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| Project 906 - ARMS Phase II QID 082-003 | OMB No. 0535-0218 Approval Expires 12/31/2011 |
| SURVEY_LOGO_1:USDA_logo_bw.gif | **AGRICULTURAL RESOURCE MANAGEMENT SURVEY** | SURVEY_LOGO_2:ERS Logo.bmp |  **NATIONAL** **AGRICULTURAL** **STATISTICS** **SERVICE** |
| **DURUM WHEAT****PRODUCTION PRACTICES AND COSTS REPORT** |
|  | **for 2009** | U.S. Department of Agriculture,Rm 5030, South Building1400 Independence Ave., S.W.Washington, DC 20250-2000Phone: 1-800-727-9540 Fax: 202-690-2090 Email: nass@nass.usda.gov |

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| **VERSION****32** | **ID****\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_** | **TRACT****01** | **SUBTRACT****\_\_\_ \_\_\_** | **T-TYPE****0** | **TABLE****000** | **LINE****00** | **SURVEY_LOGO_4:ERS Logo.bmp** |

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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*.]We are collecting information on practices and costs to produce durum wheat and need your help to make the information as accurate as possible. Authority for collection of information on the Durum Wheat Production Practices and Costs Report is Title 7, Section 2204 of the U.S. Code. This information will be used for economic analysis and to compile and publish estimates for your region and the United States. Response to this survey is confidential and voluntary.We encourage you to refer to your farm records during the interview. |
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|  | **H H M M** |
|  | **BEGINNING TIME**[*MILITARY*] | 0004 |
| **\_\_ \_\_ \_\_ \_\_** |
|  |  |
|  | **SCREENING BOX** |
|  | 0006 |

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| [ ]  [*Name, address and partners verified and updated if necessary*] |
| **POID** \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ | **POID** \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ |
| PARTNER NAME | PARTNER NAME |
| ADDRESS | ADDRESS |
| CITY | STATE | ZIP | PHONE NUMBER | CITY | STATE | ZIP | PHONE NUMBER |
| **POID** \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ | **POID** \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ |
| PARTNER NAME | PARTNER NAME |
| ADDRESS | ADDRESS |
| CITY | STATE | ZIP | PHONE NUMBER | CITY | STATE | ZIP | PHONE NUMBER |

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| **A** | **DURUM WHEAT FIELD SELECTION** | **A** |

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| 1. **How many acres of wheat** (*winter, durum and other spring*) **did this operation plant** **for the 2009 crop year?** [*For winter wheat*, *record acres planted in fall/winter 2008 for 2009 crop yea*r.]. . . . . . . .  | **TOTAL PLANTED ACRES** |
|  | 0050**.\_\_\_\_** |
| [*If no acres planted, review Screening Survey Information Form, make notes, then go to**item 4 on back page*.] |
| **Of the total** (*item* *1*)**, how many acres were planted for---** | **TOTAL ACRES** |
| a. winter wheat?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 0051**.\_\_\_\_** |
| b. durum wheat?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 0052**.\_\_\_\_** |
| c. other spring wheat?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 0053**.\_\_\_\_** |
| 2. **I will follow a simple procedure to make a random selection from the durum wheat** **fields planted for the 2009 crop.** | **TOTAL NUMBER OF FIELDS PLANTED** |

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| **What is the TOTAL number of durum wheat 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 durum wheat questions will be about this selected durum** **wheat field.** [*Be sure the operator can identify the selected field.*] |

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

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

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| 1. **How many acres of durum wheat did this operation** **plant in this field for the** **2009 crop?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **ACRES** |
| 1301 | .\_\_\_\_ |

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|  | **CODE** |
| a. Are the acres in this field **CERTIFIED ORGANIC**?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1300 |
|  [*If YES, skip 1b and ask item 2*.] |  | **CODE** |
| b. Was this field transitioning into organic durum wheat production in 2009?. . . . . . . . . . . . . . .  | **YES = 1** | 1399 |

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| 2. **Were the acres in this field---** | 1 owned by this operation?2 rented for CASH with the payment being a fixed cash amount?3 rented for CASH with the payment being a flexible cash amount?4 rented for a SHARE of the crop?5 rented for some combination of CASH and SHARE of the crop?6 used RENT FREE? | . . . .  | **CODE** |
|  |  |  | 1302 |
|  |  |  |  |
| 3. [*If field is CASH RENTED* (item 2 = 2, 3, or 5)*, ask item 3*; *else go to item 4.*] **What was the cash rent paid per acre for this 2009 durum wheat field?**. . . . . . . . . . . . . . . . . . . . . . . .  | **DOLLARS & CENTS****PER ACRE** |
|  | 1303**.\_\_ \_\_** |

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| 4. [*If field is SHARE RENTED* (item 2 = 4 or 5)*, ask*--- ] **What was the landlord’s share of the crop from this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **PERCENT** |
|  | 1304 |
| 5. [*If field is RENTED* (item 2 = 2, 3, 4, or 5)*, ask*---] **What was the total cost for all inputs provided by any landlord or contractor for the 2009 crop on the selected field?** (***Include*** *the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, 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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|  | **YEAR** |
| 6. **What year did you** (*the operator listed on the label*) **start operating this field?**. . . . . . . . . . . . . . . . . . . .  | 1307**\_\_\_ \_\_\_ \_\_\_ \_\_\_** |

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|  | **MM DD YY** |
| 7. **On what date was this field planted?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1308**\_\_ \_\_ \_\_ \_\_ \_\_ \_\_** |
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| a. When planted, was this wheat field planted with the intention of --- (***Include*** *wheat planted for commercial* *seed contract under other uses*.). . . . . . . . . . . . . . . . . . .  | 1 Dual purpose (*grain and grazing*)?2 Harvesting for grain only?3 Grazing only?4 Cover crop?5 Other uses [*Specify:* \_\_\_\_\_\_\_\_\_\_\_ ] |  | **CODE** |
|  |  | . . . . . . . . . . .  | 1309 |

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|  | **UNIT CODE** |
|  | **UNITS PER ACRE** |  1 = POUNDS 2 = CWT 3 = TONS 4 = BUSHELS23 = 50 LB BAGS |
| 8. **What was the seeding rate per acre the first time this field was planted?**. . . . . .  | 1310 | **.\_\_\_\_** | 1311 |

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|  | **ACRES** |
| 9. **How many acres in this field had to be replanted to durum wheat?** (*Acres replanted = Number of acres x Number of times replanted*) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1318**.\_\_\_\_** |
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|  | **CODE** |
| 10. **Was the source of the durum wheat seed---** | 1 Purchased?2 Homegrown or traded?3 Both? | . . . . . . . . . .  |
| 1319 |

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| a. [*If item 10 = 2 or 3, ask---*] | **PERCENT** |
|  How much of the durum wheat seed planted in this field was grown (*or received in trade*) by this operation?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1320 |
|  | **DOLLARS & CENTS** **PER BUSHEL** |
| (i) What was the cost per bushel for cleaning and treating this seed?. . . . . . . . . . . . . . . . . . . . . . . . .  | 1321**.\_\_\_ \_\_\_** |
|  |  |
|  |  | **UNIT CODE** |
| 11. [*If any seed purchased* (item 10 = 1 or 3), *ask---*] | **DOLLARS & CENTS** **PER UNIT** |  1 = POUND 2 = CWT 3 = TON 4 = BUSHEL 22 = ACRE 23 = 50 LB BAG |
|  **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*.) . . . . . . . . . . . . . . . . . . .  | 1429 | **.\_\_\_ \_\_\_** | 1430 |

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| 12. **Did you plant a NON Genetically-Modified (GM) herbicide resistant wheat**(*such as Clearfield*) **seed variety on this field---** | **CODE** |
| a. for 2009?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1403 |
| b. for 2008?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1402 |
|  |
|  | 1 Increase yields through improved pest (weed) control?2 Decrease herbicide costs?3 Decrease machinery costs?4 Improve ability to use or ease of using reduced tillage or no-till system?5 Improve ability to use or ease of rotating crops?6 Save management time or labor or improve ease of management?7 Adopt more environmentally friendly practices?8 For some other reason? [*Specify:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ] |  |  |
| c. [*If item 12a or 12b is YES,* *ask*---] |  |  |  |
|  Did you choose the NON GM herbicide resistant wheat primarily to--- |  |  | **CODE** |
|  |  | . . . . . .  | 1317 |
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|  | **CODES** |
| 13. **If a genetically-modified herbicide resistant** (*such as Roundup – Ready*)**wheat****seed becomes available, how likely would you be to plant it on this field under** **the following conditions?** *Assume that the total cost of the seed (*including technology fee*)* *changes based on the following information*--- | 1 Very likely2 Somewhat likely3 Uncertain4 Somewhat unlikely5 Very unlikely |
| a. 10 percent seed cost increase. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1322 |
| b. 20 percent seed cost increase. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1323 |
| c. 30 percent seed cost increase. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1324 |
| d. seed cost does not increase. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1325 |

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|  | **CODE** |
| 14. **Has harvest of this field been completed?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1343 |
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| 15. **Now I need information about the acres harvested** (*or to be harvested*) **and the yields from this field.** |
|  **How many acres in the durum** **wheat field were** (*or will be*)--- | **ACRES** | 1**What****yield per acre****did you** (*or do you expect to*)**get for wheat---****UNITS PER ACRE** | 2**UNIT CODE**1 POUNDS2 CWT3 TONS4 BUSHELS**CODE** | 3**What was the protein content per bushel of wheat---****PERCENT** |
| a. harvested for grain?. . . . . . . . . . . . . . . . . . . . . .  | 1346**.**\_\_\_\_ | 1347 | **.\_\_\_\_** | 1348 | 1345 \_\_\_\_\_\_ **.**\_\_\_ |
| b. harvested for hay, silage or green chop?. . . .  | 1349**.\_\_\_\_** | 1350 | **.\_\_\_\_** | TONS |  |
| c. harvested for commercial seed contract?. . .  | 1431**.\_\_\_\_** | 1432 | **.\_\_\_\_** | 1433 |  |
| d. abandoned?. . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1351**.\_\_\_\_** |  |  |  |
| e. used for some other purpose?. . . . . . . . . . . . .  | 1439**.\_\_\_\_** |  |  |  |

