|  |
| --- |
|  |
|  |
|  |
|  |
|  |
| **2011 AGRICULTURAL RESOURCE** |
| **MANAGEMENT SURVEY** |
| **Phase II** |
| **RESPONDENT BOOKLET** |
| **for** |

|  |  |
| --- | --- |
|  | **Version 71 (WINTER WHEAT PPR)** |
|  | **Version 72 (DURUM WHEAT PPR)** |
|  | **Version 73 (SPRING WHEAT PPR)** |

|  |
| --- |
|  |
| *Production Practices Report (PPR)* |
|  |
|  |

|  |
| --- |
| 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 45 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. |

|  |
| --- |
|  |
| **FERTILIZER/PESTICIDE APPLICATION METHODS****Section C, Column 6 & Section D, Column 9** |
|  | 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*) |  |

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

|  |
| --- |
| **Section D, Item 1****CHEMICALS and PESTICIDES for Wheat, All****Class Definitions:** **F** = Fungicide; **H** = Herbicide; **I** = Insecticide; **M** = Misc. Other; **MD** = Defoliant/Dessicant; **MG** = Growth Regulator;  **MS** = Soil Fumigant**Common Material Form Terms and Corresponding D/L Classification:** **Dry:** **D** = Dust, **DF** = Dry Flowable, **DG** = Water-Dispersible Granules, **G** or **GR** = Granular, **M** or **ME** = Microencapsalted, **P** = Pellets, **SP** = Soluble Powder, **W** or **WP** = Wettable Powder, **WDG** or **WG** = Water-Dispersible Granules, **WSP** = Water-Soluble Packet **Liquid:** **AS** = Aqueous Suspension, **E** or **EC** = Emulsifiable Concentrate, **ES** = Emulsifiable Solution, **F** or **L** = Flowable, **L** = Liquid, **LV** = Low Volatility, **S** = Solution, **SC** = Soluble Concentrate, **SL** = Slurry |
|  |
| **D/L** | **Class** | **Code** | **Product Name** |  | **D/L** | **Class** | **Code** | **Product Name** |
|  |  |  |  |  |  |  |  |  |
| L | H | 4758 | 2,4-D Amine |  | L | H | 4808 | Barrage |
| L | H | 4377 | 2,4-D Amine 4 (3.80 lbs/g) |  | L | H | 4531 | Barrage HF |
| L | H | 4664 | 2,4-D Amine 6 |  | L | I | 1246 | Baythroid 2 (EC) |
| L | H | 4271 | 2,4-D Lo-V Ester |  | L | I | 2051 | Baythroid XL |
| L | H | 4562 | 2,4-D LV4 (3.80 lbs/g) |  | L | H | 4920 | Beyond (Clearfield Crops) |
| L | H | 4480 | 2,4-D LV6 (5.60 lbs/g) |  | L | H | 3023 | Bison |
|  |  |  |  |  | L | H | 4963 | Brash |
| D | H | 4657 | Achieve 40DG |  | L | H | 3118 | Broclean |
| D | H | 4658 | Achieve 80DG |  | L | H | 4655 | Bromox/MCPA 2-2 |
| L | H | 4892 | Achieve SC |  | L | H | 4153 | Bronate (4EC) |
| D | H | 4168 | Affinity BroadSpec Herbicide |  | L | H | 4856 | Bronate Advanced |
| D | H | 4991 | Affinity Tankmix |  | L | H | 4216 | Brox-M |
| D | H | 4683 | Aim (40% WDG) |  | L | H | 4884 | Buccaneer |
| L | H | 4879 | Aim EC |  | D | H | 4155 | Buckle (G) |
| L | H | 4880 | Aim EW |  | L | H | 4024 | Buctril (2EC) |
| D | H | 4859 | Ally Extra |  | L | H | 4025 | Buctril (4EC) |
| D | H | 4120 | Ally Extra SG |  | L | F | 7534 | Bumper 41.8 EC |
| D | H | 4123 | Ally XP (60DF) |  |  |  |  |  |
| D | H | 4390 | Amber |  | L | F | 7687 | Caramba |
| L | H | 4666 | Amine 6 (6 lbs/g) |  | L | MG | 9098 | Cerone |
| L | H | 4428 | Axial (for wheat and barley) |  | L | H | 4469 | Clarity |
| L | H | 3095 | Axial TBC |  | L | H | 4437 | CleanWave |
| L | H | 4436 | Axial XL |  | L | I | 2274 | Cobalt |
| D | H | 4651 | Axiom DF |  | L | H | 4872 | Cornerstone |
|  |  |  |  |  | L | H | 3111 | Credit (Mixed Salt) |
| L | H | 4136 | Banvel (4L) |  | L | H | 4894 | Credit (Riverdale/Nufarm) |
| L | H | 4617 | Banvel + 2,4-D |  | L | H | 4284 | Credit Duo |
| L | H | 4327 | Banvel SGF (2EC) |  | L | H | 4982 | Credit Duo Extra |

