



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

2016



Dear Producer,

USDA's National Agricultural Statistics Service (NASS) is conducting the second phase of the Agricultural Resource Management Survey (ARMS). Each year, the survey gathers information on production practices for different selected commodities. In 2016, the ARMS focuses on nutrient and fertilizer use, your conservation tillage, pest management practices for U.S. corn and fall potato production.

We collect all responses to this survey in person. During the interview, our representative will ask you several detailed questions about the types of pesticides and fertilizers you use on your crops. To make the interview process quicker, please have your spray records available. If you use a commercial chemical company, please make sure that your records can be accessible.

The results of this survey will help agricultural leaders and decision-makers better understand how producers cope with business challenges, adapt to policy changes, and make decisions about chemical use, new technologies and many other aspects of farming. Analysis will identify the links between seed use, pest management strategies, and tillage choices.

Your participation is important. By responding to this survey 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.

Thank you in advance for your time and for your investment in the future of U.S. agriculture.

Sincerely,

Joseph L. Parsons  
Chair, Agricultural Statistics Board  
National Agricultural Statistics Service  
U.S. Department of Agriculture

Enclosures

**SEED TREATMENT PRODUCT CODE LIST**

**Section B, Item 22**

100 42-S Thiram	155 Cruiser	200 Maxim	254 T-22™ HC
101 Abpro™ (component B)	156 Cruiser Extreme®	201 Maxim® 4 FS	255 Taegro Biofungicide
102 Acceleron	157 Cruiser® 5FS	202 Maxim® Quattro	256 Tebucon 3.6F
103 Acceleron® D-805	158 Dithane	203 Maxim® XL	257 Tebuconazole 3.6
104 Acceleron™ DC-309	159 Dithane M45®	204 Messenger® Gold	258 Tebuconazole 3.6 Select
405 Acceleron™ DC-509	160 Dithane® 75DF	205 Metalaxyl 4.0 ST	259 Tebu-Crop 3.6F
106 Acceleron® DX-109	Rainshield®	206 Metastar™ ST	260 Tebucure Fungicide 3.6
107 Acceleron® DX-309	161 Dithane® DF Rainsheid®	207 Metlock®	261 Tebusha
108 Acceleron® DX-509	162 Dithane® F45	208 Metlock® Ct Fungicide	262 Tebuzol
109 Acceleron DX-612	Rainshield®	209 Mycostop®	263 Tebuzol™ 3.6F
110 Acceleron® DX-709	163 Dyna-Shield	210 N-Hibit	264 Thiram® Granuflo
111 Acceleron™ HX-209	164 Dyna-shield Fludioxonil	211 N-Hibit® Gold CST	265 Toledo® 3.6F
112 Acceleron™ IC-609	165 Dyna-Shield® Imidacloprid	212 N-Hibit® HX-209	266 Trilex
113 Acceleron™ IX-409	5	213 NipsIt	267 Trilex® 2000
114 Acquire	166 Dyna-shield® Metalaxyl	214 NipsIt INSIDE®	268 Trilex® Flowable
115 Actinogrow	167 Dyna-shield® Metalaxyl	215 Penncozeb	269 Vault
116 Actinogro™ ST	318 Fs	216 Penncozeb® 4FL Flowable	270 Vault® Hp
117 Agri Star	168 Dynasty®	217 Penncozeb® 75DF Dry	271 Vibe
118 Agri Star Fludiozonil 4i ST	169 Emesto Prime	218 Flowable	272 Vibrance™ Fungicide
119 Agri Star Metalaxyl® 265	170 Employ®	219 Penncozeb® 80WP	273 Vitaflo
ST	171 Employ® H&T	220 Pilot™ 4e	274 Vitaflo™ 280
120 Agri Star® Macho™ 600	172 Evergol Energy Sb	221 Poncho	275 Vortex®
ST	173 EverGol™ Energy	222 Poncho® 600	276 VOTIVO™ FS
121 Agrisolutions	174 Flint®	223 Poncho® VOTIVO™	277 X-Cyte
122 Agrisolutions™ Concur™	175 Gaucho	224 ProAct®	278 Yield Shield®
123 Agrisolutions™ Nitro	176 Gaucho® 480 Flowable	225 Proline® 480 SC	999 Other
Sheild®	177 Gaucho® 600 Flowable	226 Protégé	3 Seed treatment not applied
124 Allegiance	178 Gaucho® Sb Flowable	227 Protégé™ FL	
125 Allegiance® Dry	179 Grandevo®	228 Provoke ST	
126 Allegiance® FL	180 Grandevo® Pto	229 Rancona	
127 Allegiance® LS	181 Gravity® Pgs	230 Rancona® 3.8 FS	
128 AmTide	182 Heads Up© Plant	231 Raxil® 2.6F	
129 AmTide Tebu 3.6F	183 Protectant	232 Regalia®	
130 Apron	184 Heads Up© Seed	233 Regalia® Pro	
131 Apron® XL	Treatment	234 Regalia® Rx	
132 Armortech ® Teb 360 XL	185 Hm-1345 Flowable	235 Release® LC	
133 Ascent™	186 Integral	236 Rizolex™	
134 Attendant	187 Kernel Guard	237 Rootshield® Wp	
135 Attendant® 600	188 Kernel Guard® Supreme	238 S-Cloprid 4 AG	
135 Avicta	189 KickStand	239 Sativa	
137 Avicta® 500 FS	190 KickStand™ PGR	240 Sativa® 309 FS	
138 Avicta® Complete 250	191 Kodiak	241 Sativa®318 FS	
139 Avicta® Complete 500	192 Latitude	242 Sebring	
140 Avicta® Duo	193 Lesco® Flowable	243 Sebring™ 2.65 ST	
141 Avicta® Duo 250	Mancozeb	244 Sebring™ 318 FS	
142 AXCESS™	194 Lorsban® 50W in water	245 Sebring™480 FS	
143 Axiom®	soluble packets	246 Senator	
145 Ballard Plus	195 Lumivia™	247 Senator® 600 FS	
146 Belmont	196 Macho® 480 ST	248 Serenade ASO	
147 Belmont™ 2.7 FS	197 Manzate Flowable	249 Sharda Imidacloprid 5SC	
148 Bonide Mancozeb w/Zinc	198 Manzate Pro Stick	250 Signet	
Concentrate	199 Massivo™ Bionik™	251 Signet™ 480 FS	
149 Cabrio™ EG		252 Sonata	
150 Captan		253 Spirato 480 FS	
151 Captan 4L			
152 Captan 400			
153 Captan 400-C			
154 Consensus™ Seed			
Treatment			

