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| **2009 AGRICULTURAL RESOURCE** |
| **MANAGEMENT SURVEY** |
| **Phase II** |
| **RESPONDENT BOOKLET** |
| **for** |

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|  | **Version 31 (WINTER WHEAT PPCR)** |
|  | **Version 32 (DURUM WHEAT PPCR)** |
|  | **Version 33 (SPRING WHEAT PPCR)** |

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| *Production Practices and Costs Report (PPCR)* |
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| According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0535-0218. The time required to complete this information collection is estimated to average 65 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. |

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| **Section B, item 12c**  **REASONS FOR RESISTANT SEED VARIETY** | | | |
|  | 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:*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ] |  |  |

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| **Section B, item 27a**  **FEDERAL CROP INSURANCE COVERAGE** | | | | |
|  | 1 **Basic Catastrophic Insurance** (*Federal CAT*) bought for a flat fee and protects  against crop loss greater than 50% of average yield, at 55% of the price. | | |  |
|  | 2 **Buy-up Above Basic Federal CAT** for higher levels of yield and price protection  (*such as 65% of yield and 100% Price, multi peril crop insurance*). | | |  |
|  | 3 **Revenue Insurance** include Income Protection (IP), Crop Revenue Coverage  (CRC), and Revenue Assurance (RA). | | |  |
|  | 4 **Organic Plan Insurance** includes:   * 1. certified organic acreage,   2. transitional acreage being converted to certified organic, and   3. buffer zone acreage. | | |  |
|  | 5 **Other Federal Crop Insurance** (*Group Risk Plan, Adjusted Gross Revenue,*  *Group Risk Income Protection, etc*.). | | |  |
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| **Section C, Column 6 & Section D, Column 9** | | |
| **FERTILIZER/PESTICIDE**  **APPLICATION METHODS** | | |
|  | 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 (***Section D*** *only*) |  |

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| **Section C, item 4** | **Common Fertilizers and Their Percent Analysis** | | | | | |
| [Enumerator Note: *If Respondent cannot report the formulation for Section C, item 4, use the formulations below.*] | | | | | | |
|  | | **Percent Active Ingredients** | | | | |
| **Name** | | **Form** | **N** | **P2O5** | **K2O** | **S** |
| Ammonia | | D/L | 80 | --- | --- | --- |
| Ammoniated superphosphate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 12-17 | 22-35 | --- | --- |
| Ammonium metaphosphate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 12 | 51 | --- | --- |
| Ammonium nitrate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 32-34 | --- | --- | --- |
| Ammonium phosphate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 11-18 | 46-48 | --- | --- |
| Ammonium phosphate nitrate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 27-30 | 10-15 | --- | --- |
| Ammonium phosphate sulfate (APS). . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 13-16 | 20 | --- | 15 |
| Ammonium polyphosphate (APP). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | L | 10-11 | 34-37 | --- | --- |
| Ammonium polysulfide (Ammonium Sulfate). . . . . . . . . . . . . . . . . . . . . . . | | L | 20-21 | --- | --- | 24 |
| Ammonium sulfate nitrate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 20-30 | --- | --- | 5 |
| Ammonium thiosulfate solution. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | L | 12 | --- | --- | 26 |
