



2023 Oat Production Practices and Costs Report Respondent Booklet

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

Your participation is vital. By responding to this survey, you are helping USDA compile an accurate picture of farming in the United States. The timely data will inform decisions that directly impact farms.

A representative from the National Association of State Departments of Agriculture will work with you to complete your survey by telephone or in person. During the interview, our representative will ask you detailed questions about the types of applications you use on your crops. To make the interview process faster, it may be helpful to have the following types of records or information available:

- nutrient and/or fertilizers used
- pest management practices
- biocontrols and/or pesticides used
- machinery and other equipment used

If you used a commercial chemical company, please have those records accessible.

The enclosed booklet will help you and our representative find and record the correct pesticide products. The booklet lists registered label names of products with their Environmental Protection Agency 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 survey response is confidential. The information you provide will be used for statistical purposes only. In accordance with federal law, your responses will not be published in identifiable form.

Thank you for your participation and support of our programs and U.S. agriculture. If you have any questions, please contact us at 888-424-7828 or visit nass.usda.gov/go/arms.

Sincerely,

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

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB number is 0535-0218. The time required to complete this information collection is estimated to average 65 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

2023 OAT SAMPLED STATES by REGION**GREAT LAKES**

Michigan

Ohio

HEARTLAND

Illinois

PACIFIC

California

NORTHEASTERN

New York

Pennsylvania

NORTHERN PLAINS

Kansas

Nebraska

North Dakota

South Dakota

SOUTHERN PLAINS

Texas

UPPER MIDWEST

Iowa

Minnesota

Wisconsin

SEED TREATMENT PRODUCT CODE LIST

Section B, Item 10a

Treatments	Code	Treatments	Code
42-S-Thiram®	279	Dyna-Shield® Foothold™ Extra	120
Acquire®	311	Gaucho® XT	403
Aframe™	551	Grain Guard®	127
Aframe™ Plus	552	Headline® EC	571
Allegiance® FL	101	Headline® SC	572
Allegiance® LS	102	Heads Up® Plant Protectant	182
Apprise™	492	INTEGO™ Solo	410
Apprise™ Fl	554	INTEGO™ SUITE Cereals OF	411
Approach®	555	Kocide® 2000	573
Approach® Prima	556	Kocide® 3000-0	574
Apron XL®	103	Kocide® 4.5 LF	575
Apron XL® LS	104	Kodiak® HB	534
Azteroid® FC 3.3	557	Koverall®	576
Badge® SC	549	Lancaster™ FNL	577
Badge® X2	558	Lancaster™ Fnl	550
Belmont®	363	DuPont™ ManKocide®	130
Belmont® 2.7 FS	364	Manzate® Max	426
Bumper® 41.8 EC	559	Manzate® Pro-Stick® WDG	198
Bumper® ES	560	MasterCop®	578
Captan 400	105	Maxim® 4FS	131
Caramba®	561	Maxim® XL	133
Champ® DP	562	Mertect® 340-F	133
Champ® Formula 2, Flowable	373	Metastar™	206
Champ® WG	563	Metlock®	207
Champion++™	564	Metlock® CT	208
Charter®	107	Miravis® Ace	579
Charter® F2	108	Monsoon®	580
Charter® PB	109	Nexicor™	581
Cruiser® 5FS	110	Nipsit® SUITE Cereals OF	135
Cruiser Maxx® Cereals	111	Orius® 3.6F	438
Cruiser Maxx® Vibrance® Cereals	112	Oxidate® 5.0	582
Cuprofix® Ultra 40 Dispers®	565	OxiPhos®	583
Dexter™ Max	566	Penncozeb, 75 DF	136
Dithane® DF Rainshield® NT	113	Penncozeb, 80 WP	137
Dithane® F-45	114	Prevail®	138
Dithane® M-45	115	Priaxor®	584
Dithane® WSP	567	Proceed® concentrate	139
Dividend Extreme®	116	Proceed® MD	140
Dividend® XL RTA®	117	Proline® 480 SC	225
Dyna-Shield®	163	Propicure® 3.6F	585
Dynasty®	124	PropiMax® EC	586
Enhance®	394	Quadris®	455
Enhance® AW	395	QuiltXcel®	587
Equation™	568	Quilt® Xcel	456
EverGol® Energy	125	Rancona® 3.8 FS	230
Evito® 480SC	569	Rancona® Apex	457

