



## 2019 Production Practices and Costs Report Respondent Booklet

Every year USDA conducts the Agricultural Resource Management Survey (ARMS). The survey gathers information on production practices, nutrient and fertilizer use, tillage practices, and pest management practices for different commodities each year.

A USDA representative from NASDA (National Association of State Departments of Agriculture) will work with you in person to collect your responses. During the interview, our representative will ask you several detailed questions about the types of pesticides you use on your crops. To make the interview process go faster, please have your spray records available. If you used a commercial chemical company, please make sure those records are accessible.

This booklet will help you and our representative find and record the correct pesticide products. The booklet lists registered label names of products, along with their Environmental Protection Agency (EPA) registration number. If you do not find the correct product listed in this booklet, record where the product was purchased or as much information about the product as possible.

**Your participation is important.** By responding to this survey, you can help USDA compile an accurate picture of farming in the United States. This will ensure that decisions impacting the well-being of farms are based on accurate, timely information.

**Your data is confidential.** The results of this survey will be combined with other responses, ensuring that no individual operation or producer can be identified, as required by federal law.

Thank you for participating and for your support of our programs and U.S. agriculture. If you have any questions, please feel free to contact us at 1-888-424-7828, or visit:

<http://www.nass.usda.gov/go/arms>.

Sincerely,

Joseph L. Parsons  
Chair, Agricultural Statistics Board  
Enclosure

**2019 FIELD OFFICES -SAMPLED STATES by REGION**

Barley (14), cotton (11), Sorghum (13)  
 Production Practices and Cost Report - PPCR

<b>BARLEY ONLY</b>	<b>COTTON ONLY</b>	<b>SORGHUM ONLY</b>
<ul style="list-style-type: none"> <li>• Idaho</li> <li>• Minnesota</li> <li>• Montana</li> <li>• North Dakota</li> <li>• Oregon</li> <li>• Pennsylvania</li> <li>• Virginia</li> <li>• Washington</li> <li>• Wisconsin</li> <li>• Wyoming</li> </ul>	<ul style="list-style-type: none"> <li>• Alabama</li> <li>• Arkansas</li> <li>• Georgia</li> <li>• Louisiana</li> <li>• Mississippi</li> <li>• North Carolina</li> <li>• South Carolina</li> <li>• Tennessee</li> </ul>	<ul style="list-style-type: none"> <li>• Kansas</li> <li>• Nebraska</li> <li>• New Mexico</li> </ul>

<b>BARLEY &amp; COTTON</b>	<b>BARLEY &amp; SORGHUM</b>
<ul style="list-style-type: none"> <li>• Arizona</li> <li>• California</li> </ul>	<ul style="list-style-type: none"> <li>• Colorado</li> <li>• South Dakota</li> </ul>

<b>COTTON &amp; SORGHUM</b>
<ul style="list-style-type: none"> <li>• Missouri</li> <li>• Oklahoma</li> <li>• Texas</li> </ul>

**SEED TREATMENT CODE LIST**

Section B - Barley (Item 12b), Cotton (Item 14b), Sorghum (Item 13b)

Code	Product Trade Name	Code	Product Trade Name	Code	Product Trade Name
101	Abpro™ (component B)	298	Cruiser Maxx® Vibrance™ Cereals	203	Maxim® XL
106	Acceleron® DX-109	405	Cruiser Vibrance Quattro	312	Mertect® 340-F
107	Acceleron® DX-309	157	Cruiser® 5FS	129	Mertect® LSP
110	Acceleron® DX-709	115	Dithane M45®	204	Messenger® Gold
401	Acceleron™ Basic	406	Dithane® DF Rainshield®	339	Metalaxyl 265 ST
109	Acceleron™ DX-612	395	Dithane® F45 Rainshield®	205	Metalaxyl 4.0 ST
103	Acceleron™ ELITE plus	116	Dividend Extreme®	357	Metlock®
111	Acceleron™ HX-209	117	Dividend XL RTA®	335	Metlock® Ct
377	Acceleron™ IN-210	130	DuPont™ ManKocide®	212	N-Hibit® HX-209
384	Acceleron™ IX-409	164	Dyna-shield® Fludioxonil	214	NipsIt INSIDE®
102	Acceleron™ Standard	389	Dyna-Shield® Foothold® Virock	135	NipsIt™ Suite Cereals OF
114	Acquire™	387	Dyna-shield® Foothold™	334	Nu-Flow® CT
286	Actinovate® AG	386	Dyna-shield® Foothold™ Extra	380	Nu-Flow® M-HF
383	Aeris®	165	Dyna-Shield® Imidacloprid 5	408	Nusan® 30 E.C.
355	Agri Star Fludioxonil® 4L ST	166	Dyna-shield® Metalaxyl	136	Penncozeb® 75DF
119	Agri Star Metalaxyl® 265 ST	167	Dyna-Shield® Metalaxyl 318 FS	137	Penncozeb® 80WP
378	Agri Star Metalaxyl® 4.0 ST	123	Dyna-shield® Small Grains™	222	Poncho® 600
399	Agri Star® Macho™ 480 ST	168	Dynasty®	409	Poncho® VOTIVO®
120	Agri Star® Macho™ 600 ST	350	Dynasty® CST	138	Prevail
381	Agri Star® TebuStar® 250 ST	170	Employ®	224	ProAct®
419	Agri Star® TebuStar® IM ST	304	Enhance®	139	Proceed™ Concentrate
125	Allegiance® Dry	305	Enhance® AW	140	Proceed™ MD
126	Allegiance® FL	173	EverGol™ Energy	375	PTZ 480 SC
127	Allegiance® LS	369	EverGol™ Prime	230	Rancona® 3.8 FS
131	Apron® XL	394	EverGol™ Xtend C	410	Rancona® Apex
104	Apron® XL LS	176	Gauchos® 480 Flowable	141	Rancona® Crest
133	Ascend™	177	Gauchos® 600 Flowable	314	Rancona® CTS
337	Ascend™ SL	112	Gauchos® Grande	396	Rancona® Pinnacle
362	Ascend™ WSG	178	Gauchos® SB Flowable	315	Rancona® Summit
291	Attendant® 480 FS	352	Gauchos® XT Flowable	143	Rancona® V 100 Pro FS
393	Attendant® 600 FS	113	Genero 600	316	Rancona® V RTU FS
338	Avicta® 500FS	392	Grain Guard	145	Raxil® 2.6F
108	Avicta® Complete Cotton	307	Gravity® SL PGS	146	Raxil® MD
372	Avicta® Duo COT202	185	Hm-1345 Flowable	341	Raxil® MD Extra
402	Avicta® Duo Cotton	128	Incentive RTA	148	Raxil® MD Extra W
356	Avicta® Elite Cotton Plus with Vibrance® CST	407	Intego™ Solo	149	Raxil® MD-W
142	AXCESS™	360	Intego™ Suite Cereals OF	370	Raxil® PRO MD
147	Belmont™ 2.7 FS	186	Integral®	331	Raxil® PRO Shield
152	Captan 400	190	KickStand™ PGR	151	Raxil® XT Wettable Powder
153	Captan 400-C	191	Kodiak®	150	Raxil®-thiram
367	Champ® Formula 2	196	Macho® 480 ST	232	Regalia®
403	Charter®	363	Macho® 600 ST	233	Regalia® PTO
374	Charter® F2	358	Manzate Max	234	Regalia® Rx
382	Charter® PB	397	Manzate ProStick™	411	Release®
154	Consensus™ Seed Treatment	329	Manzate® Flowable	359	Release® LC
404	Cruiser Maxx® Cereals	201	Maxim® 4 FS	412	Resonate 600 ST

