per Acre | X | \_\_\_\_  Acres | = | \_\_\_\_\_\_\_\_  Total Tons | **OR** | \_\_\_\_\_\_  Bales | X | \_\_\_\_\_\_\_\_\_  Lbs per Bale | ÷ | 2000  Lbs per Ton | = | \_\_\_\_\_\_\_  Total Tons |  |

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| 31. **Did any livestock graze this corn field after harvest of the** **2020 corn crop?** . . . . . . . . . . . . . . . . | **CODE** |
| 1023 |
| **YES** - [*Enter code 1 and continue*]  **NO** - [*Go to item 30*] |  |

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| 32. **What type of livestock grazed this corn field**  **after harvest of the** **2020 corn crop?** . . . . . . . . . . . . . . . | 1 Cattle  2 Sheep  3 Other [*Specify:* \_\_\_\_\_\_\_\_\_\_\_\_\_] | . . . . . . . | **CODE** |
| 1024 |

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|  | **HEAD** |
| a. About how many **head** of livestock (*item 28*) grazed this corn field?. . . . . . . . . . . . . . . . . . . . . . . . . | 1027 |

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| --- | --- |
|  | **DAYS** |
| b. How many **days** did this livestock graze on this corn field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1028 |

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|  | | | | | **CODE** | |
| 33. **Was any of the residue from the prior crop (corn stover, wheat straw, etc.) removed post-harvest?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | **Yes=1** |  | |
| [*If yes, ask* --] |  |  | | |  | |
|  | | | | | **TONS** | |
| 34. **How many tons per acre of residue were removed through harvest?**. . . . . . . . . . . . . . . . | | | |  | 1328 | |

|  |  |
| --- | --- |
|  | **HEAD** |
| a. About how many **head** of cattle grazed the residue?. . . . . . . . . . . . . . . . . . . . . . . . | 1362 |

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|  | **DAYS** |
| b. How many **days** did cattle graze on the residue?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1363 |

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| c. How many days did any other livestock graze the residue?. . . . . . . . . . . . . . . . . . . . |  |  |

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| **CROP CODE LIST for item 35 – PREVIOUSLY PLANTED CROPS** | | | | | | | |
| 190 | Barley | 3 | Dry Beans | 21 | Rice | 193 | Tobacco, burley |
| 85 | Canola | 17 | Dry Peas | 22 | Rye | 196 | Tobacco, flue cured |
| 310 | Clover | 311 | Grasses other than clover | 98 | Safflower | 42 | Vegetables |
| 6 | Corn for grain | 1 | Hay, alfalfa | 25 | Sorghum for grain | 163 | Wheat, durum |
| 5 | Corn for silage | 11 | Hay, all other | 24 | Sorghum for silage | 164 | Wheat, other spring |
| 282 | Cotton, Pima | 94 | Mustard Seed | 26 | Soybeans | 165 | Wheat, winter |
| 281 | Cotton, Upland | 15 | Oats | 28 | Sugarbeets | 321 | Perrennial from previous year |
| 302 | CRP | 16 | Peanuts | 30 | Sunflowers | 318 | **No crop planted**  during this period |
| 320 | Cultivated Fallow | 20 | Potatoes | 31 | Sweet Potatoes |

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|  |
| 35. **Please report what crops were previously PLANTED on the majority of this field, including cover crops.** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | | | | | 2 | 3 | 4 | | 5 | 6 |
| What type of crop was grown on this field? 1 GE Herbicide Tolerant (HT) 2 GE Insect Resistant (Bt) 3 Stacked (HT and BT) 4 GE or Non-GE drought tolerant 5 Not GE | | | | |  | **Was this**  **a cover crop?** | | **How did you manage this**  **cover crop?** | **Was this**  **field**  **irrigated?** | **Was this**  **field**  **no-tilled or strip-tilled?**  **1/** |
|  | | |  |  |  |  | | 1 Plowed-in |  |  |
|  | | |  |  |  |  | | 2 Chiseled-in |  |  |
|  | | |  |  |  |  | | 3 Chemical-killed |  |  |
|  | | |  |  |  |  | | 4 Rolled |  |  |
|  | | |  |  |  |  | | 5 Grazed |  |  |
|  | | |  |  |  |  | | 6 Harvested |  |  |
|  | | |  |  |  |  | | 7 Disked |  |  |
| **SEASON AND YEAR** | | | **CROP NAME** | **CROP**  **CODE** |  | **YES = 1** | | **CODE** | **YES = 1** | **YES = 1** |
| a. **SPRING/SUMMER of 2020?** . . . . . . . | | | **Corn** |  | Needs a p code | Grey this out | | Grey this out | Needs a p code | Needs a p code |
| a. **FALL of 2019?** . . . . . . . . . . . . . . . . . | | |  | 1343 |  | 1470 | | 1471 | 2344 | 1345 |
| b. **SPRING/SUMMER of 2019?**. . . . . . . | | |  | 1369 |  | 1472 | | 1473 | 2370 | 1371 |
| c. **FALL of 2018?** . . . . . . . . . . . . . . . . . | | |  | 1372 |  | 1474 | | 1475 | 2373 | 1374 |
| d. **SPRING/SUMMER of 2018?** . . . . . . . | | |  | 1375 |  | 1476 | | 1477 | 2376 | 1377 |
| e. **FALL of 2017?** . . . . . . . . . . . . . . . . . | | |  | 1378 |  | 1478 | | 1479 | 2379 | 1380 |
| f. **SPRING/SUMMER of 2017?** . . . . . . . | | |  | 1381 |  | 1480 | | 1481 | 2382 | 1383 |
| g. **FALL of 2016?** . . . . . . . . . . . . . . . . . | | |  | 1366 |  | 1482 | | 1483 | 2367 | 1368 |
| h. **SPRING/SUMMER of 2016?** . . . . . . . | | |  | 1340 |  | 1484 | | 1485 | 2341 | 1342 |
| 1/ |  | *No-till means leaving soil and previous crop residue undisturbed from harvest to planting. Strip-till means tilling a narrow strip over the row, leaving soil and previous crop residue between the rows undisturbed.* | | | | | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| [*If a cover crop was planted in Spring/Summer/Fall 2020, ask--*] |  | **DOLLARS & CENTS PER ACRE** | |
| i. What was the seed cost per acre for the cover crop?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 1468 | .\_\_ \_\_ |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Conservation Practice/Conservation Plan List for question 36** | | | | | | | 328 | Conservation Crop Rotation | 590 | Nutrient management | 332 | Contour Buffer Strips | | 329 | No-Till/Strip-Till | ??? | Livestock Waste Management | 386 | Field Border | | 345 | Reduced (Conservation) Till | 595 | Integrated Pest Management | 393 | Filter Strip | | 330 | Contour Farming | 449 | Irrigation Water Management | 412 | Grassed Waterway | | 340 | Cover Crop |  |  | 410 | Grade Stabilization Structure | | 585 | Strip cropping |  |  | 603 | Herbaceous Wind Barriers | |  |  |  |  | 600 | Terraces | |  |  |  |  |  |  | |  |  |  |  |  |  |   36. **List all conservation practices or plans that were used on this field over the past 5 years.** | | | | | | | | |
| 1 | | 2 | 3 | 4 | | | | 5 | | |
|  | |  |  | **Have you ever received at any time--** | | | |  | | |
| **What conservation practices have been used on this field at least once in the past 5 years?** | |  | **Was this practice or plan used in 2020?** | **Technical or planning assistance?** | | **Financial assistance?** | | **Does this practice or plan help satisfy?** | | |
| 1  2  3 | USDA including funding of Technical Service Providers  Other Sources of Outside Assistance  No Assistance Needed | 1  2  3  4  5 | EQIP  CSP  CRP  Other  No Assistance Needed | 1  2  3 | A federal regulatory requirement?  USDA conservation compliance provisions?  Does not relate to any regulation or compliance requirement. | |
|  | | **CODE** | **YES = 1** | **CODE** | | **CODE** | | **CODE** | | |
|  | |  | 0706 | 0726 | | 0736 | | 0746 | | |
|  | |  | 0707 | 0727 | | 0737 | | 0747 | | |
|  | |  | 0708 | 0728 | | 0738 | | 0748 | | |
|  | |  | 0709 | 0729 | | 0739 | | 0749 | | |
|  | |  | 0702 | 0722 | | 0732 | | 0742 | | |
|  | |  | 0703 | 0723 | | 0733 | | 0743 | | |
|  | |  | 0704 | 0724 | | 0734 | | 0744 | | |
|  | |  | 0705 | 0725 | | 0735 | | 0745 | | |

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| 37. **Is this field included in an existing conservation program contract through any of the following programs for which you or the landlord have received** (*or expect to receive*) **cost sharing payments, stewardship payments, or incentive payments?** | | | | | |
|  | | | | | |
|  | 1 | 2 | 3 | 4 |
| PROGRAM | 1/ | How many practices or practice enhancements are included in the contract? | Does the contract include livestock related practices? | During the past 4 years, was this field included in an application that was rejected or has not yet been funded? |
|  | **YES = 1** | **NUMBER** | **YES = 1** | **YES = 1** |
| a. Environmental Quality Incentive Program (EQIP) | 2236 | 2237 | 2238 | 2239 |
| b. Conservation Security or Conservation Stewardship Programs (CSP) | 2240 | 2241 | 2242 | 2243 |
| c. Conservation Reserve Program (CRP) | 2244 | 2245 | 2246 | 2247 |
| d. Other Federal, State, Local or non-government source | 2248 | 2249 | 2250 | 2251 |
| 1/ [*Include conservation program contracts that provide assistance for grass waterways, filter strips, riparian buffers, or*  *similar practices on or adjoining this field*.] | | | | |
|  | | | | |
| **37. Have you ever applied for conservation funding, through any Federal, State, or local program, for this field?** . . . . . . . . . . . . . . . . . . . . . . . . . . .yes/no  [*If item 37=1, go to Item 38--* *if not, skip to question 40*.]  **38. Is this field (or has this field been) included in a conservation program contract through any of the following programs, for which you or your landlord received (or expect to receive) cost-sharing payments, stewardship payments, or incentive payments?**   |  |  | | --- | --- | | a. Environmental Quality Incentives Program………………….……… 1=current contract 2=past contract |  | | b. Conservation Stewardship Program…………………….……………… 1=current contract 2=past contract |  | | c. Conservation Reserve Program……………………………..…………… 1=current contract 2=past contract |  | | d. Other Federal, State, Local or non-government source……… 1=current contract 2=past contract |  |   **39. Has this field been included in an application that was rejected or has not yet been funded?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .yes/no | | | | | | |