| Anhydrous ammonia. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | L/G | 82 | --- | --- | --- |
| Aqua ammonia (Ammonium Hydroxide). . . . . . . . . . . . . . . . . . . . . . . . . . | | L | 16-25 | --- | --- | --- |
| Bone meal. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 0-2 | 10-20 | --- | --- |
| Calcium ammonium nitrate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 15-16 | --- | --- | --- |
| Diammonium phosphate sulfur. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 15-16 | 39-41 | --- | --- |
| Diammonium phosphate (DAP). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 16-21 | 46-53 | --- | --- |
| Elemental sulfur. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | --- | --- | --- | 52-100 |
| Greensand. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | --- | 1 | 6 | --- |
| Magnesium sulfate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | --- | --- | --- | 13 |
| Monoammonium phosphate (MAP). . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 11-13 | 48-62 | --- | --- |
| Natralene. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D/L | 40 | --- | --- | --- |
| Nitrogen solutions. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | L | 7-58 | --- | --- | --- |
| Nitric phosphate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 12-17 | 22-35 | --- | --- |
| Phosphate rock. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | --- | 2-35 | --- | --- |
| Phosphoric acid. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | L | --- | 2-76 | --- | --- |
| Potassium carbonate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | --- | --- | 34-48 | --- |
| Potassium chloride (Muriate of potash). . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | --- | --- | 60-62 | --- |
| Potassium magnesium sulfate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | --- | --- | 22 | 23 |
| Potassium metaphosphate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | --- | 55-57 | 37-38 | --- |
| Potassium nitrate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 13 | --- | 44 | --- |
| Potassium orthophosphate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | --- | 30-60 | 30-50 | --- |
| Potassium polyphosphate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | L | --- | 40-60 | 22-48 | --- |
| Potassium sodium nitrate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 15 | --- | 14-15 | --- |
| Potassium solutions. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | L | --- | --- | 13-15 | --- |
| Potassium sulfate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | --- | --- | 50-53 | 16 |
| Sodium nitrate (Nitrate of Soda). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 15-16 | --- | --- | --- |
| Sulfuric acid. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | L | --- | --- | --- | 20-26 |
| Super phosphate (22% & under). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | --- | 16-22 | --- | 11 |
| Super phosphate (over 22%). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | --- | 23-39 | --- | 11 |
| Triple super phosphate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | --- | 40-54 | --- | 11 |
| Urea. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 45-46 | --- | --- | --- |
| Urea, sulfure coated. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 36-38 | --- | --- | 13-16 |
| Urea ammonium phosphate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 25-58 | 28-35 | --- | --- |
| Urea ammonium nitrate (UAN). . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | L | 28-32 | --- | --- | --- |
| Urea phosphate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | D | 17 | 44 | --- | --- |

