



AGRICULTURAL RESOURCE MANAGEMENT SURVEY
PHASE II
SOYBEAN PRODUCTION PRACTICES 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, cotton, and oat production 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

**Section C, Item 4, Column 6
and Section D, Item 1, Column 9**

APPLICATION CODES

- 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, Column 2

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 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 = 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

Form	Class	Code	Product Name	EPA #	D/L	Class	Code	Product Name	EPA #
L	H	40479	2,4-D AMINE 4	42750-19	L	F	70539	DOMARK 230 ME FUNGICIDE	80289-7
L	H	40752	2,4-D AMINE 6	42750-21	L	H	40746	DUAL II MAGNUM HERBICIDE	100-818
L	H	40834	2,4-D AMINE WEED KILLER	1386-43	L	H	40745	DUAL MAGNUM HERBICIDE	100-816
L	H	40657	2,4-D LV4	1381-102	L	I	11460	DUPONT ASANA XL INSECTICIDE	59639-209
L	H	40580	2,4-D LV6	1381-101	L	H	40470	DUPONT ASSURE II HERBICIDE	352-541
L	F	70709	ABOUND FLOWABLE FUNGICIDE	100-1098	D	H	40503	DUPONT CANOPY EX HERBICIDE	352-635
D	I	10604	ACEPHATE 75SP	66330-354	D	H	40265	DUPONT CANOPY HERBICIDE	352-444
L	H	40529	AFG PLUS	34704-890	D	H	40698	DUPONT CANOPY XL HERBICIDE	352-589
L	H	40961	ALBAUGH DICAMBA DMA SALT	42750-40	D	H	40274	DUPONT CLASSIC HERBICIDE	352-436
L	I	10968	AMMO 2.5 EC INSECTICIDE	279-3027	D	H	41233	DUPONT ENLITE HERBICIDE	352-757
D	H	40771	AUTHORITY 75 DF HERBICIDE	279-3148	D	H	41200	DUPONT ENVIVE HERBICIDE	352-756
D	H	40693	AUTHORITY BROADLEAF HERBICIDE	279-3179	D	H	40248	DUPONT HARMONY EXTRA XP HERBICIDE	352-611
L	H	41219	AUTHORITY IMI (F7119 4 SC) HERBICIDE	279-3330	D	H	41228	DUPONT LEADOFF HERBICIDE	352-853
L	H	40632	BARRAGE HF	5905-529	D	H	40606	DUPONT SYNCHRONCY STS HERBICIDE	352-599
L	I	10336	BAYTHROID 2 EMULSIFIABLE PYRETHROID INSECTICIDE	264-745	D	H	40466	DUPONT SYNCHRONY XP HERBICIDE	352-648
L	I	11155	BELT SC INSECTICIDE	264-1025	L	I	11274	ENDIGO ZC	100-1276
L	H	40870	BOUNDARY HERBICIDE	100-958	L	H	40832	EXTREME HERBICIDE	241-405
L	H	40458	BOUNDARY(R) 6.5EC HERBICIDE	100-1162	D	H	41214	F9016 DF HERBICIDE	279-3413
L	I	11123	BRIGADE 2EC INSECTICIDE/MITICIDE	279-3313	D	H	40983	FIRSTRATE	62719-275
L	H	40951	BUCCANEER GLYPHOSATE HERBICIDE	55467-10	L	H	40633	FLEXSTAR	100-1101
L	H	40648	BUCCANEER PLUS GLYPHOSATE HERBICIDE	55467-9	L	H	41239	FLEXSTAR GT 3.5 HERBICIDE	100-1385
L	H	41129	CADET HERBICIDE	279-3338	L	H	40596	FUSILADE DX HERBICIDE	100-1070
L	I	10601	CHLORPYRIFOS 4E AG	66222-19	L	H	40537	FUSION HERBICIDE	100-1059
L	H	40946	CLEAROUT 41 PLUS	42750-176	D	H	41202	GAUNTLET 70 DF HERBICIDE	279-3246
L	H	40256	CLETHODIM 2E	42750-72	L	H	41063	GF-1279	62719-517
L	I	11241	COBALT	62719-575	L	H	41136	GF-1280	62719-556
L	H	40276	COBRA HERBICIDE	59639-34	L	H	40675	GLYFOS X-TRA	4787-23
L	H	40941	CORNERSTONE	1381-191	L	H	40910	GLYPHOMAX	62719-323
L	H	40520	CORNERSTONE PLUS	1381-192	L	H	40950	GLYPHOSATE	34704-866
L	I	10038	DIMETHOATE 2.67 EC	34704-489	L	H	41023	GLYPHOSATE 41%	42750-60
L	I	50200	DIMETHOATE 400	34704-207	L	H	41053	GLYPHOSATE 41% PLUS	42750-61
L	I	10745	DIMILIN 2L	400-461	L	H	40506	GRAMOXONE INTEON	100-1217
					L	F	70549	HEADLINE FUNGICIDE	7969-186
					L	I	11228	HERO INSECTICIDE	279-3315