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| 16. **Was straw harvested from this field?** [ ]  **YES** - [*Enter code 1 and continue*] [ ]  **NO** - [*Go to item 18*]. . . . . . . . . . . . . . . . . . . . . . . . . .  | **CODE** |
| 1354 |
|  | **ACRES** |
| 17. **How many acres of wheat straw were harvested from this durum wheat field?**. . . . . . . . . . . . . . . . .  | 1355**.\_\_\_\_** |
|  | **TOTAL TONS** |
| a. How many **tons** of wheat **straw** were harvested from these durum wheat (*item 17*) acres?. . . . . . .  | 1356 |
|  | \_\_\_\_\_\_\_**.\_\_**Tons per Acre | X | \_\_\_\_\_\_\_ Acres | = | \_\_\_\_\_\_\_\_\_ Total Tons | **OR** | \_\_\_\_\_\_\_ Bales | X | \_\_\_\_\_\_\_\_\_\_Lbs per Bale | ÷ | 2000Lbs per Ton | = | \_\_\_\_\_\_\_\_Total Tons |  |
|  | **PERCENT** | **OR** | **TONS** |
| b. Of the total wheat straw harvested from this durum wheat field (*item* *17a*), what was the landlord’s share of the wheat straw?. . . . . . . . . . . .  | 1357**.\_\_ \_\_** |  | 1358 |
|  | **TOTAL DOLLARS** |
| c. What was the total cost of baler twine/wire used to bale the wheat straw from this durum wheat field? (***Include*** *landlord’s share*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1359 |
|  |
| d. Was any wheat straw sold? | **DOLLARS & CENTS****PER TON** |
|  If yes, what was the price received per ton for all wheat straw (*item* *17**a*) sold from this durum wheat field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1360**.\_\_\_ \_\_\_** |

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| 18. Did any livestock graze this wheat field during the 2009 crop year? [ ]  **YES** - [*Enter code 1 and continue*] [ ]  **NO** - [*Go to item 20*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **CODE** |
| 1400 |
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| 19. **What type of livestock grazed this wheat field during the 2009 crop year?** (***Include*** *livestock* *grazing before wheat harvest and livestock “grazing-out”* *the field instead of harvesting wheat*.). . . . . . . . . . . . . . . . . . . . . .  | 1 Cattle2 Sheep3 Other [*Specify:* \_\_\_\_\_\_\_\_\_\_\_\_\_] | . . . . . . . . .  | **CODE** |
| 1361 |

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|  | **HEAD** |
| a. About how many **head** of livestock (*item 19*) grazed this wheat field?. . . . . . . . . . . . . . . . . . . . . . . . . .  | 1362 |
|  | **DAYS** |
| b. How many **days** did this livestock graze on this wheat field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1363 |
|  | **CODE** |
| c. Was this wheat field “grazed-out” instead of harvested for grain?. . . . . . . . . . . . . . . . . . . . . . . **YES = 1** | 1344 |
| d. Was payment received from others for livestock grazing on this field? [ ]  **YES** - [*Enter code 1 and continue*] [ ]  **NO** - [*Go to item 20*]. . . . . . . . . . . . . . . . . . . . . . . . . .  |  |
|  | 1364 |
|  | **TOTAL DOLLARS** |
| (i) What is the total dollar amount received? (***Include*** *landlord’s share*.). . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1365 |

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

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| 20. **Next, I need to know what crops were previously PLANTED on the majority of this field, including cover crops.** |
| **1** | **2** | **3** | **4** |
| **What crops were PLANTED on this field in---** | **Was this****field****irrigated?** | **Was this****field****no-tilled?****1/** | **Was this****home-grown****seed?** |
| **SEASON AND YEAR** | **CROP NAMES** | **CROP****CODE****1** | **CROP****CODE****2** | **YES = 1** | **YES = 1** | **YES = 1** |
| **FALL of 2008?**. . . . . . . . . . . . . . . . . . . .  |  |  |  |  |  |  |
| **SPRING/SUMMER of 2008?**. . . . . . . .  |  | 1369 | 1326 | 1370 | 1371 | 1333 |
| **FALL of 2007?**. . . . . . . . . . . . . . . . . . . .  |  | 1372 | 1327 | 1373 | 1374 | 1334 |
| **SPRING/SUMMER of 2007?**. . . . . . . .  |  | 1375 | 1328 | 1376 | 1377 | 1335 |
| **FALL of 2006?**. . . . . . . . . . . . . . . . . . . .  |  | 1378 | 1329 | 1379 | 1380 | 1336 |
| **SPRING/SUMMER of 2006?**. . . . . . . .  |  | 1381 | 1330 | 1382 | 1383 | 1337 |
| **FALL of 2005?**. . . . . . . . . . . . . . . . . . . .  |  | 1366 | 1331 | 1367 | 1368 | 1338 |
|  **SPRING/SUMMER of** **2005?**. . . . . . . .  |  | 1340 | 1332 | 1341 | 1342 | 1339 |
|  1/ *Soil and previous crop residue left undisturbed from harvest to planting.* |

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|  | **CODE** |
| a. Did you use a cover crop in conjunction with the 2009 wheat crop on this field?. . . . . . . . . . . **YES = 1** | 1401 |
|  [*If item 20a is YES, continue; else go to item 21*] |  |

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|  | **YEAR** |
| (i) What year was the cover crop planted?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1466**\_\_\_ \_\_\_ \_\_\_ \_\_\_** |
|  |
| (ii) In what season was the cover crop planted?. . . . . . . . . .  | 1 Spring/Summer2 Fall | . . . . . . . . . . . . . . . .  | **CODE** |
|  |  |  | 1467 |
| (iii) Was the seed for the cover crop purchased? If yes, what was the seed cost per acre for the cover crop?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **DOLLARS & CENTS****PER ACRE** |
|  | 1468**.\_\_\_ \_\_\_** |

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| 21. **In 2009, did your land-use practices for this field include any of the following---** |
| **1** | **2****Was this****practice****used?****YES = 1** | **3****What year was this practice****first used?****YEAR** | **4****Was** (*or will there be*)**an incentive or cost-share received from:**1. Environmental Quality

Incentives Program (EQIP)?1. Conservation Security Program (CSP)?
2. Conservation Reserve Program (CRP)?
3. Any other Federal, State, Local or non-government source?

**CODE** |
| **LAND-USE PRACTICE** |
| a. **Structures for** **soil erosion control?**. . . . . . . . . . . . . . . . . . . . . . .  | 1421 |  |  |
|  (i) Terraces. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1420 | 1441\_\_ \_\_ \_\_ \_\_ | 1451 |
|  (ii) Grade stabilization structures. . . . . . . . . . . . . . . . . . . . . . .  | 1422 | 1442\_\_ \_\_ \_\_ \_\_ | 1452 |
| b. **Structures for storm water runoff control/handling****?**. . . . . . . .  | 1423 |  |  |
|  (i) Grassed waterways. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1438 | 1443\_\_ \_\_ \_\_ \_\_ | 1453 |
|  (ii) Structures for water control basins. . . . . . . . . . . . . . . . . . .  | 1424 | 1444\_\_ \_\_ \_\_ \_\_ | 1454 |
| c. **Filter strip****s or other conservation buffers?**. . . . . . . . . . . . . . . .  | 1425 |  |  |
|  (i) Filter strips. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1426 | 1445\_\_ \_\_ \_\_ \_\_ | 1455 |
|  (ii) Field borders. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1427 | 1446\_\_ \_\_ \_\_ \_\_ | 1456 |
|  (iii) Riparian buffers (*i.e., grass buffers*). . . . . . . . . . . . . . . . . .  | 1428 | 1447\_\_ \_\_ \_\_ \_\_ | 1457 |
| d. **Other Practices?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1435 |  |  |
|  (i) Contour farming and strip cropping. . . . . . . . . . . . . . . . . .  | 1434 | 1448\_\_ \_\_ \_\_ \_\_ | 1458 |
|  (ii) Other Practices [*Specify*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ] . . .  | 1436 | 1450\_\_ \_\_ \_\_ \_\_ | 1460 |

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|  | **OFFICE USE** |
|  | 1440 |

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|  | **CODE** |
| 22. **Has the Natural Resource Conservation Service** (NRCS) **classified any** **part of this field as “Highly Erodible”?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1404 |
|  |  |  |
| 23. **Have you been notified by NRCS that this field contains a wetland?**. . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1405 |
|  |  |  |
| 24. **In 2009, did you receive technical assistance for planning, installing**, **maintaining, or using conservation practices or systems on this field?** (***Include*** *grassed waterways and filter strips or riparian buffers, or drainage area, on or adjoining this field.* ***Include*** *assistance from any source whether paid for or free*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** |  |
| 1406 |

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| 25. **Is this field included in an existing conservation program contract for which youor the landlord have received** (*or expect to receive*) **cost sharing payments, stewardship payments, or incentive payments?** [*Be sure to consider grassed waterways and filter strips or riparian buffers, or drainage area, on or adjoining this field*. *Also, be sure to consider payments that are part of this contract but were made before 2009 or payments that are anticipated for future years*.]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** |  |
| 1407 |