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| 42. **Has the Natural Resource Conservation Service** (NRCS) **classified any part of this field as “Highly Erodible”?** (Cropland identified as highly erodible is subject to highly erodible land conservation (HELC) requirements. Producers who receive farm program payments are required to have (and apply) a written soil conservation plan.) A “written plan” is a plan prepared in accordance with Federal, State, or district standards.. . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | **CODE** |
| 1404 |
|  |  |  |
| 43. **Have you been notified by NRCS that this field contains a wetland?. . . . . . . . . . . . . . . .** | **YES = 1** | 1405 |
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| 44. **What is the slope of this field?. .** | 1  2  3  4  5 | Nearly level (0 - 2%)  Even, moderate grade (3 – 9%)  Variable, moderate grade  Even, steep grade (over 10%)  Variable, steep grade | . . . . . . . . . . . . . . . . . . . . . . . | **CODE** |
| 2400 |
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| 45. **What is the primary soil type of this field?**. . . . . . . . . . . . . . . . . . . | 1  2  3  4 | Loam  Clay  Sandy  Mixed | . . . . . . . . . . . . . . . . . . . . . . . | **CODE** |
| 2401 |
|  |

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| --- | --- | --- |
|  |  | **CODE** |
| 46. **Did the land use practices for this field include subsurface drainage?** | **YES = 1** | 2402 |
| [If YES, ask--] |  | **YEAR** |
| a. In what year was the subsurface drainage installed?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 2403  \_\_\_ \_\_\_ \_\_\_ \_\_\_ |

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|  | | **INCHES** |
| b. What is the average depth of your drainage system?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 2604 |
| c. What is the diameter of your tiles?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 2605 |
|  | | **HOURS** |
| d. On average, how many hours does it take your field to return to normal soil moisture levels following a heavy storm?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 2606 |
| e. Does this system include a mechanism for controlled drainage (e.g. stop logs, risers, or float mechanisms)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 2406 |

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| 47. **Report up to 3 sources that you received assistance from for each resource concern.** |

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| --- | --- | --- | --- | --- |
|  | CODE  YES = 1 | Have you received technical assistance from any of the following sources to evaluate this resource concern? (Report up to 3 sources that you received assistance from.) | | |
| RESOURCE CONCERNS | 1. USDA – NRCS 2. Cooperative Extension Service 3. Other USDA staff, including Forest Service 4. Other (e.g. Soil and Water Conservation District, state agency) | | |
|  | Source 1 | Source 2 | Source 3 |
| a. Water-driven erosion. . . . . . . . . . . . . . . . . . | 2407 | 2417 | 2427 | 2437 |
| b. Wind-driven erosion. . . . . . . . . . . . . . . . . . | 2408 | 2418 | 2428 | 2438 |
| c. Soil compaction. . . . . . . . . . . . . . . . . . . . . . | 2409 | 2419 | 2429 | 2439 |
| d. Poor drainage. . . . . . . . . . . . . . . . . . . . . . . | 2410 | 2420 | 2430 | 2440 |
| e. Low organic matter. . . . . . . . . . . . . . . . . . . | 2411 | 2421 | 2431 | 2441 |
| f. Water quality. . . . . . . . . . . . . . . . . . . . . . . . | 2412 | 2422 | 2432 | 2442 |
| g. Other concerns. . . . . . . . . . . . . . . . . . . . . . | 2413 | 2423 | 2433 | 2443 |
| h. No significant concerns. . . . . . . . . . . . . . . . | 2414 | 2424 | 2434 | 2444 |

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| 48. **Was the corn in this field covered by private crop insurance**  **in 2020** (*hail, wind, freeze, etc.*)**?**  **YES** – [*Enter code 1 and continue*]  **NO** – [*Go to* ***Section C***]. . . . . . . . . . . . . . . . . . . . . . . . | | | | | **CODE** |
| 1393 |
|  | **DOLLARS & CENTS**  **PER ACRE OR** | | | | **TOTAL DOLLARS** |
| a. What was the dollar amount of coverage for the private insurance policy covering this field in 2020?. . . . . . . . . . . . . . . . . . . . . . . . |  |  | |  |  |
|  |  |  | |  |  |
| b. What was the premium paid for private crop insurance for this field in 2020? (***Exclude*** *any sign-up fee.*). . . . . . . . . . . . . . . . . . . . . . . . | 1395 | **.\_\_\_ \_\_\_** | |  | 1396 |
|  | | |  | | **PERCENT** |
| c. What was the percent deductible for the private crop insurance policy covering this field? (Record no deductible as 0%) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | |  |
|  | | |  | | **CODE** |
| d. Did you (*or will you*) collect an indemnity payment for this field  from private crop insurance during 2020?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | | 1394 |

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| --- | --- |
| 49. **Was the corn in this field covered by Federal Crop Insurance in 2020?** | **CODE** |
| YES – [*Enter code 1 and continue.*]  NO – [*Enter code 3 and go to Section C.*]. . . . . . . . . . . | 1385 |

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| a. Which coverage did you obtain?. . | 1  2  3  4  5  6 | Federal CAT (basic catastrophic insurance)  Yield protection  Yield plus SCO (supplemental coverage option)  Revenue protection  Revenue plus SCO (supplemental coverage option)  Other Federal Crop insurance | . . . . . . . | **CODE** |
| 1386 |
|  |

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|  | |
| 1. [If item 49a = 2 or 3, ask--] | **PERCENT** |
| . What was your yield level of your buy-up coverage for this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . | 1387 |
| What was your price level of your buy-up coverage for this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . | 1388 |
| 1. [If item 49a = 4 or 5, ask--] | **PERCENT** |
| What was the level of revenue coverage you obtained for this field?. . . . . . . . . . . . . . . . . . . . . . . . . | 1389 |
| b. What type of unit coverage did you purchase for this field? (Basic = 1, Optional = 2, Enterprise = 3). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | CODE |
| c. In what year did you (*the operator listed on the label*) first enroll this field  in the Federal crop insurance program?. | YEAR |
| d. What is the 2020 Approved APH (*actual production history*) yield for this field?. | BUSHELS PER ACRE |
| e. What was the premium paid for Federal crop insurance for this field in 2020? (***Exclude*** *any sign-up fee.*). . . . . . . . . . . . . . . . . . . . . . . . | DOLLARS &CENTS PER ACRE or TOTAL DOLLARS |
| f. Did you (*or will you*)collect an indemnity payment for this field  from federal crop insurance during 2020? | CODE Yes = 1 |

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

|  |  |  |  |
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|  | | **CODE** | **EDIT TABLE** |
| 1. **Were commercial nutrients or fertilizers applied to this field for the 2020 corn crop?** (*Include those from operators, landlords, and contractors*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0202 | 0200 |
| [*If COMMERCIAL nutrient or fertilizer applied, continue; else go to item 6.*] | | | **NUMBER** |
| 2. **How many commercial nutrient or fertilizer applications were made to this field  for the 2020 crop?**  (***Include*** *applications made by airplanes and custom applicators*.). . . . . . . . . . . . | | | 0203 |

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| 3. **Now I need to record information for each application.** | | | | | | | | |
| **CHECKLIST** | | | |  | | | | |
|  | **INCLUDE** |  | **EXCLUDE** |  | | | | |
| Custom applied nutrients and fertilizers | | Micronutrients | |  | | | | |
| Nutrients or fertilizers applied  in the fall of 2015 and  those applied earlier if this field was fallow in 2015. | | Unprocessed manure  Nutrients or fertilizers applied to previous crops in this field | |  | |  | |  |
| Commercially prepared manure  or compost | | Lime and Gypsum/landplaster | |  | **Office Use**  **Lines in Table** | **TABLE**  **001** | 0299 |  |

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|  |  | | | | | | |  | **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 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 Nutrients or Fertilizers*  *in Respondent Booklet*.] | | | | | **3**  **What quantity**  **was applied**  **per acre?**  [*Leave this*  *column blank*  *if actual pounds of 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** | | |
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|
| **N**  Nitrogen | **P2O5**  Phosphate | | **K2O**  Potash | **S**  Sulfur |
| **01** | | 31 | 32 | | 33 | 34 | 36 | | | 37 | 38 | 39 | | 40 | **.\_\_\_** | |
| **02** | | 31 | 32 | | 33 | 34 | 36 | | | 37 | 38 | 39 | | 40 | **.\_\_\_** | |
| **03** | | 31 | 32 | | 33 | 34 | 36 | | | 37 | 38 | 39 | | 40 | **.\_\_\_** | |
| **04** | | 31 | 32 | | 33 | 34 | 36 | | | 37 | 38 | 39 | | 40 | **.\_\_\_** | |
| **05** | | 31 | 32 | | 33 | 34 | 36 | | | 37 | 38 | 39 | | 40 | **.\_\_\_** | |
| **06** | | 31 | 32 | | 33 | 34 | 36 | | | 37 | 38 | 39 | | 40 | **.\_\_\_** | |
| **07** | | 31 | 32 | | 33 | 34 | 36 | | | 37 | 38 | 39 | | 40 | **.\_\_\_** | |
| **08** | | 31 | 32 | | 33 | 34 | 36 | | | 37 | 38 | 39 | | 40 | **.\_\_\_** | |

