

**AGRICULTURAL RESOURCE  
MANAGEMENT SURVEY  
OATS  
PRODUCTION PRACTICES and  
COSTS REPORT  
for 2005  
RESPONDENT BOOKLET**

## FEDERAL CROP INSURANCE COVERAGE

Section B, item 33.....

- 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 **Other Federal Crop Insurance** (*Group Risk Plan, Adjusted Gross Revenue, Group Risk Income Protection. etc.*)

## 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/sidedressed 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 <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
Mixed fertilizer	D	2	6	12	---
		3	9	18	---
		3	10	30	---
		5	10	15	---
		5	10	30	---
		5	15	30	---
		8	24	24	---
		9	18	9	---
		10	34	---	---
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	---	---

**CHEMICALS and PESTICIDES for Oats, 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, **SL** = Slurry, **SP** = Soluble powder, **W** or **WP** = Wettable powder,  
**WDG** or **WG** = Water-Dispersible Granules, **WSP** = Water-soluble packet

D/L	Class	Code	Project Name	D/L	Class	Code	Project Name
L	H	4758	2,4-D Amine	L	H	4906	Mad Dog Glyphosate (Original)/Credit
L	H	4351	2,4-D/Agasco 400EC	L	I	1157	Malathion ULV 9.33 Lb (95%)
L	H	4377	2,4-D/Amine 4	L	H	4293	MCP 4 Ester
L	H	4664	2,4-D/Amine 6	L	H	4292	MCP Amine 4
L	H	4203	2,4-D/Esteron 6E	L	H	4878	MCPA Amine
L	H	4291	2,4-D/Formula 40	L	H	4589	MCPA/Weed Rhap A4
L	H	4480	2,4-D/LV 6	L	I	1363	Mustang
L	H	4265	2,4-D/Salvo	L	H	4138	Oracle Dicamba Agricultural Herbicide
L	H	4004	2,4-D/Weedar 64A	L	I	1407	Parathion 4lb.
L	H	4298	2,4D/Weedone LV4	L	H	4581	Puma 1EC
L	H	4299	2,4-D/Weedone LV6	L	H	4261	Rhomene (4L)
D	H	4859	Ally Extra	L	H	4093	Roundup Origina
L	H	4041	Atrazine 4L	L	H	4315	Roundup Original RT
D	H	4651	Axiom DF	L	H	4751	Roundup Super Concentrate
L	H	4136	Banvel (4L)	L	H	4561	Roundup Ultra
L	H	4617	Banvel + 2,4-D	D	H	4762	Roundup Ultra Dry
L	H	4655	Bromox/MCPA 2-2	L	H	4675	Saber Herbicide
L	H	4864	Bronate	D	I	1172	Sevin 50W
L	H	4153	Bronate (4EC)	L	MG	9062	Sevin XLR Plus (4E)
L	H	4856	Bronate Advanced	L	F	7076	Tilt
L	H	4024	Buctril (2EC)	L	H	4281	Tordon 22K (2EC)
L	H	4025	Buctril 4EC	L	I	1435	Warrior (1EC)
L	H	4160	Butyrac 200 (2EC)	L	H	4295	Weedmaster
L	H	4469	Clarity 4L				
L	H	4365	Curtail M (EC)				
L	MD	9031	Cyclone (2EC)				
L	I	1029	Dimethoate 4EC				
L	H	4820	Discover				
D	H	4205	Express (DF)				
D	H	4139	Harmony Extra (DF)				
L	H	4818	LV 4 2,4-D Ester				
L	H	4826	LV 400 2,4-D Weed Killer				

**Conversion Factors for Liquid and Dry Products**

**Liquid Prducts**

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

## PEST MANAGEMENT INFORMATION SOURCES

Section E, item 25.....

- 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

## MACHINERY and IMPLEMENT CODES

### PLOWS and DISKS

- 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

### 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  
(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

*For implement codes 171 – 183,  
enter Total Hours Operated in the  
column labeled Total Acres Covered.  
Total Acres covered is not meaningful  
for these implements.*

### MOWERS and BALERS

- 141 Amish Harvester

#### Bale Wagon

- 142 PTO
- 143 Self-propelled
- 144 Bale Loader

#### Baler

- 145 Motor Mounted
- 146 PTO (Large)
- 147 PTO (Small)
- 148 Self-propelled
- 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
- 158 Stack Mower
- 159 Stacker, Automatic
- 160 Front End Loader

### 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

### HAULING EQUIPMENT

#### Trailers

- 194 General Purpose Wagon or Cart
- 195 Hay Wagon
- 208 Gravity Wagon
- 209 Grain Cart with Auger
- 221 Forage Wagon
- 222 Dump Wagon
- 220 Other Trailers

#### Trucks

- 301 Single Axle
- 302 Tandem Axle
- 303 Tri Axle
- 304 Semi
- 305 Other Trucks

## SECTION G, 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

### RUN-OFF CODES

Section G, item 10.....

- |   |   |
|---|---|
| 1 | Retained at the end of the field?           |
| 2 | Re-used to irrigate on the farm?            |
| 3 | Collected in evaporation ponds on the farm? |
| 4 | Drained from the farm?                      |
| 5 | There is no runoff.                         |