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|  [*If item 25 is YES, ask item 25a*; *else go to item 25b.*]  |  |  |
| a. Have you received (*or will you receive*) cost sharing or incentive payments from--- | 1 Environmental Quality Incentives Program (EQIP)2 Conservation Security Program (CSP)3 Conservation Reserve Program (CRP)4 Other Federal, State, Local or non-government source |  |  |
| . . . . . . . . .  | 1418 |
|  |
| b. Was this field included in a conservation program application that was rejected from--- | 1 Environmental Quality Incentives Program (EQIP)2 Conservation Security Program (CSP)3 Conservation Reserve Program (CRP)4 Other Federal, State, Local or non-government source |  |  |
| . . . . . . . . .  | 1419 |
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| 26. **During 2009, did any written plan of the following types cover this field---** (*A “written plan” is a plan prepared in accordance with Federal, State, or district standards.*) |
| **1****WRITTEN PLAN TYPE** | **2****Was this type****of written****plan used?** | **3****What year****was this plan****implemented?** | **4****For any practice that is part of this plan,****was** (*or will there be*) **an incentive****or cost-share payment received from:**1 Environmental Quality Incentives Program (EQIP)?2 Conservation Security Program (CSP)?3 Conservation Reserve Program (CRP)?4 Any other Federal, State, Local or non-government source? |
|   | **YES = 1** | **YEAR** | **CODE** |
| a. Conservation plan specifying practices to reduce soil erosion?. . . . . . . . . . . . . . . . . .  | 1408 | 1409\_\_ \_\_ \_\_ \_\_ | 1461 |
| b. Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure?. . . . . . . . . . . . . . .  | 1410 | 1411\_\_ \_\_ \_\_ \_\_ | 1462 |
| c. Nutrient management plan specifying practices for land application of manure only?. . . . . . . . . . . . . . . . . . . . . . . .  | 1412 | 1413\_\_ \_\_ \_\_ \_\_ | 1463 |
| d. Pest management plan to implement Integrated Pest Management (IPM) practices to control weeds, insects, and/or plant diseases?. . . . . . . . . . . . . . . . . .  | 1414 | 1415\_\_ \_\_ \_\_ \_\_ | 1464 |
| e. Irrigation water management plan specifying practices for applying or conserving irrigation water?. . . . . . . . . . . .  | 1416 | 1417\_\_ \_\_ \_\_ \_\_ | 1465 |

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| 27. [*If item 26a, b, c, d, or e is YES, ask---*] **Have you ever paid** **any technical service provider or consultant** **to develop or write any of these plans for which you or the landowner** **were reimbursed by the Natural Resource Conservation Service?**. . . . . . . . . . . . . . . . . . . . . . **YES = 1** | **CODE** |
| 1352 |
| a. [*If YES, ask---*] What was the reimbursement amount for developing these  plans for this field? (***Include*** *landlord’s/contractor’s share.*(***Exclude*** *cost of construction or materials*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **DOLLARS & CENTS** **PER ACRE OR** | **TOTAL DOLLARS** |
| 1353**.\_\_\_ \_\_\_** |  | 1384 |

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| 28. **Was the durum wheat in this field** **covered by Federal Crop Insurance in 2009?**  [ ]  **YES** – [*Enter code 1 and continue*] [ ]  **NO** – [*Go to item* 29]. . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **CODE** |
| 1385 |
|  | **CODE** |
| a. Which coverage did you obtain?. . . . . . .  | 1 Basic catastrophic insurance (*Federal CAT*)2 Buy-up above basic federal CAT level3 Revenue insurance4 Organic plan insurance5 Other Federal Crop insurance | . . . . . . . . . .  |
| 1386 |
| **PERCENT** |
|  (i) [*If item a = 3, ask---*] What was the level of revenue coverage you obtained for this field?. . . . . . . . . . . . . . . . . . . . . . .  |
| 1389 |
|  | **YEAR** |
| b. In what year did you (*the operator listed on the label*) first enroll this field in the Federal crop insurance program?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1387\_\_\_ \_\_\_ \_\_\_ \_\_\_ |
|  |  | **BUSHELS PER ACRE** |
| c. What is the 2009 Approved APH (*actual production history*) yield for this field?. . . . . . . . . . . . . . . . . . . .  | 1388 |
|  | **DOLLARS & CENTS** **PER ACRE OR** | **TOTAL DOLLARS** |
| d. What was the premium paid for Federal crop insurancefor this field in 2009? (***Exclude*** *any sign-up fee.*). . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1390 | **.\_\_\_ \_\_\_** |  | 1391 |
|  |  | **CODE** |
| e. Did you (*or will you*)collect an indemnity payment on this field?. . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1392 |
| 29. **Was the durum wheat in this field covered by** **private crop insurance in 2009** (*hail, wind, freeze, etc.*)**?** [ ]  **YES** – [*Enter code 1 and continue*] [ ]  **NO** – [*Go to item 30*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **CODE** |
| 1393 |
|  | **DOLLARS & CENTS** **PER ACRE OR** | **TOTAL DOLLARS** |
| a. What was the premium paid for private crop insurancefor this field in 2009? (***Exclude*** *any sign-up fee.*). . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1395 | **.\_\_\_ \_\_\_** |  | 1396 |
|  |  | **YEAR** |
| b. In what year did you (*the operator listed on this label*) first purchase private crop insurance for this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1397\_\_\_ \_\_\_ \_\_\_ \_\_\_ |
|  |  | **CODE** |
| c. Did you (*or will you*) collect an indemnity payment on this field for private crop insurance?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1394 |

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|  | **DOLLARS & CENTS** **PER BUSHEL** |
| 30. **What was the average price received for the durum wheat** **sold by this operation for the 2009 crop year?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1398**.\_\_\_ \_\_\_** |

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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 2009 durum wheat crop?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0202 | 0201 |
| 2. [*If COMMERCIAL nutrient or fertilizer applied, continue; else go to item 7.*] | **NUMBER** |
| 3. **How many commercial nutrient or fertilizer applications were made to this field for the 2009 crop?**  (***Include*** *applications made by airplanes and custom applicators*). . . . . . . . . . . . . . . . . . . . . . . . . .  | 0203 |

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| 4. **Now I need to record information for each application.** |
| **CHECKLIST** |  |
| **🗸** |  **INCLUDE** | **🗸** |  **EXCLUDE** |  |
| [ ]  Custom applied nutrients or fertilizers | [ ]  Micronutrients |  | **T-TYPE** | **TABLE** |
| [ ]  Nutrients or fertilizers applied in the fall of 2008 and those applied earlier if this field was fallow in 2008 | [ ]  Unprocessed manure[ ]  Nutrients or fertilizers applied to previous crops in this field |  | **2** | **001** |
| [ ]  Commercially prepared manure or compost | [ ]  Lime and gypsum/landplaster | **Line****99** | **Office Use****Lines in Table** | 0213 |

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|  | **APPLICATION CODES for COLUMN 6** |
|  | 1 Broadcast, ground without incorporation2 Broadcast, ground with incorporation3 Broadcast, by aircraft4 In seed furrow | 5 In irrigation water6 Chisel/Injected or knifed in7 Banded in or over row8 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 nutrients* *were* *reported.*] | **4**[Entermaterialcode.] 1 Pounds12 Gallons19 Pounds  of actual nutrients | **5****When was****this applied?**1 In the fall before seeding2 In the spring before seeding3 At seeding4 After seeding | **6****How was** **this** **applied?**[*Refer to* *code**list above.*] | **7****How many****acres were****treated****in this****application?****ACRES** |
|
|
|
|
| **N**Nitrogen | **P2O5**Phosphate | **K2O**Potash | **S**Sulfur |
| **01** | 0205 | 0206 | 0207 | 0214 | 0208 | 0209 | 0210 | 0211 | 0212 | **.\_\_\_** |
| **02** | 0205 | 0206 | 0207 | 0214 | 0208 | 0209 | 0210 | 0211 | 0212 | **.\_\_\_** |
| **03** | 0205 | 0206 | 0207 | 0214 | 0208 | 0209 | 0210 | 0211 | 0212 | **.\_\_\_** |
| **04** | 0205 | 0206 | 0207 | 0214 | 0208 | 0209 | 0210 | 0211 | 0212 | **.\_\_\_** |
| **05** | 0205 | 0206 | 0207 | 0214 | 0208 | 0209 | 0210 | 0211 | 0212 | **.\_\_\_** |
| **06** | 0205 | 0206 | 0207 | 0214 | 0208 | 0209 | 0210 | 0211 | 0212 | **.\_\_\_** |
| **07** | 0205 | 0206 | 0207 | 0214 | 0208 | 0209 | 0210 | 0211 | 0212 | **.\_\_\_** |
| **08** | 0205 | 0206 | 0207 | 0214 | 0208 | 0209 | 0210 | 0211 | 0212 | **.\_\_\_** |

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

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| 5. **Were any nutrients or fertilizers applied by custom applicators?** [ ]  **YES** - [*Continue*] [ ]  **NO** - [*Go to item 6*] |
| a. Are you able to report the cost of nutrient or fertilizer materials and custom application separately? [ ]  **YES** - [*Continue*] [ ]  **NO** - [*Go to item 6*] | **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*** *landlord and contractor costs*. ***Include*** *costs for sulfur and micronutrients.****Exclude*** *custom application of lime, gypsum, purchased manure & purchased compost*.)[*If material and application costs can’t be separated,* ***exclude*** *them here and record the* *total in item 6.*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **DOLLARS & CENTS****PER ACRE** | **OR** | **TOTAL DOLLARS** |
| 0219 | **.\_\_\_ \_\_\_** |  | 0220 |  |

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| 6. **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*. [*If custom applied and the cost of materials* *can be separated from application costs ,* ***include*** *the cost of materials ONLY; otherwise,* *include both the material and application costs.]* ***Include*** *materials applied to this field* *if it was fallow in 2008*. ***Exclude*** *lime, gypsum, purchased manure and purchased compost*.). . . .  | **DOLLARS & CENTS****PER ACRE** | **OR TOTAL DOLLARS** |
| 0221 | **.\_\_\_ \_\_\_** |  | 0222 |

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|  | **CODE** |
| 7. **Was gypsum applied to this field for the 2009 durum wheat crop?**. . . . . . . . . . . . . . . . . . . . . . **YES = 1** | 0218 |

