



AGRICULTURAL RESOURCE MANAGEMENT SURVEY
PHASE II
WHEAT PRODUCTION PRACTICES REPORT
RESPONDENT BOOKLET



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 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

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, 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 Wheat**

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 #	D/L	Class	Code	Product Name	EPA #
L	H	40480	2,4-D AMINE - 4	62575-1	L	H	41031	BROMOX/MCPA 2 - 2 HERBICIDE	71368-28
L	H	40752	2,4-D AMINE 6	42750-21	L	H	40926	BRONATE ADVANCED HERBICIDE	264-690
L	H	40834	2,4-D AMINE WEED KILLER	1386-43	L	H	40325	BROX-M HERBICIDE	42750-52
L	H	40378	2,4-D LV ESTER 4	5905-90	L	H	40951	BUCCANEER GLYPHOSATE HERBICIDE	55467-10
L	H	40657	2,4-D LV4	1381-102	L	F	70490	BUMPER 41.8 EC (PROPICONAZOLE) FUNGICIDE	66222-42
L	H	40580	2,4-D LV6	1381-101	L	F	70628	CARAMBA FUNGICIDE	7969-246
L	F	70709	ABOUND FLOWABLE FUNGICIDE	100-1098	L	H	40570	CLARITY HERBICIDE	7969-137
L	H	40961	ALBAUGH DICAMBA DMA SALT	42750-40	L	H	40946	CLEAROUT 41 PLUS	42750-176
L	H	41207	ARY-0454-105 SC HERBICIDE	66330-391	L	H	40916	CORNBELT SALVAN	11773-16
D	H	40079	AUDIT 75 WDG HERBICIDE	66330-384	D	H	40494	CUSTOM-PAK AMBER HERBICIDE	100-768
L	H	40525	AXIAL HERBICIDE	100-1199	L	H	40965	DAGGER SELECTIVE HERBICIDE	228-267
L	H	40531	AXIAL XL	100-1256	L	H	40962	DICAMBA DMA 4# AG	66330-276
D	H	40738	AXIOM DF HERBICIDE	264-766	L	H	41006	DISCOVER NG HERBICIDE	100-1173
L	H	41028	BANVEL + 2,4-D	66330-287	D	H	40275	DUPONT AFFINITY BROADSPEC HERBICIDE (WITH TOTALSOL SOLUBLE GRANULES)	352-661
L	H	40632	BARRAGE HF	5905-529	D	H	41054	DUPONT AFFINITY TANKMIX HERBICIDE (WITH TOTALSOL SOLUBLE GRANULES)	352-641
L	I	11046	BAYTHROID XL	264-840	D	H	40929	DUPONT ALLY EXTRA HERBICIDE	352-610
L	H	41201	BEYOND	241-441	D	H	40233	DUPONT ALLY EXTRA SG HERBICIDE (WITH TOTALSOL SOLUBLE GRANULES)	352-715
L	H	40012	BISON	9779-347	D	H	40235	DUPONT ALLY XP HERBICIDE	352-435
L	H	41027	BRASH	1381-202	D	H	40217	DUPONT FINESSE GRASS & BROADLEAF HERBICIDE	352-718

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Form	Class	Code	Product Name	EPA #	Form	Class	Code	Product Name	EPA #
D	H	40250	DUPONT HARMONY EXTRA SG HERBICIDE (WITH TOTALSOL SOLUBLE GRANULES)	352-714	D	H	41018	OSPREY HERBICIDE	264-802
D	H	40248	DUPONT HARMONY EXTRA XP HERBICIDE	352-611	L	H	41008	OUTLAW	42750-68
D	H	40246	DUPONT HARMONY GT XP HERBICIDE	352-446	D	H	40071	POWERFLEX	62719-569
D	H	40251	DUPONT HARMONY SG HERBICIDE (WITH TOTALSOL SOLUBLE GRANULES)	352-633	L	F	70485	PROPICONAZOLE EC	62719-346
D	H	40925	EVEREST 70% WATER DISPERSIBLE GRANULAR HERBICIDE	66330-49	L	F	70609	PROSARO 421 SC FUNGICIDE	264-862
D	H	40310	EXPRESS HERBICIDE	352-509	L	H	40892	PUMA 1EC HERBICIDE	264-666
L	F	70259	FOLICUR 3.6 F FOLIAR FUNGICIDE	264-752	L	H	40059	PUMA ULTRA HERBICIDE	264-1073
L	H	41136	GF-1280	62719-556	L	F	70525	QUILT FUNGICIDE	100-1178
L	H	40675	GLYFOS X-TRA	4787-23	L	H	40886	RANGE STAR	42750-55
L	H	41053	GLYPHOSATE 41% PLUS	42750-61	D	H	40827	RAVE HERBICIDE	100-927
L	H	40074	GOLDSKY HERBICIDE	62719-582	D	H	40523	RIMFIRE HERBICIDE	264-847
D	H	40572	HARMONY EXTRA HERBICIDE	352-538	L	H	40936	RIVERDALE 2,4-D LV6	228-95
L	F	70549	HEADLINE FUNGICIDE	7969-186	L	H	41007	ROUNDUP ORIGINAL 2K HERBICIDE	524-539
L	H	40065	HUSKIE HERBICIDE	264-1023	L	H	40509	ROUNDUP POWER MAX HERBICIDE	524-549
L	I	10739	KARATE INSECTICIDE WITH ZEON TECHNOLOGY	100-1097	L	H	41159	ROUNDUP ULTRA HERBICIDE	524-475
L	I	11294	LAMBDA 13% INSECTICIDE	71532-20	L	H	40842	ROUNDUP ULTRAMAX	524-512
L	I	10983	LORSBAN-4E	62719-220	L	H	40519	ROUNDUP VM HERBICIDE	524-544
L	H	40896	LV 400 2,4-D WEED KILLER	2217-77	L	H	40372	SALVO	34704-609
L	H	41024	MAESTRO D HERBICIDE	71368-39	D	H	40209	SENCOR DF 75% DRY FLOWABLE HERBICIDE	264-738
D	H	40866	MAVERICK HERBICIDE	524-500	L	I	10158	SILENCER	66222-104
L	H	40055	MCP ESTER HERBICIDE	62719-573	L	H	40060	STARANE ULTRA HERBICIDE	62719-577
L	H	41042	MON 78270 HERBICIDE	524-537	L	H	40875	STERLING	1381-190
L	F	70766	MULTIVA FUNGICIDE	7969-247	L	F	70473	STRATEGO FUNGICIDE	264-779
D	H	40501	OLYMPUS 70% WATER DISPERSIBLE	264-809	D	H	41210	SUPREMACY HERBICIDE	66330-406
D	H	40304	OLYMPUS FLEX HERBICIDE	264-833	L	F	70072	TILT FUNGICIDE	100-617
L	H	40066	ORION HERBICIDE	100-1307					

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L	H	4091	TOUCHDOWN HERBICIDE	100-1117
L	H	4122	VIDA HERBICIDE	10163-314
L	I	1116	WARRIOR II WITH ZEON TECHNOLOGY	100-1295
L	H	4101	WIDEMATCH HERBICIDE	62719-512
L	H	4103		
L	H	5	WILDCARD XTRA	5905-550
L	H	4007	WOLVERINE HERBICIDE	264-1075

Conversion Factors for Liquid and Dry Products

Liquid Products	Dry Products
1 Gallon = 4 Quarts	1 Pound = 16 Dry Ounces
1 Quart = 2 Pints	1 Ounce = 28.3 Grams
1 Pint = 16 Fluid Ounces	1 Pound = 453 Grams
2 Cups = 1 Pint	