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

Form	Class	Code	Product Name	EPA #	Form	Class	Code	Product Name	EPA #
L	H	41114	INTENSITY ONE POST EMERGENCE GRASS HERBICIDE	34704-976	L	H	40372	SALVO	34704-609
L	H	41026	INTENSITY POST-EMERGENCE GRASS HERBICIDE	34704-864	D	H	40423	SCEPTER 70 DG HERBICIDE	241-306
L	I	10876	INTREPID 2F AGRICULTURAL INSECTICIDE	62719-442	L	H	40373	SCEPTER HERBICIDE	241-289
L	I	10351	KARATE 1EC	100-998	L	H	41173	SECTION 2EC HERBICIDE	1381-204
L	I	10739	KARATE INSECTICIDE WITH ZEON TECHNOLOGY	100-1097	L	H	41041	SELECT 2EC HERBICIDE	59639-3
L	I	11284	LEVERAGE 360 INSECTICIDE	264-1104	D	H	40209	SENCOR DF 75% DRY FLOWABLE HERBICIDE	264-738
L	H	41161	LIBERTY 280 SL HERBICIDE	264-829	L	H	41025	SEQUENCE HERBICIDE	100-1185
L	H	40729	LIBERTY HERBICIDE	264-660	L	H	41135	SHARPEN POWERED BY KIXOR HERBICIDE	7969-278
L	I	10983	LORSBAN-4E	62719-220	L	I	11124	SNIPER	34704-858
L	H	41021	MANA ARROW 2EC HERBICIDE	66222-60	L	F	70473	STRATEGO FUNGICIDE	264-779
L	H	40700	MATADOR HERBICIDE	279-3183	L	H	41120	TAPOUT	5905-578
L	H	41113	MON 63410 HERBICIDE	524-591	L	H	40507	TARGA HERBICIDE	33906-9
L	H	41042	MON 78270 HERBICIDE	524-537	L	H	41225	TOMAHAWK 5	33270-15
L	H	40975	NUFARM CREDIT HERBICIDE	71368-20	L	I	10978	TOMBSTONE	34704-912
D	H	41246	OPTILL POWERED BY KIXOR HERBICIDE	7969-280	L	H	40918	TOUCHDOWN HERBICIDE	100-1117
D	H	41208	OPTILL PRO POWERED BY KIXOR HERBICIDE	7969-332	L	H	40534	TOUCHDOWN HITECH HERBICIDE	100-1182
D	I	10632	ORTHENE 90 WSP	59639-86	L	H	40238	TOUCHDOWN TOTAL	100-1169
D	I	10652	ORTHENE 90S	5481-8974	L	H	41047	TREFLAN 4L HERBICIDE	34704-853
L	H	40932	OUTLOOK HERBICIDE	7969-156	L	H	40550	TRIFLURALIN 4 E.C.	5905-519
L	H	41151	PREFIX HERBICIDE	100-1268	L	I	11159	TUNDRA EC	1381-196
L	H	40655	PROWL 3.3 EC HERBICIDE	241-337	L	H	40913	ULTRABLAZER HERBICIDE	70506-60
L	H	41010	PROWL H2O HERBICIDE	241-418	L	H	40377	UNICO 2,4-D LO-V ESTER WEED KILLER	1386-60
L	H	40363	PURSUIT HERBICIDE	241-310	D	H	41203	V-10089 WDG (HERBICIDE)	59639-117
D	H	40733	PYTHON WDG	62719-277	L	H	40005	V-10137 1 EC (HERBICIDE)	59639-132
L	F	70525	QUILT FUNGICIDE	100-1178	D	H	40014	VALOR HERBICIDE	59639-99
L	MG	90567	RADIATE	34704-909	D	H	40940	VALOR WP HERBICIDE	59639-98
L	H	40987	RAPTOR HERBICIDE	241-379	L	H	41137	VERDICT POWERED BY KIXOR HERBICIDE	7969-279
L	H	40365	REFLEX HERBICIDE	100-993	L	I	11167	WARRIOR II WITH ZEON TECHNOLOGY	100-1295
L	H	40628	RESOURCE HERBICIDE	59639-82	L	H	40406	WEEDONE LV4 SOLVENTLESS BROADLEAF HERBICIDE	71368-14
L	H	40390	RIVERDALE 2,4-D L.V. 4 ESTER	228-139	L	I	10903	Z-CYPE 0.8 EC INSECTICIDE	279-3249
L	H	41007	ROUNDUP ORIGINAL 2K HERBICIDE	524-539					
L	H	40509	ROUNDUP POWER MAX HERBICIDE	524-549					
L	H	41159	ROUNDUP ULTRA HERBICIDE	524-475					

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