

**AGRICULTURAL RESOURCE
MANAGEMENT STUDY
CORN
PRODUCTION PRACTICES REPORT
for 1999**

RESPONDENT BOOKLET

SEED VARIETY CODE LIST for CORN

Section B, item 8	1	Genetically-modified herbicide resistant seed variety
	2	NON-genetically-modified herbicide resistant variety
	3	Bt variety for insect resistance
	4	Variety with both insect and herbicide resistance
	6	Variety planted not listed above

REASONS FOR SEED VARIETY

Section B, item 9	1	Increase yields through improved pest (<i>weeds, insects or diseases</i>) control?
	2	Decrease pesticide input costs?
	3	Increase planting flexibility? (<i>For example, easier to rotate crops, reduce carryover use reduced tillage or no-till systems, etc.</i>)
	4	Adopt more environmentally-friendly practices?
	5	For some other reason(s)?

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 AIR
	4	IN SEED FURROW
	5	IN IRRIGATION WATER
	6	CHISEL/INJECTED OR KNIFED IN
	7	BANDED/SIDEDRESSED IN OR OVER ROW
	8	FOLIAR OR DIRECTED SPRAY
	9	SPOT TREATMENTS

Section C, Item 4

Common Fertilizers and Their Percent Analysis

[Enumerator Note: *If Respondent cannot report the formulation for Section C, item 1, enter the formulations below.*]

Name	Percent Active Ingredients				RANGE
	N	P ₂ O ₅	K ₂ O	S	
Anhydrous ammonia	82	--	--	--	
Aqua ammonia	20	--	--	--	16-30% N
Ammonium nitrate	33	--	--	--	33-34% N
Ammonium sulfate	21	--	--	--	20-21% N
Nitrogen solutions	28	--	--	--	7-58% N
Sodium nitrate	16	--	--	--	
Urea	46	--	--	--	45-46% N
Urea ammonium nitrate	32	--	--	--	
Super phosphate (22 % & under)	--	19	--	--	18-22% P
Super phosphate (over 22 %) . . .	--	30	--	--	23-39% P
Triple Super Phosphate	--	46	--	--	40-54% P
Ammonium phosphate	11	48	--	--	
Di-ammonium phosphate	18	46	--	--	
Mono-ammonium phosphate	11	52	--	--	
Potassium chloride	--	--	60	--	50-62% K
Potassium nitrate	13	--	44	--	
Potassium sodium nitrate	15	--	14	--	
Mixed Fertilizer	2	6	12	--	
	3	9	18	--	
	3	10	30	--	
	5	10	15	--	
	5	10	30	--	
	5	15	30	--	
	6	24	24	--	
	8	24	24	--	
	9	18	9	--	
Soil sulfur	--	--	--	92	
Sulfur-bentonite	--	--	--	90	
Sulfur dioxide	--	--	--	50	
Ammonium polySulfide	20	--	--	45	
Ammonium sulfate	21	--	--	24	
Ammonium thiosulphate solution .	12	--	--	26	
Diammonium phosphate-sulfur . .	16	40	--	13	
Potassium sulfate	--	--	50	18	48-52% K
Potassium-magnesium sulfate . . .	--	--	22	22	