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| 4. **Were any nutrients or fertilizers applied by custom applicators?**  **YES** - [*Continue*]  **NO** - [*Go to item 5*] | | | | | | | |
| a. Are you able to report the cost of nutrient or fertilizer materials and  custom application separately?  **YES** - [*Continue*]  **NO** - [*Go to item 5*] | | | | | | **OFFICE USE** | |
| 0215 | |
| b. Excluding the cost of the nutrient or fertilizer materials, how much  was spent for custom application of nutrients or fertilizers on this field?  (***Include*** *operator,**landlord, and contractor costs.* ***Include*** *costs*  *for sulfur and micronutrients.* ***Exclude*** *custom application of**lime, gypsum, purchased manure and purchased compost*.) *[If material*  *and application costs can’t be separated,* ***exclude*** *them here and*  *record the total in item 5.*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **DOLLARS & CENTS**  **PER ACRE** | | | **OR** | **TOTAL DOLLARS** | | |
| 0219 | **.\_\_\_ \_\_\_** |  | | | 0220 |  |

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| 5. **What was the TOTAL COST of all nutrient or fertilizer products**  **applied to this field?** (***Include*** *operator, landlord, and contractor costs, as well as the costs for sulfur and micronutrients.* ***Include*** *materials applied to this field if it was fallow in 2015*. ***Exclude*** *lime, gypsum, purchased manure and purchased compost*.) . [If custom applied and the cost of material can be separated from application costs, include the cost of materials ONLY; otherwise, include both the material and application costs.] . . . . . . . . . . . . . . | **DOLLARS & CENTS**  **PER ACRE** | | | **OR** | **TOTAL DOLLARS** |
| 0221 | **.\_\_\_ \_\_\_** |  | | 0222 |

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|  | | **CODE** |
| 6. **Was gypsum applied to this field for the 2020 corn crop?** . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0218 |

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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 7. **Was a soil test for Soil Organic Matter performed on this soybeans field at some point in the last 10 years?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | | 3225 | | | [*If item 7 = 1, ask---*] | |  | | **PERCENT** | | | a. What was the percentage of Soil Organic Matter on the field for the most recent test?. . . . . . . . . . | | | | 3226 | **.** \_\_\_ \_\_\_ | |  | | | | **NUMBER** | | | b. How many times have you tested this field for Soil Organic Matter in the last ten years?. . . . . . . . | | | | 3227 | | | [*If item 7b is more than 1 ask---*] | | | | **CODE** | | | c. Based on these tests, is your Soil Organic Matter content:. . | 1. Increasing 2. Decreasing 3. Staying roughly the same | | . . . . | 3228 | |  |  |  | | --- | --- | |  |  |   7. **Was a soil or plant tissue test performed on this corn field in 2019or 2020 for the 2020 crop?** | | | | | | |  | | |
| **YES** [*Continue*.] | **NO** [*Go to item 10*.] | | | | | |  | | |
|  | | | | | | | **CODE** | | |
| 8. **Was a soil test for phosphorus performed on this corn field in 2019or 2020 for the 2020 crop?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | **YES = 1** | | 0225 | | |
| [*If item 8 = 1, ask*---] | | | | | | | **POUNDS**  **PER ACRE** | | |
| a. How many pounds of phosphorus (*per acre*) were recommended (*by the phosphorus test*)?. . . . . | | | | | | | 0226 | | |
|  | | | | | | | **CODE** | | |
| 9. **Was a soil test for nitrogen performed on this corn field in 2019 or 2020 for the 2020 crop?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | **YES = 1** | | 0227 | | |
| [*If item 9 = 1, ask---*] | | | | | | | **POUNDS**  **PER ACRE** | | |
| a. How many pounds of nitrogen (*per acre*) were recommended (*by the nitrogen test*)?. . . . . . . . . . . | | | | | | | 0228 | | |
|  | | | | | | | **CODE** | | |
| 10. **Was a soil test for Soil Organic Matter performed on this corn field at some point in the last 10 years?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | **YES = 1** | | | 3225 | | |
| [*If item 10 = 1, ask---*] | | | |  | | | **PERCENT** | | |
| a. What was the percentage of Soil Organic Matter on the field for the most recent test?. . . . . . . . . . | | | | | | | 3226 | | . \_\_\_ \_\_\_ |
|  | | | | | | | **NUMBER** | | |
| b. How many times have you tested this field for Soil Organic Matter in the last ten years?. . . . . . . . | | | | | | | 3227 | | |
| [*If item 10b is more than 1 ask---*] | | | | | | | **CODE** | | |
| c. Based on these tests, is your Soil Organic Matter content:. . | | | 1. Increasing 2. Decreasing 3. Staying roughly the same | | . . . . | | 3228 | | |

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| 11. **Was a plant tissue test or leaf analysis for nutrient deficiency performed on this field in 2019 or 2020 for the 2020 crop?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0229 |

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|  | | **DOLLARS & CENTS PER ACRE** | | | **OR** | **TOTAL DOLLARS** |
| 12. **How much was spent for these soil and plant tissue tests**  **on this field in 2019 or 2020 for the 2020 crop ?** *[****Include*** *landlord and contractor costs.]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .* | | 0230 | **.\_\_\_\_ \_\_\_\_** | | 0231 |
| [*If tests were done at no cost continue, otherwise go to Item 12b.*] | | | | | | |
|  | 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 5. 3. Some other reason. | | | |  | **CODE** |
| a. What is the reason why tests were done at no cost?. . . . . . . . . . . . . . . . . . . . . . . | …… | 0232 |
|  |  | |
| b. Did you receive a payment from the Conservation Stewardship Program for performing a stalk or leaf tissue test for nitrogen application?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | **YES = 1** | | 3231 |

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| [**ENUMERATOR ACTION*:*** *Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied,*  *complete item 13. If NO nitrogen applied, go to item 14.*] |
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| 13.**Was the amount of nitrogen you decided to apply to this field based on---** | | **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 |

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|  | | **CODE** |
| 14. **Is lime ever applied to this field?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0242 |
| [*If no lime applied, go to item 15; else continue*.] | | **YEARS** |
| a. 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  .\_\_\_ |
|  | | **CODE** |
| c. Was lime applied to this field in 2019 or 2020 for the 2020 crop?. . . . . . . . . . . . . . . . . . . | **YES = 1** | 0240 |
| [*If field is rented* (Section B, item 2 = 2, 3, 4, or 5), *ask---*] | | **PERCENT** |
| d. 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 |

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| 15. **Was non-commercial manure** (*from own farm, from a neighbor’s farm, etc.*) **or other organic material** (*excluding compos*t) **applied to this field for the 2020 corn crop?** (***Exclude*** *commercially prepared manure*.)  **YES** - [*Enter code 1 and continue*]  **NO** - [*Go to item 17*]. . . . . . . . . . . . . . . . . . . . . . . | **CODE** | |
| 0246 | |
|  | **ACRES** | |
| a. How many acres in this field was manure applied to?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 0247 | **.\_\_\_** |

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|  | 1 Tons  2 Gallons  3 Bushels |  | **CODE** |  | **UNITS PER ACRE** | | **OR** | **TOTAL UNITS** | |
| b. What was the amount of manure applied to this field?. . . . . . . . . . | . . | 0248 | **AND** | 0249 | **.\_\_\_ \_\_\_** |  | 0250 | **.\_\_\_** |
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|  | | | | | | | | | | | **MILES** | | |
| c. What is the distance between the manure storage/production location and this field?. . . . . . . . . . | | | | | | | | | | | 0251 | | **.\_\_\_** |
|  | | | | | | | | | | | | | |
| d. What was the capacity of the manure spreader  (*or other vehicle*) used to haul manure to this field?. . | | | 1 Tons  2 Gallons  3 Bushels |  | | | **CODE** | |  | | **TOTAL UNITS** | | |
| . . . . . | | | 0252 | | **AND** | | 0253 | **.\_\_\_ \_\_\_** | |
| e. Of the total manure applied to this field for the 2020  crop, 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%** | | |
|  | 1 Lagoon liquid?  2 Slurry liquid?  3 Semi-dry or dry? |  | | | | | | | | | **CODE** | | |
| f. Was the manure---. . . . . . | . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | | | 0257 | | |
|  | | | | | | | | | | | | | |
|  | 1 Broadcast or sprayed *without* incorporation?  2 Broadcast or sprayed *with* incorporation?  3 Injected/knifed in?  4 Sprayed using irrigation systems? | | | | |  | | | | | **CODE** | | |
| g. Was the manure---. . . . . . | . . . . . . . . . . . . . . . . . . | | | | | 0258 | | |
|  | | | | | | | | | | | | | |
|  | 1 Beef cattle?  2 Dairy cattle?  3 Hogs?  4 Sheep?  5 Poultry?  6 Equine?  7 Biosolids (*municipal sludge*)?  8 Food waste?  9 Other? [*Specify:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ] | | | |  | | | | | | **CODE** | | |
| h. Was the major source  of the manure from---. . . . | . . . . . . . . . . . . . . . . . . . . | | | | | | 0259 | | |
|  |  | | | | | |  | | |
|  | | | | | | | | | | | | | |
| i. Was the manure---. . . . . . | 1 Produced on this operation?  2 Purchased?  3 Obtained at no cost off this operation?  4 Obtained with compensation? (*Operator*  *received payment for accepting the manure*.) | | | | | | | . . . . . . . . . . . . . . . | | |  | | |
| **CODE** | | |
| 0260 | | |
| [*If item 15i = 2, ask*---] | | | | | | | | | | | | | | |

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|  | **DOLLARS & CENTS**  **PER ACRE** | | **OR** | **TOTAL DOLLARS** |
| (i) What was the total cost of the purchased manure applied to this field? (***Include*** *operator, landlord, and contractor costs.* ***Include*** *any payment made for transportation costs.*) | 0284 | **.\_\_\_ \_\_\_** |  | 0285 |