|  |
| --- |
| **Class Definitions:** **F** = Fungicide; **H** = Herbicide; **I** = Insecticide; **M** = Misc. Other; **MD** = Defoliant/Dessicant; **MG** = Growth Regulator;  **MS** = Soil Fumigant**Common Material Form Terms and Corresponding D/L Classification:** **Dry:** **D** = Dust, **DF** = Dry Flowable, **DG** = Water-Dispersible Granules, **G** or **GR** = Granular, **M** or **ME** = Microencapsalted, **P** = Pellets, **SP** = Soluble Powder, **W** or **WP** = Wettable Powder, **WDG** or **WG** = Water-Dispersible Granules, **WSP** = Water-Soluble Packet **Liquid:** **AS** = Aqueous Suspension, **E** or **EC** = Emulsifiable Concentrate, **ES** = Emulsifiable Solution, **F** or **L** = Flowable, **L** = Liquid, **LV** = Low Volatility, **S** = Solution, **SC** = Soluble Concentrate, **SL** = Slurry |
|  |
| **D/L** | **Class** | **Code** | **Product Name** |  | **D/L** | **Class** | **Code** | **Product Name** |
|  |  |  |  |  |  |  |  |  |
| L | H | 3227 | Credit Xtreme |  | D | H | 4125 | Glean FC (75DF) |
| L | H | 4180 | Curtail (EC) |  | L | H | 4882 | Gly Star Plus |
| L | H | 4365 | Curtail M (EC) |  | L | H | 4580 | Glyfos X-TRA |
|  |  |  |  |  | L | H | 3102 | GoldSky |
| L | H | 4898 | Dagger |  | L | I | 1968 | Govern 4E |
| L | H | 4895 | Dicamba DMA Salt |  |  |  |  |  |
| L | H | 4866 | Dicamba SC |  | D | H | 4141 | Harmony Extra TotalSol SG |
| L | I | 1212 | Dimate 4EC |  | D | H | 4139 | Harmony Extra XP |
| L | I | 1028 | Dimethoate 2.67 EC |  | D | H | 4137 | Harmony GT XP |
| L | I | 1267 | Dimethoate 400 |  | D | H | 4142 | Harmony SG TotalSol 50% |
| L | I | 1029 | Dimethoate 4EC |  | L | F | 7522 | Headline |
| L | I | 1403 | Dimethoate 5 lb/g |  | L | H | 4221 | Hi-Dep (a.k.a. Orchard Master) |
| L | H | 4820 | Discover |  | L | H | 4952 | HM-2010 |
| L | H | 4938 | Discover NG |  | L | H | 3093 | Huskie |
| L | H | 4970 | Double Up B+D |  |  |  |  |  |
| L | H | 4198 | Durango |  | L | I | 1707 | Karate Z |
|  |  |  |  |  | D | F | 7262 | Kocide 2000 |
| L | H | 4434 | E-99 Herbicide |  |  |  |  |  |
| L | H | 3100 | EH 1330 Herbicide |  | L | I | 1069 | Lorsban 4E |
| D | H | 4855 | Everest 70% |  | L | I | 1071 | Lorsban Advanced |
| D | H | 3021 | Express w/ TotalSol Soluble Granules |  | L | H | 4826 | LV 400 2,4-D Weed Killer |
| D | H | 4205 | Express XP (DF) |  |  |  |  |  |
|  |  |  |  |  | L | H | 4018 | Maestro Advanced |
| L | H | 3017 | Far-Go |  | L | H | 4959 | Maestro D |
| D | H | 4211 | Far-Go Granular (10%) |  | D | H | 4791 | Maverick |
| D | H | 4105 | Finesse |  | L | H | 3080 | MCP Amine |
| D | H | 4214 | Finesse |  | L | H | 4292 | MCP Amine 4 |
| L | F | 7254 | Folicur 3.6 F |  | L | H | 3081 | MCP Ester |
|  |  |  |  |  |  |  |  |  |