**SEED TREATMENT CODE LIST (Continued)**  
 Section B, Barley (Item 12b), Cotton (Item 14b), Sorghum (Item 13b)

Code	Product Trade Name
236	Rizolex™
379	Rootshield®
328	Rootshield® AG
413	Rootshield® PLUS WP
385	RTU-Vitavax-Thiram
391	Ryzup Smartgrass®
366	SabrEx
332	Sativa® IM Max
348	Sativa® IM RTU Seed Treatment
368	Sativa® IMF Max
414	Sativa™ 309 FS
398	Sativa™ IMF RTU
340	Sativa™ IMF Sembolite MAX
349	Sativa™ M RTU
415	Sativa™ M2F RTU
244	Sebring™ 318 FS
245	Sebring™ 480 FS
346	Seed Shield™ Cotton

Code	Product Trade Name
247	Senator® 600 FS
249	Sharda Imidacloprid 5SC
320	Soil Triggrr®
321	Soil X-Cyto®
253	Spirato™ 480 FS
353	Spirato™ M 185 FS
323	Stamina®
351	Stamina® F3 Cereals
344	Stamina® F3 H
371	Stamina® F4 Cereals
324	Stimulate™ Yield Enhancer
347	Stoller X-Cyte®
354	Systiva® 309 FS
327	Systiva® XS Xemium
255	Taegro® Biofungicide
373	Thiram Technical
345	Thiram® 480 DP
416	Thiram® SC

Code	Product Trade Name
400	Trilex® Advanced
342	Trilex® Advanced System
268	Trilex® Flowable
330	Trio eXtra
364	Vibrance™
390	Vibrance™ CST
155	Vibrance™ Extreme
274	Vitaflo™ 280
333	Vitaflo™ 280-C
156	Vitavax-200
361	Vitavax-34
343	Vortex
417	VOTIVO™ 240 FS
376	Warden® Cereals
388	Warden® Cereals 360
336	Warden® Cereals HR
365	Warden® Cereals WR
418	Warden® Cereals WRII

**SEED PRODUCT CODE**  
Section B, Cotton - Item 18b

<b>Product Code</b>	<b>Product Trade Name</b>	<b>Product Code</b>	<b>Product Trade Name</b>
101	Bollgard 2 XtendFlex	501	GlyTol
102	Bollgard 3 XtendFlex	502	GlyTol LibertyLink
103	Conventional	503	GlyTol LibertyLink Bollgard 2
104	GlyTol LibertyLink TwinLink	504	GlyTol LibertyLink TwinLink
105	XtendFlex	505	GlyTol LibertyLink TwinLink Plus
201	Conventional	601	WideStrike 3, Genuity Roundup Ready Flex, Enlist
202	NexGen Bollgard 2 XtendFlex	602	WideStrike, Genuity Roundup Ready Flex
203	NexGen Bollgard 3 XtendFlex	603	Genuity Roundup Ready Flex
204	NexGen XtendFlex		
301	Bollgard 2 XtendFlex	701	Bollgard 2 XtendFlex
302	Bollgard # XtendFlex	702	Bollgard 3 XtendFlex
		703	GlyTol LibertyLink Bollgard 2
401	Bollgard 3 Xtend Flex	704	GlyTol LibertyLink TwinLink
402	Bollgard 2 XtendFlex	705	GlyTol LibertyLink TwinLink Plus
403	Genuity Bollgard 2 with Roundup Ready Flex	999	Other
405	Genuity Roundup Ready Flex		
406	Genuity Roundup Ready Flex Pima		
407	XtendFlex cotton		

**FEDERAL CROP INSURANCE COVERAGE**

Section B - Barley (Item 31a), Cotton (Item 36a), Sorghum (Item 32a)

- 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 based
- 3 Revenue based
- 4 Other Multi-Peril Crop Insurance

**FERTILIZER/PESTICIDE APPLICATION METHODS**

Section C, column 6 &amp; 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	---	---

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NOTES:



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## CHEMICALS and PESTICIDES for BARLEY

F = Fungicide, H = Herbicide, I = Insecticide, M = Misc. Other, MD = Defoliant/Dessicant, MG = Growth Regulator,  
 AS = Aqueous Suspension, D = Dry, DF = Dry Flowable, DG = Water-Dispersible Granules, E or EC = Emulsifiable Concentrate,  
 ES = Emulsifiable Solution, F = Flowable, G or GR = Granular, L = Liquid, LV = Low Volatility M or ME = Microencapsulated,  
 P = Pellets, S = Solution, S = Solution, SC = Soluble Concentrate, SL - Slurry, SP - Soluble Powder, W or WP - Wettable Powder,  
 WDG or WG = Water-Dispersible Granules, WSP = Water-Soluble Packets

