



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



National
Agricultural
Statistics
Service

2014

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 2014, ARMS focuses on U.S. corn and fall potato 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 Corn, All**

Class Definitions:

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

D/L	Class	Code	Product Name	EPA #	D/L	Class	Code	Product Name	EPA #
L	H	40538	2,4-D Amine 4	1381-103	L	H	40871	BASAGRAN HERBICIDE	7969-45
L	H	40752	2,4-D AMINE 6	42750-21	D	H	40699	BASIS GOLD HERBICIDE	352-585
L	H	40834	2,4-D AMINE WEED KILLER	1386-43	L	I	11046	BAYTHROID XL	264-840
L	H	40657	2,4-D LV4	1381-102	L	H	40726	BICEP II MAGNUM HERBICIDE	100-817
L	H	40580	2,4-D LV6	1381-101	L	H	40727	BICEP LITE II MAGNUM HERBICIDE	100-827
L	H	40128	AATREX 4L HERBICIDE	100-497	L	I	11123	BRIGADE 2EC INSECTICIDE/MITICIDE	279-3313
D	H	40143	AATREX NINE-O HERBICIDE	100-585	L	H	40951	BUCCANEER GLYPHOSATE HERBICIDE	55467-10
L	F	70709	ABOUND FLOWABLE FUNGICIDE	100-1098	L	H	40113	BUCTRIL HERBICIDE	264-437
D	H	40735	ACCENT GOLD HERBICIDE	352-593	L	H	40116	BULLET HERBICIDE	524-418
L	H	40138	AGRISOLUTIONS ATRAZINE 4L	1381-158					
D	H	40151	AGRISOLUTIONS ATRAZINE 90DF	9779-253	L	H	41129	CADET HERBICIDE	279-3338
D	I	10973	AMBUSH 25W INSECTICIDE	5481-502	L	H	40917	CALLISTO HERBICIDE	100-1131
L	H	40477	AMINE 400 2,4-D WEED KILLER	2217-2	L	I	11031	CAPTURE 2 EC INSECTICIDE/MITICIDE	279-3069
L	H	40140	ATRA-5	19713-80	D	H	40873	CELEBRITY PLUS HERBICIDE	7969-175
L	H	40134	ATRAZINE 4L	34704-69	L	H	40570	CLARITY HERBICIDE	7969-137
D	H	40147	ATRAZINE 90 WDG HERBICIDE	34704-622	L	I	11241	COBALT	62719-575
D	H	40150	ATRAZINE 90DF	66222-37	L	I	10527	COMITE II	400-154
D	H	41245	AUTUMN SUPER 51 WDG HERBICIDE	264-1134	L	H	40129	CORNBELT ATRAZINE 4L	11773-1
D	I	11310	AZTEC 2.1% GRANULAR INSECTICIDE	5481-9030	D	H	40144	CORNBELT ATRAZINE 90 DF	11773-13
D	I	11311	AZTEC 4.67% GRANULAR INSECTICIDE	5481-9028	L	H	40941	CORNERSTONE	1381-191
					L	H	41117	CORVUS HERBICIDE	264-1066
L	H	41118	BALANCE FLEXX HERBICIDE	264-1067	D	I	10009	COUNTER 15G SYSTEMIC INSECTICIDE- NEMATICIDE	5481-545
L	H	40893	BALANCE PRO HERBICIDE	264-600					
L	H	41061	BANVEL + ATRAZINE	66330-286	L	I	10037	DIMETHOATE 2.67 EC	66330-244
L	H	40245	BAS 183 06H HERBICIDE	7969-131	D	H	40767	DISTINCT HERBICIDE	7969-150