|  |
| --- |
| **Class Definitions:** **F** = Fungicide; **H** = Herbicide; **I** = Insecticide; **M** = Misc. Other; **MD** = Defoliant/Dessicant; **MG** = Growth Regulator;  **MS** = Soil Fumigant**Common Material Form Terms and Corresponding D/L Classification:** **Dry:** **D** = Dust, **DF** = Dry Flowable, **DG** = Water-Dispersible Granules, **G** or **GR** = Granular, **M** or **ME** = Microencapsalted, **P** = Pellets, **SP** = Soluble Powder, **W** or **WP** = Wettable Powder, **WDG** or **WG** = Water-Dispersible Granules, **WSP** = Water-Soluble Packet **Liquid:** **AS** = Aqueous Suspension, **E** or **EC** = Emulsifiable Concentrate, **ES** = Emulsifiable Solution, **F** or **L** = Flowable, **L** = Liquid, **LV** = Low Volatility, **S** = Solution, **SC** = Soluble Concentrate, **SL** = Slurry |
|  |
| **D/L** | **Class** | **Code** | **Product Name** |  | **D/L** | **Class** | **Code** | **Product Name** |
|  |  |  |  |  |  |  |  |  |
| L | H | 4079 | MCPA (2EC) Sodium Salt (Weedar) |  | L | H | 4581 | Puma 1EC (Bronate Pro #1) |
| L | H | 3082 | MCPA 6 Amine |  | L | H | 3085 | Puma Ultra |
| L | H | 4356 | MCPA Amine (3.7 SC) |  |  |  |  |  |
| L | H | 4487 | MCPA Ester (Solve) |  | L | F | 7291 | Quadris |
| L | H | 4513 | MCPE Phenoxy |  | L | F | 7575 | Quilt |
| L | H | 4966 | Mextrol EC |  |  |  |  |  |
| D | H | 3121 | Mighty Met 60 DF |  | L | H | 3220 | Rage D-Tech |
| L | I | 1363 | Mustang |  | L | H | 4814 | Range Star |
| L | I | 1895 | Mustang Max |  | D | H | 4750 | Rave |
|  |  |  |  |  | L | H | 4903 | Rhino |
| L | H | 3088 | NXTcp (Multi-pack with Starane) |  | L | H | 4078 | Rhomene MCPA Amine |
|  |  |  |  |  | L | H | 4262 | Rhonox (EC) |
| D | H | 4397 | Olympus 70%G |  | D | H | 4425 | Rimfire (for wheat) |
| D | H | 4195 | Olympus Flex (for wheat) |  | L | H | 4700 | Roundup Custom |
| L | F | 7689 | Onset 3.06L |  | L | H | 4093 | Roundup Original |
| L | H | 4138 | Oracle Dicamba Agricultural Herbicide |  | L | H | 4315 | Roundup Original II |
| L | H | 3094 | Orion |  | L | H | 4939 | Roundup Original Max |
| D | H | 4951 | Osprey |  | L | H | 4407 | Roundup Power Max |
| L | H | 4940 | Outlaw (a.k.a. Bushwhacker) |  | L | H | 4789 | Roundup Pro |
|  |  |  |  |  | L | H | 3164 | Roundup Pro Max |
| D | H | 4569 | Peak (WDG) |  | L | H | 4561 | Roundup Ultra |
| L | I | 1164 | Penncap-M |  | L | H | 4763 | Roundup Ultra Max |
| D | H | 3115 | Plotter |  | L | H | 4881 | Roundup Weather Max |
| L | H | 3099 | PowerFlex |  | L | H | 4418 | RT 3 Herbicide |
| L | F | 7668 | Proline 480 SC |  | L | H | 4857 | RT Master |
| L | F | 7528 | Propiconazole EC |  |  |  |  |  |
| L | F | 7667 | Prosaro 421 SC |  | L | H | 4265 | Salvo |
| L | H | 4942 | Prowl H2O |  | L | H | 4095 | Sencor 4 |
|  |  |  |  |  |  |  |  |  |