SEED TREATMENT PRODUCT CODE LIST (continued)

Section B, Item 10a

Treatments	Code
Fitness®	570
Dyna-Shield® Foothold™	119
Rancona® Pinnacle	142
Rancona® Summit	459
Rancona® V100 Pro	143
Raxil® 2.6F	145
Raxil® MD	146
Raxil® MD Extra	147
Raxil® Pro MD	461
Raxil® Pro Shield	462
Raxil®+Thiram®	150
Relenya®	551
Rizolex™	236
Roper® DF Rainshield™	589
RTU®-Baytan®-Thiram	590
SaniDate® 12.0	591
Sativa® IM Max	474
Sativa® IM RTU	475
Sativa® IMF Max	476
Sativa® M RTU	478
Satori®	592
Sebring® 318 FS	244
Signet™ 480 FS	245
Sonata®	252
Spirato™ 480 FS	253
Stamina®	488

Treatments	Code
Rancona® Crest	141
Rancona® Crest WR	588
Stamina® F3 Cereals	489
Stamina® F3 HL	490
Stamina® F4 Cereals	491
Stratego®	501
Tebucure 3.6F	260
Tebuzol®	262
Tetraban®	593
Thiram 480 DP	507
Tilt®	594
Topaz®	595
Trivapro®	596
Vertisan®	597
Vibrance®	154
Vibrance® Extreme	155
Vibrance® Quattro	598
Vitaflo™-280	520
Vitavax®-34	599
Vitavax® M	522
Warden® Cereals	524
Warden® Cereals HR	526
Warden® Cereals WR II	528
Product Not Known	998
Product Not Listed	999

COMMERCIAL SEED PRODUCT NAME AND CODE LIST

Section B, Item 11a

Seed Products	Code	Seed Products	Code	Seed Products	Code
AAC Douglas	101	Goliath	149	Ozark	197
Antigo	102	GR 65	150	Paul (hull-less)	198
Armor	103	Hayden	151	Prairie	199
Badger	104	Hazel	152	Premier	200
Bates	105	HiFi	153	Proleaf 234	201
Bay	106	Horicon	154	RAM 99016	202
Beach	107	Horizon 201	155	Reins	203
Belle	108	Horizon 214	156	Rio Grande	204
BetaGene	109	Horizon 270	157	Rockford	205
Blaze	110	Horizon 306	158	Rodeo	206
Bob	111	Horizon 578	159	Ron	207
Brawn	112	Horizon 720	160	Rushmore	208
Buff	113	Horsepower	161	Russell	209
Burton	114	Hyttest	162	Saber	210
Cadillac	115	Ida	163	Saddle	211
California Red	116	INO9201	164	SD Buffalo	212
Camden	117	Intimidator	165	Settler	213
Casino	118	Jerry	166	Shelby 427	214
CDC Dancer	119	Jim	167	Souris	215
CDC Minstrel	120	Jury	168	Starter	216
CDC Pacer	121	Kanota	169	Steuben	217
Chairman	122	Killdeer	170	Streaker	218
Chaps	123	Kona	171	Sumo	219
Corral	124	LA9339	172	Swan	220
CS Camden	125	Larry	173	TAMO 406	221
Dallas	126	Leggett	174	TAMO 411	222
Dane	127	Lyon	175	TAMO 412	223
Deon	128	Maverick	176	TAMO 606	224
Don	129	Milton	177	Taura	225
Eli	130	MINK	178	Troy	226
Ensiler	131	MN-Pearl	179	UC 113	227
Esker	132	Monico	180	UC 128	228
Esker2020	133	Monida	181	UC 142	229
Everleaf 156	134	Montezuma	182	UC 148	230
Everleaf 256	135	Moore	183	UC 153	231
Excel	136	Morgan	184	UC 1965	232
FL BO 01	137	Morton	185	UC 1968	233
FL BO 05	138	Natty	186	Vista	234
FL BO 07	139	Navaro	187	Warrior	235
FL BO 10	140	ND Heart	188	Webster	236
FL BO 12	141	Newburg	189	Product Not Known	998
FL BO 17b	142	Newdak	190	Product Not Listed	999
FL BO 20b	143	NF-402	191		
FL BO 21	144	Noble	192		
FL BO 22b	145	Ogle	193		
FL BO 30a	146	OKAY	194		
Gem	147	ORe3541m	195		
George	148	Otana	196		