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|  | **BUSHELS PER ACRE** |
| 8. **What was your yield** **goal at planting for this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 0217 |  |

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| 9. **Was a soil or plant tissue test performed on this durum wheat field** **in 2008 or 2009 for the 2009 crop?** [ ]  **YES** [*Continue*] **[ ]**  **NO** [*Go to item 14*] |  |
|  | **CODE** |
| 10. **Was a soil test for phosphorus performed on this durum wheat field** **in 2008 or 2009 for the 2009 crop?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0225 |
| a. [*If phosphorus test done, ask*---] | **POUNDS PER ACRE** |
|  How many pounds of phosphorus (*per acre*) were recommended (*by the phosphorus test*)?. . . . .  | 0226 |
|  | **CODE** |
| 11. **Was a soil test for nitrogen performed on this durum wheat field** **in 2008 or 2009 for the 2009 crop?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0227 |
| a. [*If nitrogen test done, ask---*] | **POUNDS PER ACRE** |
|  How many pounds of nitrogen (*per acre*) were recommended (*by the nitrogen test*)?. . . . . . . . . . . .  | 0228 |

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|  | **CODE** |
| 12. **Was a plant tissue test or leaf analysis for nutrient deficiency performed** **on this field for the 2009 crop?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . **YES = 1** | 0229 |

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|  | **DOLLARS & CENTS****PER ACRE** | **OR** | **TOTAL DOLLARS** |
| 13. **How much was spent for these soil and plant tissue tests** **on this field?** (***Include*** *operator, landlord, and contractor costs*.). . . . . . . . . . . . . . . . . . . . . .  | 0230 | **.\_\_\_ \_\_\_** |  | 0231 |
|  |
| a. If tests were done at no cost, explain--- | 1 Soil/plant tissue test provided free of charge  by dealer, crop consultant, or extension service2 Soil/plant tissue test costs were included in the total fertilizer costs reported in item 63 Some other reason |  | **CODE** |
|  |  | . . . . . . .  | 0232 |

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| 14. [**ENUMERATOR ACTION*:*** *Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied,* *complete items 15, 16 and 17. If NO nitrogen applied, go to item 18.*] |
|  |
| 15.**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 |
| 16. **Did you purchase any commercial nitrogen fertilizer applied to this field** **under contract or otherwise pre-purchase the fertilizer at a pre-determinedprice prior to planting?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | **CODE** |
|  |  | 0223 |
| a. [*If YES, ask---*] What month prior to planting for the 2009 crop did you contract for the fertilizer used on this field? [*Enter code “1” for January, “2” for February, etc.*]. . . . . . . . . . . . . . . . . . .  | **CODE** |
|  | 0224 |
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| 17. **Which of the following products** **did you use to slow the breakdown** **of nitrogen on this field?**. . . . . . . . . . . . . .  | 1 Nitrification inhibitors (*such as N-Serve*)2 Urease inhibitors (*such as Agrotain*)3 Chemical-coated fertilizers (*such as sulfur-coated* *urea and polymer-coated urea*)4 Other inhibitors5 None |  | **CODE** |
| . . . . . . . .  | 0241 |

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|  | **CODE** |
| 18. **Is lime ever applied to this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0242 |
| [*If no lime applied, go to item 19; 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 2008 or 2009 for the 2009 crop?. . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0240 |
| d. [*If field is rented* (Section B, item 2 = 2, 3, 4, or 5), *ask---*] Considering the last time it was applied, what percent of the total cost of lime and its application was paid by the landlord(s)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **PERCENT** |
|  | 0245 |

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| 19. **Was non-commercial manure** (*from own farm, from a neighbor’s farm, etc.*) **or other organic** **material** (*excluding compos*t) **applied to this field for the 2009 durum wheat crop?** (***Exclude*** *commercially prepared manure*.) [ ]  **YES** - [*Enter code 1 and continue*] [ ]  **NO** - [*Go to item 21*]. . . . . . . . . . . . . . . . . . . . . . . . . .  | **CODE** |
| 0246 |
|  | **ACRES** |
| a. How many acres in this field was manure applied to?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 0247**.\_\_\_** |

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|  |
| b. What was the amount of manure applied to this field?. . . . . . . . . . . . .  | 1 TONS2 GALLONS3 BUSHELS | . . . .  | **CODE** |  | **UNITS PER ACRE** | **OR** | **TOTAL UNITS** |
| 0248 | **AND** | 0249 | **.\_\_\_ \_\_\_** |  | 0250 | **.\_\_\_** |
|  | **MILES** |
| c. What is the distance between the manure storage/production location and this field?. . . . . . . . . . . .  | 0251**.\_\_\_** |
|  |
| d. What was the capacity of the manure spreader (*or other vehicle*) used to haul manure to this field?. . . .  | 1 TONS2 GALLONS3 BUSHELS |  | **CODE** |  | **TOTAL UNITS** |
| . . . .  | 0252 | **AND** | 0253 | **.\_\_\_ \_\_\_** |
| e. Of the total manure applied to this field for the 2009 crop, what was the percent of manure applied--- | **PERCENT** |
| (i) in the fall before planting?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **+** | 0254 |
| (ii) in the spring before planting?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **+** | 0255 |
| (iii) after planting?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **+** | 0256 |
|  | **100%** |
|  | 1 Lagoon liquid?2 Slurry liquid?3 Semi-dry or dry? |  | **CODE** |
| f. Was the manure--- | . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 0257 |
|  |
|  | 1 Broadcast or sprayed *without* incorporation?2 Broadcast or sprayed *with* incorporation?3 Injected/knifed in?4 Sprayed using irrigation systems? |  | **CODE** |
| g. Was the manure--- | . . . . . . . . . . . . . . . . . . . . .  | 0258 |
|  |
|  | 1 Beef cattle?2 Dairy cattle?3 Hogs?4 Sheep?5 Poultry?6 Equine?7 Biosolids (*municipal sludge*)?8 Food waste?9 Other? [*Specify:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ] |  | **CODE** |
| h. Was the major source of the manure from--- | . . . . . . . . . . . . . . . . . . . . .  | 0259 |
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| i. Was the manure--- | 1 Produced on this operation?2 Purchased?3 Obtained at no cost off this operation?4 Obtained with compensation? (*Operator* *received payment for accepting the manure*.) | . . . . . . . . . . . . . . . . . . . . . .  |  |
| **CODE** |
| 0260 |

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|  (i) [*If item 19i = 2, ask*---] What was the total cost of the purchased manure applied to this field? (***Include*** *any payment made for transportation costs.*) . . . . . . . . . . . .  | **DOLLARS & CENTS** **PER ACRE OR** | **TOTAL DOLLARS** |
| 0284 | **.\_\_\_ \_\_\_** |  | 0285 |

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

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| (1) [*If YES, ask---*] What was the total cost paid to have manure custom applied to this field? [*Do not report custom application cost if it was included with* *the purchased manure cost.*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **DOLLARS & CENTS** **PER ACRE OR** | **TOTAL DOLLARS** |
| 0287 | **.\_\_\_ \_\_\_** |  | 0288 |

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|  |  | **CODE** |
| j. Of the manure applied to this field, was any tested for nutrient content prior to application?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0261 |
|  |  |  |
| k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0262 |
| (i) [*If YES, ask*---] By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **PERCENT** |
| 0263 |
|  |  | **CODE** |
| l. Did you adjust the durum wheat harvest date for this field due to the application of manure?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0280 |

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| 20. **Were the manure APPLICATION RATES to this field influenced by Federal,** **State, or local restrictions?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  |  | **CODE** |
| **YES = 1** | 0264 |
| a. [*If item 20 is YES, ask---*]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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| 21. **Was compost applied to this field for the 2009 durum wheat crop?**  [ ]  **YES** - [*Enter code 1 and continue*] [ ]  **NO** - [*Go to* ***Section D***]. . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **CODE** |
| 0267 |

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|  | **ACRES** |
| a. To how many acres in this field was the compost applied?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 0268**.\_\_\_** |
|  |
| b. What was the amount of compost applied to this field?. . . . . . . . . . . . . . . .  |  |  | **CODE** |  | **UNITS PER ACRE** | **OR** | **TOTAL UNITS** |
| 1 Tons2 Cubic Yards |
| . . . .  | 0269 | **AND** | 0270 | **.\_\_\_ \_\_\_** |  | 0271 | **.\_\_\_** |

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

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

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|  (i) [*If item 21d = 2, ask*---] What was the total cost of the purchased compost applied to this field? (***Include*** *any payment made for transportation costs.*) . . . . . . . . . . . . .  | **DOLLARS & CENTS** **PER ACRE OR** | **TOTAL DOLLARS** |
| 0273 | **.\_\_\_ \_\_\_** |  | 0274 |

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

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| (1) [*If YES, ask---*] What was the total cost paid to have compost custom applied to this field? [*Do not report custom* *application cost if it was included with the compost cost.*]. . . . . . . . . . . . . . . . . . .  | **DOLLARS & CENTS PER ACRE OR** |  **TOTAL DOLLARS** |
| 0276 | **.\_\_\_ \_\_\_** |  | 0277 |

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| (iii) [*If item 21d = 1, ask*---] What is the distance between the compost storage/production location and this field?. . . . . . . .  | **MILES** |
| 0299**.\_\_\_** |

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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 2009 durum wheat crop, including both custom applications and applications made by this operation.** |
|  |  | **CODE** | **EDIT TABLE** |
| 1. **Were any herbicides, insecticides, fungicides or other chemicals** **used on this durum wheat field for the 2009 crop?**. . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0302 | 0301 |
|  [*Probe for applications made in the fall of 2008* (and those made earlier if this field was fallow)*. If no biocontrols or pesticides applied, go to* ***Section E****.*] |  |  |  |