|  |
| --- |
| **Class Definitions:** **F** = Fungicide; **H** = Herbicide; **I** = Insecticide; **M** = Misc. Other; **MD** = Defoliant/Dessicant; **MG** = Growth Regulator;  **MS** = Soil Fumigant**Common Material Form Terms and Corresponding D/L Classification:** **Dry:** **D** = Dust, **DF** = Dry Flowable, **DG** = Water-Dispersible Granules, **G** or **GR** = Granular, **M** or **ME** = Microencapsalted, **P** = Pellets, **SP** = Soluble Powder, **W** or **WP** = Wettable Powder, **WDG** or **WG** = Water-Dispersible Granules, **WSP** = Water-Soluble Packet **Liquid:** **AS** = Aqueous Suspension, **E** or **EC** = Emulsifiable Concentrate, **ES** = Emulsifiable Solution, **F** or **L** = Flowable, **L** = Liquid, **LV** = Low Volatility, **S** = Solution, **SC** = Soluble Concentrate, **SL** = Slurry |
|  |
| **D/L** | **Class** | **Code** | **Product Name** |  | **D/L** | **Class** | **Code** | **Product Name** |
|  |  |  |  |  |  |  |  |  |
| D | H | 4096 | Sencor DF (75%) |  | L | H | 4848 | Touchdown Herbicide |
| L | I | 1108 | Silencer |  | L | H | 4983 | Treflan 4L |
| L | H | 4883 | Silhouette Herbicide |  | L | H | 3033 | Treflan E.C. |
| L | H | 3087 | Starane (Multi-pack with NXTcp) |  | D | H | 4111 | Treflan TR-10 |
| L | H | 4868 | Starane + Saber |  | L | H | 4867 | Turret |
| L | H | 4819 | Starane + Salvo |  |  |  |  |  |
| L | H | 4863 | Starane + Sword |  | L | I | 2180 | Warrior II with Zeon |
| L | H | 4628 | Starane EC |  | L | I | 1435 | Warrior with Zeon |
| L | H | 3089 | Starane NXT |  | L | H | 4995 | WECO MAX |
| L | H | 3086 | Starane Ultra |  | L | H | 4003 | Weedar 64 |
| L | H | 4802 | Sterling |  | L | H | 4295 | Weedmaster |
| L | H | 3232 | Sterling Blue |  | L | H | 4945 | WideMatch |
| L | F | 7513 | Stratego |  | L | H | 3091 | WideMatch CM |
| L | H | 4426 | StrikeOut Extra |  | L | H | 3090 | WideMatch S |
|  |  |  |  |  | L | H | 4971 | WildCard Xtra |
| L | F | 7076 | Tilt |  | L | H | 3015 | Wolfpack Advanced |
| L | I | 1980 | Tombstone |  | L | H | 3098 | Wolverine |
| L | H | 4281 | Tordon 22K (2EC) |  | L | H | 3097 | Wolverine PowerPak |
| L | H | 4408 | Touchdown CT |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **Conversion Factors for Liquid and Dry Products** **Liquid Products Dry Products**1 Gallon = 4 Quarts 1 Pound = 16 Dry Ounces1 Quart = 2 Pints 1 Ounce = 28.3 Grams1 Pint = 16 Fluid Ounces 1 Pound = 453 Grams2 Cups = 1 Pint |  |
|  |