FEDERAL CROP INSURANCE COVERAGE

Section B, Item 30a

- 1. Noninsured Crop Disaster Assistance Program (NAP CAT):** A policy bought for a service fee and protects against crop loss greater than 50% of average yield, at 55% of the price. Administered by U.S. Department of Agriculture, Farm Service Agency
- 2. Federal CAT (*Basic Catastrophic Insurance*):** A policy bought for a service fee and protects against crop loss greater than 50% of average yield, at 55% of the price. Administered by U.S. Department of Agriculture, Risk Management Agency
- 3. Noninsured Crop Disaster Assistance Program buy-up:** A policy bought for a service fee plus a premium and protects against crop loss greater than 50% to 65% of average yield, at 100% of the price. Administered by U.S. Department of Agriculture, Farm Service Agency
- 4. Actual Production History (APH) buy-up:** A policy bought for a paid premium and protects against crop loss due to natural causes such as drought, excessive moisture, hail, wind, frost, insects, and disease. Administered by U.S. Department of Agriculture, Risk Management Agency.
- 5. Revenue Protection (RP):** A policy bought for a paid premium and protects against yield losses due to natural causes such as drought, excessive moisture, hail, wind, frost, insects, and disease, and revenue losses caused by a change in the harvest price from the projected price. Administered by U.S. Department of Agriculture, Risk Management Agency.
- 6. Other Federal crop insurance:** Other Federally offered insurance policy other than those listed that was purchased for a service fee or paid premium and protects against crop losses or declines in revenue.

NITROGEN CODES

Section C, Item 3, Column 2 (Source/Form of N Used)

- 1 Anhydrous ammonia
- 2 Nitrogen solution (UAN)
- 3 Urea
- 4 Ammonium nitrate
- 5 Sodium nitrate
- 6 Ammonia sulfate
- 7 Potassium nitrate, magnesium nitrate, and calcium nitrate
- 8 Other nitrogen fertilizer material [specify: _____]

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)

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 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, 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	---	---