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|  |  |  | **T - TYPE** | **TABLE** |
| **Include** defoliants, fungicides, herbicides, insecticides, and other pesticides. | **Exclude** nutrients or fertilizers reportedearlier and seed treatments. |  | **3** | **001** |
| **Include** biological and botanical pesticides. |  | **LINE****99** | **OFFICE USE****LINE IN TABLE** | 0319 |
|  |
| **CHEMICAL****PRODUCT****NAME** |  | **2** | **3** | **4** | **5** | **6 OR 7** | **8** |
| **L****I****N****E** | **What products****were applied****to this field?**[*Show product**codes from**Respondent**Booklet.*] | **Was this****product****bought in****liquid or dry form?**[*Enter L or D*] | **Was this****part of a****tank mix?**[*If tank mix,**enter line**number of**first product**in mix*.] | **When****was this applied?** 1 BEFORE planting 3 ATplanting 4 AFTER planting | **How much****was applied****per acre****per****application?** | **What was****the total****amount****applied per****application****in this field?** | [*Enter unit code.*] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams |
|  | **01** | 0305 |  | 0306 | 0307 | 0308 | **.\_\_\_ \_\_\_** | 0309 | **.\_\_\_ \_\_\_** | 0310 |
|  | **02** | 0305 |  | 0306 | 0307 | 0308 | **.\_\_\_ \_\_\_** | 0309 | **.\_\_\_ \_\_\_** | 0310 |
|  | **03** | 0305 |  | 0306 | 0307 | 0308 | **.\_\_\_ \_\_\_** | 0309 | **.\_\_\_ \_\_\_** | 0310 |
|  | **04** | 0305 |  | 0306 | 0307 | 0308 | **.\_\_\_ \_\_\_** | 0309 | **.\_\_\_ \_\_\_** | 0310 |
|  | **05** | 0305 |  | 0306 | 0307 | 0308 | **.\_\_\_ \_\_\_** | 0309 | **.\_\_\_ \_\_\_** | 0310 |
|  | **06** | 0305 |  | 0306 | 0307 | 0308 | **.\_\_\_ \_\_\_** | 0309 | **.\_\_\_ \_\_\_** | 0310 |
|  | **07** | 0305 |  | 0306 | 0307 | 0308 | **.\_\_\_ \_\_\_** | 0309 | **.\_\_\_ \_\_\_** | 0310 |
|  | **08** | 0305 |  | 0306 | 0307 | 0308 | **.\_\_\_ \_\_\_** | 0309 | **.\_\_\_ \_\_\_** | 0310 |
|  | **09** | 0305 |  | 0306 | 0307 | 0308 | **.\_\_\_ \_\_\_** | 0309 | **.\_\_\_ \_\_\_** | 0310 |
|  | **10** | 0305 |  | 0306 | 0307 | 0308 | **.\_\_\_ \_\_\_** | 0309 | **.\_\_\_ \_\_\_** | 0310 |
|  | **11** | 0305 |  | 0306 | 0307 | 0308 | **.\_\_\_ \_\_\_** | 0309 | **.\_\_\_ \_\_\_** | 0310 |
|  | **12** | 0305 |  | 0306 | 0307 | 0308 | **.\_\_\_ \_\_\_** | 0309 | **.\_\_\_ \_\_\_** | 0310 |
|  | **13** | 0305 |  | 0306 | 0307 | 0308 | **.\_\_\_ \_\_\_** | 0309 | **.\_\_\_ \_\_\_** | 0310 |
|  | **14** | 0305 |  | 0306 | 0307 | 0308 | **.\_\_\_ \_\_\_** | 0309 | **.\_\_\_ \_\_\_** | 0310 |
| 2. [*For 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 ifTOTAL 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 Ounces28 Dry Ounces30 Grams |
| **ACRES** | **NUMBER** |  |  |
| **01** | 0311 | 0312 | **.\_\_\_** | 0313 | 0316 |  | 0317 | **.\_\_\_ \_\_\_** | 0318 |
| **02** | 0311 | 0312 | **.\_\_\_** | 0313 | 0316 |  | 0317 | **.\_\_\_ \_\_\_** | 0318 |
| **03** | 0311 | 0312 | **.\_\_\_** | 0313 | 0316 |  | 0317 | **.\_\_\_ \_\_\_** | 0318 |
| **04** | 0311 | 0312 | **.\_\_\_** | 0313 | 0316 |  | 0317 | **.\_\_\_ \_\_\_** | 0318 |
| **05** | 0311 | 0312 | **.\_\_\_** | 0313 | 0316 |  | 0317 | **.\_\_\_ \_\_\_** | 0318 |
| **06** | 0311 | 0312 | **.\_\_\_** | 0313 | 0316 |  | 0317 | **.\_\_\_ \_\_\_** | 0318 |
| **07** | 0311 | 0312 | **.\_\_\_** | 0313 | 0316 |  | 0317 | **.\_\_\_ \_\_\_** | 0318 |
| **08** | 0311 | 0312 | **.\_\_\_** | 0313 | 0316 |  | 0317 | **.\_\_\_ \_\_\_** | 0318 |
| **09** | 0311 | 0312 | **.\_\_\_** | 0313 | 0316 |  | 0317 | **.\_\_\_ \_\_\_** | 0318 |
| **10** | 0311 | 0312 | **.\_\_\_** | 0313 | 0316 |  | 0317 | **.\_\_\_ \_\_\_** | 0318 |
| **11** | 0311 | 0312 | **.\_\_\_** | 0313 | 0316 |  | 0317 | **.\_\_\_ \_\_\_** | 0318 |
| **12** | 0311 | 0312 | **.\_\_\_** | 0313 | 0316 |  | 0317 | **.\_\_\_ \_\_\_** | 0318 |
| **13** | 0311 | 0312 | **.\_\_\_** | 0313 | 0316 |  | 0317 | **.\_\_\_ \_\_\_** | 0318 |
| **14** | 0311 | 0312 | **.\_\_\_** | 0313 | 0316 |  | 0317 | **.\_\_\_ \_\_\_** | 0318 |

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| 3. **Were any chemicals, biocontrols, or pesticides applied by custom applicators?** |
|  [ ]  **YES** – [*Continue*] |  [ ]  **NO** – [*Go to item 4*] | **OFFICE USE** |
| a. Are you able to report the cost of chemical product and custom application separately? | 0324 |
|  [ ]  **YES** – [*Continue*] |  [ ]  **NO** – [*Go to item 4*] |
| b. Excluding the cost of the chemical product, how much was spent for custom application of chemicals, biocontrols, and pesticides on this field? (***Include*** *operator and landlord cost.)*. . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **DOLLARS & CENTS** **PER ACRE OR** | **TOTAL DOLLARS** |
| 0331 | **.\_\_\_ \_\_\_** |  | 0332 |
| 4. **What was the TOTAL COST of all chemical products applied** **to this field?** (**Include** *operator, landlord, and contractor cost, defoliants,* *herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators,* *and materials applied before planting and during 2008 fallow period.* **Exclude***seed treatments.*). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **DOLLARS & CENTS** **PER ACRE OR** | **TOTAL DOLLARS** |
| 0334 | **.\_\_\_ \_\_\_** |  | 0335 |
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|  | **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 2009 durum wheat crop. By pests, we mean****WEEDS, INSECTS, and DISEASES.** |  |  |  |
| **T-TYPE****0** | **TABLE****000** | **LINE****00** |
|  |
| 1. [**ENUMERATOR ACTION:** *Were PESTICIDE applications reported in Section D?*] |
|  [ ]  **YES** – [*Continue*] |  [ ]  **NO** – [*Go to item 10* ] |
|  | **CODE** |
| 2. **Was weather data used to assist in determining either the need or when** **to make pesticide applications?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . **YES = 1** | 0800 |

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| 3. **Were any biological pesticides such as Bt** (*Bacillus thuringiensis*)**, insect growth** **regulators, neem or other natural/biological based products sprayed or applied** **to manage pests in this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . **YES = 1** |  |
| 0801 |

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| 4. **Were pesticides with different mechanisms of action rotated or tank mixed** **for the primary purpose of keeping pests from becoming resistant to pesticides?**. . . . . . . **YES = 1** |  |
| 0802 |
|  |
| 5. [**ENUMERATOR ACTION*:*** *Were HERBICIDE* (pesticide product codes 3000-4999) *applications reported in Section D, item 1, column 2?*] |
|  [ ]  **YES** – [*Continue*] |  [ ]  **NO** – [*Go to item 8* ] |
| 6. **Were herbicides applied to this durum wheat field** **BEFORE weeds emerged?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . **YES = 1** |  |
| 0803 |

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|  a. [*If item 6 is YES, ask---*] Were the herbicides applied BEFORE weeds emerged on this durum wheat field based primarily on--- |  | . . . . . . . . . . . .  |  |
| 1 routine treatments of what **weeds** are usually present?**OR**2 weed scouting from the previous year? |  |
| 0804 |

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| 7. **Were herbicides applied to this durum wheat field** **AFTER weeds emerged?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . **YES = 1** | 0805 |
|  a. [*If item 7 is YES, ask---*] Were the herbicides applied AFTER weeds emerged on this durum wheat field based primarily on--- |  |  |  |
|  | 1 routine treatments of what **weeds** are usually present?**OR**2 weed scouting from the current year? | . . . . . . . . . . . .  |  |
|  |  |  | 0806 |
|  |
| 8. [**ENUMERATOR ACTION*:*** *Were INSECTICIDE* (pesticide product codes 1000 – 2999) *applications reported in Section D, item 1, column 2?*] |
|  [ ]  **YES** – [*Continue*] |  [ ]  **NO** – [*Go to item 10* ] |
|  |  |
| 9. **Were the insecticides applied** **to this durum wheat field** **based primarily on---** | 1 routine treatments of what **insects** are usually present?**OR**2 scouting for insect infestation? |  |  |
|  |  | . . . . . . . . . . .  | 0807 |