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Form	Class	Code	Product Name	EPA #	Form	Class	Code	Product Name	EPA #
L	H	41501	2,4-D AMINE	1386-43	L	F	70490	BUMPER 41.8 EC	66222-42
L	H	40538	2,4-D AMINE 4	1381-103	L	H	40264	BUTYRAC 200	42750-38
L	H	40752	2,4-D AMINE 6	42750-21	L	MG	90098	CERONE	264-377
L	H	40936	2,4-D L.V. 6 ESTER	228-95	L	H	40603	CHIPTOX MCPA SODIUM (2L)	11685-20
L	H	41544	2,4-D LO-V ESTER	1386-60	L	H	40570	CLARITY	7969-137
L	H	40378	2,4-D LV ESTER 4	5905-90	L	H	40093	COLT AS	34704-895
L	H	40657	2,4-D LV4 (3.80 LBS/G)	1381-102	L	H	41212	COLT CF	34704-1019
L	H	40583	2,4-D LV6	35935-6	L	H	41213	COMET SELECTIVE HERBICIDE	71368-87
D	H	40438	ACCENT HERBICIDE	352-560	L	H	40941	CORNERSTONE	1381-191
D	H	40743	ACHIEVE 40DG	100-1105	L	H	40975	CREDIT	71368-20
L	H	40958	ACHIEVE SC	100-1130	L	H	40287	CURTAIL (EC)	62719-48
D	H	41827	AFFINITY BROADSPEC HERBICIDE	279-9601	L	H	40465	CURTAIL M (EC)	62719-86
D	H	41825	AFFINITY TANKMIX	279-9599	L	H	40965	DAGGER	228-267
L	H	40948	AIM EC	279-3241	L	H	40430	DICAMBA DMA 2# AG	66330-277
L	H	40949	AIM EW	279-3242	L	H	40962	DICAMBA DMA 4# AG	66330-276
L	H	41032	ALECTO 41S	9468-33	L	H	40961	DICAMBA DMA SALT	42750-40
D	H	41819	ALLY EXTRA	279-9589	L	I	10292	DIMETHOATE 4E	66330-223
D	H	41826	ALLY EXTRA SG	279-9603	L	I	10041	DIMETHOATE 4EC	19713-231
D	H	41821	ALLY XP	279-9575	L	I	10745	DIMILIN 2L	400-461
D	H	40493	AMBER	100-701	L	H	40891	DISCOVER	100-907
L	H	40757	AMINE 6	34704-646	L	H	40755	DMA	62719-2
D	H	41472	AMTIDE MSM 60DF	84229-42	L	H	41034	DOUBLE UP B+D	5905-552
L	H	40242	ASSERT	71368-62	L	I	12274	ENDIGO ZC	100-1276
L	H	40525	AXIAL	100-1199	L	MG	90199	ETHEPHON2	66330-262
L	H	41242	AXIAL STAR	100-1389	D	H	40925	EVEREST 70%	66330-49
L	H	40531	AXIAL XL	100-1256	D	H	41824	EXPRESS 2/TOTALSOL SOLUBLE GRANULES	279-9594
L	H	40245	BANVEL (4L)	7969-131	D	H	41820	EXPRESS XP (DF)	279-9578
L	H	40431	BANVEL SGF (2EC)	7969-135	L	H	40174	FAR-GO	10163-286
L	H	40632	BARRAGE HF	5905-529	D	H	40316	FAR-GO GRANULAR (10%)	10163-287
L	H	40403	BAS 452 18 H	7969-133	D	H	41822	FINESSE	279-9576
L	I	11046	BAYTHROID XL	264-840	L	F	70259	FOLICUR 3.6 F	264-752
L	H	40012	BISON	9779-347	L	H	40397	FORMULA 40	228-357
L	H	40084	BROMAC	34704-886	L	I	10487	FURY 1.5 EW	279-3126
L	H	40741	BROMOX/MCPA 2-2	71368-67	L	H	41136	GF - 1280	62719-556
L	H	40644	BRONATE (4EC)	264-438	D	H	40710	GLEAN FC (75DF)	352-522
L	H	40926	BRONATE ADVANCED	264-690	L	H	41053	GLY STAR PLUS	42750-61
L	H	40325	BROX-M	42750-52	L	H	40675	GLYFOS X-TRA	4787-23
L	H	40951	BUCCANEER	55467-10	L	H	40910	GLYPHOMAX	62719-323
L	H	40113	BUCTRIL (2EC)	264-437	L	H	41023	GLYPHOSATE 41%	42750-60
L	H	40114	BUCTRIL 4EC	264-540	L	MG	90182	GLYPHOSATE 41%	42750-60

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## CHEMICALS and PESTICIDES for BARLEY

F = Fungicide, H = Herbicide, I = Insecticide, M = Misc. Other, MD = Defoliant/Dessicant, MG = Growth Regulator,  
 AS = Aqueous Suspension, D = Dry, DF = Dry Flowable, DG = Water-Dispersible Granules, E or EC = Emulsifiable Concentrate,  
 ES = Emulsifiable Solution, F = Flowable, G or GR = Granular, L = Liquid, LV = Low Volatility M or ME = Microencapsulated,  
 P = Pellets, S = Solution, S = Solution, SC = Soluble Concentrate, SL - Slurry, SP - Soluble Powder, W or WP - Wetttable Powder,  
 WDG or WG = Water-Dispersible Granules, WSP = Water-Soluble Packets

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Form	Class	Code	Product Name	EPA #	Form	Class	Code	Product Name	EPA #
L	H	41053	GLYPHOSATE 41% PLUS	42750-61	D	H	40666	PEAK (WDG)	100-763
L	H	40506	GRAMOXONE INTEON	100-1217	L	I	10247	PENNCAP-M	70506-193
L	H	40180	GRAMOXONE SUPER	100-1002	D	F	70105	PENNCOZEB 75	70506-185
D	H	40086	GWN-3123 WDG	10163-300	L	I	11463	PRENTOX	89459-36
D	H	41807	HARMONY EXTRA TOTALSOL SG	279-9602	L	F	70610	PROLINE 480 SC	264-825
	H	41818	HARMONY EXTRA XP	279-9590	L	F	70485	PROPICONAZOLE EC	62719-346
D	H	41823	HARMONY GT XP	279-9577	L	F	70485	PROPIMAX	62719-346
D	H	41761	HARMONY SG	279-9595	L	F	70767	PROPI-STAR EC	42750-211
L	H	41209	HAT TRICK THREE WAY	34704-1017	L	F	70609	PROSARO 421 SC	264-862
L	F	70549	HEADLINE	7969-186	L	H	40892	PUMA 1EC (BRONATE PRO #1)	264-666
L	H	40329	HI-DEP (AKA ORCHARD MASTER)	2217-703	L	F	70709	QUADRIS	100-1098
L	H	41019	HM-2010	5905-542	L	F	70525	QUILT	100-1178
L	H	40942	HONCHO	524-445	L	H	40016	RECOIL BROAD SPECTRUM	71368-35
L	H	40065	HUSKIE	264-1023	L	H	40194	RHOMENE MCPA AMINE	11685-19
L	H	40649	IMITATOR PLUS	19713-526	L	H	40455	RHOMENE MCPA BROADLEAF HERBICIDE	228-143
L	H	41125	KORIL 2EC	71368-29	L	H	40370	RHONOX (EC)	11685-21
L	I	11148	LAMBDA-CY	70506-120	L	H	40620	RIFLE	34704-861
L	I	11038	LAMCAP	100-1112	L	H	40619	RIFLE-D	34704-869
L	I	10102	LORSBAN 4E	62719-23	L	MG	90491	RITEWAY	71368-60
L	H	40938	LOW VOL 6 ESTER WEED KILLER	34704-125	L	H	74104	ROUNDUP CUSTOM	524-343
L	H	40896	LV 400 2,4-D WEED KILLER	2217-77	L	H	41053	ROUNDUP ORIGINAL	42750-61
L	H	40595	MAD DOG	34704-889	L	H	41162	ROUNDUP ORIGINAL II	524-454
L	H	40108	MAESTRO ADVANCED	71368-77	L	H	41007	ROUNDUP ORIGINAL MAX	524-539
L	H	41024	MAESTRO D	71368-39	L	H	41007	ROUNDUP POWER MAX	524-539
L	I	10328	MALATHION 5	9779-5	L	H	40509	ROUNDUP POWER MAX	524-549
L	I	10324	MALATHION 5 EC	19713-217	L	H	41159	ROUNDUP ULTRA	524-475
L	I	10326	MALATHION 57 EC	34704-108	L	H	40843	ROUNDUP ULTRA MAX	71995-25
L	I	10307	MALATHION 8E	10163-21	L	H	41042	ROUNDUP WEATHER MAX	524-537
L	H	40452	MCP 4 ESTER	34704-992	L	H	40519	RT 3 HERBICIDE	524-544
L	H	40401	MCP AMINE 4	62719-13	L	H	40927	RT MASTER	524-531
L	H	40055	MCP ESTER	62719-573	L	H	41007	RT MASTER II	524-539
L	H	40589	MCPA ESTER 4	42750-23	L	H	40766	SABER	34704-803
L	H	40588	MCPA L.V. 4 ESTER	228-156	L	H	40372	SALVO	34704-609
L	H	41031	MEXTROL EC	71368-28	D	H	41165	SHARK	279-3194
L	H	40083	MILESTONE	62719-519	L	H	41135	SHARPEN	7969-278
L	F	70073	NUFARM PROPICONAZOLE 41.8 EC FUNGICIDE	228-670	L	H	40555	SOLVE 2,4-D	42750-22
L	H	41217	NUP-08131	71368-93	L	H	40590	SOLVE MCPA ESTER	42750-25
L	H	40415	OPTI-AMINE (AKA WEED RHAP A4D)	5905-501	D	H	41040	SPARTAN	279-3189
L	H	40066	ORION	100-1307	L	H	40890	STARANE + SALVO	34704-1010
L	H	41008	OUTLAW (AKA BUSHWHACKER)	42750-68	L	H	40933	STARANE + SWORD	34704-1011