CHEMICALS and PESTICIDES for OATS

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	40021	2,4-D LV 6	42750-20	L	H	40632	BARRAGE HF	5905-529
L	H	40480	2,4-D AMINE - 4	62575-1	L	H	40245	BAS 183 06H HERBICIDE	7969-131
L	H	40538	2,4-D AMINE 4	1381-103	L	I	11046	BAYTHROID XL	264-840
L	H	40479	2,4-D AMINE 4	42750-19	L	I	11393	BESIEGE INSECTICIDE	100-1402
L	H	40752	2,4-D AMINE 6	42750-21	L	H	41201	BEYOND	241-441
L	H	41501	2,4-D AMINE WEED KILLER	84009-4	L	H	40726	BICEP II MAGNUM HERBICIDE	100-817
L	H	40936	2,4-D L.V. 6 ESTER	228-95	L	H	40727	BICEP LITE II MAGNUM HERBICIDE	100-827
L	H	40378	2,4-D LV ESTER 4	5905-90	L	H	40012	BISON	9779-347
L	H	40657	2,4-D LV4	1381-102	L	H	40084	BROMAC	34704-886
L	H	40580	2,4-D LV6	1381-101	L	H	41398	BROMAC ADVANCED	34704-1052
L	H	40583	2,4-D LV-6	35935-6	L	H	40926	BRONATE ADVANCED HERBICIDE	264-690
L	H	41229	2,4-DB 200	1381-215	L	H	40644	BRONATE HERBICIDE	264-438
L	F	71007	A19649 Crop	100-1601	L	H	40325	BROX-M HERBICIDE	42750-52
L	H	40128	AATREX 4L HERBICIDE	100-497	L	H	41386	BUCCANEER 5 EXTRA HERBICIDE	55467-15
D	H	40143	AATREX NINE-O HERBICIDE	100-585	L	H	40648	BUCCANEER PLUS GLYPHOSATE HERBICIDE	55467-9
L	F	70780	ABSOLUTE 500 SC FUNGICIDE	264-849	L	F	70914	BUMPER 14.3 EC	53883-363
D	H	40275	AFFINITY BROADSPEC HERBICIDE WITH TOTALSOL SOLUBLE GRANULES	279-9601	L	F	70490	BUMPER 41.8 EC (PROPICONAZOLE) FUNGICIDE	66222-42
D	H	41825	AFFINITY TANKMIX HERBICIDE WITH TOTALSOL SOLUBLE GRANULES	279-9599	L	F	70628	CARAMBA FUNGICIDE	7969-246
L	H	40595	AFG ORIGINAL	34704-889	L	H	41259	CHARGER BASIC	1381-207
L	H	41538	AGSAVER GLYPHOSATE 41% PLUS	83772-8	L	H	40570	CLARITY HERBICIDE	7969-137
L	H	40948	AIM EC	279-3241	L	H	40093	COLT	34704-895
L	H	40961	ALBAUGH DICAMBA DMA SALT	42750-40	L	H	40890	COLT + SALVO	34704-1010
L	H	41330	ALLIGARE 2,4-D AMINE	81927-38	L	H	40933	COLT + SWORD HERBICIDE	34704-1011
D	H	41474	ALLIGARE MSM 60	81927-7	L	H	41213	COMET SELECTIVE HERBICIDE	71368-87
D	H	40929	ALLY EXTRA HERBICIDE	279-9589	L	H	40916	CORNBELT SALVAN	11773-16
D	H	41826	ALLY EXTRA SG HERBICIDE (WITH TOTALSO SOLUBLE GRANULES)	279-9603	L	H	40941	CORNERSTONE	1381-191
D	H	40235	ALLY XP HERBICIDE	279-9575	L	H	41328	CORNERSTONE PLUS 5	1381-241
L	F	70770	ALTO 100SL FUNGICIDE	100-1226	L	H	41147	CREDIT XTREME HERBICIDE	71368-81
D	H	40493	AMBER HERBICIDE	100-701	L	H	40465	CURTAIN M	62719-86
L	H	40478	AMINE 4 2,4-D WEED KILLER	34704-120	D	H	40494	CUSTOM-PAK AMBER HERBICIDE	100-768
L	H	40477	AMINE 400 2,4-D WEED KILLER	2217-2	D	H	40666	CUSTOMPAK PEAK HERBICIDE	10163-380
L	H	40140	ATRA-5	19713-80	L	H	40965	DAGGER SELECTIVE HERBICIDE	228-267
L	H	40134	ATRAZINE 4L	34704-69	L	H	40643	DIABLO HERBICIDE	228-379
L	H	40136	ATRAZINE 4L HERBICIDE	35915-4	L	H	41354	DICAMBA AG	83222-14
D	H	40151	ATRAZINE 90DF	9779-253	L	H	40430	DICAMBA DMA 2# AG	70506-462
D	H	41856	AX FLUMIOX	89167-45	L	H	40962	DICAMBA DMA 4# AG	70506-461
L	H	40525	AXIAL HERBICIDE	100-1199	L	I	10324	DREXEL MALATHION 5EC	19713-217
L	H	41242	AXIAL STAR HERBICIDE	100-1389	L	H	41012	DREXEL ME-TOO-LACHLOR HERBICIDE	19713-548
L	H	40531	AXIAL XL	100-1256	L	H	40746	DUAL II MAGNUM HERBICIDE	100-818
L	H	41028	BANVEL + 2,4-D	70506-466	L	H	40747	DUAL II MAGNUM SI HERBICIDE	100-829

