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| **AGRICULTURAL RESOURCE MANAGEMENT SURVEY** | | | | | | | | | |
|  | | | | | | OMB No. 0535-0218  Approval Expires: 12/31/2018  Project Code: 906  SMetaKey: 2054  Phase II | | | |
|  | | | | | |
| **SURVEY_LOGO_1:USDA_logo_bw.gif** | | **new_nass_logo_bw** | **NATIONAL**  **AGRICULTURAL**  **STATISTICS**  **SERVICE** |
|  | | | | | | SURVEY_LOGO_2:ERS Logo.bmp | | | |
|  |  |  |  |  |  | | National Agricultural Statistics Service  U.S Department of Agriculture  NOC Division  9700 Page Avenue, Suite 400  St. Louis, MO 63132-1547  Phone: 1-800-727-9540  Fax: 314-595-9990  E-mail: nass@nass.usda.gov | | |

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| **SOYBEAN PRODUCTION PRACTICES AND COSTS REPORT FOR 2018** |

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| **VERSION**  **7** | **ID**  **\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_** | **TRACT**  **01** | **SUBTRACT**  **\_\_\_ \_\_\_** | **C-TYPE**  **120** |  |

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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.  We encourage you to refer to your farm records during the interview. |

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|  | **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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| According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB number is 0535-0218. 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. |

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| **A** | **SOYBEAN FIELD SELECTION** | **A** |

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|  | **TOTAL PLANTED ACRES** |
| 1. **How many acres of soybeans did this operation plant for the** **2018 crop year?** [*If no acres planted, review Screening Survey Information Form, make notes, then go to item 4 on back page*]**.**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 0050  **.\_\_\_\_** |
|  | |
| 2. **I will follow a simple procedure to make a random selection from the soybean fields**  **planted for the** **2018 crop.** | |
|  | **TOTAL NUMBER OF FIELDS PLANTED** |
| **What is the TOTAL number of soybean fields that were planted on this operation?**  [*If only one field enter “1” and go to item 5*.]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 0020 |
|  |  |
| 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 soybean questions will be about this selected soybean field.**  [*Be sure the operator can identify the selected field.*] |
| |  |  | | --- | --- | | 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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|  | | | | **ACRES** | | |
| 1. **How many acres of soybeans did this operation plant in this field for the 2018 crop?**. . . . . . . . . | | | | 1301 | **.\_\_\_** | |
|  | | | | **CODE** | | |
| a. Are the acres in this field **CERTIFIED ORGANIC**?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | | 1300 | | |
| [*If* ***YES****, skip 1b and ask item 2*.] | |  | |  | | |
| b. Was this field transitioning into organic soybean production in 2018?. . . . . . . . . . . . . . . . . | | **YES = 1** | | 1399 | | |
|  | | | |
|  | | | | **CODE** | | |
| 2. **Were the acres in this field --** | 1. owned by this operation? 2. rented for CASH with the payment being a fixed cash amount? 3. rented for CASH with the payment being a flexible cash amount? 4. rented for a SHARE of the crop? 5. rented for some combination of CASH and SHARE of the crop? 6. used RENT FREE? | |  | 1302 | | |
|  |  | |  |  | | |
| 3.[*If field is CASH RENTED (item 2 = 2, 3 or 5), ask item 3*, *else go to item 4.*] | | | | **DOLLARS & CENTS PER ACRE** | | |
| **What was the cash rent paid per acre for this** **2018 soybean field?**. . . . . . . . . . . . . . . . . . . . . . . . . | | | | 1303 | | **.\_\_\_ \_\_\_** |
|  | | | | **PERCENT** | | |
| 4. [*If field is SHARE RENTED (item 2 = 4 or 5), ask*--]  **What was the landlord’s share of the crop from this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | 1304 | | |

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| 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** **2018 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 |
|  |  | |  | |  |

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| 6. **What was the total cost for all inputs provided by any contractor for the** **2018 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  **\_\_ \_\_ \_\_ \_\_ \_\_ \_\_** | |
|  | | | | | | |
| a. What was the intended purpose for the  soybeans-–. . . . . . . . . . . . . . . . . . . . . . . . . . | 1 Animal Feed?  2 Human Consumption?  3 Seed?  4 Unknown (Delivered to elevator/grain broker)  5 Other uses [Specify: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_] | . . . |  | |
|  |  |  | **CODE** | |
|  |  |  | 1307 | |
|  | | | **BUSHELS PER ACRE** | |
| b. What was your yield goal at planting for this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | 1311 | |

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| 9. **Was the source of the soybean seed --**. . . . . . . . . | 1 Purchased?  2 Homegrown or traded?  3 Both? | . . . . . . . . . . . . . | | **CODE** | |
| 1317 | |
| a. [*If item 9 = 2 or 3, ask*--] | | | | **PERCENT** | | | |
| How much of the soybean seed planted in this field was grown (*or received in trade*)  by this operation?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | 1318 | | | |
|  | | | | **DOLLARS & CENTS PER BUSHEL** | | | |
| (i) What was the cost per bushel for cleaning and treating this seed?. . . . . . . . . . . . . . . . . . . | | | | 1321 | | **.\_\_ \_\_** | |