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| 10. **In 2009, 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 11.*]2 By conducting general observations while performing routine tasks [*Enter code 2 and go to item 13*.]3 This field was not scouted. [*Enter code 3 and go to item 18.*] |  | **CODE** |
| . . . . . .  | 0808 |
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| 11. **Was an established scouting process** (*systematic sampling, recording counts, etc*.) **used** **or were insect traps used in this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0809 |
| 12. **Was scouting for pests done in this field due to---** |  |  |
| a. a pest advisory warning?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0810 |
| b. a pest development model?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0811 |

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| 1 | 2 | 3 |
| 13. **Was this durum wheat 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 is* ***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 |
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| [*If scouted by crop consultant or commercial scout, ask item 14;**else go to item 15.*]14. **How much was charged for the scouting services for this field?**(***Include*** *landlord and contractor cost*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **DOLLARS & CENTS** **PER ACRE OR** | **TOTAL DOLLARS** |
| 0821 | **.\_\_\_ \_\_\_** |  | 0822 |
|  | **OFFICE USE** |
| a. [*If scouting performed at no cost, explain*: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ] |  | 0333 |

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| 15. **Were written or electronic records kept for this field to track the activity** **or numbers of weeds, insects or diseases?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . **YES = 1** | **CODE** |
| 0823 |

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| 16. **Were scouting data compared to published information on infestation thresholds** **to determine when to take measures to manage pests in this field?**. . . . . . . . . . . . . . . . . . . . . **YES = 1** |  |
| 0824 |

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| 17. **Did you use field mapping of previous weed problems to assist you in making** **weed management decisions?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . **YES = 1** |  |
| 0825 |

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| --- | --- |
| 18. **Did you do any of the following other types of pest management for the specific purpose of** **managing or reducing the spread of pests in this field?** [*Enter code “1****”*** *for all that apply*.] | **CODE** |
| a. Use the services of a diagnostic laboratory for pest identificationor 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 3 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 workto reduce the spread of pests?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0851 |
| l. Adjust row spacing, plant density or row directions?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0852 |
|  |  |  |
| m. Have the seed used in this field treated for insect or disease control after you purchased the seed?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0854 |
| n. Maintain a beneficial insect or vertebrate habitat?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0855 |
|  |  |  |
| o. Maintain buffer strips or border rows to isolate organic durum wheat 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 |

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| --- | --- | --- |
|  |  | **CODE** |
| 19. **Were any beneficial organisms** (*insects, nematodes, fungi*) **applied** **or released in this field to manage pests?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0853 |
|  |
| 20. **Were floral lures, attractants, repellants, pheromone traps or other** **biological pest controls used on this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0858 |
| a. [*If item 19 or item 20 is YES, ask*---] **What were the TOTAL materials and application costs** **for all biological pest controls for this field?** (***Include*** *operator, landlord, and contractor shares.* ***Include*** *cost for beneficial* *organisms (insects, nematodes, and fungi).* ***Exclude*** *biological pesticides*.) . . . . . . . . . . . . .  |  |
| **DOLLARS & CENTS** **PER ACRE OR** | **TOTAL DOLLARS** |
| 0859 | **.\_\_\_ \_\_\_** |  | 0860 |

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|  |
|  |  | **CODE** |
| 21. **Was a trap crop** (*excluding fallow*) **grown to help manage insects in this field?**. . . . . . . . . .  | **YES = 1** | 0863 |
|  |  |  |
| 22. **Was this field left fallow in 2008 to help manage insects on this field?**. . . . . . . . . . . . . . . . .  | **YES = 1** | 0864 |

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| 23. **Were water management practices such as irrigation scheduling, controlled** **drainage, or treatment of retention water used on this field to manage for pests** **or toxic producing fungi and bacteria?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** |  |
| 0861 |
|  |  |  |
| 24. **Was protection of beneficial organisms a factor in your pest control decisionsfor this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0862 |

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| **PEST MANAGEMENT INFORMATION** |
| 25. [*Show Pest Management Information Sources Code List from Respondent Booklet*.]  |
|  **Which outside sources of information on pest management practices and products** **were used for the 2009 durum wheat crop?** |
|  [*Starting with the most influential in determining the pest management practices used* *on this operation, enter codes for up to three sources.*] |
|  | **PEST MANAGEMENT INFORMATION SOURCES CODE LIST** |  | [Enter up to 3source codes.] |
|  |  1 County, Cooperative, or University Extension Advisor, Publications or Demonstrations 2 Farm Supply or Chemical Dealer 3 Commercial Scouting Service 4 Independent Crop Consultant or Pest Control Advisor/Custom Applicator 5 Other Growers or Producers 6 Producer Associations, Newsletters or Trade Magazines 7 Electronic Information Services  (*DTN, Internet, World Wide Web, etc*.) 8 Employee Pest Advisor 9 Other – [*Specify*: ]10 None – Operator used no **outside** information source |  |
|  |  | **FIRST** |
|  | . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 0826 |
|  |  |  |
|  |  | **SECOND** |
|  |  | 0827 |
|  |  |  |
|  |  | **THIRD** |
|  |  | 0828 |
| 26. **Other than pesticide applicator training, have you** (*the operator*) **attended any** **training session on pest identification and management since October 1, 2008?**. . . . . . .  |  | **CODE** |
| **YES = 1** | 0829 |
|  |
|  | **Completion Code for Pest Management Data** |
|  |  1 Incomplete/Refusal | 0340 |

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

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| 1. **Now I need to list all tractors used to produce** **durum wheat on the selected field**. |  |
| **CHECK LIST** |
|  | **Include** | **Exclude** |  |
|  | [ ]  Tractors owned, rented,  leased or borrowed | [ ]  Tractors provided by custom operators |  |
|  |  |
| **1** | **2** | **3** | **4** | **5** | **6** |
|  | **What tractors were****used on this field?**1 John Deere & Company2 AGCO (*Challenger, Massey-* *Ferguson, Caterpillar*)3 Ford New-Holland (*Case*)4 Kubota5 Other [*Specify:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ]**CODE** | **What is the****model year?**(*Example: 2004*)**YEAR** | **Is this vehicle a---?**2 2-wheel drive tractor3 2-wheel drive tractor with front wheel assist4 4 -wheel drive tractor5 crawler or other tracked-tractor6 other tractor**CODE** | **What is its** **PTO Horsepower?****PTO HORSEPOWER** | **Is it---?**1 diesel2 gasoline3 LP gas9 other**CODE** |
| **1** | 0110 | 0120**\_\_\_ \_\_\_ \_\_\_ \_\_\_** | 0121 | 0122 | 0123 |
| **2** | 0111 | 0124**\_\_\_ \_\_\_ \_\_\_ \_\_\_** | 0125 | 0126 | 0127 |
| **3** | 0112 | 0128**\_\_\_ \_\_\_ \_\_\_ \_\_\_** | 0129 | 0130 | 0131 |
| **4** | 0113 | 0132**\_\_\_ \_\_\_ \_\_\_ \_\_\_** | 0133 | 0134 | 0135 |
| **5** | 0114 | 0136**\_\_\_ \_\_\_ \_\_\_ \_\_\_** | 0137 | 0138 | 0139 |
| **6** | 0115 | 0140**\_\_\_ \_\_\_ \_\_\_ \_\_\_** | 0141 | 0142 | 0143 |
| **7** | 0116 | 0144**\_\_\_ \_\_\_ \_\_\_ \_\_\_** | 0145 | 0146 | 0147 |
| **8** | 0117 | 0148**\_\_\_ \_\_\_ \_\_\_ \_\_\_** | 0149 | 0150 | 0151 |
| **9** | 0118 | 0152**\_\_\_ \_\_\_ \_\_\_ \_\_\_** | 0153 | 0154 | 0155 |
| **10** | 0119 | 0156**\_\_\_ \_\_\_ \_\_\_ \_\_\_** | 0157 | 0158 | 0159 |
|  |
| 2. **Was a self-propelled combine and/or swather used to harvest the durum wheat field?** |
|  [ ]  **YES** – [*Continue*] | [ ]  **NO** – [*Go to item 2c*] |
|  a. What is the model year of the self-propelled harvester(s) used to harvest durum wheat from this field? (*Report the average year if more than one was used*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YEAR** |
| 0830\_\_\_ \_\_\_ \_\_\_ \_\_\_ |
|  b. What is the model year of the self-propelled swather(s) used in preparing to harvest durum wheat from this field? (*Report the average year if more than one was used*.). . . . . . . . . . . . . . . . . . . . . .  | **YEAR** |
| 0831\_\_\_ \_\_\_ \_\_\_ \_\_\_ |
|  c. Did you use a defoliant in place of a swather in preparing to harvest the durum wheat from this field?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . **YES = 1** | **CODE** |
| 0832 |