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|  | | **CODE** |
| (ii) Did you hire someone to custom apply the manure? . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0286 |

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| [*If YES, ask---*] |

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|  | **DOLLARS & CENTS**  **PER ACRE** | | **OR** | **TOTAL DOLLARS** |
| (a) What was the total cost paid to have manure custom applied to this field? [*Do not report custom application cost if it was included with the purchased manure cost.*]. . . . . . . . . . . . . . | 0287 | **.\_\_\_ \_\_\_** |  | 0288 |

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|  |  | **CODE** |
| j. Of the manure applied to this field, was any 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** |
| l. Did you adjust the corn harvest date for this field due to the  application of manure?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0280 |

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| 16. **Were the manure APPLICATION RATES to this field influenced by Federal,**  **State, or local restrictions?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |  | | **CODE** |
| **YES = 1** | | 0264 |
| [*If item 16 is YES, ask---*] | | |  |
| a. What basis was used to determine these manure application rate restrictions-- | | | **CODE** |
| (i) Nitrogen requirement of the crop?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | 0265 |
| (ii) Phosphorus requirement of the crop?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | 0266 |

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| 17. **Was compost applied to this field for the 2020 corn crop?**  **YES** - [*Enter code 1 and continue*]  **NO** - [*Go to item* 18]. . . . . . . . . . . . . . . . . . . . . . . . . . | **CODE** |
| 0267 |

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|  | | | | | | | | **ACRES** | | |
| a. How many acres in this field was the compost applied to?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | | 0268 | | **.\_\_\_** |
|  | | | | | | | | | | |
| b. What was the amount of compost  applied to this field?. . . . . . . . . . . . . |  |  | **CODE** |  | **UNITS PER ACRE** | | **OR** | **TOTAL UNITS** | | |
| 1 Tons  2 Cubic Yards |
| . . | 0269 | **AND** | 0270 | **.\_\_\_ \_\_\_** |  | 0271 | **.\_\_\_** | |

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|  | | | **[Enter up to 3**  **source codes]** |
| c. Were the major sources  of the compost from--- | 1 Beef cattle?  2 Dairy cattle?  3 Hogs?  4 Sheep?  5 Poultry?  6 Equine?  7 Biosolids (*municipal sludge*)?  8 Food waste?  9 Crop? [*Specify:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ]  10 Other? [*Specify:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ] | . . . . . . . . . | **FIRST** |
| 0281 |
| **SECOND** |
| 0282 |
| **THIRD** |
| 0283 |

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| --- | --- | --- | --- |
| d. Was the compost--- | 1 Produced on this operation?  2 Purchased?  3 Obtained at no cost off this operation?  4 Obtained with compensation? (*Operator*  *received payment for accepting the compost.*) | . . . . . . . . . |  |
| **CODE** |
| 0272 |

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| [*If item 17d = 2, ask*---] | **DOLLARS & CENTS**  **PER ACRE** | **OR** | **TOTAL DOLLARS** |

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| --- | --- | --- | --- | --- |
| (i) What was the total cost of the purchased compost applied to  This field? (***Include*** *operator, landlord, and contractor costs and*  *any payment made for transportation costs*) | 0273 | .\_\_\_ \_\_\_ |  | 0274 |

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|  | | **CODE** |
| (ii) Did you hire someone to custom apply the compost? . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0275 |

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| [*If YES, ask---*] | **DOLLARS & CENTS PER ACRE** | | **OR** | **TOTAL DOLLARS** | |
| (a) What was the total cost paid to have compost custom applied to this field? (***Include*** *operator, landlord, and contractor costs.)* [*Do not report custom application cost if it was included with the compost cost*.]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 0276 | **.\_\_\_ \_\_\_** |  | 0277 | |
| [If item 17d = 1, ask--] | | | | **MILES** | |
| (iii) What is the distance between the compost storage/production location and this field?. . . . . . . | | | | 0291 | **.\_\_\_** |

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| 18. **Compared to the last time you planted corn, did you make any of the following changes to your cropping practices with the intent of reducing commercial fertilizer use?** |

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|  | | | **CODE** | |
| a. Change the type of commercial fertilizer products applied on this field  [e.g. less anhydrous ammonia and more urea]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES=1** | | 1226 | |
| b. Manage fertilizer use more closely, with such practices as soil testing, split applications, variable rate applications, or soil incorporation on this field?. . . . . . . . . . . . . . . . . . . . . . . | **YES=1** | | 1228 | |
| c. Change your crop rotation [e.g. plant corn on this field rather than usual crop rotation]?. | **YES=1** | | 1227 | |
| d. Reduce the application of commercial nitrogen fertilizer?. . . . . . . . . . . . . . . . . . . . . . . . . | **YES=1** | | 1224 | |
| [*If YES, ask--*] | | | **PERCENT** | |
| (i) By what percent did you reduce the amount of commercial nitrogen fertilizer  applied for 2020?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | 1225 | |

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| **NOTES** |
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| **D** | **BIOCONTROL or PESTICIDE APPLICATIONS---**SELECTED FIELD | **D** |

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| **Now I have some questions about all the biocontrols or pesticides used on this field for the 2020**  **corn crop, including both custom applications and applications made by this operation.** |

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|  |  | **CODE** | **EDIT TABLE** |
| 1. **Were any herbicides, insecticides, fungicides or other biocontrols**  **or pesticides used on this corn field for the 2020 crop?** | **YES = 1** | 0302 | 0300 |
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| [*Probe for applications in the fall of 2015 (and those made earlier if this field was fallow)*.] | | | | | | | | | | | | | | | | | | |
| **If no biocontrols or pesticides applied, go to Section E.** | | | | | | | | | | | | | | | | | |
| **Include** defoliants, fungicides, herbicides,  insecticides, and other pesticides. | | | | **Exclude** nutrients or fertilizers reported  earlier and seed treatments. | | | |  | | | | |  | |  | | | |
| **Include** biological and botanical pesticides. | | | |  | | | |  | **OFFICE USE**  **LINES IN TABLE** | | | | **TABLE**  **001** | | 0399 | |  | |
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| **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** | 61 |  | | 63 | 64 | 65 | | | | **.\_\_\_ \_\_\_** | 73 | | **.\_\_\_ \_\_\_** | | 74 | | |
|  | **02** | 61 |  | | 63 | 64 | 65 | | | | **.\_\_\_ \_\_\_** | 73 | | **.\_\_\_ \_\_\_** | | 74 | | |
|  | **03** | 61 |  | | 63 | 64 | 65 | | | | **.\_\_\_ \_\_\_** | 73 | | **.\_\_\_ \_\_\_** | | 74 | | |
|  | **04** | 61 |  | | 63 | 64 | 65 | | | | **.\_\_\_ \_\_\_** | 73 | | **.\_\_\_ \_\_\_** | | 74 | | |
|  | **05** | 61 |  | | 63 | 64 | 65 | | | | **.\_\_\_ \_\_\_** | 73 | | **.\_\_\_ \_\_\_** | | 74 | | |
|  | **06** | 61 |  | | 63 | 64 | 65 | | | | **.\_\_\_ \_\_\_** | 73 | | **.\_\_\_ \_\_\_** | | 74 | | |
|  | **07** | 61 |  | | 63 | 64 | 65 | | | | **.\_\_\_ \_\_\_** | 73 | | **.\_\_\_ \_\_\_** | | 74 | | |
|  | **08** | 61 |  | | 63 | 64 | 65 | | | | **.\_\_\_ \_\_\_** | 73 | | **.\_\_\_ \_\_\_** | | 74 | | |
|  | **09** | 61 |  | | 63 | 64 | 65 | | | | **.\_\_\_ \_\_\_** | 73 | | **.\_\_\_ \_\_\_** | | 74 | | |
|  | **10** | 61 |  | | 63 | 64 | 65 | | | | **.\_\_\_ \_\_\_** | 73 | | **.\_\_\_ \_\_\_** | | 74 | | |
|  | **11** | 61 |  | | 63 | 64 | 65 | | | | **.\_\_\_ \_\_\_** | 73 | | **.\_\_\_ \_\_\_** | | 74 | | |
|  | **12** | 61 |  | | 63 | 64 | 65 | | | | **.\_\_\_ \_\_\_** | 73 | | **.\_\_\_ \_\_\_** | | 74 | | |
|  | **13** | 61 |  | | 63 | 64 | 65 | | | | **.\_\_\_ \_\_\_** | 73 | | **.\_\_\_ \_\_\_** | | 74 | | |
|  | **14** | 61 |  | | 63 | 64 | 65 | | | | **.\_\_\_ \_\_\_** | 73 | | **.\_\_\_ \_\_\_** | | 74 | | |
| 2. [*For biocontrols or pesticides not listed in Respondent Booklet, specify*---] | | | | | | | | | | | | | | | | | | |