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| 10. [*If any seed purchased* (item 9 = 1 or 3), *ask* --] | **DOLLARS & CENTS PER UNIT** | |  | **UNIT CODE**  1 = POUNDS  2 = CWT  3 = TONS  4 = BUSHEL  22 = ACRE  23 = 50 LB BAGS |
| **What was the total cost per unit** (*including both your and the landlord’s share*)  **of purchased seed for this field?** (***Include*** *cost of seed treatment*.) | 1319 | **.\_\_\_ \_\_\_** | 1320 | |

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|  | **UNITS** | **UNIT CODES**  **for Seeding Rate**  1 = Pounds/Acre  2 = CWT/Acre  4 = Bushels/Acre  25 = Seeds/Acre  38 = Seeds/Foot |
| 11. **What was the seeding rate per acre the first time  this field was planted?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1313  **.\_\_\_** | 1314 |

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| a. Was the soybean seed----. . . . . . . . . . . . . . . | 1 Drilled?  2 Planted in Conventional Rows?  3 Broadcast on this field? | . . . . . . . . . . . . . . . . | **CODE** |
| 1316 |
| 12. [*If Drilled or Planted* (*item 11a = 1 or 2*), *ask*---] | |  | **INCHES** |
| **What was the average soybean row width?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | 1322 |

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

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|  | | **CODE** |
| 14. **For the 2018 soybean crop, did you purchase pre-treated seed or have**  **the seed treated after purchase with a fungicide or insecticide?** . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 3062 |

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| [If item 14 is yes, ask--] | **CODE** |  |
| a. List the name of the seed treatment product. Enter the appropriate product code from the Respondent Booklet (Page 2)  (*enter 999 if a seed treatment was applied but the product is not listed*).. . . . . . . . . | 2325 |  |

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[If item 14a is 999, ask--]

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| **Seed Treatment Product Name** |
| XXXX |

b. Write the seed treatment product name in the box provided*……………*

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| |  |  |  | | --- | --- | --- | | 15. **Did the SOYBEAN planted on this field have any of the following traits in 2018 or 2017?** | **2018**  **YES = 1** | **2017**  **YES = 1** | | a. **Herbicide-resistant seed variety with sulfonylurea tolerance…**. . . | 2501 | 2502 | | **b. Nematode-resistant seed variety with cyst nematode resistance** | 2509 | 2510 | | **c. Disease-resistant seed variety with root-rot tolerance** | 2511 | 2512 | | **d. Insect-resistant seed variety with aphid resistance** | 2513 | 2514 | |
| |  |  |  | | --- | --- | --- | | 16. **Did the SOYBEAN planted on this field have any of the following GMO/GE seed traits in 2018 or 2017? --** | **2018**  **YES = 1** | **2017**  **YES = 1** | | a. **Genetically-modified herbicide-resistant seed variety with glyphosate tolerance**. . . | 2501 | 2502 | | **b. Genetically-modified herbicide-resistant seed variety with glufosinate tolerance** | 2509 | 2510 | | **c. Genetically-modified herbicide-resistant seed variety with dicamba tolerance** | 2511 | 2512 | | **d. Genetically-modified herbicide-resistant seed variety with HPPD tolerance** | 2513 | 2514 | |
| |  |  |  | | --- | --- | --- | |  | | **CODE** | | 17. **For the 2018 soybean crop, did you plant a commercial seed product?** . . . . . . . . . . . . . . . | **YES = 1** | 3062 |  |  |  |  | | --- | --- | --- | | [If item 27 is yes, ask--] | **CODE** |  | | a. List the name of the seed product. Enter the appropriate product code from the Respondent Booklet (Page xx)  (*enter 999 if a seed product was purchased but the product is not listed*).. . . . . . | 2325 |  | | [If item 27a is 999, ask--] | **Seed Treatment Product Name** | | | b. Write the seed product name in the box provided*……………* | XXXX | | |