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Y**CHEMICALS and PESTICIDES for BARLEY**

F = Fungicide, H = Herbicide, I = Insecticide, M = Misc. Other, MD = Defoliant/Dessicant, MG = Growth Regulator,  
 AS = Aqueous Suspension, D = Dry, DF = Dry Flowable, DG = Water-Dispersible Granules, E or EC = Emulsifiable Concentrate,  
 ES = Emulsifiable Solution, F = Flowable, G or GR = Granular, L = Liquid, LV = Low Volatility M or ME = Microencapsulated,  
 P = Pellets, S = Solution, S = Solution, SC = Soluble Concentrate, SL - Slurry, SP - Soluble Powder, W or WP - Wetttable Powder,  
 WDG or WG = Water-Dispersible Granules, WSP = Water-Soluable Packets

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Form	Class	Code	Product Name	EPA #
L	H	40715	STARANE EC	62719-286
L	H	41215	STARANE FLEX	62719-604
L	H	40062	STARANE NXT	62719-557
L	H	40060	STARANE ULTRA	62719-577
D	I	11628	STEWART EC	279-9596
L	F	70473	STRATEGO	264-779
L	F	70699	TEBUCONAZOLE 3.6L	42750-99
L	F	70072	TILT	100-617
L	I	10978	TOMBSTONE	34704-912
L	H	40388	TORDON 22K SPECIALTY	62719-6
L	H	40918	TOUCHDOWN HERBICIDE	100-1117

Form	Class	Code	Product Name	EPA #
L	H	40292	TRIFLUREX HFP	66222-46
L	I	11167	WARRIOR II WITH ZEON TECHNOLOGY	100-1295
L	I	11038	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	100-1112
L	H	40096	WEEDAR 64 BROADLEAF	71368-1
L	H	41250	WEEDMASTER	71368-34
L	H	40404	WEEDONE 638	71368-3
L	H	40407	WEEDONE LV6	71368-6
L	H	40966	WEED-RHAP MCPA ESTER	5905-506
L	H	41013	WIDEmATCH	62719-512
L	H	41035	WILDCARD XTRA	5905-550
L	H	40070	WOLVERINE	264-1075

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N**CHEMICALS and PESTICIDES for COTTON**

F = Fungicide, H = Herbicide, I = Insecticide, M = Misc. Other, MD = Defoliant/Dessicant, MG = Growth Regulator,  
 AS = Aqueous Suspension, D = Dry, DF = Dry Flowable, DG = Water-Dispersible Granules, E or EC = Emulsifiable Concentrate,  
 ES = Emulsifiable Solution, F = Flowable, G or GR = Granular, L = Liquid, LV = Low Volatility M or ME = Microencapsulated,  
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 WDG or WG = Water-Dispersible Granules, WSP = Water-Soluble Packets

