



AGRICULTURAL RESOURCE MANAGEMENT SURVEY
PHASE II
COTTON PRODUCTION PRACTICES and COST REPORT
RESPONDENT BOOKLET



National
Agricultural
Statistics
Service

2015

Dear Producer,

Every year, the U.S. Department of Agriculture's National Agricultural Statistics Service (NASS) conducts the Agricultural Resource Management Survey (ARMS). The survey gathers information on production practices for different commodities each year. In 2015, ARMS focuses on U.S. soybean, wheat, oats, and cotton production and/or cost practices.

The interviewer will ask you to report your nutrient or fertilizer use and your pest management practices. The results of this survey will help agricultural leaders and decision-makers better understand how producers cope with risk, adapt to policy changes, and make decisions about chemical use, new technologies and many other aspects of farming.

Your participation is important. By responding to this survey not only can you help ensure that decisions impacting the production practices and well-being of farms are based on accurate, timely information, you also represent and give voice to thousands of farmers like you across the nation.

As with all our surveys, 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 **confidential**, as required by federal law.

Thank you in advance for investing in the future of U.S. agriculture. You are helping to ensure that decisions affecting you, your family, your business and your community are based on the facts.

Sincerely,

Mark Harris
Chair, Agricultural Statistics Board
U.S. Department of Agriculture
National Agricultural Statistics Service

Enclosures

FEDERAL CROP INSURANCE COVERAGE

Section B, Item 21

100 Acceleron	104 Apron	108 Avicta Complete	112 Gaucho Grande
101 Acceleron I	105 Cruiser	109 Aeris	113 Genero
102 Acceleron FI	106 Cruiser Dynasty	110 Aeris + Trilex Advanced	999 Other
103 Acceleron N	107 Avicta	111 Gaucho	3 Seed was not treated

FEDERAL CROP INSURANCE COVERAGE

Section B, Item 34

- 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 **Yield protection**
- 3 **Yield plus SCO**(supplemental coverage option)
- 4 **Revenue protection**
- 5 **Revenue plus SCO** (supplemental coverage option)
- 6 **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 3

Common Fertilizers and Their Percent Analysis

[Enumerator Note: If Respondent cannot report the formulation for Section C, item 3, 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 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	---	---

CHEMICALS and PESTICIDES for Cotton, All

F = Fungicide; **H** = Herbicide; **I** = Insecticide; **M** = Misc. Other; **MD** = Defoliant/Desiccant; **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** = Microencapsulated,
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