CHEMICALS and PESTICIDES for CORN, All

D/L	Class	Code	Product Name	D/L	Class	Code	Product Name
L	H	4377	2,4-D/Amine 4	L	H	4019	Basagran (4L)
L	H	4664	2,4-D/Amine 6				
L	H	4443	2,4-D/Class LV4	D	H	4521	Basis (WDG)
L	H	4366	2,4-D/Ded-Weed Suly	D	H	4611	Basis Gold SP
D	H	4184	2,4-D/Defy				
L	H	4361	2,4-D/Envy	D	H	4140	Beacon (75DF)
L	H	4204	2,4-D/Esteron 99 Concentrate				
				L	H	4021	Bicep 6L
L	H	4291	2,4-D/Formula 40	L	H	4470	Bicep II
L	H	4221	2,4-D/Hi-Dep	L	H	4637	Bicep II Magnum
L	H	4232	2,4-D/Lithate	L	H	4468	Bicep Lite
L	H	4562	2,4-D/Riverside LV4	L	H	4638	Bicep Lite II Magnum
L	H	4265	2,4-D/Salvo	D	H	4694	Bicep Magnum TR
D	H	4391	2,4-D/Savage				
				L	H	4022	Bladex 4L
L	H	4488	2,4-D/Weed Pro 6.b	D	H	4023	Bladex 80WP
L	H	4306	2,4-D/Weed-Rhap LV-4D	D	H	4143	Bladex 90DF
L	H	4003	2,4-D/Weedar 64				
L	H	4296	2,4-D/Weedone 638	L	H	4489	Broadstrike + Dual
L	H	4298	2,4-D/Weedone LV4	D	H	4596	Broadstrike WDG
L	H	4299	2,4-D/Weedone LV6				
				L	H	4024	Buctril (2EC)
L	H	4006	AAtrex 4L	L	H	4026	Buctril + Atrazine (1 + 2EC)
D	H	4007	AAtrex 80W				
D	H	4008	AAtrex Nine-O (WP)	L	H	4027	Bullet (4EC)
D	H	4683	AIM	L	I	1140	Capture 2EC
D	I	1672	Able	L	H	4469	Clarity 4L
D	H	4339	Accent (75DG)	L	I	1008	Comite (6.55EC)
D	H	4648	Accent Gold	L	I	1401	Comite II
D	H	4657	Achieve 40DG	L	H	4528	Contour
L	I	1002	Ambush (2EC)				
				D	I	1009	Counter (15G)
L	I	1003	Asana (1.9EC)	D	I	1241	Counter 20CR
L	I	1004	Asana XL (.66EC)				
				L	H	4180	Curtail (EC)
L	H	4041	Atrazine 4L	L	H	4656	Cy-Pro 4L
L	H	4042	Atrazine 5L	L	H	4330	Cycle (4L)
D	H	4043	Atrazine 80 (WP)	L	H	4654	Cyclone Concentrate
D	H	4044	Atrazine 90DF	L	M	9269	Cytoplex HMS
D	H	4651	Axiom DF	D	I	1033	Di-Syston 15% G
L	I	1545	Azatin-EC Biological Insecticide	L	I	1034	Di-Syston 8 (EC)
				L	I	1028	Dimethoate 2.67EC
D	I	1468	Aztec 2.1 Granular	L	I	1029	Dimethoate 4EC
				L	I	1403	Dimethoate 5 lb.
L	I	1686	BMP 123 (48 LC)				
D	H	4652	Balance WDG				
				D	I	1198	Dipel 10G
L	H	4136	Banvel (4L)	L	I	1025	Dipel ES
L	H	4617	Banvel + 2,4-D				
L	H	4138	Banvel II (2L)	L	H	4039	Direx 4L
L	H	4327	Banvel SGF (2EC)				
L	H	4676	Banvel-K + Atrazine	D	H	4677	Distinct