## 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, Column 2

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** = 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	40538	2,4-D Amine 4	1381-103	L	H	40727	BICEP LITE II MAGNUM HERBICIDE	100-827
L	H	40752	2,4-D AMINE 6	42750-21	L	H	40745	BRAWL	100-816
L	H	41501	2,4-D AMINE WEED KILLER	84009-4	L	H	40746	BRAWL II	100-818
L	H	40657	2,4-D LV4	1381-102	L	H	40726	BRAWL II ATZ	100-817
L	H	40580	2,4-D LV6	1381-101	L	H	41128	BREAKFREE ATZ HERBICIDE (DUPONT)	352-724
L	H	40128	AATREX 4L HERBICIDE	100-497	L	H	41332	BREAKFREE ATZ LITE (DUPONT)	352-723
D	H	40143	AATREX NINE-O HERBICIDE	100-585	L	H	41315	BREAKFREE HERBICIDE (DUPONT)	352-722
L	H	40595	AFG ORIGINAL	34704-889	L	H	41386	BUCCANEER 5 EXTRA HERBICIDE	55467-15
L	H	40529	AFG PLUS	34704-890	L	H	40951	BUCCANEER GLYPHOSATE HERBICIDE	55467-10
D	F	70809	AFLA-GUARD GR	100-1469	L	H	40648	BUCCANEER PLUS GLYPHOSATE HERBICIDE	55467-9
L	H	41316	ARMEZON HERBICIDE	7969-262					
D	F	70529	ASPERGILLUS FLAVUS AF36	71693-1	L	H	40955	CADENCE ATZ HERBICIDE	62719-368
L	H	40134	ATRAZINE 4L	34704-69	L	H	40617	CADENCE HERBICIDE	62719-367
D	H	40147	ATRAZINE 90 WDG HERBICIDE	34704-622	L	H	40956	CADENCE LITE ATZ HERBICIDE	62719-479
D	H	40150	ATRAZINE 90DF	66222-37	L	H	41129	CADET HERBICIDE	279-3338
D	I	11310	AZTEC 2.1% GRANULAR INSECTICIDE	5481-9030	L	H	40917	CALLISTO HERBICIDE	100-1131
D	I	11311	AZTEC 4.67% GRANULAR INSECTICIDE	5481-9028	L	H	41119	CAPRENO	264-1063
					D	I	11023	CAPTURE 1.15G INSECTICIDE/MITICIDE	279-3244
L	H	41118	BALANCE FLEXX HERBICIDE	264-1067	L	I	11031	CAPTURE 2 EC INSECTICIDE/MITICIDE	279-3069
L	H	40893	BALANCE PRO HERBICIDE	264-600	L	I	11280	CAPTURE LFR SOIL INSECTICIDE	279-3302
L	H	41061	BANVEL + ATRAZINE BASIS BLEND HERBICIDE (DUPONT)	66330-286	L	I	11038	CAVALRY	100-1112
D	H	41323	BASIS BLEND HERBICIDE (DUPONT)	352-854	L	H	40745	CHARGER BASIC	100-816
D	H	40699	BASIS GOLD HERBICIDE	352-585	L	H	40746	CHARGER MAX	100-818
D	H	40622	BASIS HERBICIDE (DUPONT)	352-571	L	H	40726	CHARGER MAX ATZ	100-817
L	H	40726	BICEP II MAGNUM HERBICIDE	100-817	L	H	40727	CHARGER MAX ATZ LITE	100-827