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| |  |  |  |  | | --- | --- | --- | --- | |  | | **CODE** | | | 18. **Were the soybeans from this field sold** (or will they be sold) **through a market specifically for non-genetically modified soybeans?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . | **Yes=1** |  | | | a. [If item 23 = YES, ask--] | | **DOLLARS & CENTS PER BUSHEL** | | | What was the price premium ( or the expected premium if not yet sold) received  for these non-genetically modified soybeans?. . . . . . . . . . . . . . . . . . . . . | |  | **.\_\_\_ \_\_\_** | |  |  |
| 19. **Has harvest of this field been completed?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **Yes=1** | 1328 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | a. harvested for grain or seed?. . . . . . . . . . . . . . . . . . . . . . . . . . . | 1346  **.**\_\_\_\_ | 1347 | .\_\_\_\_ | 1348 | |  |  |  |  | TONS |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | b. harvested for commercial seed contract?. . . . . . . . . . | 1431  **.\_\_\_\_** | 1432 | **.\_\_\_\_** | 1433 | | c. abandoned?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1351  **.\_\_\_\_** |  | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | 20. **Now I need information about the acres harvested** (*or to be harvested*) **and the yields from this field.** | | | | | | **How many acres in this soybean field were** (*or will be*)--- | | 1  **What yield per**  **acre did you** (*or*  *do you expect to*)  **get for soybeans---**  **UNITS PER ACRE** | 2  **UNIT CODE**  1 Pounds  2 CWT  3 Tons  4 Bushels  **CODE** | |  | **ACRES** | |  |

|  | | | | | | | |
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| **CROP CODE LIST for item 21 – PREVIOUSLY PLANTED CROPS** | | | | | | | |
| 190 | Barley | 311 | Grasses, including clover | 22 | Rye | 318 | No crop planted |
| 6 | Corn for grain | 1 | Hay, alfalfa | XX | Sorghum, all | XX | Other field crop |
| 5 | Corn for silage | 11 | Hay, all other | 26 | Soybeans | XX | Other crop |
| XXX | Cotton (all) | 15 | Oats | XX | Wheat, spring | XX | Cover crop mix |
| 302 | CRP | 21 | Rice | 165 | Wheat, winter |  |  |

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| 1 | | | | | 2 | 3 | 4 | 5 | 6 |
| **What crops were PLANTED on this field in---** | | | | | **What type of crop was grown on this field?** | **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 GE Herbicide |  | 1 Plowed-in |  |
|  | | |  |  | Tolerant (HT) |  | 2 Chiseled-in |  |
|  | | |  |  | 2 GE Insect |  | 3 Chemical-killed |  |
|  | | |  |  | Resistant (Bt) |  | 4 Rolled |  |
|  | | |  |  | 3 Stacked |  | 5 Grazed |  |
|  | | |  |  | (HT and Bt) |  | 6 Harvested |  |
|  | | |  |  | 4 Not GE |  | 7 Disked |  |
| **SEASON AND YEAR** | | | **CROP NAME** | **CROP**  **CODE** | **CODE** | **YES = 1** | **CODE** | **YES = 1** | **YES = 1** |
| a. **SPRING/SUMMER of 2018?** . . . . . . . | | | **Soybeans** | **26** | *XXX* |  |  | XXX | XXX |
| a. **FALL of 2017?** . . . . . . . . . . . . . . . . . | | |  | 1343 | XXX | 1470 | 1471 | 2344 | 1345 |
| b. **SPRING/SUMMER of 2017?**. . . . . . . | | |  | 1369 | XXX | 1472 | 1473 | 2370 | 1371 |
| c. **FALL of 2016?** . . . . . . . . . . . . . . . . . | | |  | 1372 | XXX | 1474 | 1475 | 2373 | 1374 |
| d. **SPRING/SUMMER of 2016?** . . . . . . . | | |  | 1375 | XXX | 1476 | 1477 | 2376 | 1377 |
| e. **FALL of 2015?** . . . . . . . . . . . . . . . . . | | |  | 1378 | XXX | 1478 | 1479 | 2379 | 1380 |
| f. **SPRING/SUMMER of 2015?** . . . . . . . | | |  | 1381 | XXX | 1480 | 1481 | 2382 | 1383 |
| g. **FALL of 2014?** . . . . . . . . . . . . . . . . . | | |  | 1366 | XXX | 1482 | 1483 | 2367 | 1368 |
| h. **SPRING/SUMMER of 2014?** . . . . . . . | | |  | 1340 | XXX | 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.* | | | | | | | |
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| i. [*If a cover crop was planted in Spring/Summer/Fall 2017, ask—* | **DOLLARS & CENTS**  **PER ACRE** | |
| What was the seed cost per acre for the cover crop?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1468 | **.\_\_\_ \_\_\_** |
| 1. What was the per-acre total of all cost-share or financial assistance payments received for the cover crop (if any)? |  | |

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

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| |  |  |  | | --- | --- | --- | |  |  |  | | 22. **Is any part of this field been classified 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, prepared in accordance with Federal standards.). . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | **CODE** | | 1404 | |  |  |  | | 23. **Does this field contain a wetland?** (Wetlands are subject to Wetland Conservation (WC) or “swampbuster” requirements. Producers who receive farm program payments must refrain from draining wetland to make them ready for crop production.). . . . . . . . . . . . . . . . | **YES = 1** | 1405 | |  |  |  | |

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| 24. **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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| 25. **What is the primary soil type of this field?** . . . . . . . . . . . . . . . . . . . . . . . . . . | 1  2  3  4 | Loam  Clay  Sandy  Mixed | . . . . . . . . . . . . . . . . . . . . . | **CODE** |
| 2401 |
|  |