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| **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.*] |
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|  | **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 |  | |  |
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|  | **9** | **10** | | **11** | **12** |  | **OPTIONAL ITEM 4** | | | |
|  |  |  | |  |  |  | **What was the cost per unit of the product?** | | | |
|  |  |  | |  |  |  |
| **L**  **I**  **N**  **E** | **How**  **was this**  **product**  **applied?**  [*Enter code*  *from above*.] | **How many**  **acres in this**  **field were**  **treated with**  **this product?** | | **How many**  **times was it**  **applied?** | **Were these**  **applications**  **made by---**  1 Operator, partner  or family member?  2 Custom applicator?  3 Employee/Other? |  |  | | **UNIT CODE** | |
| **DOLLARS & CENTS**  **PER UNIT** | | 1 Pounds  12 Gallons  13 Quarts  14 Pints | 15 Liquid Ounces  28 Dry Ounces  30 Grams |
| **ACRES** | | **NUMBER** |  |  |
| **01** | 76 | 77 | **.\_\_\_** | 79 | 80 |  | 81 | **.\_\_\_ \_\_\_** | 82 | |
| **02** | 76 | 77 | **.\_\_\_** | 79 | 80 |  | 81 | **.\_\_\_ \_\_\_** | 82 | |
| **03** | 76 | 77 | **.\_\_\_** | 79 | 80 |  | 81 | **.\_\_\_ \_\_\_** | 82 | |
| **04** | 76 | 77 | **.\_\_\_** | 79 | 80 |  | 81 | **.\_\_\_ \_\_\_** | 82 | |
| **05** | 76 | 77 | **.\_\_\_** | 79 | 80 |  | 81 | **.\_\_\_ \_\_\_** | 82 | |
| **06** | 76 | 77 | **.\_\_\_** | 79 | 80 |  | 81 | **.\_\_\_ \_\_\_** | 82 | |
| **07** | 76 | 77 | **.\_\_\_** | 79 | 80 |  | 81 | **.\_\_\_ \_\_\_** | 82 | |
| **08** | 76 | 77 | **.\_\_\_** | 79 | 80 |  | 81 | **.\_\_\_ \_\_\_** | 82 | |
| **09** | 76 | 77 | **.\_\_\_** | 79 | 80 |  | 81 | **.\_\_\_ \_\_\_** | 82 | |
| **10** | 76 | 77 | **.\_\_\_** | 79 | 80 |  | 81 | **.\_\_\_ \_\_\_** | 82 | |
| **11** | 76 | 77 | **.\_\_\_** | 79 | 80 |  | 81 | **.\_\_\_ \_\_\_** | 82 | |
| **12** | 76 | 77 | **.\_\_\_** | 79 | 80 |  | 81 | **.\_\_\_ \_\_\_** | 82 | |
| **13** | 76 | 77 | **.\_\_\_** | 79 | 80 |  | 81 | **.\_\_\_ \_\_\_** | 82 | |
| **14** | 76 | 77 | **.\_\_\_** | 79 | 80 |  | 81 | **.\_\_\_ \_\_\_** | 82 | |

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| 3. **Were any chemicals, biocontrols, or pesticides applied by custom applicators?** |

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| **YES** – [*Continue*] | **NO** – [*Go to item 4*] | | | | | | **OFFICE USE** | | |
| a. Are you able to report the cost of chemical, biocontrol, and pesticide products and custom application separately? | | | | | | | 0324 | | |
| **YES** – [*Continue*] | **NO** – [*Go to item 4*] | | | | | | | | |
| b. Excluding the cost of the chemical, biocontrol, and pesticide products,  how much was spent for custom application of such materials on this field? (***Include*** *operator, landlord, and contractor costs.*). . . . . . . . . . . . . . . . . . . | | | **DOLLARS & CENTS**  **PER ACRE** | | | **OR** | **TOTAL DOLLARS** | | |
| 0331 | **.\_\_\_ \_\_\_** | |  | 0332 | | |
| 4. **What was the TOTAL COST of all chemical, biocontrol, or pesticide**  **products applied to this field?** (***Include*** *operator, landlord, and contractor costs, defoliants, herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators, and materials applied before planting and during 2015 fallow period.* ***Exclude*** *seed treatments.*). . . . . . . . . . . . . . . . . . . . . . . . . | | | **DOLLARS & CENTS**  **PER ACRE** | | | **OR** | **TOTAL DOLLARS** | | |
| 0334 | **.\_\_\_ \_\_\_** | |  | 0335 | | |
| a. How much was spent for **herbicide** products applied to this field?  (***Include*** *operator, landlord, and contractor costs.*). . . . . . . . . . . . . . . . . . . | | **DOLLARS & CENTS**  **PER ACRE** | | | | **OR** | | **TOTAL DOLLARS** |
| 3034 | | | **.\_\_\_ \_\_\_** |  | | 3035 |
| b. How much was spent for **insecticide** products applied to this field?  (***Include*** *operator, landlord, and contractor costs.*). . . . . . . . . . . . . . . . . . . . | | **DOLLARS & CENTS**  **PER ACRE** | | | | **OR** | | **TOTAL DOLLARS** |
| 3036 | | | **.\_\_\_ \_\_\_** |  | | 3037 |
|  | | | | | | | | | |
| **NOTE 1**: *If respondent cannot report TOTAL COST, itemize cost for each product in optional columns in Biocontrol or Pesticide Table.* | | | | | | | | | |
| **NOTE 2**: *If custom applied and the costs for materials can be separated from application costs, include the cost for materials only.*  *Otherwise, report both the material and application costs in item 4*. | | | | | | | | | |

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

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| **Now I have some questions about your pest management decisions and practices**  **used on this field for the 2020 corn crop. By pests, we mean WEEDS, INSECTS, and DISEASES.** | | |  | | |  |  |
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| [**ENUMERATOR ACTION:** *Were PESTICIDE applications reported in Section D?*] | | | | | | | |
| **YES** – [*Continue*] | **NO** – [*Go to item 6*] | | | | **CODE** | | |
| 1. **Was weather data used to assist in determining either the need or when to make pesticide applications?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | | 0800 | | | |

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| 2. **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 |

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| 3. **Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides?** . . . . . . . . . . . . | **YES = 1** | 0802 |

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| [**ENUMERATOR ACTION*:*** *Were HERBICIDE* (pesticide product codes 40000-49999)  *applications reported in Section D, item 1, column 2?*] | | | |
| **YES** – [*Continue*] | **NO** – [*Go to item 6*] | | |
| 4. **Were herbicides applied to this corn field BEFORE weeds emerged?**. . . . . . . . . . . . . . . . . | | **YES = 1** | 0803 |

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| 5. **Were herbicides applied to this corn field AFTER weeds emerged?** . . . . . . . . . . . . . . . . . . | **YES = 1** | 0805 |

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| 6. **In 2020, how was this field**  **primarily scouted for insects,**  **weeds, diseases, and/or beneficial**  **organisms?** . . . . . . . . . . . . . . . . . . . . . . . . . | 1 By deliberately going to the field specifically for scouting activities [*Enter code 1 and go to item 7.*]  2 By conducting general observations while performing routine tasks [*Enter code 2 and go to item 9*.]  3 This field was not scouted.  [*Enter code 3 and go to item 15.*] |  | **CODE** |
| . . . . | 0808 |
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| 7. **Was an established scouting process** (*systematic sampling, recording counts, etc*.) **used**  **or were insect traps used in this field?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0809 |

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| 8. **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 |
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| 9. **Were records kept for this field to track the activity or numbers of weeds, insects or diseases?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | **CODE** |
| 0823 |
|  |  |  |
| 10. **Did you use published information on infestation thresholds to determine when**  **to take measures to manage pests in this field?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0824 |
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| 11. **Do you believe that rootworms damaged corn grown on this field?** . . . . . . | **YES = 1** | 1923 |
| [*If Item 11 is YES, Continue. Else go to Item 12.*] |  | **COUNT** |
| a. If you believe that rootworm damage lead to lodging, approximately how many stalks were lodged?. . . . . . . . . . . . . . . |  | 1924 |
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| b. If you believe that rootworm damage stunted plant growth, approximately how many stalks were affected?. . . . | 1  2  3 | One node eaten back to 1.5 inches of the stalk  Two complete nodes eaten  Three or more nodes eaten | . . . . . | **CODE** |
| 1925 |

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| 1 | | 2 | 3 | | |
| 12. **Was this corn field scouted for--** | **YES = 1** | [*If* ***YES****, ask--*-]  **What 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?. . . . . . . . . . . . . . . . . . . | 0815 | 0816 | 0817 | | |
| (i) Corn borer | 1731 | 1732 | 1733 | | |
| (ii) Corn rootworm | 1734 | 1735 | 1736 | | |
| c. Other insects | 1708 | 1738 | 1712 | | |
| d. Diseases?. . . . . . . . . . . . . . . . . . . . . . . . | 0818 | 0819 | 0820 | | |
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| [*If* *scouted by crop consultant or commercial scout, ask item 13;*  *else go to item 14.*] |  | | |  |  |
| *13.* **How much was charged for the scouting services for this field?**  [***Include*** *operator, landlord and contractor cost*.]. . . . . . . . . . . . . . . . . . . . . . | **DOLLARS & CENTS**  **PER ACRE** | | | **OR** | **TOTAL DOLLARS** |
|  | 0821 | **.\_\_\_ \_\_\_** | |  | 0822 |
|  | | | | | **OFFICE USE** |
| a. [*If scouting performed at no cost, explain*:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_] | | | . . . . . . | | 0333 |
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| 14. **Did you use field mapping of previous weed problems to assist you in making weed management decisions?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0825 |

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| 15. **Did you do any of the following other type(s) of pest management practices 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** | 0841 |
| b. Plow down crop residue (*using conventional tillage*)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0842 |
| c. Remove/burn down crop residue?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0843 |
| d. Rotate crops in this field during the past three years?. . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0844 |
| e. Maintain ground covers, mulches, or other physical barriers?. . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0845 |
| f. Choose crop variety because of specific resistance to a certain pest?. . . . . . . . . . . . . . . | **YES = 1** | 0846 |
| g. Use no-till or minimum till?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0847 |
| h. Plan planting locations to avoid cross infestation of pests?. . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0848 |
| i. Adjust planting or harvesting dates?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0849 |
| j. Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fence lines?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0850 |
| k. Clean equipment and field implements after completing field work to reduce the spread of pests?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0851 |
| l. Adjust row spacing, plant density or row directions?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0852 |
| m. Have the seed treated for insect or disease control after you purchased the seed for this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0854 |
| n. Maintain a beneficial insect or vertebrate habitat?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0855 |
| o. Use a flamer to kill weeds?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0857 |
| p. Maintain buffer strips or border rows to isolate corn from non-organic crops or land,  or did you take a buffer harvest?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0856 |
| q. Plant earlier or later to avoid weeds? . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0865 |