D/L	Class	Code	Product Name	D/L	Class	Code	Product Name
L	F	7318	Dithane M-45 Flowable M	D	H	4650	Harness 20G
L	H	4534	Double Play	L	H	4490	Harness Plus
L	H	4051	Dual (8E)	L	H	4602	Harness Plus (MON 8407)
D	H	4050	Dual 25G	L	H	4529	Harness Xtra
L	H	4466	Dual II	L	H	4649	Harness Xtra 5.6L
L	H	4460	Dual II Magnum	D	H	4517	Hornet
L	H	4461	Dual II Magnum SI	L	I	1252	Karate (1EC)
L	H	4659	Dual Magnum	L	H	4068	Laddok
L	I	1039	Dyfonate 4EC	L	H	4326	Landmaster II
D	I	1037	Dyfonate II 10-G	L	H	4230	Lariat (4F)
D	I	1364	Dyfonate II 15-G	L	H	4069	Lasso (4EC)
D	I	1038	Dyfonate II 20-G	D	H	4070	Lasso II (15G)
L	MG	9277	Early Harvest	L	H	4665	LeadOff
D	H	4446	Eradicane 25G	L	H	4640	Liberty
L	H	4202	Eradicane 6.7E	L	H	4678	Liberty ATZ
L	H	4054	Eradicane Extra (6EC)	D	H	4607	Lightning
D	H	4055	Evik 80W	L	H	4074	Linex 4L
D	H	4523	Exceed 64.6 DF	D	H	4075	Linex 50DF
L	H	4208	Extrazine II 4L	D	H	4077	Lorox DF (50%)
D	H	4209	Extrazine II DF	L	H	4076	Lorox L
L	H	4210	Fallow Master	D	I	1068	Lorsban 15G
L	H	4642	Field Master	L	I	1069	Lorsban 4E
D	I	1149	Force 1.5G	D	F	7328	Manzate 75DF
D	I	1440	Force 3G	L	H	4235	Marksman
D	I	1678	Fortress 2.5G	L	H	4236	Meturon 4L
D	I	1397	Fortress	L	H	4231	Micro-Tech
L	H	4448	Frontier 6.0	L	I	1548	NeemGard
L	H	4597	Fultime Herbicide	D	I	1546	Nufos 15G
D	I	1053	Furadan 15G	L	H	4647	OpTill
L	I	1054	Furadan 4F	L	MG	9137	PGR-IV
L	I	1538	Fyfanon 8lb. Emulsion	D	MG	9301	PGR-IV Granule
L	M	9266	Garlic Barrier Ag Insect Repellent	L	MG	9300	PGR-IV Plus
L	I	1555	Gemstar LC	L	I	1115	Parathion 8E
L	H	4063	Goal 1.6E	D	H	4352	Partner WDG
D	I	1682	Golden Dew	D	H	4569	Peak
D	F	7333	Golden Dew	L	I	1164	Penncap-M (2 lbs.)
L	H	4314	Gramoxone Extra (2.5L)	D	I	1240	Phorate 20-G
L	H	4064	Gramoxone Super (1.5L)	D	H	4525	Permit 75DF
L	M	9267	Guardian Spray	L	H	4334	Poast Plus (1EC)
L	H	4494	Guardsman Herbicide	L	MG	9231	Poly-Foliant V

D/L	Class	Code	Product Name
D	I	1105	Pounce 1.5G
D	I	1106	Pounce 25WP
L	I	1107	Pounce 3.2EC
L	H	4570	Prestige (1EC)
D	H	4083	Princep 4G
L	H	4084	Princep 4L
D	H	4249	Princep Caliber 90
L	H	4086	Prowl (4EC)
L	H	4360	Prowl 3.3 EC
D	H	4504	Prowl DG
L	H	4254	Pursuit (2EC)
D	H	4505	Pursuit DG
L	H	4255	Pursuit Plus (EC)
D	H	4646	Python WDG
D	H	4088	Ramrod 20 (G)
D	H	4090	Ramrod 65 (WP)
L	H	4089	Ramrod Flowable (4L)
D	H	4331	Ramrod/Atrazine DF
L	I	1552	Regent 4 SC
D	I	1532	Regent 80 WG
D	H	4526	Resolve SG
L	H	4527	Resource 0.86 EC
L	H	4325	Rodeo
L	H	4700	Roundup Custom
L	H	4376	Roundup D-Pak
D	H	4702	Roundup EZ Dry
L	H	4093	Roundup Original
L	H	4561	Roundup Ultra
L	H	4675	Saber Herbicide
D	H	4575	Scorpion III
L	H	4667	Scythe
L	H	4095	Sencor 4
D	H	4096	Sencor DF (75%)
L	H	4554	Shotgun Flowable Herbicide