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Form	Class	Code	Product Name	EPA #	Form	Class	Code	Product Name	EPA #
L	H	40479	2,4-D AMINE 4	42750-19	L	H	41303	COMPACT	1381-189
L	H	40752	2,4-D AMINE 6	42750-21	L	H	40941	CORNERSTONE	1381-191
L	H	41501	2,4-D AMINE WEED KILLER	84009-4	L	H	40282	COTORAN 4L	66222-181
L	I	11621	ABBA ULTRA MITICIDE/INSECTICIDE	5481-621	L	O	90749	DAZE 4SC	1381-212
D	I	10746	ACEPHATE 75 SP	70506-1	L	O	90653	DEF 6 EMULSIFIABLE DEFOLIANT	5481-9023
D	I	10604	ACEPHATE 75SP	66330-354	L	O	90693	DFT 6 EC COTTON DEFOLIANT	34904-867
D	I	10653	ACEPHATE 90 SP	70506-2	L	H	41349	DICAMBA DGA 4SC	42750-209
D	I	10651	ACEPHATE 90 SP COTTON INSECTICIDE	66222-122	L	H	40430	DICAMBA DMA 2# AG	66330-277
D	I	11346	ACEPHATE 90 WDG	34704-1051	L	H	40962	DICAMBA DMA 4# AG	66330-276
D	I	10979	ACEPHTE 90SP	66330-356	L	H	41184	DIREX 4L	66222-237
D	I	10972	ACEPHATE 97UP INSECTICE	70506-8	L	H	40154	DIURON 4L	66222-54
L	I	11437	ACETO BIFENTHRIN 2 EC	2749-556	L	H	40155	DIURON 4L	9779-329
L	I	11179	ADVISE 2FL	1381-205	L	H	41187	DIURON 4L HERBICIDE	34704-854
L	H	40529	AFG PLUS	34704-890	D	I	10603	DREXEL ACEPHATE 75 WSP	19713-400
L	I	11328	AGRI-MEX SC MITICIDE/INSECTICIDE	100-1351	L	O	90294	DREXEL DEFOL 5	19713-388
L	H	40948	AIM EC	279-3241	L	H	40152	DREXEL DIURON 4L HERBICIDE	19713-36
L	H	40961	ALBAUGH DICAMBA DMA SALT	42750-40	L	O	90410	DROPP SC COTTON DEFOLIANT	264-700
L	H	40477	AMINE 400 2,4-D WEED KILLER	2217-2	L	H	40746	DUAL II MAGNUM HERBICIDE	100-818
L	I	10968	AMINO 2.5 EC INSECTICIDE	279-3027	L	H	40747	DUAL II MAGNUM SI HERBICIDE	100-829
L	I	10294	AMVAC BIDRIN 8 WATER MISCIBLE INSECTICIDE	5481-448	L	H	40745	DUAL MAGNUM HERBICIDE	100-816
D	I	11001	ASSAIL 30 SG INSECTICIDE	8033-36	L	O	11274	ENDIGO ZC	100-1376
L	I	10336	BAYTHROID 2 EMULSIFIABLE PYRETHROID INSECTICIDE	264-745	L	H	41712	ENGENIA HERBICIDE	7969-345
L	I	11393	BESIEGE INSECTICIDE	100-1402	L	H	41513	ENLIST DUO	62719-649
L	I	11551	BIDRIN XP	5481-552	D	H	41022	ENVOKE HERBICIDE	100-1132
L	I	11546	BIDRIN XP II	5481-9024	L	H	40967	ET HERBICIDE/DEFOLIANT	71711-7
L	I	11360	BIFEN 2EC AG INSECTICIDE/MITICIDE	83222-1	L	O	90199	ETHEPHON 2#	66330-262
L	I	11252	BIFENTHRIN 7.9 INSECTICIDE	53883-159	L	O	90275	ETHEPHON 6	66330-250
L	I	11585	BIFENTHRIN LFC 1.5	33270-33	L	O	90636	ETHEPHON E-AG 6 PLANT GROWTH REGULATOR	228-659
L	I	11032	BIFENTURE EC AGRICULTURAL INSECTICIDE	70506-57	L	I	10993	FANFARE 2EC	66222-99
L	O	90426	BOLL BUSTER	34704-856	L	O	90416	FINISH 6 PRO HARVEST AID FOR COTTON	264-703
L	O	90276	BOLL'D	9779-349	L	O	90631	FIRSTPICK COTTON HARVEST AID/DEFOLIANT	228-607
D	I	11353	BRACKET 90 WSP	1381-238	L	O	90041	FOLEX 6 EC	5481-504
L	I	11123	BRIGADE 2 EC INSECTICIDE/MITICIDE	279-3313	L	O	90566	FREEFALL SC COTTON DEFOLIANT	228-653
L	H	40951	BUCCANEER GLYPHOSATE HERBICIDE	55467-10	L	I	11092	GAUCHO 550 SC INSECTICIDE	264-827
L	H	40119	CAPAROL 4L HERBICIDE	100-620	L	O	90160	GINSTAR EC COTTON DEFOLIANT	264-634
L	I	11296	CAPTURE 2 EC-CAL INSECTICIDE/MITICIDE	279-3114	L	H	40675	GLYFOS X-TRA	4787-23
D	I	10918	CENTRIC 40WG	100-1147	L	H	40950	GLYPHOSATE	34704-866
L	H	40570	CLARITY HERBICIDE	7969-137	L	O	90182	GLYPHOSATE 41%	42750-60

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## CHEMICALS and PESTICIDES for COTTON

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Form	Class	Code	Product Name	EPA #	Form	Class	Code	Product Name	EPA #
L	H	41053	GLYPHOSATE 41% PLUS	42750-61	L	H	41363	PARAQUAT SL HERBICIDE	82557-1
L	H	40506	GRAMOXONE INTEON	100-1217	L	O	90438	PARAQUAT SL HERBICIDE	82557-1
L	H	41283	GRAMOXONE SL 2.0	100-1431	L	O	90392	PENTIA PLANT REGULATOR	7969-191
L	I	11168	GRIZZLY Z INSECTICIDE	1381-211	L	O	90099	PIX CONCENTRATE PLANT REGULATOR	66330-346
L	I	11131	HOLSTER INSECTICIDE	34704-875	D	O	90191	PIX DF PLANT REGULATOR	66330-349
L	I	11204	IMIDACLOPRID 2FL AG	42750-110	L	O	90420	PIX PLANT REGULATOR	66330-345
L	I	11281	IMIDACLOPRID 4FL AG	42750-140	L	O	90297	PIX PLUS PLANT REGULATOR	66330-351
L	I	10876	INTREPID 2F INSECTICIDE	62719-442	L	O	90033	PIX ULTRA PLANT REGULATOR	66330-350
L	I	10351	KARATE 1EC	100-998	L	O	90552	POTENZA	34704-974
L	I	11005	KARATE EC-W INSECTICIDE	100-1086	L	O	90034	PREP BRAND ETHEPHON FOR COTTON AND TOBACCO	264-418
L	I	10739	KARATE INSECTICIDE WITH ZEON TECHNOLOGY	100-1097	L	F	70916	PRIAXOR D FUNGICIDE	7969-361
L	O	90482	KLEAN-PIC 500SC	66222-124	L	F	70764	PRIAXOR XEMIU BRAND FUNGICIDE	7969-311
L	I	11015	KNACK INSECT GROWTH REGULATOR	59639-95	L	H	40655	PROWL 3.3 EC HERBICIDE	241-337
L	I	11148	LAMBDA CY EC INSECTICIDE	70506-120	L	H	41010	PROWL H2O HERBICIDE	241-418
L	H	41178	LATIGO	5905-564	L	H	40509	RD 1617 HERBICIDE	524-549
D	H	41228	LEADOFF HERBICIDE	352-853	L	I	11059	REAPER 0.15 EC	34704-923
L	I	11399	LIBERTY BIFENTHRIN 2 EC	89168-19	L	I	11409	REAPER CLEARFORM	34704-1078
L	I	11398	LIBERTY IMIDACLOPRID 4 SC	89168-23	L	H	40365	REFLEX HERBICIDE	100-993
L	I	11428	LIBERTY IMIDACLOPRID BIFENTHRIN	89168-21	L	H	40620	RIFLE HERBICIDE	94704-861
L	H	41711	M1768 HERBICIDE	524-617	L	I	10975	RIMON 0.83EC INSECTICIDE	66222-35
L	H	40281	MANA COTORAN 4L	66222-32	L	H	41004	ROUNDUP CUSTOM HERBICIDE	524-343
L	O	90568	MEP STAR	42750-74	L	H	40942	ROUNDUP HERBICIDE	524-445
L	O	90419	MEPEX	228-608	L	O	90167	ROUNDUP HERBICIDE	524-445
L	O	90181	MEPICHLOR 4.2% LIQUID	66330-241	L	H	41007	ROUNDUP ORIGINAL 2K HERBICIDE	524-539
L	O	90640	MEPIQUAT	34704-855	L	H	41162	ROUNDUP ORIGINAL II HERBICIDE	524-454
L	O	90412	MIPIQUAT CHLORIDE 4.2% LIQUID	66222-133	L	H	41096	ROUNDUP PROMAX	524-579
L	H	41266	METOLACHLOR 7.8	60063-24	L	H	41159	ROUNDUP ULTRA HERBICIDE	524-475
L	H	41113	MON 63410 HERBICIDE	524-591	L	H	40842	ROUNDUP ULTRAMAX	524-512
L	H	41042	MON78270 HERBICIDE	524-537	L	H	40229	ROUNDUP WEED & GRASS KILLER CONCENTRATE PLUS	71995-29
L	I	11160	MONTANA 2F INSECTICIDE	83100-7	L	H	40843	ROUNDUP WEED & GRASS KILLER SUPER CONCENTRATE	71995-25
L	H	40300	MSMA 6 PLUS	19713-42	L	H	40372	SALVO	34704-609
L	I	10159	NUFARM ABAMECTIN 0.15 EC INSECTICIDE	228-658	L	H	41041	SELECT 2EC HERBICIDE	59639-3
L	O	90677	NUFARM TDZ + DIURON SC COTTON DEFOLIANT	228-678	L	H	41025	SEQUENCE HERBICIDE	100-1185
D	I	10149	ORTHENE 75 S SOLUBLE POWDER	5481-8971	L	O	90488	SETUP 6SL	66222-136
D	I	10652	ORTHENE 90S	5481-8974	L	H	41125	SHARPEN POWERED BY KIXOR HERBICIDE	7969-278
D	I	10831	ORTHENE 97 PELLETS	5481-8978	L	I	11477	SIVANTO 200 SL	264-1141
L	H	40932	OUTLOOK HERBICIDE	7969-156	L	I	11124	SNIPER	34704-858
L	H	41066	PARAQUAT CONCENTRATE	82542-3	L	O	70558	STANCE PLANT REGULATOR	264-841