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| **Section D, item 1**  **CHEMICALS and PESTICIDES for Wheat, All**  **F** = Fungicide; **H** = Herbicide; **I** = Insecticide; **M** = Misc. Other; **MD** = Defoliant/Dessicant; **MG** = Growth Regulator  **AS** = Aqueous Suspension, **D** = Dust, **DF** = Dry flowable, **DG** = Water-Dispersible Granules, **E** or **EC** = Emulsifiable Concentrate,  **ES** = Emulsifiable solution, **F** or **L** = Flowable, **G** or **GR** = Granular, **L** = Liquid, **LV** = Low volatility, **M** or **ME** = Microencapsalted,  **P** = Pellets, **S** = Solution, **SC** = Soluble Concentrate, **SL** = Slurry, **SP** = Soluble powder, **W** or **WP** = Wettable powder,  **WDG** or **WG** = Water-Dispersible Granules, **WSP** = Water-soluble packet | | | | | | | | |
|  | | | | | | | | |
| **D/L** | **Class** | **Code** | **Product Name** |  | **D/L** | **Class** | **Code** | **Product Name** |
|  |  |  |  |  |  |  |  |  |
| L | H | 4377 | 2,4-D Amine 4 (3.80 lbs/g) |  | L | H | 4136 | Banvel (4L) |
| L | H | 4377 | 2,4-D Amine 400 (3.80 lbs/g) |  | L | H | 4617 | Banvel + 2,4-D |
| L | H | 4664 | 2,4-D Amine 6 (5.6 lbs/gal) |  | L | H | 4327 | Banvel SGF (2EC) |
| L | H | 4480 | 2,4-D LV 6 (5.60 lbs/g) |  | L | H | 4808 | Barrage |
| L | H | 4480 | 2,4-D LV 600 (5.60 lbs/g) |  | L | H | 4531 | Barrage HF |
| L | H | 4758 | 2,4-D Amine (3.76lbs/gal) |  | L | H | 4920 | Beyond (Clearfield Crops) |
| L | H | 4562 | 2,4-D Class LV4 (3.80 lbs/g) |  | L | H | 3023 | Bison |
| L | H | 4271 | 2,4-D Lo-V Ester (3.76 lbs/g) |  | L | H | 4963 | Brash |
|  |  |  |  |  | L | H | 4655 | Bromox/MCPA 2 – 2 |
|  |  |  |  |  | L | H | 4153 | Bronate (4EC) |
| L | H | 4892 | Achieve SC |  | L | H | 4856 | Bronate Advanced |
| D | H | 4168 | Affinity BroadSpec Herbicide (25%) |  | L | H | 4216 | Brox-M |
| D | H | 4991 | Affinity Tankmix (40%) |  | L | H | 4884 | Buccaneer Glyphosate |
| L | H | 4351 | Agsco 400 |  | D | H | 4155 | Buckle (G) |
| L | H | 4974 | Agsco B--4 |  | L | H | 4024 | Buctril (2EC) |
| L | H | 4353 | Agsco MXL |  | L | H | 4025 | Buctril (4EC) |
| D | H | 4683 | Aim (40% WDG) |  | L | F | 7534 | Bumper EC (41.8 % Propiconazole) |
| L | H | 4880 | Aim EW |  |  |  |  |  |
| D | H | 4859 | Ally Extra |  |  |  |  |  |
| D | H | 4120 | Ally Extra SG |  | L | H | 4166 | Chiptox (MCPA) |
| D | H | 4123 | Ally XP (60DF) |  | L | H | 4469 | Clarity 4L |
| D | H | 4390 | Amber |  | L | H | 4437 | CleanWave |
| L | H | 4666 | Amine 6 - 2,4-D (6 lbs/g) |  | L | H | 4875 | ClearOut 41 Plus / Gly Star Plus |
| L | H | 4133 | Assert (2.5 lbs/g) |  | L | H | 3083 | Clopyralid + MCPA Ester |
| D | H | 4704 | Assert SG (67%) |  | L | H | 4872 | Cornerstone |
| L | H | 4135 | Avenge |  | L | H | 4894 | Credit |
| L | H | 4428 | Axial |  | L | H | 4892 | Credit Duo |
| L | H | 4436 | Axial XL |  | L | H | 4180 | Curtail (EC) |
| D | H | 4651 | Axiom DF |  | L | H | 4365 | Curtail M (EC) |

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| **D/L** | **Class** | **Code** | **Product Name** |  | **D/L** | **Class** | **Code** | **Product Name** |
|  |  |  |  |  |  |  |  |  |
| L | H | 4898 | Dagger |  | D | H | 4125 | Glean (75DF) |
| L | H | 4895 | Dicamba DMA Salt |  | L | H | 4882 | Gly Star Plus |
| L | H | 4866 | Dicamba SG |  | L | H | 4580 | Glyfos X-TRA |
| L | I | 1212 | Dimate 4E |  | L | H | 4882 | Glyphosate |
| L | I | 1028 | Dimethoate 2.67 EC |  | L | H | 4664 | Gordon's Amine 600 2,4-D (5.60 lbs/g) |
| L | I | 1029 | Dimethoate 400 |  |  |  |  |  |
| L | I | 1029 | Dimethoate 4EC |  |  |  |  |  |
| L | I | 1403 | Dimethoate 57% (5 lb/g) |  | D | H | 4141 | Harmony Extra TotalSol SG |
| L | H | 4820 | Discover (22.3%) |  | D | H | 4139 | Harmony Extra XP DF |