D/L	Class	Code	Product Name
L	H	4048	Simazine 4L
D	H	4342	Simazine 90DF
D	H	4641	Spirit
L	MG	9273	Stimulate Yield Enhancer
L	H	4320	Stinger (3EC)
L	H	4516	Surpass 100
D	H	4577	Surpass 20G
L	H	4515	Surpass EC
L	H	4104	Sutan + 6.7E
L	H	4277	Sutazine + (EC)
D	I	1256	Thimet 15-G
D	I	1127	Thimet 20-G
L	F	7076	Tilt (3.6EC)
L	F	7316	Top Crop Flowable
L	H	4530	Topnotch
L	H	4662	Touchdown 5
L	H	4362	Touchdown 6
L	H	4332	Tough (3.75 EC)
L	H	4109	Treflan 5 (EC)
L	H	4629	Treflan HFP
L	H	4110	Treflan MTF (4EC)
L	I	1435	Warrior
L	I	1553	Warrior T
D	I	1685	Xentari Biological Insecticide (DF)

Conversion Codes for Liquid & Dry Products

Liquid Products

1 Gallon = 4 Quarts
 1 Quart = 2 Pints
 1 Pint = 16 Fluid Ounces
 2 Cups = 1 Pint

Dry Products

1 Pound = 16 Dry Ounces
 1 Ounce = 28.3 Grams
 1 Pound = 453 Grams

TARGET PEST CODE LIST

SECTION D, Item 1 Column 12

INSECTS

- 010 APHIDS

- 020 BEETLES, WEEVILS or WIREWORMS
 - 727 Corn Rootworm (adults)
 - 728 Corn Rootworm (larvae)
 - 020 Other Beetles, Weevils or Wireworms

- 030 CUTWORMS OR ARMYWORMS

- 040 MOTH / CATERPILLAR
 - 754 Pink Bollworm
 - 045 Other Bollworm
 - 757 Tobacco Budworm
 - 040 Other Moths or Caterpillars
(For example: loopers, leafminer, leaf perforator, leafworm, corn borer, webworm, leafrollers, soybean podworm, fall armyworm, corn ear worm, etc.)

- 050 TRUE BUG
(For example: fleahoppers, lygus bugs, stink bugs, chinch bugs, tarnished plant bugs, etc.)

- 060 WHITEFLY, MEALYBUGS or LEAF HOPPERS

- 080 GRASSHOPPERS or CRICKETS

- 090 MITES

- 095 FLIES or MAGGOTS

- 085 THRIPS

- 100 NEMATODES

DISEASES

- 105 BACTERIAL DISEASES

- 110 FUNGAL DISEASES, (FUNGUS)

- 120 VIRAL DISEASES, (VIRUS)

WEEDS

- 171 GRASSES, ANNUAL
 - 607 Foxtail
 - 171 Other Annual Grasses

- 172 GRASSES, PERENNIAL
 - 617 Shattercane
 - 608 Johnsongrass
 - 616 Quack Grass
 - 172 Other Perennial Grasses

- 175 BROADLEAVES, ALL
 - 173 Perennial broadleaf
 - 174 Annual broadleaf

- 177 SEDGES

OTHER PESTS

- 180 OTHER PESTS
(For example, defoliant, desiccant or growth regulator, vine killer, etc.)

PEST MANAGEMENT INFORMATION SOURCES

Section E, item 27

- 1 Extension Advisor, Publications or Demonstrations
(County, Cooperative or University)
- 2 Farm Supply or Chemical Dealer
- 3 Commercial Scouting Service
- 4 Crop Consultant or Pest Control Advisor
- 5 Other Growers or Producers
- 6 Producer Associations, Newsletters or Trade Magazines
- 7 Electronic Information Services (*World Wide Web, DTN, etc.*)
- 8 Other
- 9 None

MACHINERY and IMPLEMENT CODES

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

Moldboard
- 05 -Regular
- 06 -Two-way
- 07 Stubble-mulch
(Noble Blade, Sweep/Hoeme/
Muckeroy Plow)
- 08 Subsoil Ploe
(Chisel, V-ripper)
- 09 Disk-chisel
(Mulch Tiller)