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N**CHEMICALS and PESTICIDES for COTTON**

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Form	Class	Code	Product Name	EPA #	Form	Class	Code	Product Name	EPA #
D	H	40656	STAPLE HERBICIDE	352-576	L	H	40238	TOUCHDOWN TOTAL	100-1169
L	H	40001	STAPLE LX HERBICIDE	352-613	D	I	11392	TRANSFORM WG	62719-625
L	H	40875	STERLING	1381-190	L	H	41047	TREFLAN 4L HERBICIDE	34704-853
L	H	41248	STERLING BLUE	1381-248	L	O	90684	TRIBUFOS 6	85678-15
L	H	41217	STRUT HERBICIDE	34704-1043	L	H	40550	TRIFLURALIN 4 E.C.	5905-519
L	O	90664	SUPER BOLL	228-709	L	I	11134	TRIMAX INSECTICIDE	264-783
D	H	41017	SUPREND HERBICIDE	100-1163	L	I	11159	TUNDRA EC	1381-196
L	O	90413	TAKEDOWN SC COTTON DEFOLIANT	34704-871	D	H	40014	VALOR HERBICIDE	59639-99
L	O	90414	THIDIAZURON 4SC	66330-334	D	H	40940	VALOR WP HERBICIDE	59639-98
L	O	90483	THIDIAZURON-DIURON SC	66330-344	L	I	11127	WRANGLER INSECTICIDE	34704-931
L	I	10978	TOMBSTONE	34704-912	D	H	41285	ZIDUA HERBICIDE	7969-338
L	H	40918	TOUCHDOWN HERBICIDE	100-1117					

## CHEMICALS and PESTICIDES for SORGHUM

F = Fungicide, H = Herbicide, I = Insecticide, M = Misc. Other, MD = Defoliant/Dessicant, MG = Growth Regulator,  
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Form	Class	Code	Product Name	EPA #	Form	Class	Code	Product Name	EPA #
L	H	41501	2,4-D AMINE	84009-4	L	H	40726	BICEP II MAGNUM	100-817
L	H	40539	2,4-D AMINE 4	1381-103	L	H	40727	BICEP LITE II MAGNUM	100-827
L	H	40752	2,4-D AMINE 6	42750-21	L	H	40012	BISON	9779-347
L	H	40936	2,4-D L.V. 6 ESTER	228-95	L	H	40084	BROMAC	34704-886
L	H	41544	2,4-D LO-V ESTER	84009-5	L	H	40741	BROMOX/MCPA 2-2	71368-67
L	H	40378	2,4-D LV ESTER 4	5905-90	L	H	40644	BRONATE (4EC)	264-438
L	H	40657	2,4-D LV4 (3.80 LBS/G)	1381-102	L	H	40926	BRONATE ADVANCED	264-690
L	H	40583	2,4-D LV6	35935-6	L	H	40325	BROX-M	42750-52
L	H	40128	AATREX 4L	100-497	L	H	40951	BUCCANEER	55467-10
D	H	40143	AATREX NINE-O (WP)	100-585	L	H	40648	BUCCANEER PLUS	55467-9
D	H	40438	ACCENT HERBICIDE	352-560	L	H	40113	BUCTRIL (2EC)	264-437
D	H	40743	ACHIEVE 40DG	100-1105	L	H	40114	BUCTRIL 4EC	264-540
L	H	40958	ACHIEVE SC	100-1130	L	H	40116	BULLETT	524-418
D	H	41825	AFFINITY TANKMIX	279-9599	L	F	70490	BUMPER 41.8 EC	66222-42
L	H	40529	AFG PLUS	34704-890	L	H	40264	BUTYRAC 200	42750-38
L	H	40948	AIM EC	279-3241	L	MG	90098	CERONE	264-377
L	H	40949	EIM EW	279-3242	L	H	41089	CHARGER MAZ ATZ	1381-199
L	H	41033	ALACHLOR 4 EC	524-314	L	H	40603	CHIPTOX MCPA SODIUM (2L)	11685-20
L	H	40052	ALB 40	42750-98	L	H	40985	CINCH	352-625
D	H	41819	ALLY EXTRA	279-9589	L	H	40954	CINCH ATZ	352-624
D	H	41826	ALLY EXTRA SG	279-9603	L	H	41020	CINTZ ATZ LITE HERBICIDE	352-623
D	H	41821	ALLY SP	279-9575	L	H	40570	CLARITY	7969-137
D	H	40493	AMBER	100-701	L	H	40093	COLT AS	34704-895
L	H	40757	AMINE 6	34704-646	L	H	41213	COMET SELECTIVE HERBICIDE	71368-87
D	H	41472	AMTIDE MSM 60DF	84229-42	L	H	40941	CORNERSTONE	1381-191
L	H	70242	ASSERT	71368-62	L	H	40975	CREDIT	71368-20
D	H	40786	ASSERT SG	71368-64	L	H	40287	CURTAL (EC)	62719-48
L	H	40134	ATRAZINE 4L	34704-69	L	H	40465	CURTAIN M (EC)	62719-86
L	H	40140	ATRAZINE 5L	19713-80	L	H	40965	DAGGER	228-267
D	H	40151	ATRAZINE 90D	9779-253	L	H	40876	DEGREE XTRA	524-511
L	H	40244	AVENGE (2L)	5481-537	L	H	40430	DICAMBA DMA 2# AG	66330-277
L	H	40525	AXIAL	100-1199		H	40962	DICAMBA DMA 4# AG	66330-276
L	H	41242	ACIAL STAR	100-1389	L	H	40961	DICAMBA DMA SALT	42750-40
L	H	40531	AXIAL XL	100-1256	L	I	10292	DIMETHOATE 4E	66330-223
L	H	40245	BANVEL (4L)	7969-131	L	I	10041	DIMETHOATE 4EC	19713-231
L	H	40431	BANVEL SGF (2EC)	7969-135	L	I	10745	DIMILIN 2L	400-461
L	H	40632	BARRAGE HF	5905-529	L	H	40891	DISCOVER	100-907
L	H	40403	BAS 452 18 H	7969-133	L	H	40755	DMA 6 WEED KILLER	62719-2
L	I	10336	BAYTHROID 2 (EC)	264-745	L	H	41034	DOUBLE UP B+D	5905-552
L	I	11046	BAYTHROID XL	264-840	L	H	41015	DREXEL TRIZMET II	19713-547