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| 16. **Were any beneficial organisms** (insects, nematodes, fungi) **applied**  **or released in this field to manage pests?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0853 |
| 17. **Were floral lures, attractants, repellants, pheromone traps or other biological pest** **controls used on this field?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0858 |

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| [If item 16 or item 17 is YES, ask--] | |  | | |  | |  | |
| a. **What were the TOTAL materials and application costs**  **for all biological pest controls for this field*?***  ***Include*** *operator, landlord, and contractor costs.* ***Include*** *cost for beneficial organisms (insects, nematodes, and fungi).*  ***Exclude*** *biological pesticides previously reported.. . . . . . . . . . . . . . . . . .* | | **DOLLARS & CENTS**  **PER ACRE** | | | **OR** | | **TOTAL DOLLARS** | |
| 0859 | | .\_\_\_ \_\_\_ |  | | 0860 | |

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|  | | **CODE** | |
| 18. **Was a trap crop** (*excluding fallow*) **grown to help manage insects in this field?** . . . . . . . . | **YES = 1** | 0863 | |
|  |  | | **CODE** |
| 19. **Was this field left in fallow in 2015 to help manage insects on this field?** . . . . . . . . . . . . | **YES = 1** | 0864 | |

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| 20. **Were water management practices such as irrigation scheduling, controlled**  **drainage, or treatment of retention water used on this field to manage pests**  **or toxin-producing fungi and bacteria?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** |  | |
| 0861 | |
|  | | |  |  | |
| 21. **Was protection of beneficial organisms a factor in your pest control decisions for this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .** | | | **YES = 1** | 1765 | |
| [*If Item 21 is YES, continue. Else go to Item 22.*] | | |  |  | |
| a. Did you change timing of, reduce application rate of, or eliminate a  pesticide application?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | 1766 | |
| b. Did you change to an alternative pesticide, biocontrol, or non-pesticide practice?. . . . . . . | | | **YES = 1** | 1767 | |
| 22. **Did you cultivate this field for weed control?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **YES = 1** | 2453 | |
| [*If YES, ask--*] | | |  | **NUMBER** | |
| a. How many times?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | 2454 | |
|  |  | | |  | |
| 24. **Did you use a soil-insecticide or insecticidal seed treatment in the refuge in 2020? . . . .** | | | **YES = 1** | 1765 | |
|  |  | | | **UNIT CODES** | |
|  | **UNITS PER ACRE** | | | 1  2  3  4 | POUNDS  CWT  TONS  BUSHELS |
| 25. **If untreated** (*either with insecticide 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?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2670 | .\_\_\_ | | 2671 | |
|  |  | | |  | |
| 26. **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?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2672 | .\_\_\_ | | 2673 | |

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| --- | --- | --- | --- |
| 27. **If untreated (either with herbicides, tillage, or cultivation), how much yield loss (e.g. bushels per acre) do you think weeds would most likely cause on this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |  | .\_\_\_ |  |

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|  |  | **CODE** |
| 28. **Did pests** (weeds, insects, pathogens, animals) **cause any yield loss on this field in spite of your pest control efforts?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0827 |
| [*If YES, ask--*] |  |  |

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| a. How much yield loss do you think was caused by all pests on this field in spite of the management practices you used to reduce those losses? |  |  | |  | **CODE** |  | **UNITS PER**  **ACRE** |  | **TOTAL UNITS** |
|  | |
|  | 1  2 | BUSHELS  TONS | . . . . | 828 | **AND** | 829 | **OR** | 830 |
|  |  | |  |  |  |  |  |  |
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| 29. **If you used genetically engineered, glyphosate resistant seeds on this field in 2020, indicate the number of consecutive years you have planted genetically engineered, glyphosate-resistant seeds.** [***Note****: A producer who used HT corn in 2020 and 2015, but conventional corn in* *2014, has used genetically engineered, glyphosate resistant seeds for “2” consecutive years*.] |  |
| **NUMBER OF YEARS** |
| 1970 |

|  |  |
| --- | --- |
|  | **YEAR** |
| a. What year did you first plant any glyphosate resistant seeds on this field?. . . . . . . . . . . . . . | 1971  \_\_\_ \_\_\_ \_\_\_ \_\_\_ |

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|  | | **CODE** |
| 30. **Have you noticed a decline in the effectiveness of glyphosate** (e.g. Roundup) **in controlling weeds in this field?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0834 |
| [*If item 27= YES, continue. If item 27 = NO, go to item 30*.] | | **YEAR** |
| a. What was the first year you noticed a decline in effectiveness of glyphosate in  controlling weeds on this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 0835  \_\_\_ \_\_\_ \_\_\_ \_\_\_ |
| 31. **After noticing the decline in the effectiveness of glyphosate in controlling weeds on**  **this field, did you--** | | **CODE** |
| a. stop planting glyphosate resistant crops?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0837 |
| b. change tillage practices?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0839 |

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| 32. Have any of the following herbicides been used since 2016**?** | | | | | | | |
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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | 2020  Yes=1 | 2019  Yes=1 | 2018  Yes=1 | 2017  Yes=1 | 2016  Yes=1 | | Glyphosate |  |  |  |  |  | | Glufosinate |  |  |  |  |  | | Dicamba |  |  |  |  |  | | 2, 4-D |  |  |  |  |  | |  |  |  |  |  |  | | | | | | | | |

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|  | | **CODE** |
| 33. **Have Herbicide Tolerant seeds been planted on this field any time since 2016?**. . . . . . | **YES = 1** | 0834 |
| [*If item 33= YES, continue. If item 33 = NO, go to item 36*.] | |  |

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|  | Have you noticed a decline in the effectiveness of this herbicide in controlling weeds in this field?  Yes=1 | What was the first year you noticed a decline in the effectiveness of herbicides in controlling weeds in this field? | After noticing the decline in the effectiveness of the herbicide in controlling weeds on this field, did you-- | | |
| Stop planting herbicide resistant crops with this trait? Yes=1 | Change tillage practices?  Yes=1 | Switch to an alternative herbicide?  Yes=1 |
| Glyphosate |  |  |  |  |  |
| Glufosinate |  |  |  |  |  |
| Dicamba |  |  |  |  |  |
| 2, 4-D |  |  |  |  |  |
| Sulfonylurea (STS) (soybean) |  |  |  |  |  |

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| 34. **Considering each year you planted a glyphosate resistant crop on this field, have you ever used the following practices in order to reduce the rate that glyphosate resistance develops in weeds on this field?** | | | | | |
| **1** | **2** | **3** | | **4** | |
| **RESISTANCE MANAGEMENT PRACTICE** |  | **How often did you use this practice on this field?** | | **Did the cost of managing weeds on this field increase as a result of your use of the practice?** | |
|  |  |  | 1 Every Year  2 Every Other Year  3 Multiple Years  4 One Year |  | 1 Yes  2 No  3 Don’t Know |
|  | **YES = 1** | **CODE** | | **CODE** | |
| a. Control weeds early | 0886 | 2871 | | 0878 | |
| b. Control weed escapes | 0887 | 2872 | | 0879 | |
| c. Clean equipment between moving from one field to the next | 0888 | 2873 | | 0880 | |
| d. Use herbicides other than glyphosate | 0889 | 2874 | | 0881 | |
| e. Use tillage | 0890 | 2875 | | 0882 | |
| f. Use the herbicide label recommended application rate | 0891 | 2876 | | 0883 | |
| g. Rotate crops | 0892 | 2877 | | 0884 | |

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| [*If item 30 column 2 contains at least one “1”, ask: otherwise go to item 32.*] |

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| 35. **Considering the above practices (i.e. a-g) do you believe resistance management practices are or would be more effective in reducing the rate that herbicide resistance develops in weeds on this field if operators of nearby farms also use them?** . . . . . . . . . . . . . . . . . . . | 1 – Yes  2 – No  3 – Don’t Know  4 – The nearest farm is too far  away to affect this field | . . . . . . . |  |
| **CODE** |
| 0088 |

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| 36. **Did you plant genetically-engineered rootworm-resistant seed on this field in 2020?** . | **YES = 1** | 2926 |
|  |  | **YEARS** |
| a. How many consecutive years have you used rootworm resistant seeds on this field?. . . . |  | 2927 |
| [*If Item 32a is greater than 1, continue. Otherwise go to Section F.*] |  |  |
| b. Have you ever switched from a rootworm resistant seed with one mode of action (MOA) to a pyramided rootworm resistant seed? *Note: Pyramided seeds have multiple MOAs*. | **YES = 1** | 2928 |
| [*If Item 32b is YES, ask*--] |  | **YEAR** |
| c. What year did you switch from a rootworm resistant seed with one MOA to a pyramided rootworm resistant seed?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |  | 2929 |

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|  | **Completion Code for**  **Pest Management Data** | |
|  | 1 Incomplete/Refusal | 0500 |

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

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| 1. **Including custom operations, I need to list field work performed**  **by machines on this field for the 2020 corn crop. Please…** | | |  |
| **CHECK LIST** |
| ► begin with the first field operation after harvest of previous crop,  including operations for a cover crop established since the previous crop  harvested [*if fallow during* 2019*, list operations starting*  *with fall 2018*]; | | | **Include** all field work using machines for---  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  Compost & Non-Commercial Manure 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  5 Paid Full-time Worker  6 Custom Applicator |  |
|  |  |
|  | **OFFICE USE**  **LINES IN TABLE** |
| 0499 |