**26. Which of the following resource Concerns do you have on this field**

|  |  |  |  |  |
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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.)   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) | | |
| RESOURCE CONCERNS |
|  | Source 1 | Source 2 |
| a. Water-driven erosion. . . . . . . . . . . . . . . . . . . | 2407 | 2417 | 2427 |
| b. Wind-driven erosion. . . . . . . . . . . . . . . . . . . | 2408 | 2418 | 2428 |
| c. Soil compaction. . . . . . . . . . . . . . . . . . . . . . . | 2409 | 2419 | 2429 |
| d. Poor drainage. . . . . . . . . . . . . . . . . . . . . . . . | 2410 | 2420 | 2430 |
| e. Low organic matter. . . . . . . . . . . . . . . . . . . . | 2411 | 2421 | 2431 |
| f. Water quality. . . . . . . . . . . . . . . . . . . . . . . . . | 2412 | 2422 | 2432 |
| g. Other concerns. . . . . . . . . . . . . . . . . . . . . . . | 2413 | 2423 | 2433 |
| h. No significant concerns. . . . . . . . . . . . . . . . . | 2414 |  |  |

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|  |  | **CODE** |
| 27. **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  \_\_\_ \_\_\_ \_\_\_ \_\_\_ |
|  | | **INCHES** |
| b. What is the average width (space between rows) of your drainage system?(Feet) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | XXXX |
| c. What is the diameter of your tiles?. .(inches) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 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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| **28. Have you ever applied for conservation funding, through any Federal, State, or local program, for this field?** . . . . . . . . . . . . . . . . . . . . . . . . . . .  [*If item 28=1, go to Item 29--* *if not, skip to item 33.]*  **29. Has this field been in any conservation program contracts for which you or your landlord received (or expect to receive) cost-sharing payments, stewardship payments, or incentive payments? (1=currently in a contract, 2=previously in a contract, 3=never in a contract)**   |  |  | | --- | --- | | a. Environmental Quality Incentives Program………………….……… 1=current, 2=past, 3=never |  | | b. Conservation Stewardship Program…………………….……………… 1=current, 2=past, 3=never |  | | c. Conservation Reserve Program……………………………..…………… 1=current, 2=past, 3=never |  | | d. Other Federal, State, Local or non-government source……… 1=current, 2=past, 3=never |  |   **30. Has this field been included in an application that was rejected or has not yet been funded?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .yes/no |  |  |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Conservation Practice/Conservation Plan List for question 31** | | | | | | | 328 | Conservation Crop Rotation | 590 | Nutrient Management Plan? | 332 | Contour Buffer Strips | | 329 | No-Till/Strip-Till | ??? | Manure Management Plan? | 386 | Field Border | | 345 | Reduced (Conservation) Till | 595 | Integrated Pest Management Plan | 393 | Filter Strip | | 330 | Contour Farming | 449 | Irrigation Water Management Plan | 412 | Grassed Waterway | | 340 | Cover Crop | 644 | Wetland | 410 | Grade Stabilization Structure | | 585 | Strip cropping |  | Conservation Plan | 603 | Herbaceous Wind Barriers | |  |  |  |  | 600 | Terraces | |  |  |  |  | 390 | Riparian Buffer | |  |  |  |  | 380 | Field Windbreak/Shelterbelt or Hedgerow |   31. **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 or plans have been used on this field at least once in the past 5 years?** | |  | **Was this practice or plan used in 2018?** | **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 Federal, State, and Local Programs  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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|  | | **CODE** | | |
| 32. **Was the soybean in this field covered by private crop insurance in 2018? (hail, wind, freeze, etc.)** . . . . . . . . . . . . . . | **YES = 1** | 2520 | | |
| [*If YES, ask--*] |  | **DOLLARS & CENTS PER ACRE** | | |
| a. What was the dollar amount of coverage per acre for the private insurance policy covering this field?. | | 2521 | | . \_\_\_ \_\_\_ |
|  |  | **PERCENT** | | |
| b. What was the percent deductible for the private insurance policy covering this field?  (*Record no deductible as 0%.*). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | 2522 | | |
|  |  | **DOLLARS & CENTS PER ACRE** | | |
| c. What premium cost per acre did you pay for the private insurance policy covering this field?. . . . . . | | 2523 | . \_\_\_ \_\_\_ | |

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| --- | --- | --- |
| d. Did you (*or will you*) collect an indemnity payment for this field  from private crop insurance during 2018?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1394 |

