



Agricultural Resource Management Survey – Phase II

Rice Respondent Booklet

2013



Dear producer:

Every year USDA's National Agricultural Statistics Service (NASS) conducts the Agricultural Resource Management Survey (ARMS). ARMS is the U.S. Department of Agriculture's primary source of information on the production practices, resource use and economic well-being of America's farm households.

The ARMS gives U.S. farmers like you the opportunity to set the record straight about the issues that affect you and to ensure that policies and programs are based on data, not perceptions or opinions. The information you and other farmers across the nation provide helps USDA determine the financial situations on U.S. farms and ranches and will serve as a baseline for several federal assistance programs.

Information requested in this survey is used to prepare estimates on costs and returns. Under Title 7 of the U.S. Code and CIPSEA (Public Law 107-347), facts about your operation are **kept confidential** and used only for statistical purposes in combination with similar reports from other producers. Response is **voluntary**. You may skip any question(s) you prefer not to answer.

NASS safeguards the privacy of all respondents, ensuring that no individual respondent or operation can be identified. Be assured that your responses to ARMS will be kept **completely confidential**, as required by federal law.

Thank you for investing in the future of U.S. agriculture and ensuring that decisions affecting you, your family, your business and your community are based on the facts, straight from the source.

Sincerely,

Hubert Hamer
Chair, Agricultural Statistics Board
U.S. Department of Agriculture
National Agricultural Statistics Service

1400 Independence Avenue, S.W., Washington, DC 20250
(800) 727-9540 www.nass.usda.gov

USDA is an equal opportunity provider and employer.

FEDERAL CROP INSURANCE COVERAGE

Section B, Item 30a

- 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 Soybeans

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** = 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

Form	Class	Code	Product Name	EPA #	Form	Class	Code	Product Name	EPA #
L	H	40834	2,4-D AMINE	1386--43	L	F	70490	BUMPER 41.8 EC	66222--42
L	H	40479	2,4-D AMINE 4	42750--19	L	H	40263	BUTYRAC 175	42750--39
L	H	40752	2,4-D AMINE 6	42750--21	L	H	40264	BUTYRAC 200	42750--38
L	H	40377	2,4-D LO-V ESTER	1386--60	L	H	41129	CADET	279--3338
L	H	40657	2,4-D LV4	1381--102	D	H	40265	CANOPY	352--444
L	H	40390	2,4-D L.V. 4 ESTER	228--139	D	H	40503	CANOPY EX	352--635
L	H	40580	2,4-D LV6	1381--101	D	H	40773	CANOPY SP	352--596
L	F	70709	ABOUND	100--1098	D	H	40698	CANOPY XL	352--589
L	H	40948	AIM EC	279--3241	L	H	40985	CINCH	352-625
L	H	40949	AIM EW	279--3242	L	H	40570	CLARITY	7969--137
D	I	10973	AMBUSH 25W	5481--502	D	H	40274	CLASSIC	352--436
D	F	70479	AMISTAR	100--1164	L	H	40946	CLEAROUT 41 PLUS	42750--176
L	I	10968	AMMO 2.5 EC	279--3027	L	H	40276	COBRA	59639--34
D	H	40771	AUTHORITY 75 DF	279--3148	L	H	40673	COMMAND 3ME	279--3158
L	H	41021	ARROW 2EC	66222--60	L	H	40941	CORNERSTONE	1381--191
L	I	10004	ASANA XL	352--515	L	H	40520	CORNERSTONE PLUS	1381--192
L	H	40470	ASSURE II	352--541	L	H	40960	CREDIT	228--364
L	H	40130	ATRAZINE 4L	1386--647	L	H	40053	EXTRA CREDIT 5	71368--43
D	H	40693	AUTHORITY	279--3179	L	H	41147	CREDIT XTREME	71368--81
D	H	40738	AXIOM DF	264--766	L	I	10038	DIMETHOATE 2.67 EC	34704--489
L	H	40862	BACKDRAFT	241--407	L	I	50200	DIMETHOATE 400	34704--207
L	H	40632	BARRAGE HF	5905--529	L	I	10041	DIMETHOATE 4EC	19713--231
L	H	40871	BASAGRAN	7969--45	D	I	10214	DIMILIN 25W	400--465
L	I	10336	BAYTHROID 2	264--745	L	I	10745	DIMILIN 2L	400--461
L	H	40951	BUCCANEER	55467--10	D	H	40880	DOMAIN	264--771
L	H	40648	BUCCANEER PLUS	55467--9	L	F	70539	DOMARK 230 ME	80289--7
L	H	40870	BOUNDARY	100--958	L	H	40745	DUAL MAGNUM	100--816
L	H	40458	BOUNDARY 6.5EC	100--1162	L	H	40746	DUAL II MAGNUM	100--818
L	F	70528	BRAVO 720	50534--188	L	H	40747	DUAL II MAGNUM SI	100--829
L	H	40951	BUCCANEER	55467--10	D	H	40829	DUAL IIG MAGNUM	100--910
L	H	40648	BUCCANEER PLUS	55467--9					