## CHEMICALS and PESTICIDES for SORGHUM

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Form	Class	Code	Product Name	EPA #
L	H	40746	DUAL II MAGNUM	100-818
L	H	40747	DUAL II MAGNUM SI	100-829
L	H	40745	DUAL MAGNUM	100-816
L	H	41063	DURANGO	62719-517
L	H	40530	3-99 HERBICIDE	62719-365
L	I	11274	ENDIGO ZC	100-1276
L	MG	90199	ETHEPHON 2	66330-262
L	H	40925	EVEREST 70%	66330-49
L	H	40981	EXPERT	100-1161
D	H	41824	EXPRESS W/TOTALSOL SOLUBLE GRANULES	279-9594
D	H	41820	EXPRESS XP (DF)	279-9578
L	H	40174	FAR-GO	10163-286
D	H	40316	FAR-GO GRANULAR (10%)	10163-287
D	H	41822	FINESE	279-9576
L	H	40009	FIVE STAR	42750-49
L	F	70259	FOLICUR 3.6 F	264-752
L	H	40397	FORMULA 40	228-357
L	I	10487	FURY 1.5 EW	279-3126
L	H	41136	GF - 1280	62719-556
D	H	40710	GLEAN FC (75DF)	352-522
L	H	40950	GLY STAR PLUS	34704-866
L	H	40675	GLYFOS X-TRA	4784-23
L	H	40910	GLYPHOMAX	62719-323
L	H	41023	GLYPHOSATE 41%	42750-60
L	H	41053	GLYPHOSATE 41% PLUS	42750-61
L	H	40953	G-MAX LITE	7969-200
L	H	41175	GRAMOXONE EXTRA	100-1043
L	H	40506	GRAMOXONE INTEON	100-1217
L	H	40180	GRAMOXONE SUPER	100-1002
L	H	40922	GUARDSMAN MAX	7969-192
D	H	40626	GWN - 3061	81880-2
D	H	40086	GWN-3123 WDG	10163-300
D	H	41807	HARMONY EXTRA TOTALSOL SG	279-9602
	I	11670	HARMONY EXTRA XP	279-9590
D	H	41823	HARMONY GT XP	279-9577
D	H	41761	HARMONY SG	279-9595
L	H	41209	HAT TRICK THREE WAY	34704-1017
L	F	70549	HEADLINE	7969-186
L	H	40329	HI-DEP (AKA ORCHARD MASTER)	2217-703
L	H	41019	HM-2010	5905-542

Form	Class	Code	Product Name	EPA #
L	H	40942	HONCHO	524-445
L	H	40065	HUSKIE	264-1023
L	H	40649	IMITATOR PLUS	19713-526
L	H	41137	INTEGRITY	7969-279
L	I	10351	KARATE (1EC)	100-998
L	I	10739	KARATE Z	100-1097
L	H	41125	KORIL 2EC	71368-29
L	H	41032	KULL 41S	9468-33
L	I	11149	LAMBDA-CY EC	70506-121
L	H	40337	LANDMASTER BW	524-351
L	H	40338	LARIAT (4F)	524-329
L	H	41033	LASSO	524-314
L	H	41052	LEXAR	100-1201
L	H	40938	LOW VOL 6 ESTER WEED KILLER	34704-125
L	H	40952	LUMAX	100-1152
L	H	40896	LV 400 2,4-D WEED KILLER	2217-77
L	H	40595	MAD DOG	34704-889
L	H	40108	MAESTRO ADVANCED	71368-77
L	H	41024	MAESTRO D	71368-39
L	I	10328	MALATHION 5	9779-5
L	I	10324	MALATHION 5 EC	19713-217
L	I	10326	MALATHION 57 EC	34704-108
L	I	10307	MALATHION 8E	10163-21
L	H	40452	MCP 4 ESTER	34704-992
L	H	40401	MCP AMINE 4	62719-13
L	H	40055	MCP ESTER	62719-573
L	H	40589	MCPA ESTER 4	42750-23
L	H	40588	MCPA L.V.4 ESTER	228-156
L	H	40178	MEDAL	100-964
L	H	40934	MEDAL II	100-965
L	H	41031	MEXTROL EC	71368-28
L	H	40083	MILESTONE	62719-519
L	H	40528	MIRAGE PLUS	34704-883
L	H	40724	MOXY 2E	9779-346
L	H	40928	NC - 398 WG	81880-13
L	F	70073	NUFARM PROPICONAZOLE 41.8 EC FUNGICIDE	228-670
L	H	41217	NUP-08131	71368-93
L	H	40415	OPTI-AMINE (AKA WEED RHAP A4D)	5905-501
L	H	40066	ORION	100-1307
L	H	41008	OUTLAW (AKA BUSHWHACKER)	42750-68