CHEMICALS and PESTICIDES for OATS

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Form	Class	Code	Product Name	EPA #
L	H	40745	DUAL MAGNUM HERBICIDE	100-816
L	F	70810	DUPONT APROACH PRIMA FUNGICIDE	352-883
L	H	40954	DUPONT CINCH ATZ HERBICIDE	352-624
L	I	10097	DUPONT LANNATE LV INSECTICIDE	352-384
L	O	90752	DYNA-SHIELD FOOHOLD	34704-1049
D	H	41662	EDITION TANK MIX HERBICIDE	279-3566
L	O	90199	ETHEPHON 2#	70506-459
D	H	40011	EXPRESS HERBICIDE WITH TOTALSOL SOLUBLE GRANULES	279-9594
L	I	11354	F9114 EC INSECTICIDE	279-3426
L	H	41573	F9312-3	279-3464
L	I	11402	FASTAC EC	7969-298
L	H	41838	FINESSE CEREAL AND FALLOW HERBICIDE	279-9610
D	H	40323	FINESSE HERBICIDE	279-9576
L	F	70723	FITNESS FUNGICIDE	34704-1031
L	H	40009	FIVE-STAR	42750-49
L	F	70259	FOLICUR 3.6 F FOLIAR FUNGICIDE	264-752
L	H	40689	FULTIME HERBICIDE	62719-371
L	H	41580	FulTimeNXT	62719-668
L	I	10487	FURY 1.5 EW INSECTICIDE	279-3126
L	H	41063	GF-1279	62719-517
L	H	41136	GF-1280	62719-556
L	H	41198	GLY STAR GRASS AND WEED KILLER CONCENTRATE	42750-67
L	H	40675	GLYFOS X-TRA	4787-23
L	H	40950	GLYPHOSATE	34704-866
L	H	40977	GLYPHOSATE 4 HERBICIDE	51036-312
L	H	41180	GLYPHOSATE 4 PLUS	81927-9
L	H	41023	GLYPHOSATE 41%	42750-60
L	H	41420	GLYPHOSATE 41% HERBICIDE	87659-3
L	H	41053	GLYPHOSATE 41% PLUS	42750-61
L	H	41722	GLYPHOSATE 5.4	81927-8
L	H	41011	GLYPHOSATE 53.8%	42750-59
L	H	40074	GOLDSKY HERBICIDE	62719-582
L	H	40506	GRAMOXONE INTEON	100-1217
L	H	41283	GRAMOXONE SL 2.0	100-1431
L	I	11168	GRIZZLY Z INSECTICIDE	1381-211
L	H	41112	HALEX GT HERBICIDE	100-1282
D	H	41807	HARMONY EXTRA SG HERBICIDE WITH TOTALSOL SOLUBLE GRANULES	279-9602
D	I	11670	HARMONY EXTRA XP HERBICIDE	279-9590
D	H	41823	HARMONY GT XP HERBICIDE	279-9577
D	H	41761	HARMONY SG HERBICIDE (WITH TOTALSOL SOLUBLE GRANULES)	279-9595

Form	Class	Code	Product Name	EPA #
L	H	41209	HAT TRICK THREE WAY HERBICIDE	34704-1017
L	F	70549	HEADLINE FUNGICIDE	7969-186
L	O	90776	HELIGEN	87978-2
L	I	11626	HM-1508 INSECTICIDE	5905-599
L	H	41216	HUSKIE COMPLETE	264-1135
L	H	40065	HUSKIE HERBICIDE	264-1023
L	I	10739	KARATE INSECTICIDE WITH ZEON TECHNOLOGY	100-1097
L	I	11362	LAMBDA-CY AG	83222-42
L	I	11294	LAMBDASTAR INSECTICIDE	71532-20
L	H	41033	LASSO HERBICIDE	524-314
L	H	41052	LEXAR HERBICIDE	100-1201
L	H	41366	LIBERTY GLYPHOSATE PLUS	89168-17
L	H	41762	Liberty Mesotrione 4SC	89168-54
L	I	10983	LORSBAN-4E	62719-220
L	H	40952	LUMAX SELECTIVE HERBICIDE	100-1152
L	H	40896	LV 400 2,4-D WEED KILLER	2217-77
L	H	41138	MAKAZE YIELD-PRO	34704-1033
L	H	40401	MCP AMINE	62719-13
L	H	40400	MCP AMINE 4	34704-130
L	H	40452	MCP ESTER 4 HERBICIDE	34704-992
L	H	40454	MCPA AMINE	1381-104
L	H	40589	MCPA ESTER 4	42750-23
L	H	40455	MCPA-4 AMINE	228-143
L	H	40616	MCPE PHENOXY HERBICIDE	1381-98
L	H	40178	MEDAL HERBICIDE	100-964
L	H	40934	MEDAL II HERBICIDE	100-965
L	H	41266	METOLACHLOR 7.8	60063-24
L	H	41031	MEXTROL EC HERBICIDE	71368-28
L	F	71022	Miravis Ace	100-1645
L	H	40876	MON 58494	524-511
L	H	41113	MON 63410 HERBICIDE	524-591
L	F	70624	MONSOON	34704-900
L	F	70766	MULTIVA FUNGICIDE	7969-247
L	F	70981	Nexicor Xemium Brand Fungicide	7969-380
D	H	41533	NIMBLE HERBICIDE	279-3560
L	H	40975	NUFARM CREDIT HERBICIDE	71368-20
L	H	41250	NUFARM KAMBAMASTER HERBICIDE	71368-34
L	H	41217	NUP-08131 SELECTIVE HERBICIDE	71368-93
D	H	40501	OLYMPUS 70% WATER DISPERSIBLE	264-809
D	H	40304	OLYMPUS FLEX HERBICIDE	264-833