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| --- | --- |
| 33. **Was the soybean in this field covered by Federal Crop Insurance in 2018**? | **CODE** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **YES** – [*Enter code 1 and continue.*] | | **NO** – [*Go to Section C.*]. . . . . . . . . . . . . . . . . . . . . . . | | 1385 |
|  | | | | |
| a. Which coverage did you obtain?. . . . | 1 *Federal CAT* (Basic catastrophic insurance)  2 Yield based (Individual)  3 Yield plus SCO (Supplemental Coverage Option)  4 Revenue based (Individual)  5 Revenue plus SCO (Supplemental Coverage Option)  6 Other Federal Crop insurance | |  | **CODE** |
| . . . . | 1386 |

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| [*If item 40a = 2 or 3, ask--*] | **PERCENT** |
| 1. What yield level did you select for your buy-up coverage for this field?. . .. . . . . . . . . . . . . . . . | 1387 |
| 1. What price level did you select for your buy-up coverage for this field? . . . . . . . . . . . . . . . . . . | 1388 |
| [*If item 40a = 4 or 5, ask--*] | **PERCENT** |
| What was the level of revenue coverage you obtained for this field?. . . . . . . . . . . . . . . . . . . . . . . | 1389 |

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| b. What type of unit coverage did you purchase for this field? (Basic = 1, Optional = 2, Enterprise = 3). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | CODE |

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| --- | --- |
| 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 2018 Approved APH (*actual production history*) yield for this field?. . . . . . . . . . . . . . . . . . | BUSHELS PER ACRE |

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| --- | --- |
| e. What was the premium paid for Federal crop insurance for this field in 2018? (***Exclude*** *any sign-up fee.*). . . . . . . | DOLLARS & CENTS PER ACRE |
| f. Did you (*or will you*)collect an indemnity payment for this field  from federal crop insurance during 2018?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 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 2018 soybeans crop?** (*Include those from operators, landlords, and contractors*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0202 | 0200 |
| [*If COMMERCIAL nutrient or fertilizer applied, continue; else go to Section D.*] | | | **NUMBER** |
| 2. **How many commercial nutrient or fertilizer applications were made to this field  for the 2018 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  or fertilizers | | Micronutrients | |  |  |  |
| Nutrients or fertilizers  applied in the fall of 2017  and those applied earlier  if this field was fallow in 2017 | | 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** | | |
|
|
|
|
| **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 2017*. ***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 2018 soybeans crop?** . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0218 |

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|  | | | | **CODE** | |
| 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 | |

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| 8. **Was a soil or plant tissue test performed on this soybeans field in 2017 or 2018 for the 2018 crop?** | | |  |
| **YES** [*Continue*.] | **NO** [*Go to item 13*.] | |  |
|  | | | **CODE** |
| 9. **Was a soil test for phosphorus performed on this soybeans field in 2017 or 2018 for the 2018 crop?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | 0225 |
| [*If item 9 = 1, ask*---] | | | **POUNDS**  **PER ACRE** |
| a. How many pounds of phosphorus (*per acre*) were recommended (*by the phosphorus test*)?. . . . . | | | 0226 |

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| --- | --- | --- |
|  | | **CODE** |
| 10. **Was a soil test for nitrogen performed on this soybeans field in 2017 or 2018 for the 2018 crop?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0227 |
| [*If item10 = 1, ask---*] | | **POUNDS**  **PER ACRE** |
| a. How many pounds of nitrogen (*per acre*) were recommended (*by the nitrogen test*)?. .. . . . . . . . . . | | 0228 |

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| --- | --- | --- |
|  |  | **CODE** |
| 11. **Was a plant tissue test or leaf analysis for nutrient deficiency performed on this field in 2017 or 2018 for the 2018 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 2017 or 2018 for the 2018 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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| h. [*If nitrogen inhibitors were used, continue; else go to item 14.*]  How much nitrogen inhibitor did you mix  with the nitrogen applied to this field? . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **POUNDS**  **PER ACRE** | **OR** | **GALLONS**  **PER ACRE** |
| 2561  .\_\_\_ |  | 2562  .\_\_\_ |

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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 2017 or 2018 for the 2018 crop?. . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0240 |

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| 15. **Was non-commercial manure** (*from own farm, from a neighbor’s farm, etc.*) **or other organic material** (*including compos*t) **applied to this field for the 2018 soybeans 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 or compost applied to?. . . . . . . . . . . . . . . . . . . . . . . . . . . | 0247 | **.\_\_\_** |

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|  | 1 Tons  2 Gallons  3 Bushels  4 Cubic Yards |  | **CODE** |  | **UNITS PER ACRE** | | **OR** | **TOTAL UNITS** | |
| b. What was the amount of manure or compost applied to this field?... |  | 0248 | **AND** | 0249 | **.\_\_\_ \_\_\_** |  | 0250 | **.\_\_\_** |
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| c. Of the total manure or compost applied to this field for the 2018  crop, what was the percent of manure or compost 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** |
| d. Was the manure or compost---…. | . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | 0257 |
|  | | | | | |
|  | 1 Broadcast or sprayed *without* incorporation?  2 Broadcast or sprayed *with* incorporation?  3 Injected/knifed in?  4 Sprayed using irrigation systems? | |  | | **CODE** |
| e. Was the manure or compost---. . . . | . . . . . . . . . . . . . . . . | | 0258 |

