



AGRICULTURAL RESOURCE MANAGEMENT SURVEY
PHASE II
FALL POTATOES PRODUCTION PRACTICES REPORT
RESPONDENT BOOKLET



2016

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 2016, ARMS focuses on U.S. corn and fall potato production 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

**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 Fall Potatoes**

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

D/L	Class	Code	Product Name	EPA #	D/L	Class	Code	Product Name	EPA #
L	H	40834	2,4-D AMINE WEED KILLER	1386-43	L	I	10038	DIMETHOATE 2.67 EC	34704-489
					L	I	11378	DIMETHOATE 400	67660-118
L	F	70052	ABBA 0.15EC	66222-139	L	I	10292	DIMETHOATE 4E	66330-223
L	F	70709	ABOUND FLOWABLE FUNGICIDE	100-1098	D	F	70400	DITHANE DF RAINSHIELD	62719-402
L	I	11285	ACRAMITE-4SC	400-514	L	F	70585	DITHANE F-45	62719-396
D	I	10871	ACTARA INSECTICIDE	100-938	D	F	70013	DITHANE M-45	62719-387
L	I	11130	ADMIRE 2 FLOWABLE INSECTICIDE	264-758	L	I	10035	DREXEL DIMETHOATE 2.67	19713-232
D	F	70382	AGRI TIN WATER SOLUBLE PACK	55146-72	L	I	10041	DREXEL DIMETHOATE 4EC	19713-231
L	MS	90334	AMV 540	5481-483	L	I	10278	DREXEL ENDOSULFAN 3EC	19713-399
L	I	10914	ARCTIC 3.2 EC	1381-187	L	H	41012	DREXEL ME-TOO-LACHLOR	19713-548
					L	MG	90030	DREXEL SPROUT STOP	19713-2
L	I	10336	BAYTHROID 2 EMULSIFIABLE PYRETHROID INSECTICIDE	264-745	L	H	40746	DUAL II MAGNUM HERBICIDE	100-818
L	I	11046	BAYTHROID XL	264-840	L	H	40745	DUAL MAGNUM HERBICIDE	100-816
D	I	11128	BELEAF 50SG INSECTICIDE	71512-10	L	I	10004	DUPONT ASANA XL INSECTICIDE	352-515
L	H	40870	BOUNDARY HERBICIDE	100-958	L	I	11229	DUPONT CORAGEN INSECT CONTROL	352-729
L	F	70254	BRAVO 500	50534-8	D	F	70551	DUPONT KOCIDE 3000	352-662
L	F	70528	BRAVO 720	50534-188	D	H	40663	DUPONT MATRIX HERBICIDE	352-556
D	F	70249	BRAVO 825 AGRICULTURAL FUNGICIDE	50534-201	D	H	41101	DUPONT MATRIX SG HERBICIDE	352-768
L	F	70209	BRAVO ZN	50534-204	D	F	70522	DUPONT TANOS	352-604
L	I	11278	BRIGADIER (R) INSECTICIDE	279-3332					
					L	F	70500	ECHO 720	60063-7
L	F	70252	CHAMP FORMULA 2 FLOWABLE	55146-64	D	F	70333	ECHO 90DF	60063-10
D	F	70049	CHAMP WG	55146-1	L	F	70330	ECHO ZN	60063-4
D	H	40511	CHATEAU WDG HERBICIDE	59639-119	L	I	11274	ENDIGO ZC	100-1276
L	I	10008	COMITE AGRICULTURAL MITICIDE	400-104	D	F	70521	ENDURA FUNGICIDE	7969-197
L	I	11279	CRUISERMAXX POTATO INSECTICIDE AND FUNGICIDE	100-1248	D	I	10908	ENTRUST	62719-282
D	F	70320	CURZATE 60DF	352-592	D	H	40677	EPTAM 20-G GRANULES	10163-281

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D/L	Class	Code	Product Name	EPA #	D/L	Class	Code	Product Name	EPA #
L	H	40170	EPTAM 7-E SELECTIVE HERBICIDE	10163-283	D	F	70685	MANCOZEB POTATO SEED PROTECTANT FUNGICIDE	2935-496
L	F	70542	EQUUS 720 SST	66222-154	D	F	70717	MANZATE 80 WP FUNGICIDE	70506-235
D	F	70059	EQUUS DF	66222-149	L	F	70729	MANZATE FLOWABLE FUNGICIDE	70506-236
					D	F	70721	MANZATE PRO-STICK FUNGICIDE	70506-234
L	F	70565	FORUM FUNGICIDE	241-427	D	F	70256	MARMAN MANCOZEB 80% WP	48273-20
D	I	10832	FULFILL INSECTICIDE	100-912	L	MS	90265	METAM CLR 42%	45728-16
					L	F	70691	METASTAR 2E	71532-5
L	I	11092	GAUCHO 550 SC INSECTICIDE	264-827	L	H	41116	METRI 4F HERBICIDE	70506-68
D	F	70460	GAVEL 75 DF	10163-6414	D	H	40175	METRI DF	70506-103
L	I	10034	GOWAN DIMETHOATE E267	10163-56	D	H	40496	METRIBUZIN 75WG	66222-106
L	H	40506	GRAMOXONE INTEON	100-1217	D	H	41123	METRIC MBZ	1381-197
					D	F	70424	MICROTHIOL DISPERSS	70506-187
L	F	70549	HEADLINE FUNGICIDE	7969-186	D	I	11303	MOCAP 15% GRANULAR NEMATICIDE-INSECTICIDE	5481-9040
L	I	11228	HERO INSECTICIDE	279-3315	L	H	41042	MON 78270 HERBICIDE	524-537
					D	F	70483	MONCUT 70-DF	71711-14
D	I	10496	IMIDAN 70-W AGRICULTURAL INSECTICIDE	10163-169					
L	F	70541	INITIATE 720 FLOWABLE FUNGICIDE	34704-881	L	I	10458	NOVODOR BIOLOGICAL INSECTICIDE FLOWABLE CONCENTRATE	73049-48
					L	I	11170	NUPRID 2F INSECTICIDE	228-484
L	MD	90009	KENNECOTT SULFURIC ACID DESICCANT FOR POTATO VINES	57559-1	L	I	11277	NUPRID 4.6F INSECTICIDE	228-527
D	F	70266	KOCIDE 2000	352-656					
L	F	70319	KOCIDE 4.5 LF	352-684	L	I	10526	OBERON 2SC INSECTICIDE/MITICIDE	264-719
D	F	70187	KOCIDE DF	352-688	L	I	10269	OBERON 4 SC INSECTICIDE/MITICIDE	264-850
D	F	70160	KUMULUS DF	51036-352	L	F	70481	OMEGA 500F	71512-1
					L	H	40932	OUTLOOK HERBICIDE	7969-156
L	I	10824	LEVERAGE 2.7 SUSPENSION EMULSION INSECTICIDE	264-770					
L	H	40729	LIBERTY HERBICIDE	264-660	L	H	41062	PARALLEL	66222-87
L	H	41251	LINEX 4L HERBICIDE	61842-21	L	F	70338	PARFLO 4F	5481-472
D	H	41195	LOROX DF	61842-23	L	H	41260	PENDIMETHALIN 3.3 EC	34704-868