CHEMICALS and PESTICIDES for OATS

F = Fungicide, H = Herbicide, I = Insecticide, M = Misc. Other, MD = Defoliant/Dessicant, MG = Growth Regulator,
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 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	F	70630	ONSET 3.6L	1381-203	L	H	40620	RIFLE HERBICIDE	34704-861
L	H	41847	OPENSKY	62719-721	L	H	40619	RIFLE-D HERBICIDE	34704-869
D	H	41018	OSPREY HERBICIDE	264-802	D	H	41248	RIMFIRE MAX HERBICIDE	264-1099
L	H	40932	OUTLOOK HERBICIDE	7969-156	L	H	40588	RIVERDALE MCPA L.V. 4 ESTER	228-156
D	H	41681	OUTRIDER HERBICIDE	59639-223	L	H	41004	ROUNDUP CUSTOM HERBICIDE	524-343
L	O	90671	PALISADE 2EC	100-1241	L	H	40661	ROUNDUP EXPORT HERBICIDE	524-308
L	O	90411	PALISADE EC	100-949	L	H	40942	ROUNDUP HERBICIDE	524-445
L	H	41122	PARALLEL PLUS	66222-132	L	H	41007	ROUNDUP ORIGINAL 2K HERBICIDE	524-539
L	H	41066	PARAQUAT CONCENTRATE	82542-3	L	H	41162	ROUNDUP ORIGINAL II HERBICIDE	524-454
L	H	41363	PARAQUAT SL HERBICIDE	82557-1	L	H	40653	ROUNDUP PRO CONCENTRATE	524-529
L	H	41743	PARAZONE 3SL HERBICIDE	5481-615	L	H	41096	ROUNDUP PROMAX	524-579
D	H	41571	PATRIOT SELECTIVE HERBICIDE	228-391	L	H	40905	ROUNDUP READY-TO-USE WEED & GRASS KILLER	71995-8
L	H	41642	PERFECTMATCH	62719-685	L	H	41159	ROUNDUP ULTRA HERBICIDE	524-475
D	H	40085	PLOTTER AGRICULTURAL HERBICIDE	83100-3	L	H	40842	ROUNDUP ULTRAMAX	524-512
D	H	40071	POWERFLEX	62719-569	L	H	40519	ROUNDUP VM HERBICIDE	524-544
L	F	70727	PPZ AG-EC FUNGICIDE	83222-18	L	H	40843	ROUNDUP WEED & GRASS KILLER SUPER CONCENTRATE	71995-25
L	I	11395	PREVATHON INSECT CONTROL	279-9612	L	H	40927	RT MASTER	524-531
L	F	70916	Priaxor D Fungicide	7969-361	L	H	40372	SALVO	34704-609
L	F	70764	PRIAXOR XEMIU BRAND FUNGICIDE	7969-311	L	H	41831	SENRALLAS HERBICIDE	279-9626
L	I	11516	PROAXIS	279-3583	L	F	70743	SHAR-GUARD	83529-22
L	F	70610	PROLINE 480 SC FUNGICIDE	264-825	L	H	41135	SHARPEN POWERED BY KIXOR HERBICIDE	7969-278
L	H	40518	PROPACINE 4L	42750-148	L	H	41396	SHREDDER 2,4-D LV6	1381-250
L	F	70767	PROPICONAZOLE 41.8% EC	42750-211	L	I	10158	SILENCER	66222-104
L	F	70485	PROPICONAZOLE EC	62719-346	L	I	11477	Sivanto 200 SL	264-1141
L	F	70609	PROSARO 421 SC FUNGICIDE	264-862	L	H	40555	SOLVE 2,4-D	42750-22
L	H	41010	PROWL H2O HERBICIDE	241-418	L	H	41016	STALWART C	60063-22
D	H	40366	PURESTAND SELECTIVE HERBICIDE	71368-38	L	H	41215	STARANE FLEX	62719-604
L	F	70689	QUADRIIS TOP FUNGICIDE	100-1313	L	H	40062	STARANE NXT HERBICIDE	62719-557
L	F	70761	QUADRIIS XTRA FUNGICIDE	100-1225	L	H	40060	STARANE ULTRA	62719-577
L	H	41713	QUELEX	62719-661	L	H	40875	STERLING	1381-190
L	F	70525	QUILT FUNGICIDE	100-1178	L	H	41348	STERLING BLUE	1381-248
L	F	70726	QUILT XCEL FUNGICIDE	100-1324	L	F	70473	STRATEGO FUNGICIDE	264-779
L	H	41841	QUIZALOFOP 1E HERBICIDE	42750-313	L	F	70768	STRATEGO YLD FUNGICIDE	264-1093
L	O	90567	RADIATE	34704-909	L	H	41721	Talinor	100-1570
L	H	40886	RANGE STAR	42750-55	L	F	70698	TEBUCONAZOLE 3.6 F FUNGICIDE	70506-114
D	H	41717	RAPPORT BROADSPEC HERBICIDE	71368-79	L	F	70699	TEBUCONAZOLE 3.6FL	42750-99
D	H	40827	RAVE HERBICIDE	100-927	L	I	11197	TENGARD SFR ONE-SHOT TERMITICIDE/INSECTICIDE	70506-6
L	H	40509	RD 1617 HERBICIDE	524-549	L	F	70072	TILT	100-617
D	H	41485	REPORT EXTRA HERBICIDE	279-3563	L	I	10978	TOMBSTONE	34704-912
L	H	40194	RHOMENE MCPA AMINE HERBICIDE	11685-19	L	I	11173	TOMBSTONE HELIOS	34704-978