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|  |  |  |  |  | **[IF CUSTOM (*column 5 = code 6* ), *skip columns 6-11*]** | | | | | | | |
|  | **2** | **3** | **4** | **5** | **6** | **7** | **8 OR 9** | | | **10** | | **11** |
| **L**  **I**  **N**  **E** | **S**  **E**  **Q**  **U**  **E**  **N**  **C**  **E** | **What operation or equipment was used?** | [*Record machine*  *code*  *from*  *Respondent*  *Booklet.*] | **Who was**  **the machine**  **operator-**  [*Enter*  *code*  *from*  *above*.] | **What**  **was the**  **size or**  **swath**  **of the**  [*machine*]  **used?** | [*Record size unit code*.]  1 Feet  2 Row  3 Moldboard   (*bottoms*)  **Hauling**  4 Pounds  5 Bushels  6 Tons | **How**  **many**  **acres**  **were**  **covered?**  [*Exclude*  *land forming*  *and*  *hauling*  *operations*] | | **How many TOTAL HOURS were spent on land forming, or hauling?**  [*Example: backhoes, disk border maker, ditcher, rear mounted blade, trucks, wagons, forklifts, etc.*] | **Which Power Source**  **was used?** **1/**  **Tractors:**  1= (<40 HP)  2= (40-99 HP)  3= (100-149 HP)  4= (150-199 HP)  5= (>=200 HP)  **Other:**  66=Animal Drawn  77=Pick-up  99=Self Propelled  **1/** | | **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 |
| **No.** | **No.** |  | **CODE** | **CODE** |  | **CODE** | **ACRES** | | **HOURS** | **CODE** | | **CODE** |
| **01** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **02** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **03** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **04** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **05** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **06** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **07** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **08** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **09** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **10** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **11** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **12** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **13** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **14** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **15** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **16** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **17** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **18** | 87 |  | 88 | 89 | 90 | 91 | 92 | **.\_\_\_** | 93 | 94 | | 95 |
| **1/** *If trucks other than pick-ups are used as the power source, use truck codes in Respondent Booklet.* | | | | | | | | | | | **OFFICE USE** | |
|  | | | | | | | | | | | 0400 | |

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| 2. **Now** **I need some additional information about your labor.** |

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| Please report the paid and unpaid labor that worked on this field to produce the 2020 corn crop.  (***Exclude*** *labor that was reported for field work performed by machines.*) |

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|  | **How many hours did** (*type of worker*)**spend on this field---** | | | | | | | |
| **TYPE OF WORKERS** | **1** | | | **2** | | | **3** | |
| scouting for  weeds, insects  and diseases?  **HOURS** | | | irrigating?  **HOURS** | | | performing  other work  by hand?  **HOURS** | |
| You (*the operator*) | 1101 |  | | 1102 | |  | 1103 |  |
| Partner(s) | 1104 |  | | 1105 | |  | 1106 |  |
| Unpaid workers | 1107 |  | | 1108 | |  | 1109 |  |
| Paid part-time or seasonal workers  (***Exclude*** *custom and contract labor*) | 1110 |  | | 1111 |  | | 1112 |  |
| Paid full-time workers  (***Exclude*** *custom and contract labor*) | 1113 |  | | 1114 |  | | 1115 |  |
|  |  | |  | | | | | |

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|  | | **DOLLARS & CENTS**  **PER HOUR** | |
| 3. **What was the average hourly wage rate paid to part-time or seasonal hired workers?**  (***Exclude*** *custom and contract workers, payroll taxes and benefits.*). . . . . . . . . . . . . . . . . . . . . . . . . . . | 1119 | | **.\_\_\_ \_\_\_** |

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| --- | --- | --- | --- |
|  | | **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.*). . . . . . . . . . . . . . . . . . . . . . . . . . . | 1118 | | **.\_\_\_ \_\_\_** |

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| --- | --- | --- | --- |
|  | | **CODE** | |
| 5. **Was any contract labor used on this field?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1116 | |
| [If YES, ask --- | | **DOLLARS & CENTS**  **PER ACRE** | | |
| a. What was the average cost per acre for this contract labor?  (***Include*** *operator, landlord, and contractor costs*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 1117 | **.\_\_\_ \_\_\_** |

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|  | **PERCENT** |
| 6. **What percent of the total number of unpaid hours worked on this field was performed by workers under 16 years of age?** (*Estimates of labor costs for unpaid workers are based on*  *off-farm wage rates, which are different for workers under 16 relative to those 16 and older.*) . . . . . . . | 1120 |

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| --- | --- | --- |
| 7. **Now I need some information on how much was spent** (or will be spent) **for custom services used on this**  **field for the 2020 corn crop.** | | |
|  | | |
| 🗸 | 1  **CUSTOM SERVICE**  **Which of the following services were performed**  **for the 2020 corn crop on this field?**  🡨 [*Check box for each service performed; refer to item 1 if necessary*.] | 2  **Including**  **operator, landlord,**  **and contractor costs,**  **how much was spent**  **for** [*column 1*] **on**  **this field for the 2020**  **corn crop?**  **DOLLARS & CENTS**  **PER ACRE** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | a. Custom land preparation, shaping and/or leveling?  \_\_ \_\_**.\_\_** **\_\_** **X** \_\_\_\_\_\_\_\_\_\_\_ =\_\_\_\_\_\_\_\_\_\_\_**÷ \_\_\_\_\_\_\_\_\_\_\_\_ = \_\_ \_\_.\_\_ \_\_**  (Cost per hour X Total hours = Total dollars ÷ Total acres in the field = Dollars & cents per acre) . . . | 1121 | **.\_\_\_ \_\_\_** |
|  | b. Custom cultivating?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1122 | **.\_\_\_ \_\_\_** |
|  | c. Custom planting and/or reseeding?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1123 | **.\_\_\_ \_\_\_** |
|  | d. Custom harvesting?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1124 | **.\_\_\_ \_\_\_** |
|  | e. Custom 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) . | 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 | **.\_\_\_ \_\_\_** |

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|  | | | | **CODE** | |
| 8. Was the corn harvested and hauled from this field dried (or will be dried) before it was sold or stored? YES=1 | | | |  | |
| 9. **Did you hire any technical or consultant services to make recommendations**  (*such as for nutrient, pest control, irrigation, or precision farming*) **for this field?**  **YES** – [*Continue*]  **NO** – [*Go to item 10*] | | | | | |
| Which of the following services did you obtain? | |  | | **CODE** | |
| a. Nutrient recommendations/management service?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | | 1129 | |
| b. Soil or tissue sample collection?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **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 | |

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| 10. **If YES to any of these services, what was the cost for all of these services?** (***Include*** *operator, landlord, and contractor costs.* ***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 |  |

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| --- | --- | --- |
|  | | **CODE** |
| 11. **Were there** (*or will there be*) **any data collection tools** (yield monitors, GPS mapping, etc.) **used during field operations on this corn field?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 2460 |

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| [If YES, continue; else go to Item 12] |
| **Please report the data collection technologies you used on this field to produce this crop. Also indicate if the data is collected with Global Positioning System (GPS) coordinates and if the data will be used to create a map.** (In the fifth column, report how much it would cost you to replace the data collection tool. In the sixth column, report the annual costs of using the data collection tool. Include custom service fees, data subscriptions, and online tool subscriptions. If the replacement cost or annual fee does not apply to a particular data collection tool, leave that row blank.) |

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| 1 | 2 | 3 | 4 | 5 | 6 |
| **Data Collection Tool** | **Tool Used** | **Collected with GPS** | **Data was/will be used to create a map** | **Replacement Cost** | **Annual Fee** |
|  | **YES = 1** | **YES = 1** | **Yes = 1** | **Total dollars** | **total dollars** |
| a. Yield monitor. . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2461 | 2462 | 2463 |  |  |
| b. Soil tests on core sample (performed on-farm or sent out to a laboratory). . . . . . . . . . . . . . . . . . . | 2464 | 2465 | 2466 |  |  |
| c. Soil sensor tests. . . . . . . . . . . . . . . . . . . . . . . . . | 2467 | 2468 | 2469 |  |  |
| d. Hard-wired crop condition sensors. . . . . . . . . . . | 2470 | 2471 | 2472 |  |  |
| e. Wireless crop condition sensors. . . . . . . . . . . . . | 2473 | 2474 | 2475 |  |  |
| f. Drones, aircraft or satellites. . . . . . . . . . . . . . . . | 2476 | 2477 | 2478 |  |  |
| g. Custom service applications (data from completed work on your field). . . . . . . . . . . . . . . | 2479 | 2480 | 2481 |  |  |
| h. Public data downloaded from online sources. . . | 2482 | 2483 | 2484 |  |  |

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| 12. **Please report how your farm data will be stored and accessed.** [*Enter code “1” for all that apply.*] | | |
| a. Did you access the data collected from this field on a-- |  | **CODE** |
| (i) Paper hard copy?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 2485 |
| (ii) Personal computer?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 2486 |
| (iii) Mobile device?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 2487 |
| b. Did you access the data collected from this field through an agricultural technology provider website?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 2488 |
| [*If item 12b = 1 continue, otherwise go to item 13*] |  |  |
| c. Did you opt-out of allowing your agricultural technology provider website to share data collected from this field with any third party?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 2489 |
| d. Did you share any of the data collected from this field with a third party through an agricultural technology provider website?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 2490 |

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| 13. **Did you obtain crop management recommendations** (data interpretation) **based on that data you collected from--**[*Enter code “1” for all that apply.*] | | | | | | |
| a. Input dealers?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | **YES = 1** | | 2491 |
| b. Integrated input providers?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | **YES = 1** | | 2492 |
| c. Custom service providers?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | **YES = 1** | | 2493 |
| d. USDA/University extension services?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | **YES = 1** | | 2494 |
|  | | | | | | |
| [*If crop management recommendations were obtained, ask--*] | **DOLLARS & CENTS PER ACRE** | **OR** | | **TOTAL DOLLARS** | | |
| e. What was the cost for all of these services? (Include operator, landlord, and contractor costs. Do not report costs for any of these services if they were previously reported as part of the costs of materials and/or application). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 3150  **.\_\_\_\_ \_\_\_\_** |  | | 3151 | | |

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| 14. **Did you use the yield monitor information to---** [*Enter code “1” 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) negotiate new crop leases?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | 1144 |
| (iv) Help determine input use for management zones? . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** |  |
| (v) other uses [*specify:*] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | . . . . . . . | **YES = 1** | 1147 |