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D/L	Class	Code	Product Name	EPA #	D/L	Class	Code	Product Name	EPA #
L	H	40755	DMA 6 WEED KILLER	62719-2	L	H	41053	GLYPHOSATE 41% PLUS	42750-61
L	H	40131	DREXEL ATRAZINE 4L	19713-11	L	H	40953	G-MAX LITE	7969-200
L	I	10035	DREXEL DIMETHOATE 2.67	19713-232	L	H	40750	GORDON'S AMINE 600 2,4-D WEED KILLER	2217-668
L	H	40161	DREXEL SIMAZINE 4L	19713-60	L	I	10034	GOWAN DIMETHOATE E267	10163-56
L	H	40746	DUAL II MAGNUM HERBICIDE	100-818	L	H	40922	GUARDSMAN MAX HERBICIDE	7969-192
D	H	40438	DUPONT ACCENT HERBICIDE	352-560					
L	I	10004	DUPONT ASANA XL INSECTICIDE	352-515	L	H	41112	HALEX GT HERBICIDE	100-1282
D	H	40622	DUPONT BASIS HERBICIDE	352-571	L	H	40736	HARNESS XTRA 5.6L HERBICIDE PREMIX FOR CORN	524-485
L	H	41128	DUPONT BREAKFREE ATZ HERBICIDE	352-724	L	H	40630	HARNESS XTRA HERBICIDE	524-480
L	H	40954	DUPONT CINCH ATZ HERBICIDE	352-624	L	F	70790	HEADLINE SC	7969-289
D	H	41133	DUPONT DPX-QFU30 (MP) HERBICIDE	352-759	L	I	11228	HERO INSECTICIDE	279-3315
D	H	41142	DUPONT DPX-QFU31 (MP) HERBICIDE	352-761	D	H	40618	HORNET	62719-253
D	H	40663	DUPONT MATRIX HERBICIDE	352-556	D	H	40931	HORNET WDG	62719-315
D	H	41143	DUPONT REQUIRE Q HERBICIDE	352-778					
D	H	41134	DUPONT RESOLVE Q HERBICIDE	352-777	L	I	10876	INTRIPID 2F AGRICULTURAL INSECTICIDE	62719-442
D	H	40915	DUPONT STEADFAST HERBICIDE	352-608					
					L	H	40955	KEYSTONE HERBICIDE	62719-368
L	H	40309	ESTERON 6E HERBICIDE	62719-8	L	H	40956	KEYSTONE LA HERBICIDE	62719-479
D	I	10565	FORCE 3G INSECTICIDE	100-1075	L	H	40338	LARIAT HERBICIDE	524-329
L	H	40689	FULTIME HERBICIDE	62719-371	L	H	41111	LAUDIS HERBICIDE	264-860
					L	H	41052	LEXAR HERBICIDE	100-1201
L	H	41063	GF-1279	62719-517	L	H	41161	LIBERTY 280 SL HERBICIDE	264-829
L	H	41136	GF-1280	62719-556	L	H	40729	LIBERTY HERBICIDE	264-660
L	H	40675	GLYFOS X-TRA	4787-23	L	H	41251	LINEX 4L HERBICIDE	61842-21
L	H	40910	GLYPHOMAX	62719-323	D	I	10101	LORSBAN 15G	62719-34
L	H	40950	GLYPHOSATE	34704-866	L	H	40938	LOW VOL 6 ESTER WEED KILLER	34704-125
L	H	41023	GLYPHOSATE 41%	42750-60	L	H	40623	LOW VOL ESTER 4 WEED KILLER	34704-124