Form	Class	Code	Product Name	EPA #	Form	Class	Code	Product Name	EPA #
L	H	40834	2,4-D Amine	1386-43	L	I	11123	Brigade 2EC	279-3313
L	H	40477	2,4-D Amine 4	2217-2	L	H	40951	Buccaneer	55467-10
L	H	40480	2,4-D Amine 4	62575-1	L	H	40119	Caparol 4L	100-620
L	H	40479	2,4-D Amine 4	42750-19	L	I	11296	Capture 2EC	279-3114
L	H	40478	2,4-D Amine 4	34704-120	D	I	11107	Carbine 50 WG	71512-9
L	H	40752	2,4-D Amine 6	42750-21	L	H	40570	Clarity	7969-137
L	H	40753	2,4-D Amine 6	5905-503	L	H	40673	Command 3ME	279-3158
L	H	40754	2,4-D Amine 6	62575-8	L	H	40942	Cornerstone	524-445
L	H	40751	2,4-D Amine 6	228-242	L	H	40943	Cornerstone	71368-60
L	H	40755	2,4-D Amine 6	62719-2	L	H	40941	Cornerstone	1381-191
L	H	40750	2,4-D Amine 6	2217-668	L	H	40281	Cotoran 4L	66222-32
L	H	40390	2,4-D L.V. 4 Ester (3.84 lbs/g)	228-139	L	H	40282	Cotoran 4L	66222-181
L	H	40582	2,4-D LV6	2217-413	L	H	40122	Cotton-Pro	66222-116
L	H	40580	2,4-D LV6	1381-101	L	H	40123	Cotton-Pro	66222-15
L	H	40583	2,4-D LV6	35935-6	L	I	11134	Couraze Max 4F	264-783
L	H	40581	2,4-D LV6	1386-616	L	H	41046	Credit Duo Extra	71368-36
D	I	10603	Acephate 75 WSP	19713-400	L	H	41045	Credit Duo Extra	71368-25
D	I	10604	Acephate 75 WSP	66330-354	L	MD	90414	DAZE 4SC	66330-334
D	I	10653	Acephate 90SP	70506-2	L	MD	90294	Defol 5	19713-388
D	I	10651	Acephate 90SP	66222-122	L	MD	90014	Defol 6	19713-85
D	I	10652	Acephate 90SP	5481-8974	L	I	10041	Dimethoate 4EC	19713-231
D	I	10972	Acephate 97UP	70506-8	L	H	40154	Diuron 4L	66222-54
L	MS	90483	ADIOS	66330-344	L	H	40155	Diuron 4L	9779-329
D	H	41165	Aim (40% WDG)	279-3194	L	H	40152	Diuron 4L	19713-36
L	H	40948	Aim EC	279-3241	D	H	40694	Diuron 80DF	9779-318
L	H	41032	Alecto 41S	9468-33	D	H	40157	Diuron 80W	19713-274
L	H	40245	Banvel (4L)	7969-131	L	H	40746	Dual II Magnum	100-818
L	I	10968	Battery 2.5 EC	279-3027	L	H	40747	Dual II Magnum SI	100-829
L	I	10336	Baythroid 2 (EC)	264-745	L	H	40745	Dual Magnum	100-816
L	I	10294	Bidrin 8	5481-448	L	I	11274	Endigo ZC	100-1276
L	MD	90426	Boll Buster	34704-856	D	H	41022	Envoke	100-1132
L	MG	90275	Boll'd	66330-250	L	I	10043	Epi-mek 0.15 EC	100-1154
L	MG	90276	Boll'd	9779-349	L	H	40967	ET	71711-7
D	I	10979	Bracket 90	66330-356	L	MD	90391	ET	71711-7
L	I	10391	BRANDT STS HORTICULTURAL OIL	48813-1	L	MG	90199	Ethephon 2	66330-262