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D/L	Class	Code	Product Name	EPA #	D/L	Class	Code	Product Name	EPA #
L	H	40954	CINCH ATZ HERBICIDE (DUPONT)	352-624	L	H	40977	GLYPHOSATE 4 HERBICIDE	51036-312
L	H	41020	CINCH ATZ LITE HERBICIDE (DUPONT)	352-623	L	H	41053	GLYPHOSATE 41% PLUS	42750-61
L	H	40985	CINCH HERBICIDE (DUPONT)	352-625	L	H	40506	GRAMOXONE INTEON	100-1217
L	H	40570	CLARITY HERBICIDE	7969-137	L	H	41283	GRAMOXONE SL 2.0	100-1431
L	I	10008	COMITE	400-104	L	H	40922	GUARDSMAN MAX HERBICIDE	7969-192
L	I	10527	COMITE II	400-154					
L	H	40941	CORNERSTONE	1381-191	L	H	41112	HALEX GT HERBICIDE	100-1282
L	H	40520	CORNERSTONE PLUS	1381-192	L	H	40692	HARNESS	524-473
L	H	41328	CORNERSTONE PLUS 5	1381-241	D	H	40737	HARNESS 20G GRANULAR HERBICIDE	524-487
L	H	41117	CORVUS HERBICIDE	264-1066	L	H	40736	HARNESS XTRA 5.6L HERBICIDE PREMIX FOR CORN	524-485
L	H	41039	DEGREE	524-496	L	H	40630	HARNESS XTRA HERBICIDE	524-480
L	H	40876	DEGREE XTRA	524-511	L	F	70695	HEADLINE AMP	7969-291
L	H	40430	DICAMBA DMA 2# AG	66330-277	L	F	70549	HEADLINE FUNGICIDE	7969-186
L	H	40962	DICAMBA DMA 4# AG	66330-276	L	F	70790	HEADLINE SC	7969-289
L	H	40746	DUAL II MAGNUM HERBICIDE	100-818	L	I	11031	HELENA BIFENTHRIN 2EC	279-3069
L	H	40747	DUAL II MAGNUM SI HERBICIDE	100-829	L	I	11228	HERO INSECTICIDE	279-3315
D	H	40829	DUAL IIG MAGNUM GRANULAR HERBICIDE	100-910	D	H	40618	HORNET	62719-253
L	H	40745	DUAL MAGNUM HERBICIDE	100-816	D	H	40931	HORNET WDG	62719-315
D	H	41313	DUPONT INSTIGATE HERBICIDE	352-873	L	H	40955	KEYSTONE HERBICIDE	62719-368
L	H	41136	DYRANAX	62719-556	L	H	40956	KEYSTONE LA HERBICIDE	62719-479
L	H	41136	DURANGO DMA	62719-556	L	H	41111	LAUDIS HERBICIDE	264-860
D	I	10565	FORCE 3G INSECTICIDE	100-1075	D	H	41228	LEADOFF HERBICIDE (DUPONT)	352-853
L	I	11422	FORCE CS INSECTICIDE	100-1253	L	H	41306	LEXAR EZ HERBICIDE	100-1414
L	H	40689	FULTIME HERBICIDE	62719-371	L	H	41052	LEXAR HERBICIDE	100-1201
L	H	41023	GLY-4 HERBICIDE	42750-60	L	H	41161	LIBERTY 280 SL HERBICIDE	264-829
L	H	40675	GLYFOS X-TRA	4787-23	L	H	40729	LIBERTY HERBICIDE	264-660
L	H	40910	GLYPHOMAX	62719-323	L	H	40938	LOW VOL 6 ESTER WEED KILLER	34704-125
L	H	40950	GLYPHOSATE	34704-866	L	H	41307	LUMAX EZ HERBICIDE	100-1442
					L	H	40952	LUMAX SELECTIVE HERBICIDE	100-1152