CHEMICALS and PESTICIDES for OATS

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Form	Class	Code	Product Name	EPA #
L	F	70901	TOPGUARD FUNGICIDE	279-3557
L	F	70783	TOPSIN 4.5FL FUNGICIDE	8033-122
L	H	40388	TORDON 22K SPECIALTY HERBICIDE	62719-6
D	I	11392	TRANSFORM WG	62719-625
L	F	70978	Trivapro Fungicide	100-1613
L	H	41206	TRUMPCARD	5905-581
L	H	41544	UNICO 2,4-D LO-V ESTER WEED KILLER	84009-5
D	H	40014	VALOR HERBICIDE	59639-99
L	H	41137	VERDICT POWERED BY KIXOR HERBICIDE	7969-279
D	H	41738	VICTORY HERBICIDE	71368-75
L	H	41221	VIDA HERBICIDE	10163-314

Form	Class	Code	Product Name	EPA #
D	H	41414	VOLTA EXTRA HERBICIDE	83979-1
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 HERBICIDE	71368-1
L	H	40406	WEEDONE LV4 BROADLEAF HERBICIDE	71368-14
L	H	40407	WEEDONE LV6 EMULSIFIABLE BROADLEAF HERBICIDE	71368-6
L	H	41236	WELD HERBICIDE	1381-246
L	H	41529	WHITEOUT 2,4-D	34704-1032
L	H	41013	WIDEMATCH HERBICIDE	62719-512
L	H	41035	WILDCARD XTRA	5905-550
L	H	41733	ZIDUA SC HERBICIDE	7969-374

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 Conserver)
- 03 Deep Ripper (Knife, Bed knife, Slide)
- 04 Disk Plow
- 07 Stubble–Mulch (Noble, Sweeps, Hoeme, Plow, Muckery Plow)
- 08 Subsoiler (Chisel, Ripper, V–Ripper, Inline)
- 09 Disk–Chisel (Mulch Tiller)
- 16 Paraplow

Moldboard

- 05 Regular
- 06 Two Way (Turn, Switch)

Offset Disk

- 10 Heavy Disk
- 11 Light Disk
- 12 One–way Disk (Disk Tiller)
- 13 Single Disk

Tandem Disk

- 14 Plowing
- 15 Regular

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 (Turbomas)
- 70 Strip Tiller

HARROWS (DRAGS)

- 30 Heavy Harrow
- 31 Field Conditioner (Scratcher, Seed Bed Conditioner, Soil Conditioner, Ground Hog)
- 32 Finishing (Harrogate Spiral, Roller, Knives, Shanks, Pegs, Smoother)
- 33 Flex–tine Tooth (Flex–tine Tooth, Coil Tine)
- 34 Multi–weeder (Cultivator & Harrow)
- 35 Rail, Pipe, Log, Plank
- 36 Rod Weeder
- 38 Spike Tooth
- 40 Powered Spike Tooth Harrow

BEDDERS–SHAPERS

- 41 Bedder (Shaper) (Bedshaper Crowder, Bed Shaper)

