



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



National  
Agricultural  
Statistics  
Service

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. potatoes and corn 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

## FEDERAL CROP INSURANCE COVERAGE

### Section B, Item 19

100 42-S Thiram	129 Avicta® 500 FS	158 Latitude	187 Sebring™ 2.65 ST
101 Acceleron	130 AXCESS™	159 Lesco	188 Sebring™ 318 FS
102 Acceleron® DX-309	131 Belmont	Lesco® 4 Flowable	189 Sebring™ 480 FS
103 Acceleron® DX-709	132 Belmont™ 2.7 FS	160 Mancozeb	190 Senator
104 Acceleron™ DC-309	133 Bonide Mancozeb w/Zinc Concentrate	Lorsban® 50W in water	191 Senator® 600 FS
105 Acceleron™ DC-509	134 Captan	161 soluble packets	192 Signet
106 Acceleron™ HX-209	135 Captan 400	162 Maxim	193 Signet™ 480 FS
107 Acceleron™ IC-609	136 Captan 400-C	163 Maxim® 4 FS	194 Stamina
108 Acceleron™ IX-409	137 Cruiser	164 Maxim® Quattro	195 Stamina® F3 HL
109 Acquire™	138 Cruiser Extreme®	165 Maxim® XL	Stimulate™ Yield
110 Actinogrow	139 Cruiser® 5FS	166 Mycostop®	196 Enhancer
111 Actinogrow™ ST	140 Dithane	167 N-Hibit	197 T-22™ HC
112 Agri Star	141 Dithane M45®	168 N-Hibit® Gold CST	198 Tebusha
113 Agri Star Metalaxyl® 265 ST	142 Dithane® 75DF Rainshield®	169 N-Hibit® HX-209	199 Tebusha 3.6FL
114 Agri Star® Macho™ 600 ST	143 Dithane® DF Rainshield®	170 NipsIt	200 Tebuzol
115 Agrisolutions	144 Dithane® F45 Rainshield®	171 NipsIt INSIDE®	201 Tebuzol™ 3.6F
116 Agrisolutions™ Concur™	145 Dyna-Shield	172 Penncozeb	202 Trilex
117 Agrisolutions™ Nitro Shield®	146 Dyna-Shield® Imidacloprid 5	Penncozeb® 4FL	203 Trilex® Flowable
118 Allegiance	147 Dyna-shield® Metalaxyl	173 Flowable	204 Vault
119 Allegiance® Dry	148 Dynasty®	Penncozeb® 75DF Dry	205 Vault® Hp
120 Allegiance® FL	149 Flowsan®	174 Flowable	206 Vitaflo
121 AmTide	150 Gaucho	175 Penncozeb® 80WP	207 Vitaflo™ 280
122 AmTide Tebu 3.6F	151 Gaucho® 480 Flowable	176 Poncho	208 Vortex®
123 Apron	152 Gaucho® 600 Flowable	177 Poncho® 600	209 Yield Shield®
124 Apron® XL	153 Gaucho® Sb Flowable	178 Poncho® VOTIVO™	999 Other
125 Ascend™	154 Kernel Guard	179 Protégé	3 Seed treatment not applied
126 Attendant	155 Kernel Guard® Supreme	180 Protégé™ FL	
127 Attendant® 600	156 KickStand	181 Rancona	
128 Avicta	157 KickStand™ PGR	182 Rancona® 3.8 FS	
		183 Sativa	
		184 Sativa® 309 FS	
		185 Sativa® 318 FS	
		186 Sebring	

## FEDERAL CROP INSURANCE COVERAGE

### Section B, Item 43a

- 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 **Yield protection**
- 3 **Yield plus SCO** (supplemental coverage option)
- 4 **Revenue protection**
- 5 **Revenue plus SCO** (supplemental coverage option)
- 6 **Other Federal Crop insurance**

## 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	---	---

**Section D, Item 1  
CHEMICALS and PESTICIDES for Corn, All**

**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

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					

<b>Conversion Factors for Liquid and Dry Products</b>	
<b>Liquid Products</b>	<b>Dry Products</b>
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	



# 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

PTO Power Take-off

WD Wheel Drive

**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
- 184 Polypipe roller
- 197 Rock Picker

**ENUMERATOR NOTE:**

*For Land Forming Equipment codes  
171 – 184, 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

**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
- 210 Grain Cart with Auger (Self  
- Propelled)
- 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:**