## CHEMICALS and PESTICIDES for SORGHUM

F = Fungicide, H = Herbicide, I = Insecticide, M = Misc. Other, MD = Defoliant/Dessicant, MG = Growth Regulator,  
 AS = Aqueous Suspension, D = Dry, DF = Dry Flowable, DG = Water-Dispersible Granules, E or EC = Emulsifiable Concentrate,  
 ES = Emulsifiable Solution, F = Flowable, G or GR = Granular, L = Liquid, LV = Low Volatility M or ME = Microencapsulated,  
 P = Pellets, S = Solution, S = Solution, SC = Soluble Concentrate, SL - Slurry, SP - Soluble Powder, W or WP - Wettable Powder,  
 WDG or WG = Water-Dispersible Granules, WSP = Water-Soluble Packets

Form	Class	Code	Product Name	EPA #	Form	Class	Code	Product Name	EPA #
L	H	40932	OUTLOOK	4969-136	L	H	40766	SABER	34704-803
L	H	41062	PARALLEL	66222-87	L	H	40916	SALVAN (CORNBELT)	11773-16
L	H	41122	PARALLEL PLUS	66222-132	L	H	40372	SALVO	34704-609
D	H	40978	PARAMOUNT HERBICIDE	7969-113	D	H	40495	SAVAGE	34704-606
D	H	40666	PEAK (WDG)	100-763	D	H	41165	SHARK	279-3194
L	U	10247	PENNCAP-M	70506-193	L	H	41135	SHARPEN	7969-278
D	F	70105	PENNCOZEB 75	40506-185	L	I	10158	SILENCER	66222-104
D	H	40833	PERMIT	81880-19	L	H	40555	SOLVE 2,4-D	42750-22
L	I	11463	PRENTOX	89459-36	L	H	40590	SOLVE MCPA ESTER	42750-25
L	F	70610	PROLINE 480 SC	264-825	D	H	41040	SPARTAN	279-3189
L	F	70485	PROPICONAZOLE EC	62719-346	L	H	41016	STALWARD C	60063-22
L	F	70767	PROPI-STAR EC	42750-211	L	H	40937	STARANE + SABER	34704-1012
L	F	70609	PROSARO 421 SC	264-862	L	H	40890	STARANE + SALVO	34704-1010
L	H	41010	PROWL H20	241-418	L	H	40933	STARANE + SWORD	34704-1011
L	H	40892	PUMA 1EC	264-666	L	H	41215	STARANE FLEX	62719-604
L	F	70709	QUADRIS	100-1098	L	H	40062	STARANE NXT	62719-557
L	F	70525	QUILT	100-1178	L	H	40060	STARANE ULTRA	62719-577
L	H	41139	RAGE D-TECH	279-3316	D	I	11628	STEWARD EC	279-9596
L	H	40886	RANGE STAR	42750-55	L	F	70473	STRATEGO	264-779
L	H	40016	RECOIL BROAD SPRECTRUM	71368-35	L	F	70699	TEBUCONAZOLE 3.6L	42750-99
L	H	40194	RHOMENE MCPA AMINE	11685-19	L	F	70072	TILT	100-617
L	H	40455	RHOMENE MCPA BROADLEAF HERBICIDE	228-142	L	I	10978	TOMBSTONE	34704-912
L	H	40370	RHONOX (EC)	11685-21	L	H	40388	TORDON 22K SPECIALTY	62719-6
L	H	40620	RIFLE	34704-861	L	H	40918	TOUCHDOWN HERBICIDE	100-1117
L	H	40619	RIFLE-D	34704-869	L	H	40238	TOUCHDOWN TOTAL	100-1169
L	H	40943	RITWAY	71368-60	L	H	41235	TRAXION GT	100-1293
L	H	41004	ROUNDUP CUSTOM	524-343	L	H	40292	TRIFLUREX HFP	66222-46
L	H	40475	ROUNDUP D-PAK	524-494	L	H	40967	VIDA	71711-7
L	H	40905	ROUNDUP L&G RTU	71995-8	L	H	41113	WARRANT (MON 63410)	524-591
L	H	40942	ROUNDUP ORIGINAL	524-445	L	I	11167	WARRIOR II WITH ZEON TECHNOLOGY	100-1295
L	H	41162	ROUNDUP ORIGINAL II	524-454	L	I	11038	WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY	100-1112
L	H	41007	ROUNDUP ORIGINAL MAX	524-539	L	H	40096	WEEDAR 64 BRAODLEAF	71368-1
L	H	41007	ROUNDUP POWER MAX	524-539	L	H	41250	WEEDMASTER	17368-34
L	H	41159	ROUNDUP PRO	524-475	L	H	40404	WEEDONE 638	71368-3
L	H	41096	ROUNDUP PROMAX	524-579	L	H	40407	WEEDONE LV6	71368-6
L	H	41159	ROUNDUP ULTRA	524-475	L	H	40966	WEED-RHAP MCPA ESTER	5905-506
L	H	40842	ROUNDUP ULTRA MAX	524-512	L	H	41013	WIDEMATCH	62719-512
L	H	41042	ROUNDUP WEATHER MAX	524-537	L	H	41035	WILDCARD XTRA	5905-550
L	H	40519	RT 3 HERBICIDE	524-544	L	H	40070	WOLVERINE	264-1075
L	H	40927	RT MASTER	524-531	L	I	10903	Z-CYPE 0.8 EC	279-3249
L	H	41007	RT MASTER II	524-539	L	I	10904	ZETA-CYPE 0.8 EC	279-3327

## 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

#### 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

#### 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  
 69 Vertical Tiller  
 70 Strip Tiller

#### 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

#### 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

##### Furrow-out Cultivator

- 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
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 9.

**MOWERS and BALERS**

141	Amish Harvester
<b>Baler</b>	
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 9.

**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

<b>Pressure Systems</b>		<b>Gravity Systems</b>	
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

**CONVERSION FACTORS for LIQUID and DRY PRODUCTS**

Liquid Products	Dry Products
1 Gallon = 4 Quarts	1 Lb = 16 oz
1 Gallon = 2.785 Liters	1 Oz = 28.35 Grams
1 Gallon = 8 Pints = 128 fluid Oz	1 Oz = 0.0625 Lbs.
1 Quart = 2 Pints	1 Lb = 453 Grams = 0.45 Kg
1 Pint = 16 fluid Oz	1 Kg = 1,000 Grams
2 Cups = 1 Pint	1 Kg = 2.02046 Lbs