

AGRICULTURAL RESOURCE MANAGEMENT SURVEY PHASE II



Peanut Respondent Booklet

2023



Dear Producer,

Every year the U.S. Department of Agriculture's National Agricultural Statistics Service (NASS), in cooperation with the Economic Research Service, conducts the Agricultural Resource Management Survey (ARMS). The survey gathers information on production practices for different commodities each year. In 2023, ARMS focuses on U.S. oat, peanut, and soybean production.

The interviewer will ask you to report your nutrient or fertilizer use, biocontrol or pesticide applications, and pest management and irrigation 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 you can help NASS compile an accurate picture of farming in the United States. This will ensure that decisions impacting production practices and the well-being of farms are based on accurate, timely information.

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 **completely confidential**, as required by federal law.

Thank you in advance 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.

Sincerely,

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

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 27a

- 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 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 <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	---	---

**CHEMICALS and PESTICIDES for Peanuts**

**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,  
**MS** = Soil Fumigant, **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 40419	2,4-DB ACID TECHNICAL	2749-525	L I 10004	DUPONT ASANA XL INSECTICIDE	352-515
L F 70709	ABOUND 2.08 F	100-1098	D H 40274	DUPONT CLASSIC HERBICIDE	352-436
L F 70709	ABOUND FLOWABLE FUNGICIDE	100-1098	L I 10097	DUPONT LANNATE LV INSECTICIDE	352-384
L I 11092	ADMIRE PRO	264-827	L F 70687	FLUOXASTROBIN 480 SC FUNGICIDE	66330-64
L F 70523	ARTISAN FUNGICIDE	71711-17	L F 70259	FOLICUR 3.6 F FOLIAR FUNGICIDE	264-752
L I 10004	ASANA XL	352-515	L H 40506	GRAMOXONE INTEON	100-1217
L H 40632	BARRAGE HF	5905-529	L H 40922	GUARDSMAN MAX	7969-192
L H 40871	BASAGRAN	7969-45	L F 70549	HEADLINE	7969-186
L I 11046	BAYTHROID XL	264-840	L F 70138	HELENA BRAVO S	5905-472
L I 11155	BELT SC	264-1025	L I 11306	HEXY 2E	83529-28
D F 70249	BRAVO 825 AGRICULTURAL FUNGICIDE	50534-201	L I 10876	INTREPID 2F	62719-442
L I 11123	BRIGADE 2EC	279-3313	L I 10351	KARATE 1EC	100-998
L H 40420	BUTOXONE HERBICIDE	279-549	L I 10739	KARATE INSECTICIDE WITH ZEON TECHNOLOGY	100-1097
L H 40263	BUTYRAC 175	42750-39	L I 10097	LANNATE LV	352-384
L H 40264	BUTYRAC 200	42750-38	D I 10098	LANNATE SP	352-342
L H 40264	BUTYRAC 200 BROADLEAF HERBICIDE	42750-38	L I 11284	LEVERAGE 360	264-1104
D H 40770	CADRE DG PEANUT HERBICIDE	241-381	D I 10101	LORSBAN 15G	62719-34
L H 40769	CADRE HERBICIDE	241-364	D F 70631	METCONAZOLE 50 WDG	59639-147
L I 11307	CHLORPYRIFOS 4E AG	84229-25	D I 11303	MOCAP 15% GRANULAR NEMATICIDE - INSECTICIDE	5481-9040
D I 10330	CLEAN CROP PHORATE 20G	34704-259	D I 11305	MOCAP 20% GRANULAR LOCK 'N LOAD NAMATICIDE - INSECTICIDE	5481-9042
L H 40276	COBRA	59639-34	L I 11304	MOCAP EC NEMATICIDE - INSECTICIDE	5481-9041
L I 10008	COMITE	400-104	D F 70483	MONCUT 70-DF	71711-14
L I 10527	COMITE II	400-154	L F 70073	NUFARM PROPICONAZOLE 41.8 EC FUNGICIDE	228-670
L I 10745	DIMILIN 2L	400-461			
D I 10044	DI-SYSTON 15%	264-723			
L H 41012	DREXEL ME-TOO LACHLOR	19713-548			
L H 40745	DUAL MAGNUM	100-816			
L H 40745	DUAL MAGNUM HERBICIDE	100-816			

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Form	Class	Code	Product Name	EPA #	Form	Class	Code	Product Name	EPA #
L	F	70481	OMEGA 500F	71512-1	D	I	11365	SEVIN 80SOLUPAK	61842-34
			ORTHENE 75 S SOLUBLE						
D	I	10149	POWDER	5481-8971	L	I	11366	SEVIN XLR	61842-37
D	I	10831	ORTHENE 97 PELLETS	5481-8980	L	H	40612	SONALAN HFP	62719-188
L	H	40932	OUTLOOK	7969-156	L	I	10816	STEWARD	352-598
					L	F	70473	STRATEGO FUNGICIDE	264-779
L	H	90490	PARAZONE 3SL	66222-130	D	H	40968	STRONGARM	62719-288
D	I	10329	PHORATE 20 G	5481-8980					
L	H	41049	POAST	7969-58	D	I	10190	TEMIK BRANK 15G ALDICARB PESTICIDE	264-330
L	F	70774	PROVOST 433 SC	264-861	D	I	10357	THIMET 15-G SOIL AND SYSTEMIC INSECTICIDE	5481-527
L	H	41010	PROWL H20	241-418	D	I	10192	THIMET 20-G	5481-530
L	H	40610	PURSUIT	241-350	L	F	70072	TILT FUNGICIDE	100-617
D	H	40610	PURSUIT DG HERBICIDE	241-350	L	H	40716	TREFLAN H.F.P.	62719-250
L	H	40363	PURSUIT HERBICIDE	241-310					
L	H	40942	ROUNDUP	524-445	L	H	40913	ULTRA BLAZER	70506-60
L	H	41004	ROUNDUP CUSTOM	524-343	D	H	40940	VALOR WP HERBICIDE	59639-98
					L	MS	90012	VAPAM SOIL FUMIGANT SOLUTION FOR ALL CROPS	5481-466
					L	I	10903	Z-CYPE 0.8 EC	279-3249

## PEST MANAGEMENT INFORMATION SOURCES

### Section E, Item 20

- 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

### 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

#### 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

**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

**PEANUT EQUIPMENT**

- 281 Combine, PTO
- 282 Digger-shaker
- 283 Shaker-inverter
- 284 Reshaker-conditioner
- 285 Vine Cutter
- 286 Wagon

**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
- 197 Rock Picker

**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

PTO Power Take-off

WD Wheel Drive

**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
- 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:**