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|  | 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** |
| f. Was the major source  of the manure or compost from---. . . . | . . . . . . . . . . . . . . . . . . . . | | 0259 |
|  |  | |  |
|  | | | | |
| g. Was the manure or 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 manure*.) | | . . . . . . . . . . . . . . . |  |
| **CODE** |
| 0260 |
| [*If item 15g = 2, ask*---] | | | | | |

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|  | **DOLLARS & CENTS**  **PER ACRE** | | **OR** | **TOTAL DOLLARS** |
| (i) What was the total cost of the purchased manure or compost 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 or compost? . . . . . . . . . . . . . . . . . | **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 or compost 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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|  | **MILES** | |
| (iii) What is the distance in miles between the manure or compost storage/production location and this field?. . | 0291 | **.\_\_\_** |

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|  |  | **CODE** |
| h. Of the manure or compost applied to this field, was any tested for nutrient content  prior to application?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 0261 |

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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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| **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 2018**  **soybeans 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 soybean field for the 2018 crop?** | **YES = 1** | 0302 | 0300 |
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| **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 | |  | |
|  | | | | | | | | | |  | | | | | | | | |
| **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 2017 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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| **NOTES** |

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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 2018 soybean crop. By pests, we mean WEEDS, INSECTS, and DISEASES.** | | |  | | |  |  |
|  | | |  | |
| [**ENUMERATOR ACTION:** *Were PESTICIDE applications reported in Section D?*] | | | | | | | |
| **YES** – [*Continue*] | **NO** – [*Go to item 6*] | | | | **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 soybean field BEFORE weeds emerged?**. . . . . . . . . . . . . . . . . | | **YES = 1** | 0803 |

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

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| 6. **Were records kept for this field to track the activity or numbers of weeds, insects or diseases?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | **CODE** |
| 0823 |

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| 7. **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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| 8. **In 2018, 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 9.*]  2 By conducting general observations while performing routine tasks [*Enter code 2 and go to item 11*.]  3 This field was not scouted.  [*Enter code 3 and go to item 14.*] |  | **CODE** |
| . . . . . | 0808 |
|  |  |

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| 9. **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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| 10. **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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| 1 | | 2 | | 3 | | | | | | | | |
| 11. **Was this soybean 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 | | | | | | | | |
| c. Diseases?. . . . . . . . . . . . . . . . . . . . . . . . . | 0818 | 0819 | | 0820 | | | | | | | | |
|  | | | | | | | | | | | | |
| [*If* *scouted by crop consultant or commercial scout, ask item 12; else go to item 13.*] | | | | | | | | | |  |  | |
| *12.* **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 | |
|  | | | | | | | | | | |  | |
| 13. **Did you use field mapping of previous weed problems to assist you in making weed management decisions?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | **YES = 1** | | | | 0825 | |

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|  | | | |  | |
| 14. **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. Maintain buffer strips or border rows to isolate soybeans from non-organic crops or land, or did you take a buffer harvest?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | | 0856 | |
| p. Use a flamer to kill weeds?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | | 0857 | |
| q. Plant earlier or later to avoid weeds? . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | | 0865 | |
| 15. **Were any beneficial organisms** (insects, nematodes, fungi) **applied**  **or released in this field to manage pests?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **YES = 1** | | 0853 | |
| 16. **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 15 or item 16 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 | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | **CODE** | |
| 17. **Was a trap crop** (*excluding fallow*) **grown to help manage insects in this field?** . . . . . . . . | **YES = 1** | 0863 | |
|  |  | | **CODE** |
| 18. **Was this field left in fallow in 2017 to help manage insects on this field?** . . . . . . . . . . . . | **YES = 1** | 0864 | |

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| 19. **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 |
|  |  |  |
| 20. **Was protection of beneficial organisms a factor in your pest control decisions for this field?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1765 |
| [*If Item 20 is YES, continue. Else go to Item 21.*] |  |  |
| 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 |

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|  | |  |  | |  |  |  |  | | |  |  | |
| 21. **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?** | |  |  | |  | **CODE** |  | **UNITS PER**  **ACRE** | | |  | **TOTAL UNITS** | |
|  | |
|  | 1  2 | BUSHELS  TONS | . . . . |  | **AND** |  | | | **OR** |  | |
|  |  | |  |  |  |  | | |  |  | |
|  | |
|  | | | | | | | | |  | | | **CODE** | |
|  | | | | | | | | | | | | | |
| 22. **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 | . . . . . | 0828 | **AND** | 0829 | **OR** | 0830 |

|  |  |
| --- | --- |
| 23. **If you used genetically engineered, glyphosate resistant seeds on this field in 2018, indicate the number of consecutive years you have planted genetically engineered, glyphosate-resistant seeds.** |  |
| **NUMBER OF YEARS** |
| 1970 |