|  |  |
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| 3. **Including custom operations, I need to list field work performed** **by machines on this field for the 2009 durum wheat 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 2008, list operations starting with fall 2007*]; | **Include** all field work using machines for--- [ ]  Land Forming/Levee Building [ ]  Tillage [ ]  Preparing for Irrigation [ ]  Planting [ ]  Fertilizer & Pesticide applications [ ]  Harvesting & Hauling wheat and wheat straw to storage or first point of sale**Exclude** [ ]  Lime & Gypsum/landplaster applications |
|  ► list the operations in order through harvest and hauling of this crop to storage or first point of sale; and |
|  ► maintain the order of tandem hook-ups. |
|  | **CODES FOR COLUMN 5**1 You (*the Operator*)2 Partner3 Unpaid Worker4 Paid Part-time or Seasonal Worker5 Paid Full-time Worker6 Custom Applicator |  |
|  |  |
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|  |
| **2** | **3** | **4** | **5** | **[ IF CUSTOM (*column 5 = code 6* ),skip columns 6-10]** |
|  |  |  |  | **6** | **7** | **8** | **9** | **10** |
| **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 Feet2 Row3 Moldboard (*bottoms*)**Hauling**4 Pounds5 Bushels6 Tons | **What was the power source?**[*Record tractor line number**from item 1*.]**OR**66 Animal Drawn77 Pick up99 Self-Propelled**1/** | **How many****acres were****covered?**[*Exclude**land forming**and hauling**operations*] | **How many****TOTAL HOURS****were spent****on land forming****and hauling?**[*Example: backhoes,**disk border maker,**ditcher, rear mounted blade, trucks, wagons**forklifts, etc.*] |
| **No.** |  | **CODE** | **CODE** |  | **CODE** |  | **ACRES** | **HOURS** |
| 0351 |  | 0352 | 0353 | 0354 | 0355 | 0356 | 0357 | **.\_\_\_** | 0359 |
| 0361 |  | 0362 | 0363 | 0364 | 0365 | 0366 | 0367 | **.\_\_\_** | 0369 |
| 0371 |  | 0372 | 0373 | 0374 | 0375 | 0376 | 0377 | **.\_\_\_** | 0379 |
| 0381 |  | 0382 | 0383 | 0384 | 0385 | 0386 | 0387 | **.\_\_\_** | 0389 |
| 0391 |  | 0392 | 0393 | 0394 | 0395 | 0396 | 0397 | **.\_\_\_** | 0399 |
| 0401 |  | 0402 | 0403 | 0404 | 0405 | 0406 | 0407 | **.\_\_\_** | 0409 |
| 0411 |  | 0412 | 0413 | 0414 | 0415 | 0416 | 0417 | **.\_\_\_** | 0419 |
| 0421 |  | 0422 | 0423 | 0424 | 0425 | 0426 | 0427 | **.\_\_\_** | 0429 |
| 0431 |  | 0432 | 0433 | 0434 | 0435 | 0436 | 0437 | **.\_\_\_** | 0439 |
| 0441 |  | 0442 | 0443 | 0444 | 0445 | 0446 | 0447 | **.\_\_\_** | 0449 |
| 0451 |  | 0452 | 0453 | 0454 | 0455 | 0456 | 0457 | **.\_\_\_** | 0459 |
| 0461 |  | 0462 | 0463 | 0464 | 0465 | 0466 | 0467 | **.\_\_\_** | 0469 |
| 0471 |  | 0472 | 0473 | 0474 | 0475 | 0476 | 0477 | **.\_\_\_** | 0479 |
| 0481 |  | 0482 | 0483 | 0484 | 0485 | 0483 | 0487 | **.\_\_\_** | 0489 |
| 0491 |  | 0492 | 0493 | 0494 | 0495 | 0496 | 0497 | **.\_\_\_** | 0499 |
| 0501 |  | 0502 | 0503 | 0504 | 0505 | 0506 | 0507 | **.\_\_\_** | 0509 |
| 0511 |  | 0512 | 0513 | 0514 | 0515 | 0516 | 0517 | **.\_\_\_** | 0519 |
| 0521 |  | 0522 | 0523 | 0524 | 0525 | 0526 | 0527 | **.\_\_\_** | 0529 |
| 1/ *If trucks other than pick-ups are used as the power source, use truck codes in Respondent Booklet.* | **OFFICE USE** |
|  | 0032 |

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| 4. **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 2009 durum wheat crop. (***Exclude*** *labor that was reported for field work performed by machines.*) |

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| --- | --- |
|  | **1****How many hours did** (*type of worker*)**spend on this field---** |
|  **TYPE OF WORKERS** | a. | b. | c. |
| scouting forweeds, insects and diseases?**HOURS** | irrigating?**HOURS** | performingother 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** |
| 5. **What was the average hourly wage rate paid to part-time or seasonal hired workers?**(***Exclude*** *custom and contract workers, payroll taxes and benefits.*). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1119 | **.\_\_\_ \_\_\_** |

|  |  |
| --- | --- |
|  | **DOLLARS & CENTS****PER HOUR** |
| 6. **What was the average hourly wage rate paid to full-time hired workers?**(***Exclude*** *custom and contract workers, payroll taxes and benefits.*). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1118 | **.\_\_\_ \_\_\_** |

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| --- | --- |
|  | **CODE** |
| 7. **Was any contract labor used on this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1116 |
| a.[*If YES, ask* ---] What was the average cost per acre for this contract labor? (***Include*** *operator, landlord, and contractor costs*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **DOLLARS & CENTS****PER ACRE** |
| 1117 | **.\_\_\_ \_\_\_** |

|  |  |
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| 8. **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.*) . . . . . . . . .  | **PERCENT** |
| 1120 |

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| 9. **Now I need some information on how much was spent for custom services used on this** **field for the 2009 durum wheat crop.** |
|  |
| 🗸 | 1**CUSTOM SERVICE****Which of the following services were performed****for the 2009 durum wheat crop on this field?** 🡨 [*Check box for each service performed; refer to item 3 if necessary*.] | 2**Including****operator, landlord,****and contractor costs,****how much was spent****for** *[column 1*] **on****this field for the 2009****durum wheat crop?****DOLLARS & CENTS****PER ACRE** |

|  |  |  |  |
| --- | --- | --- | --- |
| [ ]   | a. Custom land preparation, shaping and/or leveling \_\_ \_\_**.\_\_** **\_\_** **X** \_\_\_\_\_\_\_\_\_\_\_ =\_\_\_\_\_\_\_\_\_\_\_**÷ \_\_\_\_\_\_\_\_\_\_\_\_ = \_\_ \_\_.\_\_ \_\_** (Cost per Hour X Total Hours = Total Dollars ÷ Total Acres in the Field = Dollars & Cents per Acre) . . . .  | 1121 | **.\_\_\_ \_\_\_** |
| [ ]   |  b. Custom cultivating . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1122 | **.\_\_\_ \_\_\_** |
| [ ]   |  c. Custom planting and/or reseeding . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1123 | **.\_\_\_ \_\_\_** |
| [ ]   |  d. Custom harvesting . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1124 | **.\_\_\_ \_\_\_** |
| [ ]   |  e. Custom hauling 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. 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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| --- |
| 10. **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 12*] |
|  Which of the following services did you obtain? a. Nutrient recommendations/management service?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  |  | **CODE** |
| **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 |
| 11. **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 |  |

|  |  |
| --- | --- |
|  | **CODE** |
| 12. **Was there** (*or will there be*) **a yield monitor on the equipment used to harvest** **this durum wheat field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1138 |
|  [*If YES, continue; else go to item 13*] a. Was there (*or will there be*) a yield map produced from this harvest using information from the yield monitor?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  |  |
| **YES = 1** | 1139 |
| b. Did you use the yield monitor information to--- |
| (i) monitor crop moisture content to determine need for crop drying?. . . . . . . . . . . . . . . . . .  | **YES = 1** | 1140 |
| (ii) add/improve tile drainage?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1141 |
| (iii) add/improve irrigation equipment/irrigation water application?. . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1142 |
| (iv) conduct in-field experiments (*e.g., compare fertilizer applications*, *seed varieties, herbicides, pesticides, etc*)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1143 |
| (v) negotiate new crop leases?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1144 |
| (vi) document yields for crop insurance, real estate tax, or farm program purposes?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1145 |
| (vii) accurately divide crop production among partners and/or for landlord crop shares?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1146 |
| (viii) other uses [*specify:* ] . . . . . . . . .  | **YES = 1** | 1147 |

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| 13. **During 2008 or 2009, was a GPS** (*Global Positioning System*) **device used to produce** **a map of the soil properties** (*such as nitrate levels, PH, soil type, etc*.) **of this field?** . . . . . .  |  |  |
| **YES = 1** | 1148 |
|  |  |
| a. [*If YES, ask*---] |  1 soil tests from this field? 2 a machine that measured electrical conductivity of the soil in this field (*e.g. Veris machine*)? 3 other? [*Specify:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ] |  |  |
|  Was the information collected above based on--- | . . . . . . . . . . . . . . . .  | 1149 |

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| 14. **Did you have an airplane or satellite provide an image or photograph** **of this field either at the start or during the 2009 growing season?**. . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1151 |

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| 15. **Was a variable rate applicator used on this field for---** |  |  |
| 1152 |
| a. fertilization or lime application?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** |  |
|  |
| (i) [*If YES, ask*---] Did you use a variable rate applicator for--- |  |  |
| 1153 |
| (1) nitrogen applications?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** |  |
| 1154 |
| (2) phosphorus applications?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** |  |
| 1155 |
| (3) potash applications?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** |  |
| 1156 |
| (4) lime applications?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** |  |
| 1157 |
| (5) manure applications?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** |  |
|  |
| b. seeding?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1158 |
| c. pesticide applications?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 1159 |

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| 16. **Was a guidance or parallel swathing system** (*connected to GPS*) **used** **with any machine operation on this field** (*e.g. light bar*)*?*. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  |  |  |
| **YES = 1** | 1150 |

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

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|  | **ACRES** |
| 1. **How many acres in this field were irrigated for the 2009 durum wheat crop?**[*If none, go to* ***Section******H***]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1160 | **.\_\_\_** |
|  |
| 2. **Now, I have some questions about irrigation systems and water used on this field** **for the 2009 durum wheat crop.** |