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

Tandem Disk
- 14 -Regular
- 15 -Plowing or Heavy Duty
- 16 Paraplow

CULTIVATORS

- 21 Field Cultivator
(Regular digger,
Danish tined,
Swedish tined,
S-tine Cultivator,
Vibra-shank harrow,
Lilliston tiller)
- 22 Furrow-out Cultivator
- 23 Rotary Hoe

Row Cultivator
- 24 -Shank, Rolling
- 25 -Lister, Disk
- 26 Field Cultivator
-Heavy Duty
(Duckfoot cultivator)
- 27 Marker

PACKERS

- 51 Culti-packer
(Pulverizer)
- 52 Plow Packer
- 53 Roller Packer (Smooth & Flat)

HARROWS (DRAGS)

- 31 Field Conditioner
(Seed Bed Conditioner,
Soil Conditioner, Scratcher)
- 32 Finishing Harrow
(Harrogator)
- 33 Flex-Tine Tooth
(Coil Line)
- 34 Multi-weeder
- 35 Rail, Pipe, Log, Plank, Etc...
- 36 Rod Weeder
- 37 Roller Harrow
- 38 Spike Tooth Harrow
- 39 Spring Tooth Harrow
- 40 Powered Spike Tooth Harrow

BEDDERS-SHAPERS

- 41 Bedder-Shaper (Crowder)
- 42 Bed-Shaper, Bed Former

Disk
- 43 -Hipper
- 44 -Row
- 45 Lister (Middle-Buster or Breaker)
- 46 Rotovator-bedder
- 47 Seed Bed roller, Flat Roller)
- 48 Subsoil-Bedder, Subsoiler
(Ripper-hipper, Tiller,
No-till Disk Bedder)
- 49 Discovator

MISCELLANEOUS TILLAGE

- 61 Land-all, Do-all, Till-all, Mix-n-till
- 62 Mulch Treader, Picker-Treader,
Skew Treader
- 63 Roto-tiller (rotary tiller)
- 64 Roterra, Lely
- 65 Sand-fighter
- 66 Soil Finisher
(Finishing tool, Mulch
finisher, Tri-tiller, Task
master)

DRILLS and SEEDERS

- 101 Aerial Seeding
- 102 Broadcast Seeder

Drill
- 103 Drill-Air Delivery
- 104 Grain Drill (Lister disk)
- 105 No-Till, Minimum-Till Drill,
Zero-Conventional
- 106 Grain Drill (Plain)
- 107 Press Drill (Disk or Hoe)

PLANTERS

- 111 Bedder-shaper
- 112 Lister-bedder Planter
- 113 No-till, Minimum Till
- 114 Conventional, Row Crop
Planter, All Crop Planter
- 115 Air Delivery
- 116 Planter, Ridge till

LAND FORMING EQUIPMENT

- 171 Backhoe
- 172 Disk Border Maker
- 173 Ditch Closer
- 174 Ditcher (Vee Rotary)
- 175 Levee Plow Disk
- 176 Quarter Drain Machine
- 177 Rear Mounted Blade
- 178 Corrugator
- 179 Float
- 180 Land Plane Leveler
- 181 Laser Planer

For implements codes 171-181, enter *Total Hours Operated* in the column labeled *Total Acres Covered*. *Total Acres Covered* is not meaningful for these implements.

OTHER IMPLEMENTS

- 191 Burn Buggy
- 192 Chaff/Straw Saver
- 193 Electric-Discharge
Weed Killer
- 197 Rock Picker
- 198 Rock Windrower or
Rock Rake
- 199 Rodent (Gopher) Killer
- 200 Roller groover
- 201 Rubber-Wheeled
Weed Puller
- 202 Shredder Flail
- 203 Shredder Rotary
- 205 Stalk Shredder, Cutter
- 206 Swath Roller

SECTION G, IRRIGATION TYPE CODES

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