| L | H | 4938 | Discover NG (6.35%) |  | D | H | 4137 | Harmony GT XP (75%) |
| L | H | 4664 | DMA 6 Weed Killer (5.60 lbs/g) |  | D | H | 4142 | Harmony TotalSol SG (50%) |
| L | H | 4970 | Double Up B+D |  | L | F | 7522 | Headline |
|  |  |  |  |  | L | H | 4221 | Hi-Dep |
|  |  |  |  |  | L | H | 4065 | Hoelon 3EC |
| D | H | 4855 | Everest/Pre-pare 70% WDG |  |  |  |  |  |
| D | H | 3021 | Express with TotalSol Soluble  Granules 50% |  |  |  |  |  |
| D | H | 4205 | Express XP (DF) 75% |  | L | I | 1707 | Karate Z |
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| L | H | 3017 | Far-Go |  | L | I | 1069 | Lorsban 4E |
| D | H | 4211 | Far-Go Granular (10%) |  | L | I | 1071 | Lorsban Advanced |
| D | H | 4214 | Finesse (DF) |  | L | H | 4826 | LV 400 2,4-D Weed Killer |
| D | H | 4105 | Finesse Grass & Broadleaf |  |  |  |  |  |
| L | F | 7254 | Folicur |  |  |  |  |  |
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| **D/L** | **Class** | **Code** | **Product Name** |  | **D/L** | **Class** | **Code** | **Product Name** |
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| L | H | 4018 | Maestro Advanced |  | D | H | 4569 | Peak |
| L | H | 4959 | Maestro D |  | L | F | 7668 | Proline 480 SC |
| D | H | 4791 | Maverick |  | L | F | 7528 | Propiconazole EC (41.8%) |
| L | H | 3080 | MCP Amine |  | L | F | 7667 | Prosaro 421 SC |
| L | H | 4292 | MCP Amine 4 (52%) |  | L | H | 4581 | Puma 1EC (11.53%) |
| L | H | 3081 | MCP Ester |  | L | H | 3085 | Puma Ultra (8.79%) |
| L | H | 3082 | MCPA - 6 Amine |  |  |  |  |  |
| L | H | 4356 | MCPA Amine (3.7 SC) |  |  |  |  |  |
| L | H | 4487 | MCPA LV Ester |  | L | F | 7575 | Quilt |
| L | H | 4079 | MCPA Sodium Salt |  |  |  |  |  |
| L | H | 4513 | MCPE Phenoxy |  |  |  |  |  |
| L | H | 4966 | Mextrol EC |  | L | H | 4604 | Raptor (Clearfield Crops) |
|  |  |  |  |  | D | H | 4750 | Rave |
| L | H | 3088 | NXTcp (Multi-pack--tank mix  with Starane-code 3087) |  | L  L | H  H | 4903  4262 | Rhino  Rhonox MCPA Ester (EC) |
|  |  |  |  |  | D | H | 4425 | Rimfire |
|  |  |  |  |  | L | H | 4700 | Roundup Custom |
| D | H | 4397 | Olympus 70% Water Dispersible |  | L | H | 4093 | Roundup Original |
| D | H | 4195 | Olympus Flex |  | L | H | 4315 | Roundup Original II |
| D | H | 4951 | Osprey |  | L | H | 4561 | Roundup Ultra |
| L | H | 4940 | Outlaw |  | L | H | 4763 | Roundup Ultra Max |
|  |  |  |  |  | L | H | 4418 | RT 3 Herbicide |
|  |  |  |  |  | L | H | 4857 | RT Master |
|  |  |  |  |  | L | H | 4407 | RT Master II |
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| **D/L** | **Class** | **Code** | **Product Name** |  | **D/L** | **Class** | **Code** | **Product Name** |
|  |  |  |  |  |  |  |  |  |
| L | H | 4265 | Salvo |  | L | H | 3084 | Teamwork + MCPE |
| L | H | 4095 | Sencor 4 Flowable |  | L | F | 7076 | Tilt |
| D | H | 4096 | Sencor DF (75%) |  | L | H | 4848 | Touchdown (28.3%) |
| L | H | 4265 | Salvo |  | L | H | 4983 | Treflan 4L |
| L | H | 4095 | Sencor 4 Flowable |  | D | H | 4111 | Treflan TR-10 |
| D | H | 4096 | Sencor DF (75%) |  | L | H | 3084 | Teamwork + MCPE |
| L | H | 3087 | Starane (Multi-pack--tank mix  with NXTcp-code 3088) |  |  |  |  |  |
| L | H | 4868 | Starane + Saber |  |  |  |  |  |
| L | H | 4819 | Starane + Salvo |  | L | I | 1553 | Warrior With Zeon Technology |
| L | H | 4863 | Starane + Sword |  | L | H | 4995 | WECO MAX |
| L | H | 4628 | Starane EC |  | L | H | 4003 | Weedar 64 |
| L | H | 3089 | Starane NXT |  | L | H | 4295 | Weedmaster |
| L | H | 3086 | Starane Ultra |  | L | H | 4945 | Widematch |
| L  L | H  F | 4802  7513 | Sterling  Stratego |  | L  L | H  H | 3091  3090 | WideMatch CM (Co-Pack--tank mix  with WideMatch S-3090)  WideMatch S (Co-Pack--tank mix  with WideMatch CM-3091) |