**Section D, Item 1
CHEMICALS and PESTICIDES for Soybeans**

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Form	Class	Code	Product Name	EPA #
L	F	70500	ECHO 720	60063--7
D	F	70333	ECHO 90DF	60063--10
L	F	70330	ECHO ZN	60063--4
L	H	40309	ESTERON 6E	62719--8
D	H	40310	EXPRESS	352--509
L	H	40832	EXTREME	241--405
D	H	40983	FIRSTRATE	62719--275
L	H	40633	FLEXSTAR	100--1101
L	H	40541	FRONTIER 6.0	7969--147
L	H	40537	FUSION	100--1059
L	H	40596	FUSILADE DX	100--1070
D	H	40983	FIRSTRATE	62719--275
D	H	41029	GANGSTER	59639--131
L	H	41053	GLY- 4 PLUS	42750--61
L	H	40675	GLYFOS X-TRA	4787--23
L	H	40910	GLYPHOMAX	62719--323
L	H	41063	GLYPHOMAX XRT	62719--517
L	H	40506	GRAMOXONE INTEON	100--1217
D	H	40248	HARMONY EXTRA XP	352--611
D	H	40246	HARMONY GT XP	352--446
D	H	40251	HARMONY SG	352--633
L	F	70549	HEADLINE	7969--186
L	I	10876	INTREPID 2F	62719--442
L	H	41033	INTRRO	524--314

Form	Class	Code	Product Name	EPA #
L	I	10351	KARATE 1EC	100--998
L	I	10739	KARATE WITH ZEON	100--1097
L	I	10097	LANNATE LV	352--384
D	I	10098	LANNATE SP	352--342
L	F	70446	LAREDO EC	62719--412
L	F	70207	LAREDO EW	62719--493
L	I	10099	LARVIN 3.2	264--379
D	I	10509	LARVIN DF	264--530
D	I	10704	LEPINOX WDG	70051--89
L	H	40729	LIBERTY	264--660
L	I	10983	LORSBAN-4E	62719--220
L	F	70711	MERTECT 340-F	100--889
L	H	40528	MIRAGE PLUS	34704--883
D	F	70297	ORIOUS 45 DF	264--749
D	I	10632	ORTHENE 90 WSP	59639--86
D	I	10652	ORTHENE 90S	5481--8974
L	H	40932	OUTLOOK	7969--156
L	H	41062	PARALLEL	66222-87
L	H	41049	POAST	7969--58
L	H	41050	POAST PLUS	7969--88
D	I	10157	POUNCE 25 WP	279--3051
L	H	41151	PREFIX	100-1268
L	H	40655	PROWL 3.3 EC	241--337
L	H	41010	PROWL H20	241-418
L	H	40363	PURSUIT	241--310

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Form	Class	Code	Product Name	EPA #	Form	Class	Code	Product Name	EPA #
L	H	40364	PURSUIT PLUS EC	241--331	L	H	41040	SPARTAN	279-3189
D	H	40733	PYTHON WDG	62719--277	L	H	41146	SPARTAN ADVANCE	279-3334
L	F	70079	QUADRIS OPTI	100--1171	L	H	41016	STALWART C	60063-22
L	F	70525	QUILT	100--1178	L	H	40375	STALWART XTRA	60063-23
L	H	40987	RAPTOR	241--379	L	H	40662	STORM	70506--59
L	H	40365	REFLEX	100--993	L	F	70473	STRATEGO	264--779
L	H	40628	RESOURCE	59639--82	D	H	40606	SYNCHRONY STS	352--599
L	H	40604	REZULT	7969--194	D	H	40466	SYNCHRONY XP	352--648
L	H	41007	ROUNDUP ORIGINAL MAX	524--539	L	H	40507	TARGA	33906--9
L	H	40509	ROUNDUP POWER MAX	524--549	D	I	10190	TEMIK 15G	264--330
L	H	41159	ROUNDUP ULTRA	524-475	L	H	40918	TOUCHDOWN HERBICIDE	100--1117
L	H	41042	ROUNDUP WEATHERMAX	524--537	L	H	40238	TOUCHDOWN TOTAL	100--1169
L	H	40372	SALVO	34704--609	L	H	40534	TOUCHDOWN HITECH	100--1182
L	H	40373	SCEPTER	241--289	L	H	41047	TREFLAN 4L HERBICIDE	34704--853
D	H	40423	SCEPTER 70 DG	241--306	L	H	40550	TRIFLURALIN 4 E.C.	5905--519
L	H	41173	SECTION	1381--204	L	H	40913	ULTRABLAZER	70506--60
L	H	41041	SELECT 2EC	59639--3	D	H	40014	VALOR	59639-99
L	H	40005	SELECT MAX	59639--132	D	H	40940	VALOR WP	59639--98
L	H	40208	SENCOR 4F	264--735	L	H	41137	VERDICT	7969-279
D	H	40209	SENCOR 75DF	264--738	L	I	11167	WARRIOR II WITH ZEON	100--1295
L	H	41025	SEQUENCE	100--1185	L	H	40404	WEEDONE 638	71368--3
L	I	10198	SEVIN 4F	264--349	L	H	40406	WEEDONE LV4	71368--14
D	I	10028	SEVIN 80	264--316	L	H	40407	WEEDONE LV6	71368--6
L	H	41135	SHARPEN	7969-278					

PEST MANAGEMENT INFORMATION SOURCES

Section E, Item 22

- 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 1, 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

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

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

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