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D	F	70105	PENNCOZEB 75 DF	70506-185	D	F	70328	RIDOMIL GOLD COPPER	100-804
D	F	70024	PENNCOZEB 80WP FUNGICIDE	70506-183	L	F	70340	RIDOMIL GOLD EC	100-801
L	I	10915	PERM-UP 3.2 EC INSECTICIDE	70506-9	D	F	70325	RIDOMIL GOLD MZ	100-803
L	F	70464	PHOSTROL AGRICULTURAL FUNGICIDE	55146-83	D	F	70324	RIDOMIL GOLD MZ WG	100-1269
D	I	11146	PLATINUM 75 SG INSECTICIDE	100-1291	L	F	70076	RIDOMIL GOLD SL	100-1202
L	I	10872	PLATINUM INSECTICIDE	100-939	L	I	10975	RIMON 0.83 EC INSECTICIDE	66222-35
L	H	41049	POAST HERBICIDE	7969-58	L	H	40390	RIVERDALE 2,4-D L.V. 4 ESTER	228-139
D	F	70272	POLYRAM 80 DF	7969-105	L	H	40942	ROUNDUP HERBICIDE	524-445
L	I	10913	POUNCE 3.2 EC INSECTICIDE	279-3014	L	H	40842	ROUNDUP ULTRAMAX	524-512
L	F	70463	PREVICUR	264-678	L	F	70750	ROVRAL 4 FLOWABLE FUNGICIDE	279-9564
L	I	11137	PROVADO 1.6 FLOWABLE INSECTICIDE	264-763	L	MG	90008	ROYAL MH-30	400-84
L	H	40655	PROWL 3.3 EC HERBICIDE	241-337	D	MG	90018	ROYAL MH-30 SG	400-165
L	H	41010	PROWL H2O HERBICIDE	241-418	L	MG	90277	ROYAL MH-30 XTRA	400-452
L	F	70692	QUADRIS GOLD	100-1243	L	F	70534	SCALA BRAND SC FUNGICIDE	264-788
L	F	70079	QUADRIS OPTI	100-1171	L	F	70712	SECTAGON 42	61842-6
L	I	11230	RADIANT SC	62719-545	L	MS	90574	SECTAGON 42	61842-6
L	F	70553	RANMAN 400SC	71512-3	L	MS	90556	SECTAGON-K54	61842-7
L	F	70533	REASON 500 SC FUNGICIDE	264-695	L	H	40208	SENCOR 4 FLOWABLE HERBICIDE	264-735
L	I	10688	REGENT 4SC INSECTICIDE	7969-207	D	H	40209	SENCOR DF 75% DRY FLOWABLE HERBICIDE	264-738
L	MD	90389	REGLONE DESSICANT	100-1061	L	MD	90571	SHARDA DIQUAT DIBROMIDE 37.3% SL AG	83529-13
L	H	40367	RELY HERBICIDE	264-652	L	I	10954	SPINOSAD 0.5% SC	62719-314
L	MD	90417	RELY HERBICIDE	264-652	D	F	70228	SUPER TIN 80WP	70506-214
L	F	70619	REVUS FUNGICIDE	100-1254	L	F	90011	TELONE II	62719-32
L	F	70686	REVUS TOP	100-1278	L	MS	10917	THIONEX 3 EC INSECTICIDE	66222-63
D	F	70315	RIDOMIL GOLD BRAVO	100-800	L	I	10966	THIONEX 50W INSECTICIDE	66222-62
L	F	70666	RIDOMIL GOLD BRAVO SC	100-1221	L	H	40716	TREFLAN H.F.P.	62719-250

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L	F	70577	ULTRA FLOURISH AGRICULTURAL FUNGICIDE	55146-73	L	I	10337	VYDATE C-LV INSECTICIDE/ NEMATOCIDE	352-532
L	I	11276	V-10170 2.13SC INSECTICIDE	59639-150	L	I	10258	VYDATE L INSECTICIDE/ NEMATOCIDE	352-372
L	MS	90176	VAPAM HL SOIL FUMIGANT	5481-468	L	I	11167	WARRIOR II WITH ZEON TECHNOLOGY	100-1295

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	