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| 15. **Was any of the following GPS-enabled** (Global Positioning System) **equipment used to produce crops on this field?** [*Enter code “1” for all that apply*.] | |  | **CODE** | |
| a. Light Bar?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | 2148 | |
| b. “Smart” technologies like Google Glass or other heads-up cab control displays?. . . . . . . . | | **YES = 1** | 2149 | |
| c. Other GPS-enabled equipment?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | 1158 | |
| d. Any farming-specific apps for phones and tablets?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | 1152 | |
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| [*If GPS-enabled, ask--*] | | **DOLLARS & CENTS PER ACRE** | | **OR** | **TOTAL DOLLARS** | | |
| e. What was the cost to purchase and install all GPS-enabled equipment? (Include cost for GPS receiver and annual GPS subscription fee, and operator, landlord, and contractor costs. Do not report costs for any of this equipment if they were previously reported as part of the costs of materials and/or application.) . . . . . . . . . . . . . . . | | **.\_\_\_\_ \_\_\_\_** | |  |  | | |
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|  | | | | | **CODE** | |
| 16. **Was guidance auto-steering (excluding Light Bar) used on this field?**. . . . . . . . . . . . . . . . | | | | **YES = 1** |  | |
| [If 16=1, ask--] | | | |  |  | |
| a Was the guidance auto-steering equipment: . . . . . . . . . . . . . | | 1. New 2. Used   3 Leased | . . . . | |  | |
| b. Was the guidance auto-steering equipment:. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | **YES = 1** |  | |
|  | | | |  | **YEAR** | |
| b. What year was guidance auto-steering first purchased?. . . . . . . . . . . . . . . . . . . . . . . . . . . | | | |  |  | |
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|  | | **DOLLARS & CENTS**  **PER ACRE** | | | | **OR** | | **TOTAL DOLLARS** | |
| c. What is the replacement cost for guidance auto-steering equipment?. . . . | |  | | **.\_\_\_ \_\_\_** | |  | |  | |
|  | **DOLLARS & CENTS**  **PER ACRE** | | | | | | **OR** | | **TOTAL DOLLARS** | |
| d. What is the annual fee for guidance auto-steering?. . . . . . . . . . . . . . . . . . | | |  | | **.\_\_\_ \_\_\_** | |  | |  | |

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|  | | **CODE** |
| 17. **Was a variable rate applicator used on this field?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** |  |

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| [If YES, continue; else go to Section G] |
| Please report the variable rate applicator types you used on this field to produce this crop. If a particular row’s variable rate applicator was not used, leave that row blank. |

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| 1 | 2 | 3 | 4 | 5 |
| **Was a variable rate applicator used on this field for:** | Was this applicator  1 Sensor-based  2 GPS-based  3 Both  4 Neither | Was this applicator  1 New  2 Used  3 Leased | What year was the applicator first used?  Year | Premium paid for the applicator total dollars |
|  |  |  |  |  |
| a. Seeding |  |  |  |  |
| b. Fertilizer/lime applications |  |  |  |  |
| c. Pesticide applications |  |  |  |  |

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

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| 1. **How many acres in this field were irrigated for the 2020 corn crop?**  [*If none, go to* ***Conclusion***]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **ACRES** | |
| 1160 | **.\_\_\_** |
|  | | |
| 2. **Now, I have some questions about irrigation systems and water used on this field**  **for the 2020 corn crop.** | | |

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| **↓** | | **UNIT** | **SYSTEM 1** | | **SYSTEM 2** | |
| a. What type(s) of irrigation system(s) was (*or were*) 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---  [*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?**   99 **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 2e = 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 2020 growing season? (***Exclude*** *this field*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **ACRES** | 1174 | **.\_\_\_\_** | 1188 | **.\_\_\_\_** |

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|  | **DOLLARS & CENTS**  **PER ACRE** | | | **OR** | **TOTAL DOLLARS** |
| 3. **What was the cost of the fuel or electricity used to irrigate this field?**  (***Include*** *operator, landlord, and contractor costs*.). . . . . . . . . . . . . . . . . . . . . . . | | 1189 | **.\_\_\_ \_\_\_** |  | 1190 |

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| 4. **Was any water purchased to irrigate this field?** (***Include*** *landlord's share and purchases*  *from all sources*.)  **YES** – [*Enter code 1 and continue*.]  **NO** – [*Go to item* *5.*]. . . . . . . . . . . . . . . . . . . . . . | **CODE** |
| 1191 |

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| a. What was the total cost for the water purchased for this field  during the 2020 growing season? (***Include*** *operator, landlord, and contractor costs and ditch maintenance costs for this field*.). . . . . . . . . . . | **DOLLARS & CENTS**  **PER ACRE OR** | | | **TOTAL DOLLARS** |
| 1193 | **.\_\_\_ \_\_\_** |  | 1194 |

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| [*If SIPHON TUBES were used* (item 2a = 10 or 11)*, ask*---] | **TOTAL DOLLARS** |
| 5. **What would be the total cost to replace all the siphon tubes used on this field?** . . . . . . . . . . . . | 1201 |

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| [*If POLY PIPE system was used* (item 2a = 14) *ask*---] | **TOTAL DOLLARS** |
| 6. **What was the total amount spent for poly pipe used on this field during the**  **2020 growing season?** (***Include*** *operator, landlord, and contractor costs*.). . . . . . . . . . . . . . . . . . . . | 1202 |

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| [*If GATED PIPE system was used* (item 2a = 15 or 16), *ask*---] | **INCHES** |
| 7. **What was the average diameter of gated pipe used to irrigate this field?** . . . . . . . . . . . . . . . . . . | 1203 |
|  | **FEET** |
| a. What was the total length of gated pipe used?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1204 |

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| 8. **Were wells used to supply irrigation water for this field?**  **YES** – [*Enter code 1 and continue*]  **NO** – [*Go to item 9*]. . . . . . . . . . . . . . . . . . . . . . . | **CODE** |
| 1205 |
|  | **NUMBER** |
| a. How many wells were used to irrigate this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1206 |
|  | **INCHES** |
| b. What was the average diameter of the outer well casing?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1207 |
| 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*.]. . . . . . . . . . . . . . . . . . . . . . . . | **FEET** |
| 1208 |

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| d. Were other fields irrigated using water pumped from wells that supplied  water to the selected field?  **YES** – [*Enter code 1 and continue*]  **NO** – [*Go to item 9*]. . . . . . . . . . . . . . . . . . . . | **CODE** | |
| 1210 | |
| e. Excludingthis field,how many other acres on this operation were irrigated  using the same wells during the 2020 growing season?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **ACRES** | |
| 1211 | **.\_\_\_** |

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| 9. **Was any additional mainline or lateral pipe used to carry water from the source to the**  **system in this field?** (***Include*** *underground pipe.* ***Exclude*** *any system pipe within the selected field.*)  **YES** – [*Continue*]  **NO** – [*Go to Conclusion*] | |
|  | **INCHES** |
| a. What was the average diameter (*in inches*) of the most common type  of this additional pipe used?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1212 |
|  | **FEET** |
| b. How many feet of this additional pipe were used to bring water to this field?. . . . . . . . . . . . . . . . . . | 1213 |

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|  | **CONCLUSION** |  |

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| **LOCATION OF SELECTED FIELD** | | | | | | | | |
| 1. **I need to locate the selected field of corn on this map.** | | | **COUNTY NAME** | | | | **OFFICE USE**  **COUNTY FIPS CODE** | |
| 2. **What county is the selected 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* | | |
| 3. [**ENUMERATOR ACTION:** *Mark map to indicate where the selected corn field is located*.   *Be sure the “X” marked on map is in the county identified above*.] | | | | | | | | |
| 4. **We will need additional information to complete this study. We will contact you in February**  **or March** **2017 to collect it. I’ll call you then to set up a time that is good for you.** | | | | | | | | |

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| 5. **To receive the complete results of this survey on the release date, go to**  **www.nass.usda.gov/results/. Would you rather have a brief summary**  **mailed to you at a later date?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |  | **CODE** | |
| **YES** = **1** | 9990 | |
|  |  | **HH MM** | |
| 6. **ENDING TIME** [*MILITARY*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 0005  \_\_ \_\_ \_\_ \_\_ | |
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| **RECORDS USE** | | | | | |
| 7. [*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 |
|  | | | | | **NUMBER** |
| **SUPPLEMENTS USED** | | | **FERTILIZER**  **APPLICATIONS** | | 0041 |
| 8. [*Record the total number of each type of supplement*  *used to complete this interview.*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **PESTICIDE**  **APPLICATIONS** | | 0042 |
|  | | | **FIELD**  **OPERATIONS** | | 0043 |
|  | | | | | |
| Reported by:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 9910  \_\_\_ \_\_\_ \_\_\_ \_\_\_ **16**  **M M D D** | 9911  Telephone: (\_\_\_\_\_\_)\_\_\_\_\_\_\_\_\_\_\_\_ | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **OFFICE USE** | | | | | | | | | | | | | | | | |
| **R. Unit** | **Ptr 1 Str** | | **Ptr 2 Str** | | **Ptr 3 Str** | | | **Ptr 4 Str** | **OPS** | | | **SSO 1** | **ADJ** | **Optional Use** | | |
| 9921 | 9922 | | 9923 | | 9927 | | | 9928 | 923 | | | 9907 | 922 | 9906 | | 9916 |
| **Response** | | | | **Respondent** | | | **Mode** | | | | **Enum.** | | **POID** | | | |
| 1-Comp  2-R  3-Inac  4-Office Hold | | 9901 | | 1-Op/Mgr  2-Sp  3-Acct/Bkpr  4-Partner  9-Other | | 9902 | 2-Tel  3-Face-to-Face | | | 9903 | 9998 | | 9989  **\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_** | | | |
| **Eval.** | | **Change** | |
| 9900 | | 9985 | |