|  |  |  |  |  | L | H | 4971 | Wildcard Xtra |
|  |  |  |  |  | L | H | 3098 | Wolverine |
|  |  |  |  |  | L | H | 3097 | Wolverine PowerPak |
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|  | **Conversion Factors for Liquid and Dry Products**  **Liquid Products Dry Products**  1 Gallon = 4 Quarts 1 Pound = 16 Dry Ounces  1 Quart = 2 Pints 1 Ounce = 28.3 Grams  1 Pint = 16 Fluid Ounces 1 Pound = 453 Grams  2 Cups = 1 Pint |  |

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| **Section E, item 25**  **PEST MANAGEMENT INFORMATION SOURCES** | | | |
|  | 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 | |  |

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| **Section F, item 3, columns 3 & 4**  **MACHINERY and IMPLEMENT CODES** | | | | |
| **PLOWS and DISKS** |  | **MISCELLANEOUS TILLAGE** |  | **HARROWS (DRAGS)** |
| 01 Chisel Plow (Big Ox)  02 Coulter Plow  (Coulter Chisel, Soil  Saver, Soil Conserver) 03 Deep Ripper  (Knife, Bed knife, Slide) 04 Disk Plow   **Moldboard** 05 Regular 06 Two Way 07 Stubble-mulch  (Noble, Sweeps, Hoeme  Plow, Muckeroy Plow) 08 Subsoiler  (Chisel, Ripper, V-ripper) 09 Disk-chisel  (Mulch Tiller)   **Offset Disk** 10 Heavy Disk 11 Light Disk 12 One-way Disk  (Disk Tiller) 13 Single Disk   **Tandem Disk** 14 Plowing 15 Regular 16 Paraplow |  | 61 Land-all, Do-all, Mix-n-till, Till-all  (Disk, Shovels, Reel & Spikes) 62 Mulch Treader, Picker,   Treader, Skew 63 Roto-tiller 64 Roterra (Roto-spike, Lely) 65 Sand-fighter 66 Soil Finisher  (Finishing Tool, Mulch Finisher  Tri-tiller, Task Master) 67 Root Crown Puller 68 Stalk Puller/Chopper |  | 30 Heavy Harrow 31 Field Conditioner  (Scratcher,  Seed Bed Conditioner,  Soil Conditioner,   Ground Hog) 32 Finishing  (Harrogator, Spiral, Roller,  Knives, Shanks, Pegs,  Smoother) 33 Flex-tine Tooth  (Coil Tine) 34 Multi-weeder  (Cultivator & Harrow) 35 Rail, Pipe, Log, Plank 36 Rod Weeder 37 Roller (Culti-mulcher,  Pulvi-mulcher, Crumbler,  Packer-mulcher,  Packer & Shanks) 38 Spike Tooth 39 Spring Tooth 40 Powered Spike Tooth Harrow |
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|  | **BEDDERS-SHAPERS** |  |
|  | 41 Bedder (Shaper)  (Bedshaper, Crowder) 42 Bed Shaper  **Disk** 43 Hipper 44 Row 45 Float 46 Lister (Middle-buster) 47 Rorovator-bedder 48 Seedbed Roller  (Flat Roller) 49 Sub-soil Bedder  (Ripper-hipper) 50 Discovator |  |
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| **PACKERS** |  |  | **CULTIVATORS** |
| 51 Culti-packer  (Pulverizer, Crow-foot,  Serrated, Ring, Spiral)  **Roller-packer** 52 Attachment 53 Smooth & Flat |  |  | 21 Field Cultivator  (Regular Digger,  Triple K, Danish Tined,  Swedish Tined,   Incorporated, S-tine,  Cultivator,   Vibra-shank Harrow,  Lilliston Tiller 22 Furrow-out 23 Rotary Hoe  (Crust Buster)   **Row** 24 Disk Sweep, Shovel 25 Rolling, Rotary  **Field Cultivator** 26 Heavy Duty  (Duckfoot Cultivator) 27 Marker 28 Fallow Master |
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|  | **FERTILIZER APPLICATORS** |  |
|  | 71 Aerial (Airplane) 72 Attachment to implement 73 Manure Spreader 74 Self-propelled 75 Truck Spreader  **Tractor Mounted** 76 Anhydrous 77 Dry 78 Liquid  **Trailer Mounted** 79 Anhydrous 80 Dry 81 Liquid |  |
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| **PLANTERS** |  |  |
| 111 Bedder-shaper Planter 112 Lister-bedder 113 No-till, Minimum Till,  (Ripper Planter) 114 Conventional,  Regular (Tye, Flex) 115 Air Delivery/vacuum 116 Ridge till |  |  |
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| **CHEMICAL APPLICATIONS** |  | **LAND FORMING EQUIPMENT** |  | **HAULING EQUIPMENT** |