Disk

- 43 Hipper
- 44 Row
- 45 Float
- 46 Lister (Middle–buster)
- 47 Rorovator–bedder
- 49 Sub–soil Bedder (Ripper–hipper)
- 50 Discovator

CULTIVATORS**Field Cultivators**

- 21 Regular Digger, Triple K, Danish Tined, Swedish Tined, Incorporated, S–tine, Cultivator, Vibra–shank Harrow, Lillston Tiller)
- 22 Furrow–out Cultivator
- 23 Rotary Hoe (Crust Buster)
- 26 Heavy Duty (Duckfoot Cultivator)
- 27 Row Marker
- 28 Fallow Master

Row Cultivators

- 24 Disk Sweep, Shovel
- 25 Rolling, Rotary

PACKERS

- 51 Culti–packer (Pulverizer, Crow–Foot, Serrated, Ring, Spiral)

Roller–Packer

- 37 Roller (Culti–mulcher, Pulvi–mulcher, Crumbler, Packer–mulcher, Packer & Shanks)
- 48 Seedbed Roller (Flat Roller, Land Roller)
- 52 Attachment
- 53 Smooth & Flat (Rock Roller)

FERTILIZER APPLICATIONS

- 71 Aerial (Airplane)
- 72 Attachment to implement
- 73 Manure Spreader
- 74 Self–propelled
- 75 Truck Spreader
- 82 Drones (UAV)

Tractor Mounted

- 76 Anhydrous
- 77 Dry
- 78 Liquid

Trailer Mounted

- 79 Anhydrous
- 80 Dry
- 81 Liquid

PLANTERS

- 111 Bedder–shaper Planter
- 112 Lister–bedder
- 113 No–till, Minimum Till, (Ripper Planter)
- 114 Conventional, Regular (Flex)
- 115 Air Delivery/vacuum
- 116 Ridge Till
- 117 Twin Row Planter

CHEMICAL APPLICATIONS

- 91 Aerial (Airplane)
- 92 Attachment to implement
- 93 Largest Self propelled (or Large Truck)
- 94 Motorcycle/ATV Sprayer
- 95 Small Self–propelled (Spra–coupe, Hi–cycle)
- 96 Small Truck (Skid Mounted)
- 97 Tractor Mounted
- 98 Trailer Mounted
- 99 Drones (UAV)
- 100 See and Spray (Automated or robotic spraying)

DRILLS and SEEDERS

- 101 Aerial Seeding
- 102 Broadcast Seeder
- 103 Air Delivery
- 104 Lister Disk
- 105 No-till or minimum till
- 106 Plain (Tye)
- 107 Press, Disk or Hoe

HARVESTING EQUIPMENT

- 204 Silage Harvester
- 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
- 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
- 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
- Baler**
- 145 Motor Mounted
- 146 PTO (Large)
- 147 PTO (Small)
- 148 Self-propelled
- Mowers**
- 149 Mower-chopper-Rotary
- 150 Conditioner/PTO
- 151 Self-propelled
- 152 Drum disk
- 153 Flail
- 154 Sickle
- Rakes**
- 155 Dump
- 156 Side Delivery
- 157 Wheel
- 162 Hay Tedder
- 163 Rotary
- 234 Brush Rake Sweeper

HAULING EQUIPMENT**Bale wagon/mover**

- 142 Bale wagon (PTO)
- 143 Bale Wagon (Self-propelled)
- 144 Bale Loader
- 158 Stack Mover
- 159 Stacker, Automatic
- 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 Auger Grain Cart
- 210 Auger Grain Cart (Self-propelled)
- 221 Forage Wagon
- 222 Dump Wagon
- 228 Other Trailers
- 229 Bin Trailer

Trucks

- 301 Single Axle
- 302 Tandem Axle
- 303 Tri Axle
- 304 Semi
- 305 Other Trucks

OTHER IMPLEMENTS

- 191 Burn Buggy
- 192 Chaff/straw Saver
- 193 Electric-discharge Weed Killer
- 196 Off-field Thresher
- 198 Rock Windower or Rake
- 200 Roller Groover
- 201 Rubber-wheeled Weed Puller
- 202 Flail Shredder
- 203 Rotary Shredder
- 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	18	Open discharge from well or pump
		19	Other

CONVERSION FACTORS FOR LIQUID AND DRY PRODUCTS

Liquid Products	Dry Products
1 Gallon = 4 Quarts	1 Lb = 16 oz
1 Gallon = 3.785 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

