

# **AGRICULTURAL RESOURCE MANAGEMENT SURVEY**

## **ORGANIC CORN PRODUCTION PRACTICES AND COSTS REPORT for 2010**

### **RESPONDENT BOOKLET**

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 34a**  
**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.*).

**Section C, Item 4, Column 2**  
**NITROGEN CODES**

- 1 Anhydrous ammonia
- 2 Nitrogen solution (UAN)
- 3 Urea
- 4 Ammonium nitrate
- 5 Sodium nitrate
- 6 Ammonia sulfate
- 7 Potassium nitrate, magnesium nitrate, and calcium nitrate
- 8 Other nitrogen fertilizer material  
[specify: \_\_\_\_\_ ]

**Section C, Item 4, Column 6**  
**and Section D, Item 2, Column 9**  
**APPLICATION CODES**

- 1 Broadcast, ground without
- 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, Column 2**

**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 <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> 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 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, 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, Column 2  
CHEMICALS and PESTICIDES for Organic Corn**

**Class Definitions:** **F** = Fungicide; **H** = Herbicide; **I** = Insecticide; **M** = Misc. Other; **MD** = Defoliant/Dessicant; **MG** = Growth Regulator

**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** = Microencapsulated, **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

<b>D/L</b>	<b>Class</b>	<b>Code</b>	<b>Product Name</b>	<b>D/L</b>	<b>Class</b>	<b>Code</b>	<b>Product Name</b>
L	I	1729	Azatin XL	L	I	1555	Gemstar LC
				L	I	1942	GF-120 NF Naturalyte Fruit Fly Bait
L	F	7634	Ballad Plus				
D	I	1812	Biobit HP WP	L	I	1059	Javelin
D	I	1488	Biobit HP WP II	D	I	1142	Javelin WG
D	F	7217	Blue Shield 50 WP	D	I	1154	Javelin WP
D	F	7051	Champion WP	D	F	7262	Kocide 2000
L	I	1282	Condor	D	F	7607	Kocide 3000
D	I	1670	Condor WP				
L	I	2152	Condor XL				
D	I	1168	Conserve Fire Ant Bait	D	I	1671	Lepinox WDG
D	I	1173	Conserve Professional Fire Ant Bait				
L	I	1186	Conserve SC				
D	I	1477	Crymax WDG	L	I	1756	Naturalis L
				L	F	7321	Neem Oil 70 %
				L	I	2156	Neemazad 1% EC
D	I	1026	Dipel WP				
D	I	1023	Dipel 2X (WP)				
D	I	1516	Dipel DF	L	I	1957	PyGanic EC 1.4 II
L	I	1025	Dipel ES	L	I	1958	PyGanic EC 5.0 II
D	I	2153	Dipel WDG				
				L	F	7639	Serenade ASO
L	I	1719	Ecozin 3%EC	D	F	7588	Serenade MAX
D	I	1900	Entrust	D	F	7484	Serenade WP
				L	I	1183	Spod-X LC

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D/L	Class	Code	Product Name	D/L	Class	Code	Product Name
L	MG	9398	Stimplex	L	I	2154	Xentari AS
D	F	7183	Sulfur (92%)	D	I	1685	Xentari Biological Insecticide (DF)
L	I	1454	SuperNeem 4.5-B	D	I	1377	Xentari WDG
L	I	1167	That Flowable Sulfur (52%)	L	F	7665	Yellow Jacket Flowable Sulfur
L	I	7103	Top Cop with Sulfur	D	F	7033	Yellow Jacket Wettable Sulfur II 90%

**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 28**

**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 ( <i>DTN, Internet, World Wide Web, etc.</i> )       |
| 8  | Employee Pest Advisor  |
| 9  | Other – [Specify: _____ ]  |
| 10 | None – Operator used no <b>outside</b> information source                            |

Section F, Item 3, Columns 3 & 4  
**MACHINERY and IMPLEMENT CODES**

<b>PLOWS and DISKS</b>	
01	Chisel Plow (Big Ox)
02	Coulter Plow (Coulter Chisel, Soil Saver, Soil Conservor)
03	Deep Ripper (Knife, Bed knife, Slide)
04	Disk Plow
<b>Moldboard</b>	
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)
<b>Offset Disk</b>	
10	Heavy Disk
11	Light Disk
12	One-way Disk (Disk Tiller)
13	Single Disk
<b>Tandem Disk</b>	
14	Plowing
15	Regular
16	Paraplow

<b>MISCELLANEOUS TILLAGE</b>	
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

<b>HARROWS (DRAGS)</b>	
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

<b>BEDDERS-SHAPERS</b>	
41	Bedder (Shaper) (Bedshaper, Crowder)
42	Bed Shaper
<b>Disk</b>	
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

<b>PACKERS</b>	
51	Culti-packer (Pulverizer, Crow-foot, Serrated, Ring, Spiral)
<b>Roller-packer</b>	
52	Attachment
53	Smooth & Flat

<b>CULTIVATORS</b>	
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)
<b>Row</b>	
24	Disk Sweep, Shovel
25	Rolling, Rotary
<b>Field Cultivator</b>	
26	Heavy Duty (Duckfoot Cultivator)
27	Marker
28	Fallow Master

<b>PLANTERS</b>	
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

<b>FERTILIZER APPLICATORS</b>	
71	Aerial (Airplane)
72	Attachment to implement
73	Manure Spreader
74	Self-propelled
75	Truck Spreader
<b>Tractor Mounted</b>	
76	Anhydrous
77	Dry
78	Liquid
<b>Trailer Mounted</b>	
79	Anhydrous
80	Dry
81	Liquid

**CHEMICAL APPLICATIONS**

- 91 Aerial (Airplane)
- 92 Attachment to implement
- 93 Largest Self propelled  
(or Large Truck)
- 94 Motorcycle/atv Sprayer
- 95 Small Self-propelled  
(Spray-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**

<b>PRESSURE SYSTEMS</b>	<b>GRAVITY SYSTEMS</b>
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 run-off                        |