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| **↓** | **UNIT** | **SYSTEM 1** | **SYSTEM 2** |
| a. What type(s) of irrigation system(s) was (*or were*) used to irrigate this field? [*Show* ***System Type Codes*** *in the Respondent Booklet. Enter****System Type Code*** *for up to two systems covering the most field acres*.]. . . . . . . . . . .  | **SYSTEM****TYPE****CODE** | 1161 | 1175 |
| b. What was the total quantity of water applied to this field duringthe entire growing season? (***Include*** *ALL water used from both on-farm**and off-farm sources*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **INCHES****PER ACRE****OR****TOTAL****ACRE-FEET** | 1162 | 1176 |
| 1163 | 1177 |
|  [*If operator cannot provide item 2b, ask* *(i) & (ii),* *else go to 2c*] |  |  |  |
| (i) What is the **total** number of **hours** this system was used to apply water to this fieldduring the durum wheat growing season?.  | **TOTAL****HOURS** | 1164 | 1178 |
| (ii) How many gallons per minute were applied?. . . . . . . . . . . . . . . . . . .  | **GALLONS****PER MINUTE** | 1165 | 1179 |
| c. What percent of the water used to irrigate this field through this system came from surface water sources?. . . . . . . . . . . . . . . . . . . . . . . . .  | **PERCENT** | 1166 | 1180 |
| d. What was the number of times this field was irrigated during the  durum wheat growing season using this system? (***Include*** *any* *pre-plant irrigation*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **NUMBER OF****IRRIGATIONS** | 1167 | 1181 |
| e. Was the pump type---[*If more than one pump in the system, enter* *type for pump closest to water source.*] | 1. **TURBINE?**
2. **SUBMERSIBLE?**
3. **CENTRIFUGAL?**
4. **BOOSTER?**
5. **SIPHON?**

99 **NO PUMP?**[*If code 99, go to item* *j*.]  | **CODE** | 1168 | 1182 |
| f. What was the average pumping rate?. . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **GALLONS****PER MINUTE** | 1169 | 1183 |
| g. [*If item 2a = code 1-9* (PRESSURE SYSTEM)*, ask---*] What was the system operating pressure?. . . . . . . . . . . . . . . . . . . . . . . . .  | **POUNDS****PER****SQUARE INCH** | 1170 | 1184 |
| h. What was the primary motor type used to pump the water? | 1. **DIESEL**
2. **GASOLINE**
3. **LP GAS**
4. **NATURAL GAS**
5. **ELECTRICITY**
6. **SOLAR POWER**
 | **CODE** | 1171 | 1185 |
| i. What was the average motor size?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **HORSEPOWER** | 1172 | 1186 |
| j. [*If NO PUMP was used* (item 2e = 99)*, ask*---] What was the average flow rate?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **GALLONS****PER MINUTE** | 1173 | 1187 |
| k. How many other acres on this operation were irrigated using this field’s irrigation system during the 2009 growing season?(***Exclude*** *this field*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **ACRES** | 1174 | **.\_\_\_\_** | 1188 | **.\_\_\_\_** |

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|  | **DOLLARS & CENTS****PER ACRE** | **OR** | **TOTAL DOLLARS** |
| 3. **What was the cost of the fuel or electricity used to irrigate this field?**. . . . . .  | 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 |
|  | **PERCENT** |
| a. What percent of the water used on this field was purchased?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 1192 |
| b. What was the total cost for the water purchased for this field during the 2009 growing season? (***Include*** *landlord and contractor* *costs and ditch maintenance costs for this field*.). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **DOLLARS & CENTS** **PER ACRE OR** | **TOTAL DOLLARS** |
| 1193 | **.\_\_\_ \_\_\_** |  | 1194 |

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| 5. [*If SIPHON TUBES were used* (item 2a = 10 or 11)*, ask*---] **What would be the total cost to replace all the siphon tubes used on this field?**. . . . . . . . . . . . . . . .  | **TOTAL DOLLARS** |
| 1201 |
| 6. [*If POLY PIPE system was used* (item 2a = 14) *ask*---] **What was the total amount spent for poly pipe used on this field during the** **2009 growing season?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **TOTAL DOLLARS** |
| 1202 |

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| 7. [*If GATED PIPE system was used* (item 2a = 15 or 16), *ask*---] | **INCHES** |
| a. What was the average diameter of gated pipe used to irrigate this field?. . . . . . . . . . . . . . . . . . . . . . . .  | 1203 |
|  | **FEET** |
| b. 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 |
|  | **CODE** |
| d. Did the well(s) have a water meter or other flow measurement device?. . . . . . . . . . . . . . . . .  | **YES = 1** | 1209 |
| e. Were other fields irrigated using water pumped from well(s) that supplied water to the selected field? [ ]  **YES** – [*Enter code 1 and continue*] [ ]  **NO** – [*Go to item 9*]. . . . . . . . . . . . . . . . . . . . . . .  | **CODE** |
| 1210 |
| f. Excludingthis field,how many other acres on this operation were irrigated using the same well(s) during the 2009 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 item 10*] |
|  | **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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|  | **RUN-OFF CODES**1 retained at the end of the field?2 reused to irrigate on the farm?3 collected in evaporation ponds on the farm?4 drained from the farm?5 there is no run-off |  | **CODE** |
| 10. **Is the run-off from this field---** | . . . . . . . . . . . . . . . . . . .  | 1214 |
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| **H** | **MANAGEMENT** | **H** |

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| 1. **In response to higher or more volatile fuel prices during the 2009 crop year** **for durum wheat, did you---** |  |
| a. reduce the number of field operations such as tillage, cultivation, or nutrient and pesticide applications on this field (*i.e., compared to what you would have* *otherwise applied*)? . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . **YES = 1** | **CODE** |
| 1220 |
|  |  |  |
| b. reduce the amount of irrigation water on this field (*i.e., compared to what you* *would have otherwise applied*)?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .**YES = 1** | 1222 |
|  |  |  |
| c. change other production practices on this field? [*If yes, specify:* ] . . . . **YES = 1** | 1223 |
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| 2. **In response to higher or more volatile fertilizer prices during the 2009 crop year** **for durum wheat, did you---** | **CODE** |
| a. reduce the application rate of commercial nitrogen fertilizer on this field (*i.e., compared to what you would have otherwise applied*)? . . . . . . . . . . . . . . . . . . . . . . . . . . . **YES = 1** | 1224 |
| (i) [*If YES, ask*---] By what percent did you reduce the amount of commercial nitrogen fertilizer applied for 2009?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **PERCENT** |
| 1225 |
|  |  |  |
| b. change the type of commercial nitrogen fertilizer products applied on this field (*i.e., compared to what you would have otherwise applied*)? [*e.g*. *less anhydrous ammonia and more UAN*] . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . **YES = 1** | **CODE** |
| 1226 |
|  |  |  |
| c. increase the application rate of manure or other organic fertilizers on this field (*i.e., compared to what you would have otherwise applied*)? . . . . . . . . . . . . . . . . . . . . . . . . . . . **YES = 1** | 1227 |
| d. manage fertilizer more closely, with such practices as soil testing, split applications, variable rate applications, or soil incorporation on this field (*i.e., compared to what* *you would have otherwise done*)? . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . **YES = 1** |  |
| 1228 |

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| 3. **Was this field irrigated in 2008 and in 2009?** [ ]  **YES** – [*Continue*] [ ]  **NO** – [*Go to* ***Conclusion***] |
| 4. **Did you alter production practices in 2009 due specifically to reduced availability** **of water supplies for irrigation on this field?**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  |  | **CODE** |
| **YES = 1** | 1221 |
| [*If YES, continue*; *else go to* ***Conclusion***]a. Did you shift to wheat production on this field in 2009 due to reduced availability of water supplies?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  |  |  |
| **YES = 1** | 1229 |
| b. Did you reduce the water applied to this field in 2009 due to reduced availability of water supplies?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  |  |  |
| **YES = 1** | 1230 |

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| **CONCLUSION** |

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| **LOCATION OF SELECTED FIELD** |
| 1. **I need to locate the selected field of durum wheat** **on this map.** | **COUNTY NAME** |  **OFFICE USE****COUNTY FIPS CODE** |
|  **What county is the selected durum wheat field in?**. . .  |  |  | 0010 |
|  |  |  |  |
|  **Field description**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  |  |
| **FOR STATES WITH GPS UNITS ONLY** |  | **LATITUDE** |  | **LONGITUDE** |
|  **Field location**. . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **N** | 0054 | **\_\_\_ \_\_\_. \_\_\_ \_\_\_. \_\_\_ \_\_\_** | **W** | 0055 | **\_\_\_ \_\_\_ \_\_\_. \_\_\_ \_\_\_. \_\_\_ \_\_\_** |
|  |  |  |  *d d m m s s* |  |  |  *d d d m m s s* |

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| 2. [**ENUMERATOR ACTION:** *Mark map to indicate where the selected durum wheat field is located*.  *Be sure the “X” marked on map is in the county identified above*.] |

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| 3. **We will need additional information to complete this study. We will contact you in February** **or March 2010 to collect it. I’ll call you then to set up a time that is good for you.** |
|  | **CODE** |
| 4. **Would you like to receive a free copy of the results of this survey in the mail?**(Results will also be available on the Internet at http://www.nass.usda.gov/ **&** http://www.ers.usda.gov/.). . . . . . . . . .  | **YES** = **1** | 0099 |
|  |  | **HH MM** |
| 5. **ENDING TIME** [*MILITARY*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | 0005\_\_ \_\_ \_\_ \_\_ |
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| **RECORDS USE** |
| 6. [*Did respondent use farm/ranch records to report---*] | **CODE** |
| a. [***fertilizer*** *data*?]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0011 |
| b. [***pesticide*** *data?*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0012 |
| c. [*majority of this* ***expense*** *data*?]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **YES = 1** | 0013 |
|  | **NUMBER** |
| **SUPPLEMENTS USED** | **FERTILIZER****APPLICATIONS** | 0041 |
| 7. [*Record the total number of each type of supplement* *used to complete this interview.*]. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | **PESTICIDE****APPLICATIONS** | 0042 |
|  | **FIELD****OPERATIONS** | 0043 |
|  |
| Reported by:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Telephone: (\_\_\_\_\_\_)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| **Response** | **Respondent** | **Mode** | **Enum** | **Eval.** | **Date** | **Optional** |
|  |  |  |  |  | **MM DD YY** |  |
|  1-Comp 2-R 3-Inac | 9901 |  1- Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Other | 9902 |  2-Tel 3-Face-to-Face | 9903 | 0098 | 0100 | 9910**\_\_\_ \_\_\_ \_\_\_ \_\_\_ 09** | 0002 | 0003 |
| S/E Name |