| 91 Aerial (Airplane) 92 Attachment to implement 93 Largest Self propelled  (or Large Truck) 94 Motocycle/atv Sprayer 95 Small Self-propelled  (Spra-coupe, Hi-cycle) 96 Small Truck (Skid Mounted) 97 Tractor Mounted 98 Trailer Mounted | 171 Backhoe 172 Disk Border Maker 173 Ditch Closer 174 Ditcher 175 Levee Plow Disk 176 Quarter Drain Machine 177 Rear Mounted Blade 178 Corrugator  (Furrow Dicer, Dammar Dicer,  Dicer) 180 Land Plane Leveler  (Water Leveler) 181 Laser Planer, Laser Leveler 182 Gate Setter 183 Bull Dozer | **Bale wagon/mover**  142 Bale wagon (PTO) 143 Bale Wagon (Self-propelled) 144 Bale Loader 158 Stack Mover 160 Front End Loader 161 Round Bale Mover 195 Hay wagon  224 Forklift  **Trailers** 194 General Purpose Wagon or Cart 195 Hay Wagon 208 Gravity Wagon 209 Grain Cart with Auger 221 Forage Wagon 222 Dump Wagon 229 Bin Trailer  228 Other Trailers  **Trucks** 301 Single Axle 302 Tandem Axle 303 Tri Axle 304 Semi 305 Other Trucks |
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| **DRILLS and SEEDERS** |
| 101 Aerial Seeding 102 Broadcast Seeder   **Drill** 103 Air Delivery 104 Lister Disk 105 No-till or minimum till 106 Plain 107 Press, Disk or Hoe |  |
| ***ENUMERATOR NOTE:***  *For Land Forming Equipment codes 171 – 183, enter Total Hours Operated in column 10.* |
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| **MOWERS and BALERS** | ***ENUMERATOR NOTE:*** *For Hauling Equipment codes above, enter Total Hours Operated in  column 10.* |
|  |  | 141 Amish Harvester  **Baler** 145 Motor Mounted 146 PTO (Large) 147 PTO (Small) 148 Self-propelled  159 Stacker, Automatic  **Mowers** 149 Mower-chopper-Rotary 150 Conditioner/PTO 151 Self-propelled 152 Drum disk 153 Flail 154 Sickle  **Rake** 155 Dump 156 Side Delivery 157 Wheel  162 Hay Tedder 234 Brush Rake Sweeper |
| **HARVESTING EQUIPMENT** |
| **Small Grains/Row Crops Combine**  121 Hillside 122 Self propelled, 2wd 123 Self-propelled, 4wd 124 Track 125 PTO/motor Mounted   **Windrower-swather** 126 (Grain/hay)PTO 127 (Grain/hay) self-propelled  133 Corn Picker 134 Hand Harvesting |
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| **OTHER IMPLEMENTS** |
|  | 191 Burn Buggy 192 Chaff/straw Saver 193 Electric-discharge Weed Killer 196 Off-field Thresher 197 Rock Picker 198 Rock Windower or Rake 199 Rodent (Gopher) Killer 200 Roller Groover 201 Rubber-wheeled Weed Puller 202 Flail Shredder 203 Rotary Shredder 204 Silage Harvester 205 Stalk Shredder, Stalk Cutter 206 Swath Roller 207 Tractor or Truck–No attachments 223 Flame Thrower |
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| PTO Power Take-off  WD Wheel Drive |
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| **Section G, item 2**  **IRRIGATION TYPE CODES** | |
| **PRESSURE SYSTEMS** | **GRAVITY SYSTEMS** |
| 1. HAND-MOVE | 10 SIPHON TUBE from unlined ditches |
| 1. SOLID or PERMANENT SET | 11 SIPHON TUBE from lined ditches |
| 1. SIDE ROLL or WHEEL LINE | 12 PORTAL SYSTEM from unlined ditches |
| 1. CENTER PIVOT or LINEAR MOVE  with sprinklers on main line | 13 PORTAL SYSTEM from lined ditches |
| 1. CENTER PIVOT or LINEAR MOVE  with sprinklers below main line,  but more than 2 feet above ground | 14 ANY POLY PIPE SYSTEM |
| 6 CENTER PIVOT or LINEAR MOVE  with sprinklers less than 2 feet above ground | 15 GATED PIPE (not poly pipe) |
| 7 BIG GUN | 16 IMPROVED GATED PIPE  (surge flow or cablegation not poly pipe) |
| 8 LOW FLOW IRRIGATION  (drip, trickle or micro sprinkler) | 17 SUBIRRIGATION |
| 9 OTHER - SPECIFY | 18 OPEN DISCHARGE FROM WELL or PUMP |
|  | 19 OTHER - SPECIFY |
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| **Section G, item 10**  **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 runoff. |  |