

AGRICULTURAL RESOURCE MANAGEMENT SURVEY

**BARLEY PRODUCTION PRACTICES
AND COSTS REPORT**

for 2011

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.

FEDERAL CROP INSURANCE COVERAGE

Section B, Item 23a

- 1 **Federal CAT** (*Basic Catastrophic Insurance*) 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.*).

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.*]

Name	Form	Percent Primary Nutrients			
		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 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 Barley**

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	4428	Axial (for wheat and barley)
L	H	4377	2,4-D Amine 4 (3.80 lbs/g)	L	H	4436	Axial XL
L	H	4664	2,4-D Amine 6				
L	H	4271	2,4-D Lo-V Ester	L	H	4136	Banvel (4L)
L	H	4562	2,4-D LV4 (3.80 lbs/g)	L	H	4617	Banvel + 2,4-D
L	H	4480	2,4-D LV6 (5.60 lbs/g)	L	H	4327	Banvel SGF (2EC)
				L	H	4808	Barrage
D	H	4339	Accent Herbicide	L	H	4531	Barrage HF
D	H	4657	Achieve 40DG	L	I	1246	Baythroid 2 (EC)
D	H	4658	Achieve 80DG	L	I	2051	Baythroid XL
L	H	4892	Achieve SC	L	H	3023	Bison
D	H	4168	Affinity BroadSpec Herbicide	L	H	4574	Bromox 2E
D	H	4991	Affinity Tankmix	L	H	4655	Bromox/MCPA 2-2
L	H	4351	Agsco 400 (EC)	L	H	4153	Bronate (4EC)
L	H	4353	Agsco MXL	L	H	4856	Bronate Advanced
D	H	4683	Aim (40% WDG)	L	H	4216	Brox-M
L	H	4879	Aim EC	L	H	4884	Buccaneer
L	H	4880	Aim EW	D	H	4155	Buckle (G)
L	H	4443	Alachlor 4 EC	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)	L	H	4160	Butyrac 200
D	H	4390	Amber				
L	H	4666	Amine 6 (6 lbs/g)	L	MG	9098	Cerone
L	H	4133	Assert	L	H	4166	Chiptox MCPA Sodium (2L)
D	H	4704	Assert SG	L	H	4469	Clarity
L	H	4135	Avenge (2L)	L	H	4444	Class 40A

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D/L	Class	Code	Product Name	D/L	Class	Code	Product Name
L	H	4875	ClearOut 41 Plus	D	H	4125	Glean FC (75DF)
L	H	4872	Cornerstone	L	H	4882	Gly Star Plus
L	H	4180	Curtail (EC)	L	H	4580	Glyfos X-TRA
L	H	4365	Curtail M (EC)	L	H	4891	Glyphogan Plus
				L	H	4840	Glyphomax
L	H	4001	Dacamine 4D	L	H	4838	Glyphosate Original
L	H	4898	Dagger				
L	I	1533	Demand CS	D	H	4141	Harmony Extra TotalSol SG
L	H	4866	Dicamba SC	D	H	4139	Harmony Extra XP
L	H	4820	Discover	D	H	4137	Harmony GT XP
L	I	1034	Di-Syston 8	D	H	4142	Harmony SG TotalSol 50%
D	H	4046	Diuron 80W	L	F	7522	Headline
L	H	4187	DMA 4	L	H	4221	Hi-Dep (aka Orchard Master)
L	H	4970	Double Up B+D	L	H	4065	Hoelon 3EC
				L	H	3093	Huskie
L	H	4844	Engame				
D	I	1900	Entrust	L	H	4326	Landmaster II
L	MG	9208	Ethephon 2	L	I	1069	Lorsban 4E
D	H	4205	Express XP (DF)	L	H	4869	Low Vol 6 Ester Weed Killer
				L	H	4826	LV 400 2,4-D Weed Killer
L	H	4210	Fallow Master				
L	H	4057	Far-Go	L	I	1236	Malathion 5 EC (57%)
D	H	4211	Far-Go Granular (10%)	L	I	1228	Malathion 8E
D	H	4214	Finesse	L	I	1094	Malathion 95% Spray
L	F	7254	Folicur 3.6 F	D	F	7251	Mancozeb 80% WP
L	H	4291	Formula 40	L	H	4293	MCP 4 Ester
L	I	1054	Furadan 4F	L	H	4292	MCP Amine 4

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D/L	Class	Code	Product Name	D/L	Class	Code	Product Name
L	H	3081	MCP Ester	L	H	4881	Roundup Weather Max
L	H	4865	Medal II	L	H	4418	RT 3 Herbicide
				L	H	4857	RT Master
L	H	4138	Oracle Dicamba Agricultural Herbicide				
L	H	3094	Orion	L	H	4675	Saber
				L	H	4265	Salvo
D	H	4569	Peak (WDG)	D	H	4391	Savage
L	I	1164	Penncap-M	L	I	1132	Sevin 4F
L	F	7668	Proline 480 SC	L	I	1019	Sevin SL
L	F	7528	Propiconazole EC	L	H	4453	Solve 2,4-D
L	H	4581	Puma 1EC (Bronate Pro #1)	L	H	4487	Solve MCPA Ester
				D	H	4705	Spartan
L	F	7291	Quadris	L	H	4868	Starane + Saber
L	F	7575	Quilt	L	H	4819	Starane + Salvo
				L	H	4863	Starane + Sword
L	H	4328	Rattler	L	H	4628	Starane EC
D	H	4750	Rave	L	H	3089	Starane NXT
L	H	4903	Rhino	L	H	3086	Starane Ultra
L	H	4262	Rhonox (EC)	L	H	4802	Sterling
L	H	4700	Roundup Custom	L	H	3232	Sterling Blue
L	H	4093	Roundup Original	L	F	7513	Stratego
L	MD	9172	Roundup Original				
L	H	4315	Roundup Original II	L	H	4280	Tiller EC
L	H	4939	Roundup Original Max	L	F	7076	Tilt
L	H	4407	Roundup Power Max	L	H	4281	Tordon 22K (2EC)
L	H	4789	Roundup Pro	L	H	4463	Tordon RTU
L	H	3164	Roundup Pro Max	L	H	4848	Touchdown Herbicide
L	H	4561	Roundup Ultra	D	H	4111	Treflan TR-10
L	H	4763	Roundup Ultra Max	L	H	4450	Trifluralin 4EC

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D/L	Class	Code	Product Name	D/L	Class	Code	Product Name
L	H	4815	Trust 4EC	L	H	4295	Weedmaster
L	H	4867	Turret	L	H	4296	Weedone 638
				L	H	4298	Weedone LV4 Solventless
D	H	4911	Valuron 60DF	L	H	4299	Weedone LV6
				L	H	4811	Weedone LV6 IOE
L	I	2180	Warrior II with Zeon	L	H	4899	Weed-Rhap MCPA Ester
L	I	1435	Warrior with Zeon	L	H	4945	WideMatch
L	H	4204	Weed Killer 4D	L	H	3091	WideMatch CM
L	H	4307	Weed Rhap A-4D	L	H	3090	WideMatch S
L	H	4306	Weed Rhap LV-4D	L	H	3098	Wolverine
L	H	4003	Weedar 64				
L	H	4536	Weedestroy AM-40	D	H	4471	X-TRA (Cheyenne Container #1)

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

PEST MANAGEMENT INFORMATION SOURCES

Section E, Item 24

- 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

Section F, Item 3, Columns 3 & 4

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

IRRIGATION TYPE CODES

Section G, Item 2

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