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

|  |  |
| --- | --- |
| 24. If you used genetically engineered, dicamba resistant seeds on this field in 2018, indicate the number of consecutive years you have planted genetically engineered, dicamba resistant seeds….. | **NUMBER OF YEARS** |
| XXXX |
| a. What year did you first plant any dicamba resistant seeds on this field?. . . . . . . . . . . . . . | **YEAR** | |
| XXXX  \_\_\_ \_\_\_ \_\_\_ \_\_\_ | |

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| --- | --- | --- |
| 25. Did you observe “cupping” or other symptoms associated with dicamba drift/volatility on this field in 2018? | **YES = 1** |  |
| XXXX |
| [if item 26 = yes, continue. Else proceed to item 27] | | |
| 1. Do you believe that the damage you observed on your field in 2018 was due to drift (not volatility)? | **YES = 1** |  |
| XXXX |

|  |  |  |
| --- | --- | --- |
| 1. As far as you are aware, did farmers in neighboring fields observe “cupping” or other symptoms associated with dicamba drift/volatility in 2018? | **YES = 1** |  |
| XXXX |
| 1. As far as you are aware, did farmers in your county observe "cupping" or other symptoms associated with dicamba drift/volatility in 2018? | **YES = 1** |  |
| XXXX |
| 1. As far as you are aware, did farmers in neighbouring fields plant dicamba tolerant soybeans in 2018? | **YES = 1** |  |
| XXXX |
| 1. As far as you are aware, did farmers in your county plant dicamba tolerant soybeans in 2018? | **YES = 1** |  |
| XXXX |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 30. **Have any of the following herbicides been used since 2014?** | | | | | | | |
|  | |  |  |  |  |  |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | 2018  Yes=1 | 2017  Yes=1 | 2016  Yes=1 | 2015  Yes=1 | 2014  Yes=1 | | Glyphosate |  |  |  |  |  | | Glufosinate |  |  |  |  |  | | Dicamba |  |  |  |  |  | | 2, 4-D |  |  |  |  |  | | Sulfonylurea (STS) (soybean) |  |  |  |  |  | | | | | | | | |

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| --- | --- | --- |
|  | | **CODE** |
| 31. **Have herbicide tolerant seeds been planted on this field any time since 2014:** . . . . . . . . . . . . . . | **YES = 1** |  |
| [*If item 26= YES, continue. If item 26 = NO, go to item 30*.] | |  |

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| --- | --- | --- | --- | --- | --- |
|  | Have you noticed a decline in the effectiveness of herbicides in controlling weeds in this particular 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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| --- | --- | --- | --- | --- | --- |
| 32. **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 cultivation | 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 27 column 2 contains at least one “1”, ask: otherwise go to item 29.*] |

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| 33. **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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|  | **Completion Code for**  **Pest Management Data** | |
|  | 1 Incomplete/Refusal | 0500 |

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

|  |  |  |  |
| --- | --- | --- | --- |
| 1. **Including custom operations, I need to list field work performed**  **by machines on this field for the 2018 soybean 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* 2017*, list operations starting*  *with fall 2016*]; | | | **Include** all field work using machines for---  Land Forming/Levee Building  Tillage  Preparing for Irrigation  Planting  Fertilizer & Pesticide applications  Harvesting & Hauling (grain & straw)  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 2018 soybean crop.  (***Exclude*** *labor that was reported for field work performed by machines.*) |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **How many total 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 |  |
|  |  | |  | | | | | |

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

|  |  |  |  |
| --- | --- | --- | --- |
|  | | **DOLLARS & CENTS**  **PER HOUR** | |
| 4. **What was the average hourly wage rate paid to full-time hired workers on this field?**  (***Exclude*** *custom and contract workers, payroll taxes and benefits.*). . . . . . . . . . . . . . . . . . . . . . . . . . . | 1118 | | **.\_\_\_ \_\_\_** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | **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 | **.\_\_\_ \_\_\_** |

|  |  |
| --- | --- |
|  | **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 |

