

2009 AGRICULTURAL RESOURCE MANAGEMENT SURVEY

Phase II

RESPONDENT BOOKLET

for

Version 31 (WINTER WHEAT PPCR)

Version 32 (DURUM WHEAT PPCR)

Version 33 (SPRING WHEAT PPCR)

Production Practices and Costs Report (PPCR)

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.

Section B, item 12c

REASONS FOR RESISTANT SEED VARIETY

- | |
|---|
| <ol style="list-style-type: none"> 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? [<i>Specify:</i> _____] |
|---|

Section B, item 27a

FEDERAL CROP INSURANCE COVERAGE

	1 Basic Catastrophic Insurance (<i>Federal CAT</i>) 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 (<i>such as 65% of yield and 100% Price, multi peril crop insurance</i>).	
	3 Revenue Insurance include Income Protection (IP), Crop Revenue Coverage (CRC), and Revenue Assurance (RA).	
	4 Organic Plan Insurance includes: <ol style="list-style-type: none"> 1) certified organic acreage, 2) transitional acreage being converted to certified organic, and 3) buffer zone acreage. 	
	5 Other Federal Crop Insurance (<i>Group Risk Plan, Adjusted Gross Revenue, Group Risk Income Protection, etc.</i>).	

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**)

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.*]

Name	Form	Percent Active Ingredients			
		N	P ₂ O ₅	K ₂ O	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	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, sulfur 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

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	Agasco 400	D	H	4155	Buckle (G)
L	H	4974	Agasco B--4	L	H	4024	Buctril (2EC)
L	H	4353	Agasco 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	Glyphos 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-prepare 70% WDG				
D	H	3021	Express with TotalSol Soluble Granules 50%				
D	H	4205	Express XP (DF) 75%	L	I	1707	Karate Z
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
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	H	4903	Rhino
				L	H	4262	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	H	4802	Sterling	L	H	3091	WideMatch CM (Co-Pack--tank mix with WideMatch S-3090)
L	F	7513	Stratego	L	H	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

Conversion Factors for Liquid and Dry Products

Liquid Products

1 Gallon = 4 Quarts

1 Quart = 2 Pints

1 Pint = 16 Fluid Ounces

2 Cups = 1 Pint

Dry Products

1 Pound = 16 Dry Ounces

1 Ounce = 28.3 Grams

1 Pound = 453 Grams

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

Section F, item 3, columns 3 & 4

MACHINERY and IMPLEMENT CODES**PLOWS and DISKS**

- 01 Chisel Plow (Big Ox)
 02 Coulter Plow
 (Coulter Chisel, Soil Saver, Soil Conservor)
 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

MISCELLANEOUS TILLAGE

- 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

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

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

HARROWS (DRAGS)

- 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

PACKERS

- 51 Culti-packer
 (Pulverizer, Crow-foot, Serrated, Ring, Spiral)

Roller-packer

- 52 Attachment
 53 Smooth & Flat

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

CULTIVATORS

- 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

CHEMICAL APPLICATIONS

- 91 Aerial (Airplane)
- 92 Attachment to implement
- 93 Largest Self propelled
(or Large Truck)
- 94 Motorcycle/atv Sprayer
- 95 Small Self-propelled
(Spra-coupe, Hi-cycle)
- 96 Small Truck (Skid Mounted)
- 97 Tractor Mounted
- 98 Trailer Mounted

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

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

PTO Power Take-off

WD Wheel Drive

LAND FORMING EQUIPMENT

- 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

ENUMERATOR NOTE:

*For Land Forming Equipment codes
171 – 183, enter Total Hours Operated
in column 10.*

MOWERS and BALERS

- 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

HAULING EQUIPMENT**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

ENUMERATOR NOTE:

*For Hauling Equipment codes above,
enter Total Hours Operated in
column 10.*

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

Section G, item 2
IRRIGATION TYPE CODES

PRESSURE SYSTEMS	GRAVITY SYSTEMS
1 HAND-MOVE	10 SIPHON TUBE from unlined ditches
2 SOLID or PERMANENT SET	11 SIPHON TUBE from lined ditches
3 SIDE ROLL or WHEEL LINE	12 PORTAL SYSTEM from unlined ditches
4 CENTER PIVOT or LINEAR MOVE with sprinklers on main line	13 PORTAL SYSTEM from lined ditches
5 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

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. |