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L	H	40975	MAD DOG GLYPHOSATE (ORIGINAL)	71368-20	L	F	70525	QUILT FUNGICIDE	100-1178
L	H	40977	MAD DOG I GLYPHOSATE (ORIGINAL)	51036-312	L	F	70726	QUILT XCEL FUNGICIDE	100-1324
L	H	40178	MEDAL HERBICIDE	100-964					
L	H	40934	MEDAL II HERBICIDE	100-965	D	H	41309	REALM Q HERBICIDE (DUPONT)	352-837
L	H	40942	MIRAGE	524-445	D	H	41134	RESOLVE Q HERBICIDE (DUPONT)	352-777
					D	H	41297	RESOLVE SG HERBICIDE (DUPONT)	352-748
L	H	40081	NUFARM CREDIT	71368-65	L	H	40661	ROUNDUP EXPORT HERBICIDE	524-308
L	H	41045	NUFARM CREDIT DUO HERBICIDE	71368-25	L	H	40942	ROUNDUP HERBICIDE	524-445
L	H	41046	NUFARM CREDIT DUO XL HERBICIDE	71368-36	L	H	41007	ROUNDUP ORIGINAL 2K HERBICIDE	524-539
L	H	40975	NUFARM CREDIT HERBICIDE	71368-20	L	H	41162	ROUNDUP ORIGINAL II HERBICIDE	524-454
					L	H	40509	ROUNDUP POWERMAX	524-549
L	H	40932	OUTLOOK HERBICIDE	7969-156	L	H	41042	ROUNDUP POWERMAX II	524-537
					L	H	41159	ROUNDUP ULTRA HERBICIDE	524-475
L	H	41062	PARALLEL	66222-87	L	H	40842	ROUNDUP ULTRAMAX	524-512
L	H	40655	PENDANT 3.3EC HERBICIDE	241-337	L	H	40519	ROUNDUP VM HERBICIDE	524-544
D	I	10565	PRECEPT HERBICIDE	100-1075					
D	H	41149	PREQUEL HERBICIDE (DUPONT)	352-779	L	H	40372	SALVO	34704-609
L	F	70916	PRIAXOR D FUNGICIDE	7969-361	L	H	41135	SHARPEN POWERED BY KIXOR HERBICIDE	7969-278
L	F	70764	PRIAXOR XEMIUM BRAND FUNGICIDE	7969-311	L	H	40942	SILHOUETTE HERBICIDE	524-445
L	H	40857	PRINCEP 4L HERBICIDE	100-526	L	H	40163	SIMAZINE 4L	9779-296
D	H	40356	PRINCEP CALIBER 90 HERBICIDE	100-603	D	H	40615	SIMAZINE 90 WDG	34704-686
L	H	40922	PROPEL ATZ HERBICIDE	7969-192	D	H	40440	SIMAZINE 90DF	19713-252
L	H	40932	PROPEL HERBICIDE	7969-156	L	H	40922	SORTIE ATZ HERBICIDE	7969-192
L	I	11167	PROVINCE II INSECTICIDE	100-1295	L	H	40932	SORTIE HERBICIDE	7969-156
L	I	11038	PROVINCE INSECTICIDE	100-1112	D	H	41110	STATUS HERBICIDE	7969-242
L	H	40655	PROWL 3.3 EC HERBICIDE	241-337	L	H	40875	STERLING	1381-190
L	H	41010	PROWL H2O HERBICIDE	241-418	L	H	41348	STERLING BLUE	1381-248
					L	F	70473	STRATEGO FUNGICIDE	264-779

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D/L	Class	Code	Product Name	EPA #	D/L	Class	Code	Product Name	EPA #
L	F	70768	STRATEGO YLD FUNGICIDE	264-1093	L	H	41137	VERDICT POWERED BY KIXOR HERBICIDE	7968-279
L	H	41115	SURESTART HERBICIDE	62719-570	L	H	40959	VOLLEY ATZ LITE TENKOZ HERBICIDE	55467-6
L	H	41535	SURESTART II	62719-679	L	H	41132	VOLLEY ATZ TENKOZ HERBICIDE	55467-7
D	H	40672	SURPASS 20-G GRANULAR HERBICIDE	62719-370					
L	H	40617	SURPASS EC HERBICIDE	62719-367	L	H	41113	WARRANT	524-591
L	H	41586	SURPASS NXT	62719-672	L	I	11167	WARRIOR II WITH ZEON TECHNOLOGY	100-1295
					L	I	11038	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	100-1112
L	H	40297	TOPRAMEZONE SC HERBICIDE	5481-524	L	H	40583	WEEDONE 650 HERBICIDE	35935-6
L	H	40989	TOUCHDOWN CF HERBICIDE	100-1157					
L	H	40510	TOUCHDOWN CT HERBICIDE	100-1212	D	H	41285	ZIDUA HERBICIDE	7969-338
L	H	40918	TOUCHDOWN HERBICIDE	100-1117					
L	H	40534	TOUCHDOWN HITECH HERBICIDE	100-1182					
L	H	40238	TOUCHDOWN TOTAL	100-1169					
L	H	41115	TRIPLEFLEX HERBICIDE	62719-570					

<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

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**Notes:**

## NOTES

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