|  |  |  |
| --- | --- | --- |
| 7. **Now I need some information on how much was spent** (or will be spent) **for custom services used on this**  **field for the 2018 soybean crop.** | | |
|  | | |
| 🗸 | 1  **CUSTOM SERVICE**  Which of the following services were performed  for the 2018 soybean 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 2018  soybean crop?  **DOLLARS & CENTS**  **PER ACRE** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | a. Custom land preparation and/or shaping?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1121 | **.\_\_\_ \_\_\_** |
|  | b. Custom cultivating?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1122 | **.\_\_\_ \_\_\_** |
|  | c. Custom planting and/or reseeding?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1123 | **.\_\_\_ \_\_\_** |
|  | d. Custom harvesting?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 1124 | **.\_\_\_ \_\_\_** |
|  | e. Custom hauling to storage or point of first sale?  \_\_ \_\_**.\_\_** **\_\_** **X** \_\_\_\_\_\_\_\_\_\_\_\_\_ **÷ \_\_\_\_\_\_\_\_\_\_\_\_**  **= \_\_ \_\_.\_\_ \_\_**  (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre) | 1126 | **.\_\_\_ \_\_\_** |
|  | 1. Custom harvesting and hauling from field to storage or point of first sale?   \_\_ \_\_**.\_\_** **\_\_** **X** \_\_\_\_\_\_\_\_\_\_\_\_\_ **÷ \_\_\_\_\_\_\_\_\_\_\_\_**  **= \_\_ \_\_.\_\_ \_\_**  (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre) | 1127 | **.\_\_\_ \_\_\_** |
|  | 1. Custom raking, baling, and hauling the straw from this field   \_\_ \_\_**.\_\_** **\_\_** **X** \_\_\_\_\_\_\_\_\_\_\_\_\_ **÷ \_\_\_\_\_\_\_\_\_\_\_\_**  **= \_\_ \_\_.\_\_ \_\_**  (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre) | 1128 | **.\_\_\_ \_\_\_** |

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|  |  | **CODE** |
| 8. **Were the soybeans harvested and hauled from this field dried** (or will be dried) **before being sold or stored?** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **YES = 1** | 1195 |

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| 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 11*] | | | |
| 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 soybean 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 | | . . . . | | | |  | |
|  | | | | |  | | |  | |
|  | | | | |  | | | **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? | Premium paid for the applicator |
|  |  |  | **Year** | **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 2018 soybean crop?**  [*If none, go to* ***Conclusion***]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | **ACRES** | |
| 1160 | **.\_\_\_** |
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| 2. **Now, I have some questions about irrigation systems and water used on this field**  **for the 2018 soybean crop.** | | |  | |
| **↓** | | **UNIT** | **SYSTEM 1** | |
| 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 | |
| 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 | |
|  | |  | 1163 | |
| [*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 soybean growing season?. . . . . . | | **TOTAL**  **HOURS** | 1164 | |
| (ii) How many gallons per minute were applied?. . . . . . . . . . . . . . . . | | **GALLONS**  **PER MINUTE** | 1165 | |
| c. What percent of the water used to irrigate this field through this  system came from surface water sources?. . . . . . . . . . . . . . . . . . . . . | | **PERCENT** | 1166 | |
| d. What was the number of times this field was irrigated during the  soybean growing season using this system? (***Include*** *any pre-plant irrigation*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **NUMBER OF**  **IRRIGATIONS** | 1167 | |
| 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 | |
| f. What was the average pumping rate?. . . . . . . . . . . . . . . . . . . . . . . . . | | **GALLONS**  **PER MINUTE** | 1169 | |
| g. [*If item 2a = code 1-9* (PRESSURE SYSTEM)*, ask---*]  What was the system operating pressure?. . . . . . . . . . . . . . . . . . . . . | | **POUNDS**  **PER**  **SQUARE INCH** | 1170 | |
| 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 | |
| i. What was the average motor size?. . . . . . . . . . . . . . . . . . . . . . . . . . . | | **HORSEPOWER** | 1172 | |
| j. [*If NO PUMP was used* (item 2e = 99)*, ask*---]  What was the average flow rate?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **GALLONS**  **PER MINUTE** | 1173 | |
| k. How many other acres on this operation were irrigated using this field’s irrigation system during the 2018 growing season? (***Exclude*** *this field*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | **ACRES** | 1174 | **.\_\_\_\_** |

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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 2018 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**  **2018 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 2018 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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| **NOTES** |

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|  | **CONCLUSION** |  |

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| **LOCATION OF SELECTED FIELD** | | | | | | | | | | |
| 1. **I need to locate the selected field of soybean on this map.** | | | | **COUNTY NAME** | | | | | **OFFICE USE**  **COUNTY FIPS CODE** | |
| 2. **What county is the selected soybean field in?**. . . . . . . . . | | | |  | | | | |  | 0010 |
|  | | | |  | | | | |  |  |
| **Field description**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | |  | | | | | | |
|  |  | **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 soybean 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** **2018 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 |
| **SUPPLEMENTS USED** | | | | | **NUMBER** |
| 8. [*Record the total number of each type of questionnaire supplement*  *used to complete this interview.*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | **FERTILIZER**  **APPLICATIONS** | | 0041 |
|  | | | **PESTICIDE**  **APPLICATIONS** | | 0042 |
|  | | | **FIELD**  **OPERATIONS** | | 0043 |
|  | | | | | |
| Reported by:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 9910  \_\_\_ \_\_\_ \_\_\_ \_\_\_ **18**  **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-PATI (Tel)  3-PAPI (Face-to- Face) | | | 9903 | 9998 | | 9989  **\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_** | | | |
| **Eval.** | | **Change** | |
| 9900 | | 9985 | |