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D/L	Class	Code	Product Name	EPA #	D/L	Class	Code	Product Name	EPA #
L	H	40952	LUMAX SELECTIVE HERBICIDE	100-1152	L	F	70525	QUILT FUNGICIDE	100-1178
					L	F	70726	QUILT XCEL	100-1324
L	H	40706	MAJESTIC GREEN BANVEL +2, 4-D	10107-145					
L	H	40934	MEDAL II HERBICIDE	100-965	L	H	40886	RANGE STAR	42750-55
L	H	40528	MIRAGE PLUS	34704-883	L	H	40509	RD 1617 HERBICIDE	524-549
D	I	11303	MOCAP 15% GRANULAR NEMATICIDE-INSECTICIDE	5481-9040	L	H	40620	RIFLE HERBICIDE	34704-861
D	I	11305	MOCAP 20% GRANULAR LOCK 'N LOAD NEMATICIDE- INSECTICIDE	5481-9042	L	H	41060	RIFLE PLUS HERBICIDE	34704-860
L	I	11304	MOCAP EC NEMATICIDE- INSECTICIDE	5481-9041	L	H	40751	RIVERDALE 2, 4-D 6 AMINE	228-242
L	H	40692	MON 58425	524-473	L	H	40960	RIVERDALE CREDIT HERBICIDE	228-364
L	H	40876	MON 58494	524-511	L	H	40942	ROUNDUP HERBICIDE	524-445
L	H	41042	MON 78270 HERBICIDE	524-537	L	H	41007	ROUNDUP ORIGINAL 2K HERBICIDE	524-539
					L	H	41162	ROUNDUP ORIGINAL II HERBICIDE	524-454
D	H	40928	NC-398 WG	81880-13	L	H	41096	ROUNDUP PROMAX	524-579
L	H	40583	NUFARM 2, 4-D LV-6	35935-6	L	H	41159	ROUNDUP ULTRA HERBICIDE	524-475
L	H	41045	NUFARM CREDIT DUO HERBICIDE	71368-25	L	H	40842	ROUNDUP ULTRAMAX	524-512
L	H	41046	NUFARM CREDIT DUO XL HERBICIDE	71368-36	L	H	40927	RT MASTER	524-531
L	H	40975	NUFARM CREDIT HERBICIDE	71368-20					
					L	H	40372	SALVO	34704-609
L	H	40932	OUTLOOK HERBICIDE	7969-156	L	H	41135	SHARPEN POWERED BY KIXOR HERBICIDE	7969-278
					L	H	40163	SIMAZINE 4L	9779-296
L	H	41062	PARALLEL	66222-87	D	H	40440	SIMAZINE 90DF	19713-252
L	H	41122	PARALLEL PLUS	66222-132	D	H	40730	SPIRIT HERBIDICE	100-911
L	I	10915	PERM-UP 3.2 EC INSECTICIDE	70506-9	D	H	41110	STATUS HERBICIDE	7969-242
L	I	10913	POUNCE 3.2 EC INSECTICIDE	279-3014	L	H	40875	STERLING	1381-190
L	H	40857	PRINCEP 4L HERBICIDE	100-526	L	F	70473	STRATEGO FUNGICIDE	264-779
L	I	11330	PROAXIS	67760-114	L	H	41115	SURESTART HERBICIDE	62719-570
L	H	40655	PROWL 3.3 EC HERBICIDE	241-337	L	H	40617	SURPASS EC HERBICIDE	62719-367
L	H	41010	PROWL H20 HERBICIDE	241-418					

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D/L	Class	Code	Product Name	EPA #	D/L	Class	Code	Product Name	EPA #
L	F	70763	TEBUCON 3.6 FLOWABLE FUNGICIDE	86363-5	L	H	41137	VERDICT POWERED BY KIXOR HERBICIDE	7969-279
L	F	70606	TILT BRAVO SE	100-1192					
L	F	70072	TILT FUNGICIDE	100-617	L	I	11038	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	100-1112
L	H	40297	TOPRAMEZONE SC HERBICIDE	5481-524	L	H	40135	WEED PRO ATRAZINE 4L HERBICIDE	42750-45
L	H	40918	TOUCHDOWN HERBICIDE	100-1117	L	H	40096	WEEDAR 64 BROADLEAF HERBICIDE	71368-1
L	H	40238	TOUCHDOWN TOTAL	100-1169	L	H	40404	WEEDONE 638 BROADLEAF HERBICIDE	71368-3
L	I	10654	TRACER	62719-267	L	H	40406	WEEDONE LV4 SOLVENTLESS BROADLEAF HERBICIDE	71368-14
L	H	41235	TRAXION GT	100-1293	L	H	40407	WEEDONE LV6 EMULSIFIABLE BROADLEAF HERBICIDE	71368-6
L	H	40716	TREFLAN H.F.P.	62719-250	L	H	40753	WEED-RHAP A-6D HERBICIDE 2,4-D AMINE	5905-503
L	H	40133	US SENTRY ATRAZINE 4L HERBICIDE	33270-10	L	I	10903	Z-CYPE 0.8 EC INSECTICIDE	279-3249
D	H	40146	US SENTRY ATRAZINE 90DF	33270-9					

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	