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Form	Class	Code	Product Name	EPA #	Form	Class	Code	Product Name	EPA #
L	I	10993	Fanfare 2EC	66222-99	L	MG	90033	Pix Ultra	66330-350
L	MD	90438	Firestorm	82557-1	L	MG	90034	Prep Brand Ethephon	264-418
L	MD	90041	Folex 6EC	5481-504	L	H	41010	Prowl H2O	241-418
L	I	10646	Fyfanon ULV 9.9lbs. (96.5%)	67760-34	L	H	40365	Reflex	100-993
L	MD	90160	Ginstar EC	264-634	L	H	40628	Resource	59639-82
L	H	41023	Gly Star Original	42750-60	L	H	40620	Rifle	34704-861
L	H	40950	Gly Star Plus	34704-866	L	MD	90167	Roundup Original	524-445
L	H	41053	Gly-4 Plus	42750-61	L	H	41162	Roundup Original II	524-454
L	H	40675	Glyfos X-TRA	4787-23	L	H	41007	Roundup Original Max	524-539
L	H	40910	Glyphomax	62719-323	L	H	40509	Roundup PowerMax	524-549
L	H	40506	Gramoxone Inteon	100-1217	L	H	40842	Roundup Ultra Max	524-512
L	I	11131	Holster	34704-875	L	H	40843	Roundup Ultra Max	71995-25
L	I	10876	Intrepid 2F	62719-442	L	H	40372	Salvo	34704-609
D	I	10909	Intruder WSP	8033-24	L	H	41025	Sequence	100-1185
L	I	10351	Karate (1EC)	100-998	L	MG	90488	Setup	66222-136
L	I	10739	Karate Z	100-1097	L	I	11124	Sniper	34704-858
L	M	90482	Klean-Pik 500SC	66222-124	L	I	10390	SPRAY OIL 415	34704-727
L	I	10824	Leverage 2.7	264-770	L	MG	70558	Stance Plant Regulator	264-841
L	I	11281	Macho 4.0 Flowable	42750-140	D	H	40656	Staple	352-576
L	H	40975	Mad Dog Glyphosate	71368-20	L	H	40001	Staple LX	352-613
L	H	40529	Makaze	34704-890	D	H	41017	Suprend	100-1163
L	H	40528	Makaze	34704-883	L	MD	90413	Takedown SC	34704-871
L	MG	90419	Mepex	228-608	L	MS	90011	Telone II	62719-32
L	MG	90420	Mepex	66330-345	D	I	10357	Thimet 15-G	5481-527
L	MG	90430	Mepex Gin Out	228-606	L	I	10978	Tombstone	34704-912
L	MG	90181	Mepichlor 4.2% Liquid	66330-241	L	H	40918	Touchdown Herbicide	100-1117
L	MG	90412	Mepiquat Chloride	66222-133	L	H	40534	Touchdown HiTech	100-1182
L	H	41012	Me-Too-Lachlor	19713-548	L	H	40238	Touchdown Total	100-1169
L	H	40300	MSMA 6 Plus	19713-42	L	H	41047	Treflan 4L	34704-853
L	I	10487	Mustang	279-3126	L	H	40222	Treflan E.C.	62719-97
L	I	10904	Mustang Max	279-3327	L	H	40220	Treflan E.C.	5905-532
L	I	10903	Mustang Max	279-3249	L	H	40223	Treflan E.C.	68156-4
L	I	10388	NARROW RANGE 415 SPRAY OIL	34704-1025	L	H	40716	Treflan HFP	62719-250
L	I	10526	Oberon 2 SC	264-719	D	H	40553	Trifluralin 10G	10163-120
D	I	10149	Orthene 75 S	5481-8971	D	H	40554	Trifluralin 10G	34704-790
D	I	10598	Orthene 75 WSP	59639-89	L	H	40551	Trifluralin 4EC	9779-303
D	I	10632	Orthene 90 WSP	59639-86	L	H	40548	Trifluralin 4EC	42750-32
D	I	10831	Orthene 97	5481-8978	L	H	40550	Trifluralin 4EC	5905-519
L	MG	90392	Pentia	7969-191	L	H	40547	Trifluralin 4EC	34704-792
L	MG	90099	Pix Concentrate	66330-346	L	H	40544	Trifluralin 4EC	19713-254
D	MG	90191	Pix DF	66330-349	L	H	40292	Triflurex HFP	66222-46
L	MG	90297	Pix Plus	66330-351	L	H	40887	Trust 4EC	1381-146

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Form Class Code	Product Name	EPA #	Form Class Code	Product Name	EPA #
D H 40940	Valor WP	59639-98	L H 41113	Warrant (Mon 63410)	524-591
L H 40052	Vision (aka ALB 40)	42750-98	L H 40096	Weedar 64	71368-1
L I 10389	VOLCK OIL SPRAY	239-16	L I 11127	WRANGLER	34704-931
L I 10337	Vydate C-LV	352-532	D I 10967	Zeal Miticide	59639-138
L I 10258	Vydate L	352-372	L I 10405	Zephyr 0.15 EC	100-898

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

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

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

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

CULTIVATORS

Field Cultivators

- 21 Regular Digger,
Triple K, Danish Tined,
Swedish Tined,
Incorporated, S-tine,
Cultivator,
Vibra-shank Harrow,
Lilliston Tiller
- 26 Heavy Duty
(Duckfoot Cultivator)
- 27 Marker
- 28 Fallow Master
- 22 Furrow-out Cultivator
- 23 Rotary Hoe
(Crust Buster)
- Row Cultivators**
- 24 Disk Sweep, Shovel
- 25 Rolling, Rotary

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

COTTON EQUIPMENT

- 211 Chopper (Stalk Cutter)
- 213 Gleaner

Picker

- 214 Mounted
- 215 Self-Propelled
- 216 Rood Machine

Striper

- 217 Mounted
- 218 Pull Type
- 219 Rood Machine

- 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
- 184 Polypipe roller
- 197 Rock Picker

ENUMERATOR NOTE:

*For Land Forming Equipment codes
171 – 184, 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
- 210 Grain Cart with Auger (Self
Propelled)
- 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
- 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

Notes: