



United States
Department of
Agriculture

National
Agricultural
Statistics
Service



Agricultural Chemical Usage 2000 Field Crops Summary

May 2001

Ag Ch 1(01) a

USDA



Update Alert

Summary errors for the chemicals Metolachlor and S-Metolachlor were discovered for corn, upland cotton, and soybeans. Some of the previously published values were a blend of products with these two active ingredients. As a result, the percent of area applied, rate per application, rate per crop year, and total applied for Metolachlor changed for most of the States surveyed. The affected tables have been revised. (pages 5, 9-11, 15-29, 33, 34, 40, 44, 45, 47, 52, 74, 76, and 82).

2000 Agricultural Chemical Use Estimates for Field Crops

Overview: The agricultural chemical use estimates in this report refer to on-farm use of commercial fertilizers and pesticides on targeted crops for the 2000 crop year. Farm and ranch operators were enumerated late in the growing season or after the farm operator had indicated that planned applications were completed. The chemical use data were not summarized for geographical areas other than published in this report.

The data were compiled from the Agricultural Resources Management Study (ARMS), conducted primarily during the months of October-December of 2000. Relevant portions of the survey instruments used in data collection are included in the back of this publication.

Targeted crops in the 2000 ARMS include corn, upland cotton, rice, soybeans, sugarbeets, winter wheat, durum wheat, and other spring wheat. Durum wheat was a target commodity for North Dakota only.

Agricultural Chemical Use Survey Coverage, 1999 and 2000

Crop	1999			2000		
	States Surveyed	Reports Summarized	US Acreage Included	States Surveyed	Reports Summarized	US Acreage Included
	-- Number --		Percent	-- Number --		Percent
Corn	15	2,325	88	18	2,608	93
Cotton, Upland	10	1,607	91	11	1,835	94
Rice	-	-	-	5	628	95
Soybeans	17	2,525	92	18	2,524	97
Sugarbeets	-	-	-	11	915	98
Wheat, Durum	-	-	-	1	117	83
Wheat, Spring	-	-	-	4	327	91
Wheat, Winter	1	177	1	16	1,550	88

This report excludes pesticides used for seed treatments and postharvest applications to the commodity. Spot treatments, which account for a small percentage (approximately 1%) of total applications, are also excluded.

Highlights

Corn: Nitrogen was applied to 98 percent of the 2000 corn acreage in the 18 States surveyed: Colorado, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, New York, North Carolina, North Dakota, Ohio, Pennsylvania, South Dakota, Texas, and Wisconsin. Growers in Kansas, Missouri, and Ohio reported 100 percent of the acreage treated with nitrogen. Corn growers used an average of 1.7 applications per acre while applying 77 pounds of nitrogen per treatment. In the States surveyed, 84 percent of the planted corn acreage received phosphates and potash was applied to 66 percent of the acreage.

Herbicides were applied to 97 percent of the corn acreage in 2000. Atrazine continued to be the most commonly used herbicide with 68 percent of the reported acreage being treated. It was applied at a rate of 1.00 pound per acre. Acetochlor and Dicamba were the next two most widely used herbicides and were applied to 25 and 21 percent of the reported acreage, respectively.

In 2000, 29 percent of the corn acreage was treated with insecticides. Chlorpyrifos was the most commonly used insecticide, representing 4.5 million out of the total 9.8 million pounds of insecticide applied in the 18 States surveyed. It was applied at the rate of 1.05 pounds per acre.

Upland Cotton: Nitrogen fertilizer was applied on 83 percent of the upland cotton acreage during 2000 in the 11 States surveyed: Alabama, Arizona, Arkansas, California, Georgia, Louisiana, Mississippi, Missouri, North Carolina, Tennessee, and Texas. The area treated with phosphates totaled 63 percent of the planted acreage in the States surveyed. Alabama, Georgia, and Tennessee producers reported the greatest use of phosphates, treating 95, 94 and 93 percent of their planted acreage, respectively. The largest increase in phosphate use was in Louisiana, which showed a 21 point increase from the previous year. Potash was applied to 53 percent of the area planted to upland cotton in 2000 for the 11 States surveyed. Tennessee, Missouri, and Georgia producers reported the highest percentage of acres treated with potash. Arizona and California continued to be the smallest users, treating 8 and 12 percent of the acres, respectively.

Herbicides were applied to 95 percent of the upland cotton planted acreage in the States surveyed. Most States showed decreases from the previous year, although Arizona, North Carolina, and Tennessee showed increases of 4, 3, and 3 percentage points, respectively. Texas use decreased 5 points from 1999 levels. Glyphosate replaced Trifluralin as the most commonly used herbicide, and it was applied to 56 percent of the acreage. Trifluralin was applied to 39 percent of the planted acres, down 13 percentage points from 1999.

Insecticide applications were made to 80 percent of the upland cotton planted acres in 2000 for the 11 States Surveyed. Most States showed decreases in use from the previous year, although Tennessee, Arizona, North Carolina, and Mississippi use increased. Louisiana's percent of acres treated was unchanged from 1999. Malathion, at approximately 31.9 million pounds, continued to be the active ingredient with the highest total pounds applied for upland cotton.

Area treated with other chemicals totaled 61 percent of the 2000 planted acreage. North Carolina use of other chemicals showed an increase of 34 percentage points from 1999. Tennessee use of other chemicals was up 4 percentage points from the previous year. Texas continued to treat the smallest percent of acreage with other chemicals, at 29 percent, 3 percentage points below last year's use.

Rice: Nitrogen was applied to 100 percent of the total 2000 rice acreage in the five States surveyed: Arkansas, California, Louisiana, Mississippi, and Texas. Growers used an average of 2.4 applications of nitrogen per acre while applying an average of 59 pounds per treatment. In the States surveyed, 59 percent of the planted rice acreage received phosphates and potash was applied to 47 percent of the acreage.

Herbicides were applied to 98 percent of the rice acreage in 2000 for the five States surveyed. Propanil was the most commonly used herbicide with 62 percent of the reported acreage being treated. It was applied at the rate of 2.90 pounds per acre. Clomazone, Molinate, and Quinclorac were the next three most commonly used herbicides and they were applied to 32, 29 and 25 percent of the reported acreage, respectively.

In 2000, 22 percent of the rice acreage was treated with insecticides in the States surveyed. Lambda-cyhalotrin and methyl parathion were the most widely used insecticides, with 13 and 9 percent of the reported acreage treated, respectively. Lambda-cyhalotrin was applied at the rate of 0.03 pounds per acre and methyl parathion was applied at 0.51 pounds per acre.

Soybeans: Soybean producers in the 18 States surveyed (Arkansas, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Carolina, North Dakota, Ohio, South Dakota, Tennessee, and Wisconsin) applied nitrogen fertilizer to 18 percent of the area planted to soybeans. The percent of acres treated ranged from 6 percent in Louisiana to 46 percent in North Dakota. The average number of nitrogen applications per acre was 1.0 with an average application rate of 23 pounds per acre. Phosphate was applied on 24 percent of the soybean planted acreage in the States surveyed. Producers in North Carolina applied phosphates to 62 percent of the soybean acreage, while applications by Minnesota producers covered only 9 percent of the planted acreage. Potash was applied to 27 percent of the planted soybean acreage in the 18 States surveyed.

In the 18 States surveyed, 97 percent of the soybean acreage was treated with herbicides. The most widely used herbicides were Glyphosate, applied to 62 percent of the soybean acreage, followed by Trifluralin applied to 14 percent of the acreage, and Imazethapyr applied to 12 percent of the planted acreage. Pendimethalin and Chlorimuron-ethyl were applied to 11 and 10 percent of the soybean acreage, respectively.

Soybean growers in the States surveyed applied insecticide to only 2 percent of the soybean acres planted. Although there were too few reports to publish some individual State data for the insecticides, data are published for Arkansas, Illinois, Kentucky, Louisiana, Mississippi, North Carolina, Ohio, and Tennessee. Of the published States, Louisiana was the largest user of insecticides with 56 percent of the acreage treated. Soybean growers also reported few fungicide applications.

Sugarbeets: Eleven sugarbeets producing States were included in the 2000 survey: California, Colorado, Idaho, Michigan, Minnesota, Montana, Nebraska, North Dakota, Oregon, Washington, and Wyoming.

Nitrogen fertilizer was applied to 98 percent of the sugarbeet acreage. The number of nitrogen applications averaged 1.5 per acre with a total of 166.2 million pounds applied. Phosphate was applied to 92 percent of the acres in the States surveyed with a total of 101.4 million pounds being applied. Potash was applied to 50 percent of the sugarbeets acreage. About 58.8 million pounds of potash were applied in total.

Herbicides were applied to 98 percent of the sugarbeets in 2000 in the 11 States surveyed. Percentages of acres treated ranged from 87 percent in California and Wyoming to 100 percent of the crop receiving herbicides in Idaho, Minnesota, Montana, North Dakota, and Oregon. Desmedipham, Triflusaluron, and Phenmediphan were the most commonly used herbicides in sugarbeets; they were used on 94, 83, and 80 percent of the planted acreage, respectively.

Insecticides were applied to 63 percent of the 2000 sugarbeet acreage. Usage ranged from treatment on 12 percent of the sugarbeet acres in Michigan to 95 percent of the acres in Idaho. The two most common active ingredients were Terbufos and Chlorpyrifos which were applied to 41 and 12 percent of the sugarbeet acreage, respectively.

Fungicide treatments were applied to 72 percent of the sugarbeet acreage. North Dakota treated 96 percent of the acreage, followed closely by Minnesota and Michigan with 95 and 86 percent, respectively. Tetraconazole was used the most, as it was applied on 55 percent of the acreage, followed by Triphenyltin hydroxide (Triphenyltin hydr.) on 44 percent of the sugarbeet acreage.

Durum Wheat: Nitrogen fertilizer was applied to 86 percent of the area planted for 2000 in North Dakota. Phosphate fertilizers were applied to 66 percent of the collective acreage. North Dakota growers treated 97 percent of the durum wheat acreage with herbicides; 2,4-D was the most prevalent in terms of total amount applied. Seventy-five percent of the acres planted were treated with 2,4-D.

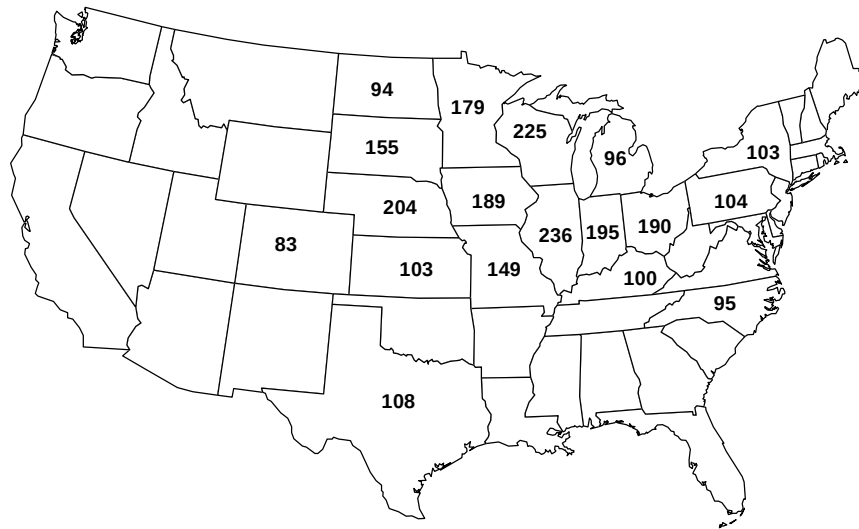
Other Spring Wheat: Nitrogen was applied to 95 percent of the total 2000 Other Spring Wheat acreage in the four States surveyed: Minnesota, Montana, North Dakota, and South Dakota. Phosphate fertilizers were applied to 84 percent of the acreage in the States surveyed. Potash was applied to 27 percent of the planted acreage. Spring wheat growers treated 95 percent of the other spring wheat acreage with herbicides; 2,4-D was the most prevalent with 45 percent of the planted acreage treated, closely followed by MCPA with 44 percent.

Winter Wheat: Nitrogen was applied to 87 percent of the 2000 winter wheat acreage in the 16 States surveyed: Arkansas, Colorado, Idaho, Illinois, Kansas, Kentucky, Missouri, Montana, Nebraska, North Carolina, Ohio, Oklahoma, Oregon, South Dakota, Texas, and Washington. Growers in Washington reported 100 percent of the acreage treated with nitrogen. Winter wheat growers used an average of 1.5 applications per acre while applying 44 pounds of nitrogen per treatment. In the States surveyed, 54 percent of the planted winter wheat acreage received phosphates and potash was applied to 17 percent of the acreage.

Herbicides were applied to 37 percent of the winter wheat acreage in 2000. 2,4-D and Metsulfuron-methyl were the two most commonly used herbicides with 13 and 12 percent of the reported acreage being treated, respectively.

In 2000, only 4 percent of the winter wheat acreage was treated with insecticides. Chlorpyrifos was the most commonly used insecticide, representing approximately 92 percent out of the total 548 thousand pounds of insecticide applied in the 16 States surveyed.

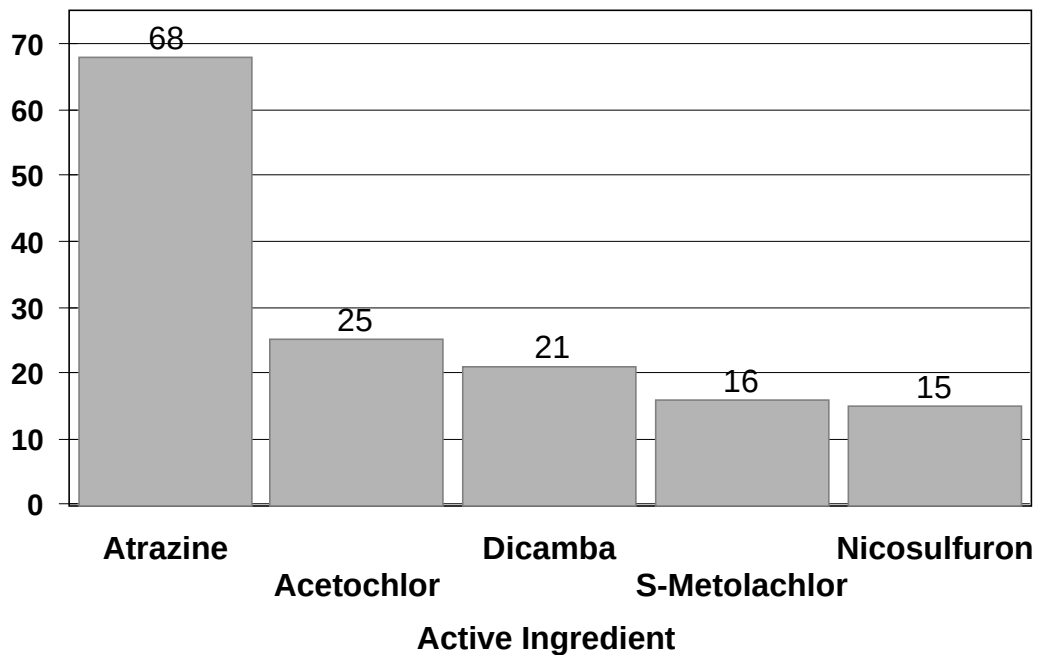
Corn: Number of Usable Reports, 2000



Corn - Percent of Acres Treated

Top 5 Active Ingredients for 2000

Percent



Surveyed States are CO, IL, IN, IA, KS, KY, MI, MN, MO, NE, NY, NC, ND, OH, PA, SD, TX and WI

Corn: Fertilizer Use by State, 2000
Percent of Acres Treated and Total Amount Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied							
		Nitrogen		:	Phosphate		:	Potash	
		Percent	Mil. Lbs		Percent	Mil. Lbs		Percent	Mil. Lbs
	1,000 Acres								
CO	1,350	95	182.0		78	42.2		17	7.4
IL	11,200	99	1,797.7		83	739.3		82	1,028.5
IN	5,700	99	864.8		90	366.1		85	625.9
IA	12,300	95	1,533.0		74	503.2		74	630.9
KS	3,450	100	506.0		78	97.3		39	37.1
KY	1,330	99	198.7		81	88.3		80	92.0
MI	2,200	99	240.1		96	96.9		83	154.3
MN	7,100	97	786.4		91	404.2		76	377.9
MO	2,850	100	422.7		82	136.3		82	169.1
NE	8,500	99	1,260.7		82	243.2		22	21.5
NY	980	99	71.2		89	45.6		78	41.8
NC	730	96	86.0		88	37.5		86	52.7
ND	1,080	98	103.0		80	38.8		29	8.7
OH	3,550	100	572.8		92	224.2		83	287.0
PA	1,550	95	103.8		87	59.9		67	35.9
SD	4,300	99	418.9		92	153.6		39	36.1
TX	2,100	98	304.0		85	80.3		27	15.9
WI	3,500	97	300.7		89	120.6		90	161.0
Total	73,770	98	9,752.5		84	3,477.5		66	3,783.7

Corn: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000

Primary Nutrient	: Planted : Acreage	: Area : Applied	: Appli- : cations	: Rate per : Application	: Rate per : Crop Year	: Total : Applied
	1,000 Acres	Percent	Number	Pounds per Acre		Mil. Lbs
Colorado:	1,350					
Nitrogen		95	2.2	63	143	182.0
Phosphate		78	1.0	37	40	42.2
Potash		17	1.0	32	32	7.4
Illinois:	11,200					
Nitrogen		99	1.8	90	161	1,797.7
Phosphate		83	1.0	75	80	739.3
Potash		82	1.0	108	111	1,028.5
Indiana:	5,700					
Nitrogen		99	2.1	73	153	864.8
Phosphate		90	1.3	55	72	366.1
Potash		85	1.0	118	129	625.9
Iowa:	12,300					
Nitrogen		95	1.5	87	131	1,533.0
Phosphate		74	1.0	53	55	503.2
Potash		74	1.0	69	69	630.9

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Corn: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000 (continued)

Primary Nutrient	: Planted : : Acreage :	Area : : Applied :	Appli- : : cations :	Rate per : : Application :	Rate per : : Crop Year :	Total : : Applied
	: 1,000 : Acres	Percent	Number	Pounds per Acre		Mil. Lbs
Kansas:	3,450					
Nitrogen		100	1.4	101	147	506.0
Phosphate		78	1.1	32	36	97.3
Potash		39	1.2	22	28	37.1
Kentucky:	1,330					
Nitrogen		99	1.7	86	151	198.7
Phosphate		81	1.0	79	82	88.3
Potash		80	1.0	85	87	92.0
Michigan:	2,200					
Nitrogen		99	2.0	53	110	240.1
Phosphate		96	1.0	44	46	96.9
Potash		83	1.3	65	84	154.3
Minnesota:	7,100					
Nitrogen		97	1.9	59	114	786.4
Phosphate		91	1.2	52	63	404.2
Potash		76	1.0	68	70	377.9
Missouri:	2,850					
Nitrogen		100	1.4	106	148	422.7
Phosphate		82	1.0	56	58	136.3
Potash		82	1.0	70	72	169.1
Nebraska:	8,500					
Nitrogen		99	1.9	79	150	1,260.7
Phosphate		82	1.0	33	35	243.2
Potash		22	1.0	11	11	21.5
New York:	980					
Nitrogen		99	1.4	51	73	71.2
Phosphate		89	1.0	49	52	45.6
Potash		78	1.1	49	55	41.8
North Carolina:	730					
Nitrogen		96	1.9	64	123	86.0
Phosphate		88	1.1	53	58	37.5
Potash		86	1.0	78	84	52.7
North Dakota:	1,080					
Nitrogen		98	1.6	61	98	103.0
Phosphate		80	1.0	43	45	38.8
Potash		29	1.0	26	28	8.7
Ohio:	3,550					
Nitrogen		100	2.3	70	162	572.8
Phosphate		92	1.1	60	69	224.2
Potash		83	1.1	84	97	287.0

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Corn: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000 (continued)

Primary Nutrient	:Planted : :Acreage	: Area : :Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: 1,000 : : Acres	Percent	Number	Pounds per Acre		Mil. Lbs
Pennsylvania:	: 1,550					
Nitrogen	: :	95	1.6	43	71	103.8
Phosphate	: :	87	1.0	42	44	59.9
Potash	: :	67	1.0	33	35	35.9
South Dakota:	: 4,300					
Nitrogen	: :	99	1.5	63	99	418.9
Phosphate	: :	92	1.0	36	39	153.6
Potash	: :	39	1.0	21	21	36.1
Texas:	: 2,100					
Nitrogen	: :	98	1.7	82	148	304.0
Phosphate	: :	85	1.0	43	45	80.3
Potash	: :	27	1.0	28	28	15.9
Wisconsin:	: 3,500					
Nitrogen	: :	97	1.6	53	88	300.7
Phosphate	: :	89	1.0	37	39	120.6
Potash	: :	90	1.0	49	51	161.0
Total:	: 73,770					
Nitrogen	: :	98	1.7	77	136	9,752.5
Phosphate	: :	84	1.1	51	57	3,477.5
Potash	: :	66	1.0	75	79	3,783.7

Corn: Active Ingredients Applied and Publication Status
By States Surveyed, 2000

Active Ingredient	States Surveyed						
	ALL	: CO	: IA	: IL	: IN	: KS	: KY
Herbicides	:	:	:	:	:	:	:
2,4-D	P	:	P	P	P	P	P
Acetamide	P	:	:	*	*	P	*
Acetochlor	P	:	P	P	P	P	P
Alachlor	P	:	*	*	P	P	P
Ametryn	P	:	:	:	:	:	:
Atrazine	P	:	P	P	P	P	P
Bentazon	P	:	*	*	*	*	*
Bromoxynil	P	:	*	P	*	*	*
Carfentrazone-ethyl	P	:	*	P	*	P	*
Chloramben	*	:	:	:	:	:	*
Clomazone	*	:	:	:	*	:	:
Clopyralid	P	:	*	P	P	*	*
Cyanazine	P	:	*	*	*	*	*
Dicamba	P	:	P	P	P	P	*
Dicamba, Dimet. salt	P	:	P	P	P	*	*
Dicamba, Pot. salt	P	:	P	P	P	*	*
Dichlorprop	P	:	:	:	*	:	:
Diffluenzopyr-sodium	P	:	P	P	P	*	*
Dimethenamid	P	:	*	P	P	P	*
Diuron	*	:	:	:	:	:	*
EPTC	P	:	:	*	*	:	:
Flumetsulam	P	:	:	P	P	P	*
Flumiclorac-Pentyl	*	:	:	*	:	:	:
Glufosinate-ammonium	P	:	:	P	*	*	*
Glyphosate	P	:	P	P	P	P	P
Halosulfuron	P	:	*	*	*	*	*
Imazapyr	P	:	*	P	P	P	P
Imazethapyr	P	:	*	P	P	P	P
Isoxaflutole	P	:	*	P	P	P	*
MCPA	*	:	:	:	*	:	:
Metolachlor	P	:	P	P	P	P	P
Metribuzin	P	:	:	*	*	*	*
Nicosulfuron	P	:	P	P	P	P	*
Paraquat	P	:	*	*	P	P	P
Pendimethalin	P	:	*	*	*	*	*
Primisulfuron	P	:	*	P	P	P	P
Propachlor	*	:	:	:	:	:	:
Prosulfuron	P	:	:	*	P	P	*
Pyridate	P	:	P	P	*	*	*
Rimsulfuron	P	:	P	P	P	P	*
S-Metolachlor	P	:	*	p	p	p	P
Sethoxydim	*	:	*	:	:	:	:
Simazine	P	:	:	:	P	P	*
Sulfosate	P	:	:	:	*	*	*
Thifensulfuron	P	:	*	*	*	*	*
Tribenuron-methyl	*	:	:	:	:	:	:
Trifluralin	P	:	:	*	*	:	:
Vernolate	*	:	:	*	:	:	:

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Corn: Active Ingredients Applied and Publication Status
By States Surveyed, 2000 (continued)

Active Ingredient	States Surveyed					
	MI	MN	MO	NC	ND	NE
Herbicides	:	:	:	:	:	:
2,4-D	P	P	P	P	P	P
Acetamide	*		P		*	P
Acetochlor	P	P	P	*	P	P
Alachlor	*	P	P	P		P
Ametryn				P		
Atrazine	P	P	P	P	P	P
Bentazon	*	*				
Bromoxynil	P	P	*		P	*
Carfentrazone-ethyl		*	*			*
Chloramben						
Clomazone						
Clopyralid	P	P	P		P	P
Cyanazine	*	*	*	*		P
Dicamba	P	P	*	*	P	P
Dicamba, Dimet. salt	*	P			P	P
Dicamba, Pot. salt		P	*			P
Dichlorprop				*		
Di flufenzopyr-sodium	*	P			P	P
Dimethenamid	*	P	*	*	*	P
Diuron						
EPTC		*			P	
Flumetsulam	P	P	P		P	P
Flumiclorac-Pentyl	*					
Glufosinate-ammonium		*	P	*	*	*
Glyphosate	P	P	P	P	P	P
Halosulfuron						P
Imazapyr	*	*	P	*		P
Imazethapyr	*	*	P	*		P
Isoxaflutole			*		*	P
MCPA						*
Metolachlor	P	P	P	P		P
Metribuzin	*		P		*	P
Nicosulfuron	P	P	P	*	P	P
Paraquat			*	P		
Pendimethalin	P	*	*	*	*	
Primisulfuron	*	P	P	*	*	P
Propachlor		*				
Prosulfuron			P	*		P
Pyridate	*	*				*
Rimsulfuron	P	P	P		P	P
S-Metolachlor	P	P	p	P		P
Sethoxydim				*		
Simazine	*		P	P		*
Sulfosate	*		*			*
Thifensulfuron		*		*	*	P
Tribenuron-methyl				*		
Trifluralin						
Vernolate						

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Corn: Active Ingredients Applied and Publication Status
By States Surveyed, 2000 (continued)

Active Ingredient	States Surveyed					
	NY	OH	PA	SD	TX	WI
Herbicides	:	:	:	:	:	:
2,4-D	*	P	P	P	*	*
Acetamide	:	*	:	:	*	*
Acetochlor	:	P	P	P	*	P
Alachlor	:	P	*	*	*	P
Ametryn	:	:	:	:	:	:
Atrazine	:	P	P	P	P	P
Bentazon	:	*	:	*	:	:
Bromoxynil	:	:	:	P	*	*
Carfentrazone-ethyl	:	:	:	*	*	*
Chloramben	:	:	:	:	:	:
Clomazone	:	:	:	:	:	:
Clopyralid	:	*	P	*	:	P
Cyanazine	:	*	P	*	*	P
Dicamba	:	P	P	P	P	P
Dicamba, Dimet. salt	:	P	*	*	*	P
Dicamba, Pot. salt	:	*	*	*	:	P
Dichlorprop	:	:	*	*	:	:
Di flufenzopyr-sodium	:	P	*	*	*	*
Dimethenamid	:	*	P	*	P	P
Diuron	:	:	:	:	*	:
EPTC	:	*	:	P	:	:
Flumetsulam	:	P	P	*	:	P
Flumiclorac-Pentyl	:	:	:	*	:	:
Glufosinate-ammonium	:	*	:	*	:	*
Glyphosate	:	P	P	P	P	P
Halosulfuron	:	*	:	:	:	*
Imazapyr	:	:	*	P	*	*
Imazethapyr	:	:	*	P	*	*
Isoxaflutole	:	:	P	P	*	:
MCPA	:	:	:	:	:	:
Metolachlor	:	P	P	P	*	P
Metribuzin	:	:	*	:	*	*
Nicosulfuron	:	P	P	P	P	P
Paraquat	:	:	*	:	:	:
Pendimethalin	:	P	P	*	P	P
Primisulfuron	:	*	P	*	P	P
Propachlor	:	*	:	*	:	:
Prosulfuron	:	:	*	*	P	*
Pyridate	:	*	*	*	:	:
Rimsulfuron	:	P	*	P	P	P
S-Metolachlor	:	p	P	p	P	P
Sethoxydim	:	:	:	:	:	:
Simazine	:	:	P	*	:	*
Sulfosate	:	:	:	:	:	:
Thifensulfuron	:	*	:	P	*	*
Tribenuron-methyl	:	:	:	:	:	:
Trifluralin	:	:	:	:	*	:
Vernolate	:	:	:	:	:	:

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Corn: Active Ingredients Applied and Publication Status
By States Surveyed, 2000

Active Ingredient	States Surveyed						
	ALL	:	CO	:	IA	:	IL : IN : KS : KY
Insecticides	:	:	:	:	:	:	:
Bt(Bacillus thur.)	*	:	:	:	:	:	:
Bifenthrin	P	:	*	:	:	:	*
Carbofuran	P	:	:	*	*	:	* *
Chlorethoxyfos	P	:	:	:	*	*	:
Chlorpyrifos	P	:	*	P	P	P	* *
Cyfluthrin	P	:	P	P	*	*	*
Diazinon	*	:	*	*	:	*	:
Dimethoate	P	:	*	:	:	:	*
Disulfoton	*	:	:	*	:	:	:
Esfenvalerate	P	:	*	*	P	:	:
Ethyl parathion	*	:	*	:	:	:	:
Fipronil	P	:	*	:	*	*	*
Fonofos	*	:	:	*	:	:	:
Lambda-cyhalothrin	P	:	:	*	P	*	* *
Methyl parathion	P	:	*	:	:	:	* *
Permethrin	P	:	*	P	P	*	* *
Phorate	P	:	:	:	:	:	:
Propargite	P	:	*	:	:	:	:
Tebupirimphos	P	:	P	P	*	*	* *
Tefluthrin	P	:	P	*	P	P	*
Terbufos	P	:	P	*	P	*	:
Trimethacarb	*	:	:	:	:	:	:
Fungicides	:	:	:	:	:	:	:
Propiconazole	*	:	:	:	*	:	:

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P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Corn: Active Ingredients Applied and Publication Status
By States Surveyed, 2000 (continued)

Active Ingredient	States Surveyed					
	MI	MN	MO	NC	ND	NE
Insecticides	:	:	:	:	:	:
Bt(Bacillus thur.)	:	:	:	:	:	*
Bifenthrin	:	:	:	:	:	*
Carbofuran	:	:	:	:	:	*
Chlorethoxyfos	:	:	:	:	:	*
Chlorpyrifos	:	*	*	P	*	P
Cyfluthrin	:	:	*	:	:	P
Diazinon	:	*	:	:	:	:
Dimethoate	:	:	:	:	:	*
Disulfoton	:	:	:	:	:	:
Esfenvalerate	:	:	*	:	:	*
Ethyl parathion	:	:	:	:	:	:
Fipronil	:	*	:	:	:	P
Fonofos	:	*	:	:	:	*
Lambda-cyhalothrin	:	:	P	:	*	*
Methyl parathion	:	:	:	:	:	P
Permethrin	:	*	P	:	:	P
Phorate	:	:	*	*	:	*
Propargite	:	:	:	:	:	:
Tebupirimphos	:	*	*	:	:	P
Tefluthrin	:	P	:	:	:	P
Terbufos	:	*	:	P	:	P
Trimethacarb	:	:	:	:	:	*
Fungicides	:	:	:	:	:	:
Propiconazole	:	*	:	:	:	*

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P Usage data are published for this active ingredient.
* Usage data are not published for this active ingredient.

Corn: Active Ingredients Applied and Publication Status
By States Surveyed, 2000 (continued)

Active Ingredient	States Surveyed					
	NY	OH	PA	SD	TX	WI
Insecticides	:	:	:	:	:	:
Bt(Bacillus thur.)	:	:	:	:	:	:
Bifenthrin	:	:	*	:	P	:
Carbofuran	:	:	*	:	*	P
Chlorethoxyfos	:	:	:	:	:	:
Chlorpyrifos	:	P	P	P	*	P
Cyfluthrin	:	:	*	*	P	P
Diazinon	:	:	:	:	:	:
Dimethoate	:	:	:	:	P	:
Disulfoton	:	:	:	:	:	:
Esfenvalerate	:	:	*	:	:	*
Ethyl parathion	:	:	:	:	:	:
Fipronil	:	:	*	:	*	*
Fonofos	:	:	:	:	:	:
Lambda-cyhalothrin	:	:	*	*	*	:
Methyl parathion	:	:	:	:	:	:
Permethrin	:	:	*	P	P	:
Phorate	:	:	:	:	:	:
Propargite	:	:	:	:	*	:
Tebupirimphos	:	:	*	*	P	P
Tefluthrin	:	*	*	P	*	P
Terbufos	:	*	*	*	P	*
Trimethacarb	:	:	:	:	:	:
Fungicides	:	:	:	:	:	:
Propiconazole	:	:	:	:	:	:

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Corn: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
States Surveyed and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied			
		Herbicide	: Insecticide 1/	: Fungicide 3/	: Other Chemicals
	: 1,000 : : Acres :	Percent 1,000 : Lbs	Percent 1,000 : Lbs	Percent 1,000 : Lbs	Percent 1,000 : Lbs
CO	: 1,350	97	1,501	59	505
IL 2/	: 11,200	100	28,190	43	3,131
IN	: 5,700	99	15,460	30	797
IA	: 12,300	100	24,518	16	635
KS	: 3,450	93	7,765	31	287
KY	: 1,330	95	2,600	26	65
MI 2/	: 2,200	99	5,658	10	131
MN	: 7,100	99	10,597	8	369
MO	: 2,850	87	5,988	20	114
NE 2/	: 8,500	97	16,862	55	1,470
NY	: 980	92	2,312	31	204
NC	: 730	93	1,732	46	363
ND 2/	: 1,080	71	1,284		
OH	: 3,550	99	10,339	24	603
PA	: 1,550	100	4,419	57	302
SD	: 4,300	100	5,790	15	44
TX	: 2,100	81	2,039	55	426
WI	: 3,500	95	6,410	20	365
Total:	73,770	97	153,464	29	9,811

- 1/ Total Applied excludes Bt's (*Bacillus thuringiensis*). Quantities are not available because amounts of active ingredient are not comparable between products.
- 2/ Insufficient reports to publish data for one or more of the pesticide classes.
- 3/ Insufficient reports to publish data for one or more of the States surveyed.

Corn: Agricultural Chemical Applications,
States Surveyed, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
: Applied : cations : Application : Crop Year : Applied	
	Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
2,4-D	: 8 1.0 0.39 0.40 2,359
Acetamide	: 2 1.0 0.50 0.50 792
Acetochlor	: 25 1.0 1.70 1.73 31,442
Alachlor	: 4 1.0 1.73 1.74 4,748
Ametryn	: * 1.0 1.14 1.14 114
Atrazine	: 68 1.0 1.00 1.07 53,954
Bentazon	: 2 1.0 0.26 0.26 327
Bromoxynil	: 4 1.0 0.29 0.30 884
Carfentrazone-ethyl	: 1 1.0 0.06 0.06 54
Clopyralid	: 9 1.0 0.10 0.10 640
Cyanazine	: * 1.0 1.36 1.36 865
Dicamba	: 21 1.0 0.20 0.20 3,132
Dicamba, Dimet. salt	: 3 1.0 0.18 0.18 394
Dicamba, Pot. salt	: 5 1.0 0.37 0.37 1,407
Dichlorprop	: * 1.2 0.20 0.26 10
Di flufenzopyr-sodium	: 3 1.0 0.07 0.07 157
Dimethenamid	: 7 1.0 1.06 1.06 5,738
EPTC	: 1 1.0 3.51 3.62 2,884
Flumetsulam	: 10 1.0 0.04 0.04 301
Glufosinate-ammonium	: 2 1.0 0.33 0.33 585
Glyphosate	: 9 1.1 0.59 0.70 4,438
Halosulfuron	: * 1.0 0.03 0.03 15
Imazapyr	: 2 1.0 0.002 0.002 3
Imazethapyr	: 3 1.0 0.01 0.01 22
Isoxaflutole	: 3 1.0 0.07 0.07 171
Metolachlor	: 12 1.0 1.65 1.67 14,232
Metribuzin	: 2 1.0 0.13 0.13 190
Nicosulfuron	: 15 1.0 0.02 0.02 199
Paraquat	: 1 1.0 0.52 0.52 570
Pendimethalin	: 3 1.0 1.25 1.27 2,360
Primisulfuron	: 9 1.0 0.02 0.02 140
Prosulfuron	: 4 1.0 0.009 0.009 25
Pyridate	: 5 1.0 0.66 0.66 2,268
Rimsulfuron	: 9 1.0 0.01 0.01 82
S-Metolachlor	: 16 1.0 1.26 1.33 15,383
Simazine	: 2 1.0 1.13 1.13 2,029
Sulfosate	: * 1.0 0.67 0.67 173
Thifensulfuron	: * 1.0 0.01 0.01 6
Trifluralin	: * 1.0 0.60 0.60 43
Insecticides:	:
Bifenthrin	: 2 1.0 0.07 0.07 93
Carbofuran	: * 1.3 0.95 1.25 580
Chlorethoxyfos	: * 1.0 0.10 0.10 52
Chlorpyrifos	: 6 1.0 1.05 1.05 4,516
Cyfluthrin	: 2 1.0 0.006 0.006 10
Dimethoate	: * 1.0 0.48 0.48 109
Esfenvalerate	: * 1.0 0.13 0.13 55
Fipronil	: 4 1.0 0.11 0.11 320

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Corn: Agricultural Chemical Applications,
States Surveyed, 2000 (continued) 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	: Number	: Pounds per Acre		: 1,000 lbs
Insecticides: (cont.)	:	:	:	:	:
Lambda-cyhalothrin	: 2	1.0	0.02	0.02	25
Methyl parathion	: *	1.1	0.41	0.46	246
Permethrin	: 3	1.0	0.10	0.10	182
Phorate	: *	1.0	0.91	0.91	65
Propargite	: *	1.0	1.00	1.00	46
Tebupirimphos	: 2	1.0	0.12	0.12	197
Tefluthrin	: 7	1.0	0.10	0.10	478
Terbufos	: 3	1.0	1.14	1.23	2,781

* Area applied is less than one percent.

1/ Planted acres in 2000 for the 18 states surveyed were 73.8 million acres. States included are CO, IL, IN, IA, KS, KY, MI, MN, MO, NE, NY, NC, ND, OH, PA, SD, TX and WI.

Corn: Agricultural Chemical Applications,
Colorado, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	: Number	: Pounds per Acre		: 1,000 lbs
Herbicides:	:	:	:	:	:
2,4-D	: 6	1.2	0.19	0.24	20
Acetochlor	: 9	1.0	0.72	0.72	89
Atrazine	: 56	1.0	0.78	0.82	615
Dicamba	: 38	1.0	0.13	0.13	67
Dicamba, Dimet. salt	: 4	1.0	0.08	0.08	4
Dicamba, Pot. salt	: 3	1.0	0.25	0.25	10
Diiflufenzopyr-sodium	: 4	1.0	0.03	0.03	2
Glyphosate	: 29	1.7	0.34	0.58	228
Metolachlor	: 6	1.0	1.44	1.44	113
Nicosulfuron	: 31	1.0	0.01	0.01	5
Pyridate	: 12	1.0	0.37	0.37	61
Rimsulfuron	: 27	1.0	0.01	0.01	4
Insecticides:	:	:	:	:	:
Cyfluthrin	: 12	1.0	0.004	0.004	**
Tebupirimphos	: 12	1.0	0.07	0.07	11
Tefluthrin	: 4	1.0	0.05	0.05	3
Terbufos	: 21	1.0	1.02	1.02	284

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for Colorado were 1.35 million acres.

Corn: Agricultural Chemical Applications,
Illinois, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year : Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
2,4-D	: 13 1.0 0.42 0.43 642
Acetochlor	: 20 1.0 1.97 2.04 4,491
Alachlor	: * 1.1 1.76 1.97 177
Atrazine	: 81 1.1 1.09 1.21 10,927
Clopyralid	: 6 1.0 0.09 0.09 64
Dicamba	: 21 1.0 0.12 0.12 288
Dicamba, Dimet. salt	: 4 1.0 0.13 0.13 65
Dicamba, Pot. salt	: 10 1.0 0.41 0.41 460
Di flufenzopyr-sodium	: 4 1.0 0.05 0.05 26
Dimethenamid	: 14 1.0 1.10 1.10 1,677
Flumetsulam	: 6 1.0 0.03 0.03 24
Glyphosate	: 6 1.1 0.54 0.61 382
Imazapyr	: 3 1.0 0.002 0.002 **
Imazethapyr	: 3 1.0 0.007 0.007 2
Isoxaflutole	: 4 1.0 0.09 0.09 42
Metolachlor	: 20 1.0 1.67 1.55 3,721
Nicosulfuron	: 8 1.1 0.02 0.02 17
Paraquat	: 3 1.0 0.55 0.55 182
Primisulfuron	: 20 1.0 0.02 0.02 50
Prosulfuron	: 9 1.0 0.008 0.008 9
Rimsulfuron	: 8 1.0 0.01 0.01 10
S-Metolachlor	: 25 1.0 1.42 1.44 4,054
Simazine	: 4 1.0 1.01 1.01 430
Insecticides:	:
Chlorpyrifos	: 13 1.0 1.20 1.20 1,799
Esfenvalerate	: 2 1.0 0.07 0.07 18
Lambda-cyhalothrin	: 4 1.0 0.02 0.02 9
Permethrin	: 2 1.0 0.10 0.10 26
Tefluthrin	: 10 1.0 0.10 0.10 122
Terbufos	: 4 1.4 1.24 1.75 791

* Area applied is less than one percent.

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for Illinois were 11.2 million acres.

Corn: Agricultural Chemical Applications,
Indiana, 2000 1/

Agricultural Chemical	: Area : :Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 13	1.0	0.38	0.41	318
Acetamide	: 2	1.0	0.50	0.50	66
Acetochlor	: 26	1.0	2.00	2.01	2,918
Alachlor	: 3	1.0	2.06	2.06	330
Atrazine	: 80	1.0	1.38	1.41	6,432
Clopyralid	: 10	1.0	0.10	0.10	56
Dicamba	: 13	1.0	0.22	0.22	157
Dimethenamid	: 6	1.0	1.23	1.23	427
Flumetsulam	: 11	1.0	0.04	0.04	25
Glyphosate	: 11	1.0	0.47	0.47	287
Imazapyr	: 4	1.0	0.002	0.002	1
Imazethapyr	: 4	1.0	0.007	0.007	2
Isoxaflutole	: 3	1.0	0.06	0.06	9
Metolachlor	: 41	1.0	1.50	1.50	1,601
Metribuzin	: 2	1.0	0.13	0.13	15
Nicosulfuron	: 5	1.0	0.01	0.01	3
Paraquat	: *	1.0	0.50	0.50	21
Primisulfuron	: 8	1.0	0.02	0.02	9
Prosulfuron	: 4	1.0	0.008	0.008	2
Rimsulfuron	: 5	1.0	0.009	0.009	2
Simazine	: 5	1.0	0.94	0.94	277
S-Metolachlor	: 27	1.0	1.25	1.25	1,909
Insecticides:	:				
Chlorpyrifos	: 8	1.0	1.04	1.04	499
Tefluthrin	: 13	1.0	0.10	0.10	75

* Area applied is less than one percent.

1/ Planted acres in 2000 for Indiana were 5.70 million acres.

Corn: Agricultural Chemical Applications,
Iowa, 2000 1/

Agricultural Chemical	: Area : :Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 10	1.0	0.35	0.35	414
Acetochlor	: 32	1.0	1.76	1.83	7,294
Atrazine	: 64	1.1	0.81	0.90	7,119
Bromoxynil	: 12	1.0	0.27	0.29	414
Carfentrazone-ethyl	: 3	1.0	0.08	0.08	31
Clopyralid	: 9	1.0	0.10	0.10	115
Dicamba	: 19	1.0	0.23	0.23	540
Dicamba, Dimet. salt	: 3	1.0	0.06	0.06	23
Dicamba, Pot. salt	: 9	1.0	0.37	0.37	425
Di flufenzopyr-sodium	: 3	1.0	0.03	0.03	9
Dimethenamid	: 7	1.0	1.18	1.18	1,032
Flumetsulam	: 10	1.0	0.04	0.04	45
Glufosinate-ammonium	: 7	1.0	0.32	0.32	294
Glyphosate	: 7	1.0	0.55	0.55	479
Imazapyr	: 2	1.0	0.002	0.002	1
Imazethapyr	: 2	1.0	0.007	0.007	2
Isoxaflutole	: 6	0.9	0.08	0.08	62
Metolachlor	: 10	1.0	1.97	1.97	2,316
Nicosulfuron	: 18	1.0	0.02	0.02	37
Primisulfuron	: 8	1.0	0.02	0.02	21
Pyridate	: 20	1.0	0.73	0.73	1,775
Rimsulfuron	: 10	1.0	0.01	0.01	14
S-Metolachlor	: 3	1.2	1.44	1.75	541
Insecticides:	:				
Chlorpyrifos	: 3	1.0	0.91	0.91	340
Cyfluthrin	: 5	1.0	0.006	0.006	4
Permethrin	: 1	1.0	0.12	0.12	16
Tebupirimphos	: 5	1.0	0.13	0.13	74

1/ Planted acres in 2000 for Iowa were 12.3 million acres.

Corn: Agricultural Chemical Applications,
Kansas, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
: Applied : cations : Application : Crop Year : Applied	
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
2,4-D	: 7 1.0 0.34 0.35 84
Acetochlor	: 10 1.0 1.94 1.94 683
Alachlor	: 5 1.0 1.99 1.99 360
Atrazine	: 81 1.1 0.91 1.04 2,910
Carfentrazone-ethyl	: 2 1.0 0.02 0.02 1
Dicamba	: 10 1.0 0.18 0.18 58
Dimethenamid	: 12 1.0 0.66 0.66 277
Glyphosate	: 15 1.3 0.58 0.77 394
Imazapyr	: 2 1.0 0.003 0.003 **
Imazethapyr	: 2 1.0 0.009 0.009 1
Metolachlor	: 5 1.0 1.33 1.33 231
Nicosulfuron	: 13 1.2 0.01 0.01 6
Primisulfuron	: 7 1.0 0.03 0.03 7
Prosulfuron	: 7 1.0 0.009 0.009 2
Rimsulfuron	: 12 1.2 0.01 0.01 5
S-Metolachlor	: 32 1.5 1.36 2.05 2,243

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for Kansas were 3.45 million acres.

Corn: Agricultural Chemical Applications,
Kentucky, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
: Applied : cations : Application : Crop Year : Applied	
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
2,4-D	: 11 1.0 0.45 0.45 64
Acetochlor	: 3 1.0 1.23 1.23 44
Alachlor	: 4 1.0 1.98 1.98 106
Atrazine	: 75 1.1 1.15 1.35 1,341
Glyphosate	: 7 1.0 0.74 0.74 72
Imazapyr	: 15 1.0 0.002 0.002 **
Imazethapyr	: 15 1.0 0.006 0.006 1
Metolachlor	: 17 1.1 2.26 2.52 946
Paraquat	: 25 1.0 0.51 0.51 166
Primisulfuron	: 4 1.0 0.03 0.03 2
Simazine	: 8 1.0 1.25 1.25 133
S-Metolachlor	: 6 1.0 1.05 1.05 138

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for Kentucky were 1.33 million acres.

Corn: Agricultural Chemical Applications,
Michigan, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 9	1.0	0.44	0.44	83
Acetochlor	: 48	1.0	1.64	1.64	1,721
Atrazine	: 70	1.1	0.96	1.11	1,705
Bromoxynil	: 9	1.0	0.46	0.46	94
Clopyralid	: 10	1.0	0.10	0.10	21
Dicamba	: 17	1.0	0.18	0.18	68
Flumetsulam	: 20	1.0	0.05	0.05	23
Glyphosate	: 15	1.0	0.74	0.74	244
Metolachlor	: 17	1.1	1.32	1.32	277
Nicosulfuron	: 8	1.0	0.02	0.02	4
Pendimethalin	: 18	1.0	0.90	0.90	366
Rimsulfuron	: 5	1.0	0.01	0.01	2
S-Metolachlor	: 10	1.0	1.43	1.43	190

1/ Planted acres in 2000 for Michigan were 2.20 million acres.

Corn: Agricultural Chemical Applications,
Minnesota, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 1	1.0	0.40	0.40	39
Acetochlor	: 41	1.0	1.44	1.44	4,176
Alachlor	: 2	1.0	2.00	2.00	308
Atrazine	: 39	1.0	0.67	0.69	1,930
Bromoxynil	: 3	1.0	0.27	0.27	59
Clopyralid	: 20	1.0	0.09	0.09	135
Dicamba	: 54	1.0	0.22	0.22	856
Dicamba, Dimet. salt	: 4	1.0	0.13	0.13	41
Dicamba, Pot. salt	: 5	1.0	0.30	0.30	106
Di flufenzopyr-sodium	: 4	1.0	0.05	0.05	16
Dimethenamid	: 7	1.0	1.32	1.32	685
Flumetsulam	: 21	1.0	0.03	0.04	51
Glyphosate	: 3	1.1	0.69	0.80	189
Metolachlor	: 2	1.0	2.85	2.89	393
Nicosulfuron	: 35	1.0	0.01	0.01	35
Primisulfuron	: 6	1.0	0.02	0.02	10
Rimsulfuron	: 12	1.0	0.01	0.01	10
S-Metolachlor	: 6	1.0	1.51	1.51	606
Insecticides:	:				
Tefluthrin	: 4	1.0	0.10	0.10	26

1/ Planted acres in 2000 for Minnesota were 7.10 million acres.

Corn: Agricultural Chemical Applications,
Missouri, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 5	1.0	0.51	0.51	77
Acetamide	: 4	1.0	0.50	0.50	61
Acetochlor	: 17	1.0	2.48	2.48	1,199
Alachlor	: 3	1.0	1.74	1.74	124
Atrazine	: 76	1.1	1.21	1.40	3,029
Clopyralid	: 4	1.0	0.11	0.11	11
Flumetsulam	: 4	1.0	0.04	0.04	4
Glufosinate-ammonium	: 2	1.0	0.33	0.33	16
Glyphosate	: 6	1.0	0.62	0.62	108
Imazapyr	: 6	1.0	0.002	0.002	**
Imazethapyr	: 6	1.0	0.006	0.006	1
Metolachlor	: 13	1.1	1.39	1.57	582
Metribuzin	: 4	1.0	0.13	0.13	15
Nicosulfuron	: 17	1.0	0.01	0.01	7
Primisulfuron	: 4	1.0	0.02	0.02	3
Prosulfuron	: 1	1.0	0.007	0.007	**
Rimsulfuron	: 16	1.0	0.009	0.01	5
S-Metolachlor	: 12	1.0	1.30	1.30	446
Simazine	: 4	1.0	0.69	0.69	77
Insecticides:	:				
Chlorpyrifos	: 4	1.0	0.68	0.68	79
Lambda-cyhalothrin	: 4	1.0	0.02	0.02	2
Permethrin	: 12	1.0	0.08	0.08	28

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for Missouri were 2.85 million acres.

Corn: Agricultural Chemical Applications,
Nebraska, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year : Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
2,4-D	: 4 1.0 0.42 0.43 165
Acetamide	: 5 1.0 0.64 0.66 259
Acetochlor	: 17 1.0 1.59 1.59 2,346
Alachlor	: 5 1.0 1.71 1.71 668
Atrazine	: 80 1.0 1.06 1.11 7,497
Clopyralid	: 8 1.0 0.12 0.12 78
Cyanazine	: 2 1.0 1.08 1.08 158
Dicamba	: 16 1.0 0.17 0.17 239
Dicamba, Dimet salt	: 3 1.0 0.41 0.41 96
Dicamba, Pot. salt	: 2 1.0 0.35 0.35 51
Di flufenzopyr-sodium	: 3 1.0 0.16 0.16 38
Dimethenamid	: 5 1.0 1.03 1.03 443
Flumetsulam	: 8 1.0 0.04 0.04 29
Glyphosate	: 3 1.1 0.62 0.72 182
Halosulfuron	: 3 1.0 0.03 0.03 6
Imazapyr	: 2 1.0 0.002 0.002 **
Imazethapyr	: 6 1.0 0.02 0.02 12
Isoxaflutole	: 3 1.0 0.06 0.06 14
Metolachlor	: 13 1.0 1.32 1.32 1,469
Metribuzin	: 5 1.0 0.16 0.16 64
Nicosulfuron	: 12 1.0 0.03 0.03 28
Primisulfuron	: 10 1.0 0.02 0.02 17
Prosulfuron	: 7 1.0 0.008 0.008 5
Rimsulfuron	: 8 1.0 0.01 0.01 9
S-Metolachlor	: 32 1.0 1.04 1.04 2,790
Thifensulfuron	: * 1.0 0.008 0.008 **
Insecticides:	:
Chlorpyrifos	: 4 1.0 0.78 0.78 246
Cyfluthrin	: 5 1.0 0.007 0.007 3
Fipronil	: 21 1.0 0.10 0.10 178
Methyl parathion	: 3 1.0 0.37 0.37 84
Permethrin	: 4 1.0 0.06 0.06 17
Tebupirimphos	: 5 1.0 0.14 0.14 57
Tefluthrin	: 12 1.0 0.09 0.09 95
Terbufos	: 7 1.0 1.13 1.13 675

* Area applied is less than one percent.

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for Nebraska were 8.50 million acres.

Corn: Agricultural Chemical Applications,
New York, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year : Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
Alachlor	: 16 1.0 2.25 2.25 362
Atrazine	: 81 1.0 1.09 1.10 867
Dicamba	: 14 1.0 0.39 0.42 58
Flumetsulam	: 25 1.0 0.04 0.04 11
Glyphosate	: 2 1.0 0.91 0.91 20
Metolachlor	: 25 1.0 1.95 1.95 484
Nicosulfuron	: 13 1.0 0.02 0.02 2
Pendimethalin	: 25 1.0 1.31 1.31 325
Rimsulfuron	: 11 1.0 0.01 0.01 3
S-Metolachlor	: 8 1.0 1.43 1.43 108
Insecticides:	:
Chlorpyrifos	: 17 1.0 1.02 1.02 173

1/ Planted acres in 2000 for New York were 980,000 acres.

Corn: Agricultural Chemical Applications,
North Carolina, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year : Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
2,4-D	: 5 1.0 0.39 0.39 14
Alachlor	: 12 1.0 1.86 1.86 167
Ametryn	: 14 1.0 1.11 1.11 114
Atrazine	: 79 1.0 1.29 1.29 737
Glyphosate	: 30 1.0 0.53 0.53 115
Metolachlor	: 33 1.0 1.42 1.42 345
Paraquat	: 15 1.0 0.45 0.45 49
S-Metolachlor	: 13 1.0 1.11 1.11 109
Simazine	: 2 1.0 1.12 1.12 20
Insecticides:	:
Terbufos	: 38 1.0 1.14 1.14 318

1/ Planted acres in 2000 for North Carolina were 730,000 acres.

Corn: Agricultural Chemical Applications,
North Dakota, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year: Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
2,4-D	: 4 1.0 0.35 0.35 16
Acetochlor	: 20 1.0 1.08 1.14 250
Atrazine	: 13 1.0 0.35 0.35 48
Bromoxynil	: 8 1.0 0.29 0.29 25
Clopyralid	: 6 1.0 0.11 0.11 7
Dicamba	: 20 1.0 0.19 0.19 41
Dicamba, Dimet. salt	: 9 1.0 0.16 0.16 16
Di flufenzopyr-sodium	: 9 1.0 0.06 0.06 6
EPTC	: 16 1.0 3.55 3.77 663
Flumetsulam	: 5 1.0 0.04 0.04 2
Glyphosate	: 4 1.0 0.45 0.48 20
Nicosulfuron	: 32 1.0 0.02 0.03 9
Rimsulfuron	: 9 1.0 0.01 0.01 1

1/ Planted acres in 2000 for North Dakota were 1.08 million acres.

Corn: Agricultural Chemical Applications,
Ohio, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year: Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
2,4-D	: 17 1.0 0.42 0.42 251
Acetochlor	: 30 1.0 2.22 2.22 2,368
Alachlor	: 8 1.0 1.48 1.48 403
Atrazine	: 82 1.0 1.28 1.28 3,721
Clopyralid	: 4 1.0 0.09 0.09 11
Cyanazine	: 1 1.0 1.25 1.25 57
Dicamba	: 7 1.0 0.31 0.31 71
Dicamba, Dimet. salt	: 6 1.0 0.13 0.13 26
Di flufenzopyr-sodium	: 6 1.0 0.05 0.05 10
Dimethenamid	: 9 1.0 1.34 1.34 414
Flumetsulam	: 5 1.0 0.04 0.04 7
Glyphosate	: 22 1.0 0.57 0.59 467
Isoxaflutole	: 9 1.0 0.08 0.08 24
Metolachlor	: 14 1.0 1.33 1.33 677
Nicosulfuron	: 5 1.0 0.03 0.03 4
Pendimethalin	: * 1.0 0.86 0.86 18
Primisulfuron	: 2 1.0 0.01 0.01 1
S-Metolachlor	: 18 1.0 1.03 1.03 659
Simazine	: 18 1.0 1.60 1.60 999
Insecticides:	:
Chlorpyrifos	: 13 1.0 1.15 1.15 544

* Area applied is less than one percent.

1/ Planted acres in 2000 for Ohio were 3.55 million acres.

Corn: Agricultural Chemical Applications,
Pennsylvania, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 6	1.0	0.48	0.48	46
Acetochlor	: 18	1.0	1.96	1.96	551
Atrazine	: 87	1.0	1.10	1.10	1,484
Dicamba	: 27	1.0	0.15	0.15	62
Glyphosate	: 11	1.0	0.89	0.95	166
Metolachlor	: 21	1.0	1.80	1.81	601
Nicosulfuron	: 22	1.0	0.02	0.02	6
Pendimethalin	: 46	1.0	1.21	1.21	859
Rimsulfuron	: 20	1.0	0.01	0.01	4
S-Metolachlor	: 15	1.0	1.18	1.18	282
Thifensulfuron	: 5	1.0	0.008	0.008	1
Insecticides:	:				
Chlorpyrifos	: 7	1.0	1.10	1.10	126
Permethrin	: 2	1.0	0.13	0.13	4
Tefluthrin	: 29	1.0	0.10	0.10	46

1/ Planted acres in 2000 for Pennsylvania were 1.55 million acres.

Corn: Agricultural Chemical Applications,
South Dakota, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 2	1.1	0.76	0.86	89
Acetochlor	: 34	1.0	0.98	1.03	1,507
Atrazine	: 42	1.0	0.54	0.59	1,062
Bromoxynil	: 7	1.0	0.23	0.23	70
Clopyralid	: 12	1.0	0.07	0.07	36
Dicamba	: 30	1.0	0.28	0.28	363
EPTC	: 6	1.0	2.93	3.10	797
Flumetsulam	: 12	1.0	0.02	0.02	13
Glyphosate	: 16	1.6	0.63	1.06	748
Imazapyr	: 4	1.0	0.002	0.002	**
Imazethapyr	: 4	1.0	0.007	0.007	1
Isoxaflutole	: 4	1.0	0.07	0.07	12
Metolachlor	: 5	1.0	0.21	0.21	47
Nicosulfuron	: 21	1.0	0.01	0.01	12
Primisulfuron	: 8	1.0	0.02	0.02	6
Rimsulfuron	: 13	1.0	0.008	0.008	5

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for South Dakota were 4.30 million acres.

Corn: Agricultural Chemical Applications,
Texas, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Atrazine	: 70	1.0	0.70	0.76	1,106
Dicamba	: 6	1.0	0.16	0.16	19
Dimethenamid	: 6	1.0	0.69	0.69	80
Glyphosate	: 6	1.2	0.70	0.90	116
Nicosulfuron	: 11	1.0	0.02	0.02	4
Pendimethalin	: 5	1.3	0.37	0.49	55
Primisulfuron	: 11	1.0	0.02	0.02	5
Prosulfuron	: 12	1.0	0.01	0.01	3
Rimsulfuron	: 5	1.0	0.04	0.04	4
S-Metolachlor	: 16	1.0	0.92	0.92	302
Insecticides:	:				
Bifenthrin	: 19	1.0	0.08	0.08	31
Chlorpyrifos	: 4	1.0	0.76	0.76	66
Cyfluthrin	: 8	1.0	0.004	0.004	1
Dimethoate	: 5	1.0	0.43	0.43	42
Permethrin	: 10	1.0	0.07	0.07	15
Tebupirimphos	: 8	1.0	0.08	0.08	13
Tefluthrin	: 8	1.0	0.09	0.09	15
Terbufos	: 12	1.0	0.82	0.82	208

1/ Planted acres in 2000 for Texas were 2.10 million acres.

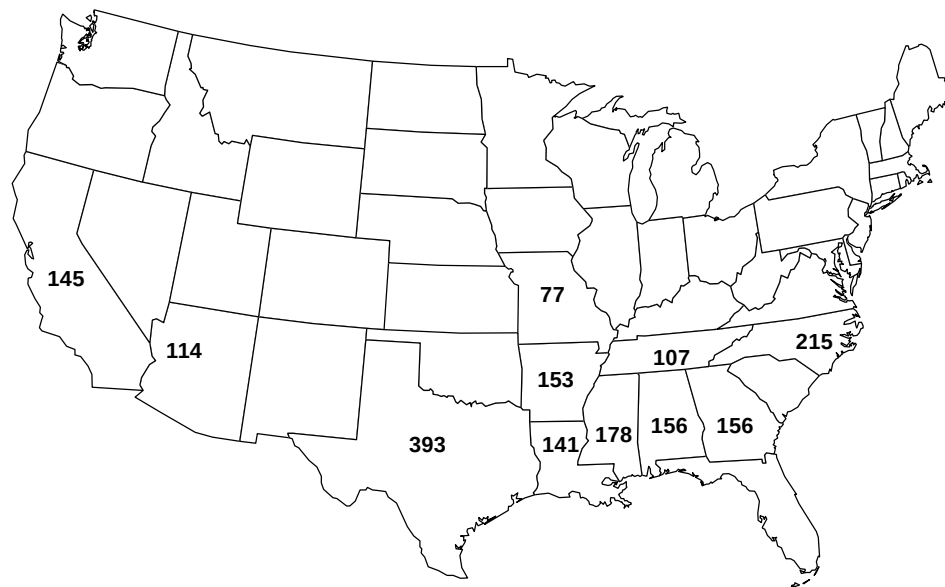
Corn: Agricultural Chemical Applications,
Wisconsin, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year : Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
Acetochlor	: 26 1.0 1.87 1.88 1,694
Alachlor	: 16 1.0 2.10 2.10 1,150
Atrazine	: 52 1.0 0.79 0.79 1,424
Clopyralid	: 31 1.0 0.09 0.09 99
Cyanazine	: 2 1.0 1.19 1.19 80
Dicamba	: 18 1.0 0.18 0.18 111
Dicamba, Dimet. salt	: 2 1.0 0.15 0.15 12
Dicamba, Pot. salt	: 18 1.0 0.41 0.41 259
Dimethenamid	: 5 1.0 0.65 0.65 106
Flumetsulam	: 36 1.0 0.05 0.05 61
Glyphosate	: 6 1.0 1.09 1.09 221
Metolachlor	: 5 1.0 1.85 1.85 325
Nicosulfuron	: 24 1.0 0.02 0.02 14
Pendimethalin	: 4 1.0 1.22 1.22 159
Primisulfuron	: 5 1.0 0.02 0.02 4
Rimsulfuron	: 14 1.0 0.007 0.007 3
S-Metolachlor	: 15 1.0 1.18 1.19 618
Insecticides:	:
Carbofuran	: 3 1.0 1.00 1.00 105
Chlorpyrifos	: 6 1.0 1.00 1.00 219
Cyfluthrin	: 1 1.0 0.006 0.006 **
Tebupirimphos	: 1 1.0 0.13 0.13 6
Tefluthrin	: 7 1.0 0.11 0.11 25

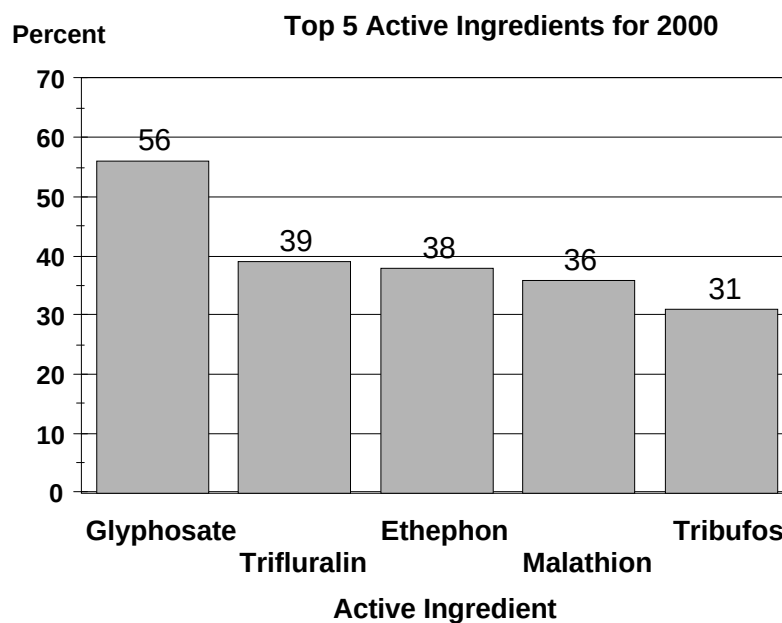
** Total applied is less than 1,000 pounds.

1/ Planted acres in 2000 for Wisconsin were 3.50 million acres.

Upland Cotton: Number of Usable Reports, 2000



Upland Cotton - Percent of Acres Treated



Surveyed states: AL, AR, AZ, CA, GA, LA, MS, MO, NC, TN and TX

Upland Cotton: Fertilizer Use by State, 2000
Percent of Acres Treated and Total Amount Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied					
		Nitrogen		: Phosphate		: Potash	
	1,000 Acres	Percent	Mil. Lbs	Percent	Mil. Lbs	Percent	Mil. Lbs
AL	590	100	60.5	95	35.2	91	46.7
AZ	280	98	35.6	30	4.7	8	0.9
AR	960	100	84.2	78	30.5	84	66.1
CA	775	98	105.4	29	12.6	12	5.3
GA	1,500	96	124.9	94	77.6	93	117.7
LA	710	100	60.7	64	20.1	66	33.0
MS	1,300	100	147.7	44	29.5	68	86.1
MO	400	100	40.4	86	11.7	95	33.5
NC	930	96	76.0	80	34.9	91	98.5
TN	570	99	47.5	93	29.8	98	50.4
TX	6,400	63	263.4	54	136.9	26	31.1
Total	14,415	83	1,046.3	63	423.5	53	569.3

Upland Cotton: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000

Primary Nutrient	Planted Acreage	Area Applied	Appli- cations	Rate per Application	Rate per Crop Year	Total Applied
	1,000 Acres	Percent	Number	Pounds per Acre		Mil. Lbs
Alabama:	590					
Nitrogen		100	1.5	67	103	60.5
Phosphate		95	1.0	58	63	35.2
Potash		91	1.1	78	87	46.7
Arizona:	280					
Nitrogen		98	2.1	59	129	35.6
Phosphate		30	1.1	50	57	4.7
Potash		8	1.1	34	39	0.9
Arkansas:	960					
Nitrogen		100	1.4	61	88	84.2
Phosphate		78	1.0	39	41	30.5
Potash		84	1.0	80	82	66.1
California:	775					
Nitrogen		98	1.9	71	139	105.4
Phosphate		29	1.2	46	57	12.6
Potash		12	1.1	51	58	5.3
Georgia:	1,500					
Nitrogen		96	1.9	44	87	124.9
Phosphate		94	1.1	47	55	77.6
Potash		93	1.1	73	84	117.7

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Upland Cotton: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000 (continued)

Primary Nutrient	: Planted : : Acreage :	Area : : Applied :	Appli- : : cations :	Rate per : : Application :	Rate per : : Crop Year :	Total : : Applied
	: 1,000 : Acres	Percent	Number	Pounds per Acre		Mil. Lbs
Louisiana:	: 710					
Nitrogen	: 100	1.1	77	86	60.7	
Phosphate	: 64	1.0	44	44	20.1	
Potash	: 66	1.0	70	70	33.0	
Mississippi:	: 1,300					
Nitrogen	: 100	1.5	72	114	147.7	
Phosphate	: 44	1.0	50	52	29.5	
Potash	: 68	1.0	92	97	86.1	
Missouri:	: 400					
Nitrogen	: 100	1.6	62	101	40.4	
Phosphate	: 86	1.0	33	34	11.7	
Potash	: 95	1.0	86	88	33.5	
North Carolina:	: 930					
Nitrogen	: 96	1.9	43	85	76.0	
Phosphate	: 80	1.1	41	47	34.9	
Potash	: 91	1.2	93	116	98.5	
Tennessee:	: 570					
Nitrogen	: 99	1.2	70	84	47.5	
Phosphate	: 93	1.0	56	56	29.8	
Potash	: 98	1.1	82	90	50.4	
Texas:	: 6,400					
Nitrogen	: 63	1.3	48	65	263.4	
Phosphate	: 54	1.0	38	40	136.9	
Potash	: 26	1.0	18	19	31.1	
Total:	: 14,415					
Nitrogen	: 83	1.5	56	88	1,046.3	
Phosphate	: 63	1.0	43	46	423.5	
Potash	: 53	1.0	68	74	569.3	

Upland Cotton: Active Ingredients Applied and Publication Status
By States Surveyed, 2000

	States Surveyed												
Active Ingredient	ALL	:	AL	:	AR	:	AZ	:	CA	:	GA	:	LA
Herbicides	:	:	:	:	:	:	:	:	:	:	:	:	:
2,4-D	P	:	*	:	:	:	:	:	:	:	:	:	*
Alachlor	*	:	:	:	:	:	:	:	:	:	:	:	*
Bromoxynil	P	:	*	:	P	:	*	:	P	:	:	:	*
Clethodim	P	:	*	:	P	:	*	:	:	:	*	:	P
Clomazone	P	:	*	:	*	:	:	:	:	:	*	:	*
Cyanazine	P	:	P	:	P	:	P	:	*	:	P	:	P
Dicamba	*	:	:	:	:	:	:	:	:	:	:	:	:
DSMA	P	:	*	:	*	:	:	:	:	:	P	:	*
Diuron	P	:	P	:	P	:	P	:	P	:	P	:	P
Ethalfuralin	*	:	*	:	:	:	:	:	:	:	*	:	:
Fenoxaprop-P-ethyl	P	:	:	:	:	:	:	:	:	:	:	:	*
Fluazifop-P-butyl	P	:	:	:	P	:	*	:	P	:	:	:	P
Fluometuron	P	:	P	:	P	:	P	:	:	:	P	:	P
Fomesafen	*	:	*	:	:	:	:	:	:	:	*	:	:
Glyphosate	P	:	P	:	P	:	P	:	P	:	P	:	P
Lactofen	P	:	:	:	*	:	:	:	:	:	:	:	*
Linuron	P	:	*	:	*	:	:	:	:	:	:	:	*
MSMA	P	:	P	:	P	:	*	:	*	:	P	:	P
Metolachlor	P	:	:	:	P	:	*	:	P	:	:	:	P
Norflurazon	P	:	P	:	P	:	*	:	:	:	*	:	P
Oxyfluorfen	P	:	:	:	*	:	:	:	P	:	:	:	:
Pendimethalin	P	:	P	:	P	:	P	:	P	:	P	:	P
Prometryn	P	:	P	:	P	:	P	:	P	:	*	:	P
Pyridate	P	:	*	:	:	:	:	:	:	:	:	:	:
Pyriithiobac-sodium	P	:	P	:	P	:	P	:	P	:	P	:	P
Quizalofop-ethyl	P	:	:	:	*	:	:	:	:	:	:	:	*
S-Metolachlor	P	:	:	:	*	:	:	:	*	:	:	:	*
Sethoxydim	P	:	:	:	:	:	:	:	:	:	*	:	*
Sulfosate	*	:	:	:	:	:	:	:	:	:	:	:	:
Thifensulfuron	*	:	:	:	*	:	:	:	:	:	:	:	*
Tribenuron-methyl	*	:	:	:	*	:	:	:	:	:	:	:	:
Trifluralin	P	:	P	:	P	:	P	:	P	:	P	:	P

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P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Upland Cotton: Active Ingredients Applied and Publication Status
By States Surveyed, 2000

Active Ingredient	States Surveyed				
	MO	MS	NC	TN	TX
Herbicides	:	:	:	:	:
2,4-D	*	P	P		P
Alachlor	:	:	:	:	:
Bromoxynil	P	P	P	*	*
Clethodim	*	P	P	*	P
Clomazone	P	P	*	P	*
Cyanazine	P	P	P	P	*
Dicamba	*		*		
DSMA	:	*	*	*	
Diuron	*	P	*	P	P
Ethalfluralin	:	:	:	:	:
Fenoxaprop-P-ethyl	:			*	*
Fluazifop-P-butyl	*	*		*	P
Fluometuron	P	P	P	P	P
Fomesafen	:	:	:	:	:
Glyphosate	P	P	P	P	P
Lactofen	:	P			
Linuron	*	*			
MSMA	P	P	P	P	P
Metolachlor	P	P	*	*	*
Norflurazon	P	P	P		*
Oxyfluorfen	:	*			
Pendimethalin	P	P	P	P	P
Prometryn	P	P	P	*	P
Pyridate	*				P
Pyriithiobac-sodium	P	P	P	P	P
Quizalofop-ethyl	*		*		
S-Metolachlor	*		*		*
Sethoxydim	*	*			*
Sulfosate	*	*	*		
Thifensulfuron	:		*		
Tribenuron-methyl	:	:	:	:	:
Trifluralin	P	P	P	P	P

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- P Usage data are published for this active ingredient.
 * Usage data are not published for this active ingredient.

Upland Cotton: Active Ingredients Applied and Publication Status
By States Surveyed, 2000

Active Ingredient	States Surveyed						
	ALL	: AL	: AR	: AZ	: CA	: GA	: LA
Insecticides	:	:	:	:	:	:	:
Abamectin	:	*	:	:	*	*	:
Acephate	:	P	:	P	P	P	P
Aldicarb	:	P	:	P	*	P	P
Amitraz	:	P	:	:	*	*	*
Azadirachtin	:	*	:	:	:	:	:
Azinphos-methyl	:	P	:	*	*	:	:
Bt(Bacillus thur.)	:	P	:	*	*	P	*
Benzoic Acid	:	*	:	:	:	:	*
Bifenthrin	:	P	:	*	*	P	*
Buprofezin	:	*	:	:	*	*	:
Carbaryl	:	*	:	:	:	:	:
Carbofuran	:	P	:	*	:	P	P
Chlorpyrifos	:	P	:	*	P	*	*
Cyfluthrin	:	P	:	P	*	*	P
Cypermethrin	:	P	:	P	P	*	P
Deltamethrin	:	P	:	:	*	*	*
Dicofol	:	P	:	*	*	P	:
Dicrotophos	:	P	:	P	:	*	P
Diiflubenzuron	:	P	:	:	*	*	:
Dimethoate	:	P	:	*	*	*	P
Disulfoton	:	P	:	P	*	*	*
Emamectin benzoate	:	P	:	:	:	:	*
Endosulfan	:	P	:	:	P	*	*
Esfenvalerate	:	P	:	P	*	*	:
Ethyl parathion	:	*	:	:	:	*	:
Fenpropathrin	:	*	:	:	*	*	:
Fenvalerate	:	*	:	:	:	:	:
Imidacloprid	:	P	:	*	P	*	P
Indoxacarb	:	P	:	:	:	:	:
Lambda-cyhalothrin	:	P	:	*	P	*	P
Malathion	:	P	:	P	*	*	P
Methamidophos	:	P	:	P	:	:	P
Methidathion	:	*	:	:	:	:	:
Methomyl	:	P	:	:	P	*	:
Methyl parathion	:	P	:	*	*	*	P
Naled	:	P	:	:	P	:	:
Oxamyl	:	P	:	*	P	*	*
Permethrin	:	P	:	:	:	*	*
Petroleum distillate	:	*	:	:	*	*	:
Phorate	:	P	:	P	*	P	P
Phosphamidon	:	*	:	:	*	*	:
Profenofos	:	P	:	*	*	*	P
Propargite	:	P	:	:	*	*	*
Pyriproxyfen	:	P	:	:	P	*	:
Spinosad	:	P	:	P	:	*	P
Sulfur	:	P	:	:	*	*	:
Sulprofos	:	*	:	:	:	:	:
Tebufenozide	:	P	:	:	P	:	:
Thiodicarb	:	P	:	*	*	:	*
Tralomethrin	:	P	:	*	:	P	*
Zeta-cypermethrin	:	P	:	*	*	*	P

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Upland Cotton: Active Ingredients Applied and Publication Status
By States Surveyed, 2000

Active Ingredient	States Surveyed				
	MO	MS	NC	TN	TX
Insecticides	:	:	:	:	:
Abamectin	:	:	:	:	:
Acephate	:	P	P	P	P
Aldicarb	:	P	P	*	P
Amitraz	:	*	*		
Azadirachtin	:		*		
Azinphos-methyl	:	*	*	*	P
Bt(Bacillus thur.)	:		*	*	P
Benzoic Acid	:				*
Bifenthrin	:	P	*	*	*
Buprofezin	:				
Carbaryl	:		*		
Carbofuran	:	*	P		P
Chlorpyrifos	:	*		*	P
Cyfluthrin	:	P	P	P	P
Cypermethrin	:	P	P	P	P
Deltamethrin	:	*	P		P
Dicofol	:			*	*
Dicrotophos	:	*	P	*	P
Diiflubenzuron	:		*		*
Dimethoate	:	*	*	*	*
Disulfoton	:	*	P	*	*
Emamectin benzoate	:		*		P
Endosulfan	:				P
Esfenvalerate	:	*			P
Ethyl parathion	:				*
Fenpropathrin	:				
Fenvalerate	:		*		
Imidacloprid	:	P	*	*	P
Indoxacarb	:				P
Lambda-cyhalothrin	:	P	P	P	P
Malathion	:	*	P	P	P
Methamidophos	:		*	*	
Methidathion	:			*	
Methomyl	:		*	*	*
Methyl parathion	:	P	*	P	P
Naled	:				
Oxamyl	:	P	P	P	P
Permethrin	:	*	*	*	*
Petroleum distillate	:				*
Phorate	:	*	*	*	P
Phosphamidon	:				
Profenofos	:	P	P	*	
Propargite	:				
Pyriproxyfen	:				
Spinosad	:		P	*	P
Sulfur	:		*		
Sulprofos	:		*		
Tebufenozide	:				P
Thiodicarb	:		*		*
Tralomethrin	:		*		*
Zeta-cypermethrin	:	P	*	P	P

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Upland Cotton: Active Ingredients Applied and Publication Status
By States Surveyed, 2000

	States Surveyed												
Active Ingredient	ALL	:	AL	:	AR	:	AZ	:	CA	:	GA	:	LA
Fungicides	:	:	:	:	:	:	:	:	:	:	:	:	:
Carboxin	P	:	:	:	:	:	:	:	:	:	:	:	:
Chlorothalonil	*	:	:	:	:	:	:	:	:	:	:	:	:
Etridiazole	P	:	P	:	*	:	*	:	*	:	:	:	P
Fenarimol	*	:	:	:	*	:	:	:	:	:	:	:	*
Iprodione	*	:	:	:	*	:	*	:	:	:	:	:	*
Mancozeb	*	:	:	:	:	:	*	:	:	:	:	:	:
Mefenoxam	P	:	P	:	P	:	:	:	:	:	:	:	P
Metalaxyl	P	:	:	:	*	:	:	:	:	:	:	:	*
PCNB	P	:	P	:	P	:	*	:	*	:	:	:	*
Other Chemicals	:	:	:	:	:	:	:	:	:	:	:	:	:
Bacillus cereus	P	:	P	:	P	:	P	:	P	:	P	:	P
Cacodylic acid	P	:	:	:	:	:	*	:	P	:	:	:	:
Chloropicrin	*	:	:	:	:	:	*	:	:	:	*	:	:
Cyclanilide	P	:	P	:	P	:	:	:	P	:	P	:	P
Cytokinins	P	:	:	:	*	:	*	:	:	:	:	:	:
Dichloropropene	P	:	*	:	:	:	*	:	:	:	*	:	:
Dimethipin	P	:	*	:	*	:	:	:	*	:	P	:	*
Endothall	P	:	*	:	*	:	*	:	P	:	:	:	:
Ethephon	P	:	P	:	P	:	P	:	P	:	P	:	P
Gibberellic acid	P	:	:	:	*	:	:	:	:	:	:	:	P
Gossyplure	*	:	:	:	:	:	*	:	:	:	:	:	:
Hexadecadien(Z,Z)	*	:	:	:	:	:	*	:	:	:	:	:	:
Indole-3-butyric acid	P	:	:	:	*	:	:	:	:	:	:	:	P
Mepiquat chloride	P	:	P	:	P	:	P	:	P	:	P	:	P
Metam-sodium	*	:	:	:	:	:	:	:	*	:	:	:	:
Methyl bromide	*	:	:	:	:	:	*	:	:	:	:	:	:
Monocarbamide dihyd.	P	:	:	:	P	:	P	:	P	:	P	:	P
Paraquat	P	:	P	:	*	:	P	:	P	:	P	:	*
Potassium gibberella	*	:	:	:	:	:	:	:	:	:	:	:	:
Sodium chlorate	P	:	*	:	P	:	P	:	P	:	*	:	P
Thidiazuron	P	:	P	:	P	:	P	:	P	:	P	:	P
Tribufos	P	:	P	:	P	:	*	:	P	:	P	:	P

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P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Upland Cotton: Active Ingredients Applied and Publication Status
By States Surveyed, 2000

Active Ingredient	States Surveyed				
	MO	MS	NC	TN	TX
Fungicides	:				
Carboxin	:	*	*		
Chlorothalonil	:	*			
Etridiazole	:	P	*	P	*
Fenarimol	:	*			
Iprodione	:	*			
Mancozeb	:				
Mefenoxam	:	P	P	P	
Metalaxyl	:	P	*		
PCNB	:	P	P	P	*
Other Chemicals	:				
Bacillus cereus	:	*	P	P	P
Cacodylic acid	:		*	*	*
Chloropicrin	:				
Cyclanilide	:	P	P	P	P
Cytokinins	:	*	*	*	*
Dichloropropene	:				
Dimethipin	:	P	*	P	*
Endothall	:	*	*		*
Ethephon	:	P	P	P	P
Gibberellic acid	:	*	P	*	P
Gossypure	:				
Hexadecadien(Z,Z)	:				
Indole-3-butyric acid	:	*	P	*	P
Mepiquat chloride	:	P	P	P	P
Metam-sodium	:				
Methyl bromide	:				
Monocarbamide dihyd.	:	*	*	P	P
Paraquat	:	P	P	P	P
Potassium gibberella	:		*	*	*
Sodium chlorate	:	*	P	P	P
Thidiazuron	:	P	P	P	P
Tribufos	:	P	P	P	*

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Upland Cotton: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
States Surveyed and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide	:Insecticide 1/	Fungicide 3/	: Other Chemicals4/				
	: 1,000 : Acres	Percent 1,000 Lbs	Percent 1,000 Lbs	Percent 1,000 Lbs	Percent 1,000 Lbs	Percent 1,000 Lbs	Percent 1,000 Lbs	Percent 1,000 Lbs	Percent 1,000 Lbs
AL	: 590	97	1,435	67	270	16	84	58	398
AZ	: 280	94	497	66	455	10	31	79	670
AR	: 960	95	1,993	82	1,610	17	57	89	1,459
CA	: 775	99	1,475	90	1,051	1	9	99	2,714
GA	: 1,500	98	3,526	81	725			78	3,258
LA	: 710	96	1,825	98	4,795	23	229	88	749
MS	: 1,300	98	3,557	99	6,112	15	131	99	1,986
MO 2/	: 400	94	677	90	360			97	695
NC	: 930	99	2,375	94	510	4	19	91	1,921
TN	: 570	99	1,347	100	4,333	20	77	93	691
TX 2/	: 6,400	92	7,847	69	20,639			29	1,593
Total:	14,415	95	26,554	80	40,860	6	641	61	16,134

- 1/ Total Applied excludes Bt's (*Bacillus thuringiensis*). Quantities are not available because amounts of active ingredient are not comparable between products.
- 2/ Insufficient reports to publish data for one or more of the pesticide classes.
- 3/ Insufficient reports to publish data for one or more of the States surveyed.
- 4/ Total applied excludes *Bacillus Cereus*. Total quantities are not calculated, because amounts of active ingredient are not comparable between products.

Upland Cotton: Agricultural Chemical Applications,
States Surveyed, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
Herbicides:	:				
2,4-D	: 1	1.0	0.83	0.85	171
Bromoxynil	: 6	1.5	0.37	0.58	498
Clethodim	: 3	1.1	0.15	0.17	64
Clomazone	: 2	1.0	0.43	0.43	95
Cyanazine	: 10	1.1	0.69	0.76	1,091
DSMA	: 1	1.0	1.69	1.74	334
Diuron	: 20	1.1	0.34	0.40	1,138
Fenoxaprop-P-ethyl	: *	1.2	0.10	0.13	2
Fluazifop-P-butyl	: *	1.2	0.22	0.27	28
Fluometuron	: 20	1.1	0.61	0.70	1,976
Glyphosate	: 56	1.7	0.67	1.18	9,529
Lactofen	: *	1.0	0.10	0.11	9
Linuron	: *	1.0	0.46	0.49	17
MSMA	: 14	1.2	0.95	1.21	2,402
Metolachlor	: 2	1.0	0.92	0.92	253
Norflurazon	: 4	1.0	0.58	0.59	343
Oxyfluorfen	: *	1.3	0.30	0.41	58
Pendimethalin	: 22	1.0	0.73	0.77	2,488
Prometryn	: 14	1.1	0.61	0.70	1,363
Pyridate	: *	1.0	0.22	0.22	25
Pyrithiobac-sodium	: 14	1.1	0.04	0.05	105
Quizalofop-ethyl	: *	1.0	0.05	0.05	1
S-Metolachlor	: *	1.0	0.52	0.53	73
Sethoxydim	: *	1.1	0.14	0.15	16
Trifluralin	: 39	1.0	0.74	0.77	4,399
Insecticides:	:				
Abamectin	: 3	1.0	0.007	0.007	3
Acephate	: 12	1.5	0.50	0.76	1,288
Aldicarb	: 26	1.0	0.63	0.65	2,483
Amitraz	: *	1.2	0.29	0.37	23
Azinphos-methyl	: 2	1.7	0.26	0.44	143
Bt(Bacillus thur.)2/	: 1	1.6			
Bifenthrin	: 2	1.2	0.06	0.07	19
Buprofezin	: *	1.0	0.33	0.33	9
Carbofuran	: 5	1.0	0.24	0.25	172
Chlorpyrifos	: 5	1.5	0.63	1.01	659
Cyfluthrin	: 8	1.3	0.08	0.11	122
Cypermethrin	: 8	1.1	0.06	0.07	79
Deltamethrin	: 2	1.5	0.09	0.14	35
Dicofol	: 1	1.0	0.94	0.95	192
Dicrotophos	: 8	1.4	0.22	0.32	364
Diqlubenzuron	: *	1.0	0.14	0.14	3
Dimethoate	: 2	1.1	0.25	0.28	73
Disulfoton	: 1	1.0	0.76	0.76	141
Emamectin benzoate	: 2	1.2	0.008	0.01	2
Endosulfan	: 2	1.4	0.63	0.90	215
Esfenvalerate	: *	1.0	0.04	0.04	5
Fenpropathrin	: *	1.1	0.18	0.20	14
Imidacloprid	: 3	1.1	0.03	0.04	17
Indoxacarb	: 3	1.0	0.10	0.10	45
Lambda-cyhalothrin	: 9	1.5	0.02	0.03	46
Malathion	: 36	6.9	0.89	6.17	31,923

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Upland Cotton: Agricultural Chemical Applications,
States Surveyed, 2000 (continued) 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total :Applied
	: Percent	: Number	: Pounds per Acre		: 1,000 lbs
Insecticides: (cont.)	:				
Methamidophos	: 2	1.0	0.34	0.35	84
Methomyl	: 1	1.0	0.24	0.25	46
Methyl parathion	: 5	2.1	0.58	1.25	815
Naled	: *	1.0	0.94	0.94	50
Oxamyl	: 11	1.8	0.25	0.47	722
Permethrin	: *	1.0	0.04	0.05	1
Phorate	: 5	1.0	0.63	0.63	439
Profenofos	: 1	1.2	0.48	0.62	124
Propargite	: *	1.1	1.21	1.36	59
Pyriproxyfen	: *	1.0	0.05	0.05	3
Spinosad	: 5	1.9	0.07	0.13	90
Sulfur	: *	1.0	1.19	1.25	38
Tebufozide	: 2	1.0	0.14	0.14	31
Thiodicarb	: *	1.3	0.22	0.29	11
Tralomethrin	: 2	1.1	0.02	0.03	6
Zeta-cypermethrin	: 3	1.5	0.03	0.05	20
Fungicides:	:				
Carboxin	: *	1.0	0.008	0.008	**
Etridiazole	: 2	1.0	0.18	0.18	59
Iprodione	: *	1.0	0.15	0.15	11
Mefenoxam	: 2	1.0	0.03	0.03	11
Metalaxyl	: *	1.0	0.06	0.06	6
Pentachloronitrobenz	: 5	1.0	0.72	0.77	528
Other Chemicals:	:				
Bacillus cereus 2/	: 13	1.4			
Cacodylic acid	: 1	1.0	0.70	0.72	108
Cyclanilide	: 12	1.0	0.11	0.11	191
Cytokinins 3/	: *	1.4			
Dichloropropene	: *	1.0	29.58	29.58	1,280
Dimethipin	: 2	1.1	0.31	0.34	89
Endothall	: *	1.0	0.06	0.06	7
Ethephon	: 38	1.0	0.90	0.97	5,359
Gibberellic acid 3/	: 1	1.5			
Indole-3-butyric 3/	: 2	1.5			
Mepiquat chloride	: 23	1.6	0.03	0.04	147
Monocarbamide dihyd.	: 7	1.0	2.25	2.26	2,371
Paraquat	: 13	1.0	0.29	0.31	601
Sodium chlorate	: 5	1.0	1.99	2.09	1,542
Thidiazuron	: 29	1.0	0.10	0.10	423
Tribufos	: 31	1.0	0.76	0.82	3,647

* Area applied is less than one percent.

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for the 11 states surveyed were 14.4 million acres. States included are AL, AZ, AR, CA, GA, LA, MS, MO, NC, TN and TX.

2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

3/ Rates and total applied are not available because amount of active ingredient is too small.

Upland Cotton: Agricultural Chemical Applications,
Alabama, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Cyanazine	: 8	1.0	0.88	0.88	44
Diuron	: 9	1.0	0.68	0.72	39
Fluometuron	: 35	1.1	0.67	0.75	155
Glyphosate	: 70	1.8	0.73	1.36	563
MSMA	: 22	1.0	1.30	1.36	176
Norflurazon	: 13	1.0	0.58	0.58	43
Pendimethalin	: 35	1.0	0.76	0.81	168
Prometryn	: 12	1.0	0.85	0.89	64
Pyrithiobac-sodium	: 7	1.0	0.03	0.03	1
Trifluralin	: 28	1.0	0.69	0.69	112
Insecticides:	:				
Acephate	: 3	1.0	0.20	0.20	3
Aldicarb	: 40	1.0	0.58	0.60	143
Cypermethrin	: 14	1.1	0.07	0.07	6
Diclotophos	: 13	1.1	0.23	0.26	20
Disulfoton	: 6	1.0	0.84	0.84	31
Phorate	: 10	1.0	0.84	0.84	47
Fungicides:	:				
Etridiazole	: 9	1.0	0.15	0.15	8
Mefenoxam	: 7	1.0	0.06	0.06	2
PCNB	: 15	1.0	0.83	0.83	74
Other Chemicals:	:				
Bacillus cereus 2/	: 10	1.0			
Cyclanilide	: 11	1.0	0.10	0.10	6
Ethephon	: 25	1.1	0.81	0.93	139
Mepiquat chloride	: 13	1.2	0.02	0.03	2
Paraquat	: 6	1.0	0.26	0.26	9
Thidiazuron	: 14	1.0	0.04	0.04	4
Tribufos	: 42	1.0	0.73	0.77	192

1/ Planted acres in 2000 for Alabama were 590,000 acres.

2/ Rates and total applied are not calculated because amounts of active ingredient are not comparable between products.

Upland Cotton: Agricultural Chemical Applications,
Arizona, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Cyanazine	: 13	1.0	0.58	0.58	21
Diuron	: 70	1.2	0.20	0.25	49
Fluometuron	: 3	1.0	0.42	0.43	3
Glyphosate	: 23	1.6	0.77	1.29	84
Pendimethalin	: 25	1.1	0.93	1.03	72
Prometryn	: 45	1.3	0.97	1.28	160
Pyrithiobac-sodium	: 13	1.0	0.07	0.08	3
Trifluralin	: 36	1.0	0.77	0.82	83
	:				
Insecticides:	:				
Acephate	: 46	1.6	0.71	1.17	150
Chlorpyrifos	: 20	2.0	0.59	1.19	67
Cypermethrin	: 9	1.1	0.07	0.08	2
Endosulfan	: 29	1.0	1.14	1.22	98
Lambda-cyhalothrin	: 15	1.6	0.04	0.06	3
Methomyl	: 10	1.0	0.30	0.32	9
Oxamyl	: 10	1.5	0.74	1.13	32
Pyriproxyfen	: 10	1.0	0.05	0.05	1
	:				
Other Chemicals:	:				
Bacillus cereus 2/	: 25	1.1			
Ethephon	: 31	1.0	0.36	0.38	33
Mepiquat chloride	: 27	1.2	0.03	0.03	3
Monocarbamide dihyd.	: 28	1.0	1.08	1.08	84
Paraquat	: 14	1.0	0.32	0.33	13
Sodium chlorate	: 19	1.1	2.66	2.98	155
Thidiazuron	: 68	1.0	0.06	0.06	12

1/ Planted acres in 2000 for Arizona were 280,000 acres.

2/ Rates and total applied are not calculated because amounts of active ingredient are not comparable between products.

Upland Cotton: Agricultural Chemical Applications,
Arkansas, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	: Number	: Pounds per Acre		: 1,000 lbs
Herbicides:	:	:	:	:	:
Bromoxynil	: 36	: 1.6	: 0.31	: 0.52	: 181
Clethodim	: 4	: 1.0	: 0.14	: 0.14	: 6
Cyanazine	: 15	: 1.1	: 0.82	: 0.91	: 133
Diuron	: 12	: 1.0	: 0.53	: 0.54	: 63
Fluazifop-P-butyl	: 2	: 1.0	: 0.09	: 0.09	: 2
Fluometuron	: 43	: 1.1	: 0.53	: 0.60	: 247
Glyphosate	: 39	: 2.1	: 0.52	: 1.12	: 425
MSMA	: 21	: 1.2	: 0.74	: 0.92	: 183
Metolachlor	: 4	: 1.0	: 0.90	: 0.90	: 35
Norflurazon	: 11	: 1.0	: 1.07	: 1.14	: 123
Pendimethalin	: 27	: 1.0	: 0.69	: 0.69	: 176
Prometryn	: 21	: 1.2	: 0.40	: 0.50	: 103
Pyrithiobac-sodium	: 37	: 1.4	: 0.04	: 0.06	: 22
Trifluralin	: 29	: 1.0	: 0.77	: 0.78	: 220
Insecticides:	:	:	:	:	:
Acephate	: 13	: 1.0	: 0.43	: 0.44	: 57
Aldicarb	: 38	: 1.0	: 0.63	: 0.65	: 238
Cyfluthrin	: 20	: 1.5	: 0.04	: 0.06	: 11
Cypermethrin	: 11	: 1.0	: 0.03	: 0.03	: 3
Diclotophos	: 15	: 1.3	: 0.16	: 0.20	: 29
Esfenvalerate	: 3	: 1.0	: 0.03	: 0.03	: 1
Imidacloprid	: 4	: 1.3	: 0.02	: 0.03	: 1
Lambda-cyhalothrin	: 19	: 1.8	: 0.01	: 0.02	: 4
Malathion	: 22	: 5.4	: 0.97	: 5.27	: 1,134
Methamidophos	: 4	: 1.1	: 0.12	: 0.14	: 5
Oxamyl	: 10	: 2.1	: 0.22	: 0.48	: 48
Phorate	: 2	: 1.0	: 0.47	: 0.47	: 11
Spinosad	: 14	: 2.3	: 0.08	: 0.18	: 24
Zeta-cypermethrin	: 10	: 1.4	: 0.04	: 0.06	: 5
Fungicides:	:	:	:	:	:
Mefenoxam	: 12	: 1.0	: 0.03	: 0.03	: 3
PCNB	: 10	: 1.0	: 0.41	: 0.42	: 40
Other Chemicals:	:	:	:	:	:
Bacillus cereus 2/	: 6	: 1.2			
Cyclanilide	: 28	: 1.3	: 0.08	: 0.11	: 28
Ethephon	: 72	: 1.3	: 0.73	: 0.95	: 652
Mepiquat chloride	: 24	: 1.8	: 0.03	: 0.06	: 14
Monocarbamide dihyd.	: 7	: 1.0	: 2.35	: 2.35	: 156
Sodium chlorate	: 6	: 1.0	: 0.97	: 1.01	: 62
Thidiazuron	: 10	: 1.0	: 0.06	: 0.07	: 7
Tribufos	: 61	: 1.4	: 0.63	: 0.89	: 521

1/ Planted acres in 2000 for Arkansas were 960,000 acres.

2/ Rates and total applied are not calculated because amounts of active ingredient are not comparable between products.

Upland Cotton: Agricultural Chemical Applications,
California, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Bromoxynil	: 11	2.1	0.42	0.91	79
Diuron	: 43	1.0	0.03	0.04	12
Fluazifop-P-butyl	: 2	1.1	0.22	0.24	3
Glyphosate	: 34	1.6	1.09	1.77	462
Metolachlor	: 4	1.0	1.90	1.90	66
Oxyfluorfen	: 8	1.0	0.37	0.37	22
Pendimethalin	: 31	1.0	1.18	1.18	289
Prometryn	: 20	1.1	1.47	1.63	257
Pyrithiobac-sodium	: 9	1.3	0.07	0.09	7
Trifluralin	: 36	1.0	0.81	0.84	234
Insecticides:	:				
Acephate	: 4	1.0	0.69	0.72	24
Aldicarb	: 35	1.2	1.30	1.67	452
Bt(Bacillus thur.)2/	: 4	1.0			
Bifenthrin	: 8	1.0	0.07	0.08	5
Carbofuran	: 3	1.0	0.26	0.28	7
Chlorpyrifos	: 16	1.2	0.89	1.13	141
Dicofol	: 25	1.0	0.93	0.94	180
Dimethoate	: 2	1.0	0.30	0.30	5
Imidacloprid	: 7	1.0	0.04	0.04	2
Naled	: 7	1.0	0.94	0.94	50
Oxamyl	: 4	1.0	0.55	0.55	16
Phorate	: 11	1.0	0.97	1.00	86
Pyriproxyfen	: 5	1.0	0.05	0.05	2
Tebufenozide	: 3	1.1	0.09	0.10	2
Other Chemicals:	:				
Bacillus cereus 2/	: 44	1.1			
Cacodylic acid	: 12	1.0	0.87	0.90	82
Cyclanilide	: 3	1.0	0.11	0.11	3
Endothall	: 5	1.0	0.10	0.10	4
Ethephon	: 56	1.0	1.11	1.17	509
Mepiquat chloride	: 69	1.1	0.03	0.03	18
Monocarbamide dihyd.	: 22	1.0	2.42	2.50	421
Paraquat	: 40	1.0	0.31	0.34	106
Sodium chlorate	: 22	1.0	4.54	4.82	815
Thidiazuron	: 46	1.0	0.07	0.07	25
Tribufos	: 42	1.0	1.50	1.53	500

1/ Planted acres in 2000 for California were 775,000 acres.

2/ Rates and total applied are not calculated because amounts of active ingredient are not comparable between products.

Upland Cotton: Agricultural Chemical Applications,
Georgia, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Cyanazine	: 12	1.0	1.00	1.00	176
DSMA	: 9	1.0	1.61	1.61	207
Diuron	: 14	1.3	0.21	0.27	58
Fluometuron	: 25	1.1	0.69	0.78	288
Glyphosate	: 76	1.4	0.71	1.07	1,217
MSMA	: 25	1.0	1.30	1.37	515
Pendimethalin	: 32	1.1	0.82	0.91	431
Pyrithiobac-sodium	: 13	1.0	0.04	0.04	8
Trifluralin	: 41	1.0	0.90	0.90	556
Insecticides:	:				
Acephate	: 3	1.0	0.66	0.66	30
Aldicarb	: 48	1.0	0.61	0.61	447
Cyfluthrin	: 7	1.1	0.03	0.04	4
Deltamethrin	: 6	1.3	0.02	0.03	2
Lambda-cyhalothrin	: 7	1.4	0.02	0.03	3
Methyl parathion	: 7	1.1	0.69	0.81	79
Phorate	: 9	1.0	0.64	0.64	90
Tralomethrin	: 10	1.2	0.02	0.03	4
Other Chemicals:	:				
Bacillus cereus 2/	: 5	1.4			
Cyclanilide	: 20	1.0	0.12	0.12	37
Dimethipin	: 3	1.3	0.34	0.47	21
Ethephon	: 66	1.0	1.08	1.08	1,077
Mepiquat chloride	: 11	1.4	0.02	0.03	6
Monocarbamide dihyd.	: 10	1.0	2.78	2.78	408
Paraquat	: 4	1.0	0.44	0.44	28
Thidiazuron	: 41	1.0	0.09	0.09	54
Tribufos	: 51	1.0	0.60	0.61	470

1/ Planted acres in 2000 for Georgia were 1.50 million acres.

2/ Rates and total applied are not calculated because amounts of active ingredient are not comparable between products.

Upland Cotton: Agricultural Chemical Applications,
Louisiana, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year : Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
Clethodim	: 16 1.0 0.17 0.18 20
Cyanazine	: 18 1.0 0.75 0.78 100
Diuron	: 55 1.2 0.46 0.58 228
Fluazifop-P-butyl	: 1 1.6 0.13 0.22 2
Fluometuron	: 46 1.6 0.45 0.74 239
Glyphosate	: 44 2.1 0.67 1.44 449
MSMA	: 43 1.6 0.89 1.43 439
Metolachlor	: 8 1.0 0.91 0.92 51
Norflurazon	: 10 1.0 0.29 0.30 21
Pendimethalin	: 14 1.0 0.64 0.64 63
Prometryn	: 22 1.4 0.54 0.79 120
Pyrithiobac-sodium	: 23 1.2 0.05 0.06 10
Trifluralin	: 11 1.0 0.66 0.68 54
Insecticides:	:
Acephate	: 41 1.7 0.35 0.61 177
Aldicarb	: 33 1.1 0.52 0.60 140
Carbofuran	: 11 1.0 0.34 0.34 26
Cyfluthrin	: 13 1.8 0.03 0.06 6
Cypermethrin	: 20 1.3 0.07 0.10 14
Diclotophos	: 20 1.7 0.27 0.48 69
Dimethoate	: 3 1.6 0.26 0.43 9
Imidacloprid	: 12 1.0 0.03 0.03 3
Lambda-cyhalothrin	: 19 2.1 0.02 0.05 7
Malathion	: 77 8.6 0.87 7.57 4,155
Methamidophos	: 4 1.0 0.38 0.38 11
Methyl parathion	: 4 4.3 0.39 1.68 50
Phorate	: 3 1.0 0.61 0.65 13
Profenofos	: 2 1.5 0.86 1.30 19
Spinosad	: 16 3.8 0.07 0.28 32
Zeta-cypermethrin	: 3 1.0 0.04 0.04 1
Fungicides:	:
Etridiazole	: 13 1.0 0.24 0.24 22
Mefenoxam	: 8 1.0 0.03 0.03 2
Other Chemicals:	:
Bacillus cereus 2/	: 6 2.3
Cyclanilide	: 3 1.0 0.10 0.10 2
Ethephon	: 48 1.0 0.78 0.83 284
Gibberellic acid 3/	: 4 1.5
Indole-3-butyric 3/	: 4 1.5
Mepiquat chloride	: 27 1.8 0.02 0.03 6
Monocarbamide dihyd.	: 8 1.0 2.48 2.48 140
Sodium chlorate	: 2 1.0 1.13 1.13 16
Thidiazuron	: 76 1.0 0.07 0.07 38
Tribufos	: 49 1.1 0.68 0.74 258

- 1/ Planted acres in 2000 for Louisiana were 710,000 acres.
- 2/ Rates and total applied are not calculated because amounts of active ingredient are not comparable between products.
- 3/ Rates and total applied are not available because amount of active ingredient is too small.

Upland Cotton: Agricultural Chemical Applications,
Mississippi, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year : Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
2,4-D	: 8 1.0 0.71 0.71 72
Bromoxynil	: 10 1.5 0.41 0.63 85
Clethodim	: 3 1.0 0.12 0.12 4
Clomazone	: 6 1.0 0.51 0.51 40
Cyanazine	: 36 1.3 0.52 0.68 316
Diuron	: 41 1.1 0.50 0.58 310
Fluometuron	: 45 1.0 0.61 0.66 382
Glyphosate	: 71 2.0 0.64 1.32 1,214
Lactofen	: 5 1.0 0.11 0.11 8
MSMA	: 35 1.4 0.71 1.06 483
Metolachlor	: 6 1.0 0.46 0.46 35
Norflurazon	: 12 1.0 0.47 0.47 75
Pendimethalin	: 16 1.0 0.62 0.62 132
Prometryn	: 27 1.2 0.54 0.67 231
Pyrithiobac-sodium	: 25 1.2 0.03 0.03 11
Trifluralin	: 10 1.0 0.72 0.73 93
Insecticides:	:
Acephate	: 30 1.6 0.59 0.99 388
Aldicarb	: 22 1.0 0.53 0.53 150
Carbofuran	: 8 1.1 0.26 0.30 30
Cyfluthrin	: 12 1.2 0.03 0.03 5
Cypermethrin	: 16 1.1 0.04 0.05 11
Diclotophos	: 23 1.3 0.30 0.42 122
Disulfoton	: 5 1.0 0.81 0.81 51
Lambda-cyhalothrin	: 8 1.5 0.02 0.03 3
Malathion	: 92 6.0 0.72 4.35 5,193
Oxamyl	: 6 1.0 0.18 0.18 14
Profenofos	: 3 1.1 0.61 0.71 29
Spinosad	: 12 1.5 0.06 0.09 14
Fungicides:	:
Etridiazole	: 7 1.0 0.20 0.20 17
Mefenoxam	: 3 1.0 0.04 0.04 1
Metalaxyl	: 3 1.0 0.04 0.04 2
PCNB	: 13 1.0 0.66 0.66 109
Other Chemicals:	:
Bacillus cereus 2/	: 11 1.4
Cyclanilide	: 13 1.0 0.10 0.10 16
Ethephon	: 46 1.1 0.90 0.99 597
Gibberellic acid 3/	: 6 1.0
Indole-3-butyric 3/	: 6 1.0
Mepiquat chloride	: 13 1.4 0.03 0.05 8
Paraquat	: 9 1.3 0.32 0.42 52
Sodium chlorate	: 12 1.1 1.16 1.29 199
Thidiazuron	: 70 1.0 0.15 0.16 143
Tribufos	: 60 1.0 1.08 1.10 863

- 1/ Planted acres in 2000 for Mississippi were 1.30 million acres.
- 2/ Rates and total applied are not calculated because amounts of active ingredient are not comparable between products.
- 3/ Rates and total applied are not available because amount of active ingredient is too small.

Upland Cotton: Agricultural Chemical Applications,
Missouri, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Bromoxynil	: 48	1.3	0.41	0.55	106
Clomazone	: 7	1.0	0.25	0.25	7
Cyanazine	: 37	1.0	0.26	0.27	40
Fluometuron	: 53	1.0	0.38	0.38	81
Glyphosate	: 29	1.6	0.78	1.31	151
MSMA	: 6	1.0	0.58	0.60	15
Metolachlor	: 9	1.0	0.85	0.85	32
Norflurazon	: 7	1.0	0.37	0.40	11
Pendimethalin	: 15	1.0	0.62	0.62	38
Prometryn	: 6	1.0	0.29	0.30	7
Pyrithiobac-sodium	: 48	1.0	0.03	0.03	6
Trifluralin	: 49	1.0	0.62	0.62	123
Insecticides:	:				
Acephate	: 12	2.1	0.34	0.74	37
Aldicarb	: 52	1.0	0.65	0.67	139
Bifenthrin	: 17	1.7	0.04	0.08	5
Cyfluthrin	: 10	1.7	0.03	0.06	2
Cypermethrin	: 11	1.0	0.04	0.04	2
Imidacloprid	: 11	1.0	0.02	0.02	1
Lambda-cyhalothrin	: 17	1.5	0.01	0.02	2
Methyl parathion	: 9	2.1	0.33	0.69	25
Oxamyl	: 23	1.5	0.28	0.42	40
Profenofos	: 9	1.8	0.48	0.87	32
Zeta-cypermethrin	: 14	2.2	0.03	0.07	4
Other Chemicals:	:				
Cyclanilide	: 10	1.4	0.16	0.23	9
Dimethipin	: 7	1.0	0.29	0.29	8
Ethephon	: 78	1.1	0.94	1.06	329
Mepiquat chloride	: 31	2.5	0.06	0.15	18
Paraquat	: 4	1.0	0.28	0.28	5
Thidiazuron	: 18	1.0	0.06	0.06	4
Tribufos	: 78	1.0	0.91	0.99	310

1/ Planted acres in 2000 for Missouri were 400,000 acres.

Upland Cotton: Agricultural Chemical Applications,
North Carolina, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year : Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
2,4-D	: 3 1.0 0.30 0.30 9
Bromoxynil	: 8 1.3 0.41 0.54 39
Clethodim	: 3 1.0 0.11 0.11 3
Cyanazine	: 15 1.0 0.92 0.94 127
Fluometuron	: 39 1.0 0.84 0.90 331
Glyphosate	: 80 1.8 0.64 1.16 861
MSMA	: 32 1.1 1.16 1.37 412
Norflurazon	: 8 1.0 0.73 0.73 53
Pendimethalin	: 38 1.0 0.70 0.71 252
Prometryn	: 24 1.0 0.67 0.73 165
Pyrithiobac-sodium	: 13 1.0 0.04 0.05 6
Trifluralin	: 12 1.0 0.67 0.67 75
Insecticides:	:
Acephate	: 16 1.0 0.27 0.28 40
Aldicarb	: 60 1.0 0.67 0.67 373
Cyfluthrin	: 31 1.3 0.04 0.05 15
Cypermethrin	: 5 1.8 0.06 0.12 5
Deltamethrin	: 5 1.6 0.04 0.06 3
Dimethoate	: 2 1.6 0.10 0.15 3
Lambda-cyhalothrin	: 33 1.6 0.02 0.04 11
Phorate	: 4 1.0 0.90 0.90 35
Zeta-cypermethrin	: 7 1.8 0.04 0.07 5
Fungicides:	:
Mefenoxam	: 2 1.0 0.03 0.03 1
PCNB	: 4 1.0 0.52 0.52 17
Other Chemicals:	:
Bacillus cereus 2/	: 37 1.5
Cyclanilide	: 40 1.0 0.14 0.14 51
Dimethipin	: 10 1.0 0.27 0.27 26
Ethephon	: 78 1.0 1.06 1.09 786
Mepiquat chloride	: 61 1.6 0.03 0.05 27
Monocarbamide dihyd.	: 27 1.0 3.14 3.14 791
Paraquat	: 8 1.1 0.42 0.47 37
Sodium chlorate	: 4 1.0 0.57 0.57 21
Thidiazuron	: 11 1.0 0.08 0.08 9
Tribufos	: 39 1.0 0.46 0.46 167

1/ Planted acres in 2000 for North Carolina were 930,000 acres.

2/ Rates and total applied are not calculated because amounts of active ingredient are not comparable between products.

Upland Cotton: Agricultural Chemical Applications,
Tennessee, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year : Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
Clomazone	: 7 1.0 0.43 0.43 17
Cyanazine	: 19 1.0 0.99 0.99 108
Diuron	: 28 1.3 0.62 0.83 132
Fluometuron	: 14 1.0 0.95 0.96 77
Glyphosate	: 91 2.6 0.60 1.61 837
MSMA	: 19 1.0 0.77 0.78 85
Pendimethalin	: 13 1.0 0.75 0.75 54
Pyrithiobac-sodium	: 4 1.0 0.03 0.03 1
Trifluralin	: 2 1.2 0.85 1.02 10
Insecticides:	:
Acephate	: 10 1.1 0.34 0.40 24
Cyfluthrin	: 39 1.0 0.03 0.03 7
Cypermethrin	: 19 1.2 0.04 0.05 5
Dicrctophos	: 24 1.6 0.23 0.37 50
Disulfoton	: 8 1.0 0.54 0.54 25
Imidacloprid	: 10 1.3 0.02 0.03 2
Lambda-cyhalothrin	: 7 1.7 0.03 0.05 2
Malathion	: 99 9.6 0.73 7.02 3,970
Methyl parathion	: 8 1.7 0.47 0.83 37
Oxamyl	: 39 1.7 0.18 0.32 70
Fungicides:	:
Etridiazole	: 8 1.0 0.12 0.12 6
Mefenoxam	: 12 1.0 0.04 0.04 2
PCNB	: 20 1.0 0.60 0.60 69
Other Chemicals:	:
Bacillus cereus 2/	: 34 1.1
Cyclanilide	: 38 1.0 0.12 0.12 26
Ethephon	: 75 1.0 1.07 1.07 458
Mepiquat chloride	: 83 1.8 0.03 0.05 24
Paraquat	: 7 1.0 0.42 0.43 17
Thidiazuron	: 5 1.0 0.10 0.10 3
Tribufos	: 55 1.0 0.52 0.52 162

1/ Planted acres in 2000 for Tennessee were 570,000 acres.

2/ Rates and total applied are not calculated because amounts of active ingredient are not comparable between products.

Upland Cotton: Agricultural Chemical Applications,
Texas, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	: Number	: Pounds per Acre		: 1,000 lbs
Herbicides:	:				
2,4-D	: *	1.0	1.64	1.64	76
Clethodim	: 2	1.2	0.17	0.21	29
Diuron	: 12	1.1	0.25	0.30	234
Fluazifop-P-butyl	: *	1.3	0.32	0.43	20
Fluometuron	: 4	1.0	0.66	0.66	173
Glyphosate	: 50	1.5	0.67	1.02	3,266
MSMA	: 1	1.0	0.86	0.91	60
Pendimethalin	: 18	1.0	0.64	0.69	813
Prometryn	: 10	1.0	0.38	0.38	235
Pyridate	: 2	1.0	0.18	0.18	19
Pyriithiobac-sodium	: 7	1.1	0.06	0.07	30
Trifluralin	: 58	1.0	0.72	0.76	2,839
Insecticides:	:				
Acephate	: 6	1.5	0.57	0.87	358
Aldicarb	: 13	1.0	0.43	0.43	357
Azinphos-methyl	: 4	1.8	0.27	0.51	136
Bt (Bacillus thur.)2/	: 2	1.6			
Carbofuran	: 7	1.0	0.21	0.22	96
Chlorpyrifos	: 5	1.9	0.64	1.22	404
Cyfluthrin	: *	1.0	1.14	1.14	71
Cypermethrin	: 6	1.1	0.08	0.08	30
Deltamethrin	: 2	1.9	0.16	0.30	30
Dicrotophos	: 5	1.5	0.14	0.22	70
Emamectin benzoate	: 3	1.1	0.007	0.008	1
Endosulfan	: 2	1.6	0.47	0.77	114
Esfenvalerate	: 1	1.0	0.05	0.05	4
Imidacloprid	: 1	1.1	0.01	0.02	1
Indoxacarb	: 7	1.0	0.10	0.10	45
Lambda-cyhalothrin	: 5	1.1	0.03	0.03	10
Malathion	: 41	6.5	1.02	6.65	17,421
Methyl parathion	: 6	2.3	0.64	1.52	606
Oxamyl	: 15	2.0	0.25	0.51	496
Phorate	: 4	1.0	0.44	0.44	124
Spinosad	: 4	1.1	0.06	0.07	16
Tebufenozide	: 3	1.0	0.14	0.14	29
Zeta-cypermethrin	: *	1.2	0.03	0.04	3

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Upland Cotton: Agricultural Chemical Applications,
Texas, 2000 1/ (continued)

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Other Chemicals (cont.):	:				
Bacillus cereus 2/	: 7	1.7			
Cyclanilide	: 3	1.0	0.07	0.07	13
Ethephon	: 12	1.0	0.62	0.66	495
Gibberellic acid 3/	: 1	2.1			
Indole-3-butyric 3/	: 1	1.9			
Mepiquat chloride	: 12	1.6	0.02	0.03	21
Monocarbamide dihyd.	: 4	1.0	1.13	1.13	263
Paraquat	: 19	1.0	0.26	0.27	320
Sodium chlorate	: 3	1.0	0.66	0.66	141
Thidiazuron	: 19	1.0	0.09	0.10	124

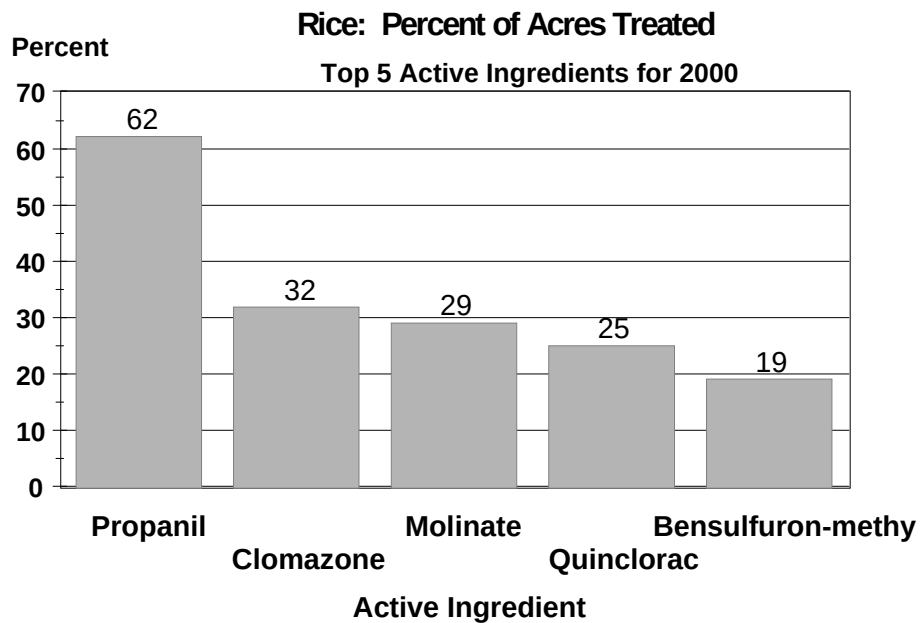
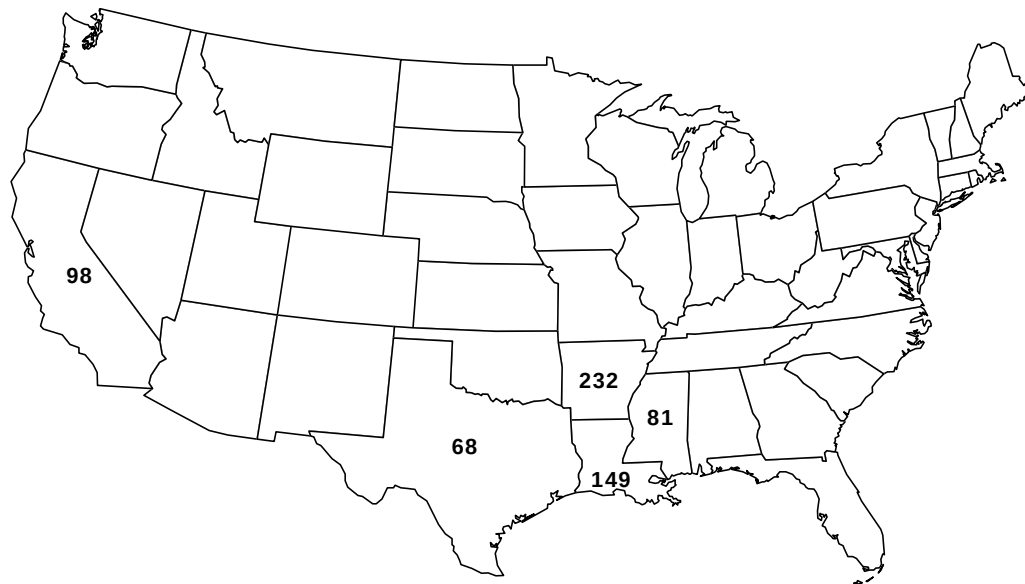
* Area applied is less than one percent.

1/ Planted acres in 2000 for Texas were 6.40 million acres.

2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

3/ Rates and total applied are not available because amount of active ingredient is too small.

Rice: Number of Usable Reports, 2000



Surveyed states are AR, CA, LA, MS and TX

Rice: Fertilizer Use by State, 2000
Percent of Acres Treated and Total Amount Applied

State	Planted Acreage	Area Receiving and Total Applied					
		Nitrogen		:	Phosphate		Potash
	: 1,000 : Acres	Percent	Mil. Lbs		Percent	Mil. Lbs	
AR	: 1,420	99	205.0		44	33.9	41
CA 1/	: 550	100	54.1		88	23.7	
LA	: 485	100	61.9		84	20.7	83
MS 1/	: 220	100	39.4				
TX 1/	: 215	100	50.2				89
Total	: 2,890	100	410.6		59	87.7	47
							75.9

1/ Insufficient reports to publish data for one or more of the fertilizer primary nutrients.

Rice: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000

Primary Nutrient	:Planted :Acreage	: Area :Applied	: Appli- : cations	: Rate per : Application	: Rate per : Crop Year	: Total : Applied
	: 1,000 : Acres	Percent	Number	Pounds per Acre		Mil. Lbs
Arkansas:	: 1,420					
Nitrogen	: :	99	2.2	65	145	205.0
Phosphate	: :	44	1.0	52	54	33.9
Potash	: :	41	1.0	62	62	35.9
California:	: 550					
Nitrogen	: :	100	2.2	43	99	54.1
Phosphate	: :	88	1.0	48	49	23.7
Potash 1/	: :					
Louisiana:	: 485					
Nitrogen	: :	100	2.0	63	128	61.9
Phosphate	: :	84	1.0	47	51	20.7
Potash	: :	83	1.0	56	61	24.3
Mississippi:	: 220					
Nitrogen	: :	100	3.4	53	179	39.4
Phosphate 1/	: :					
Potash 1/	: :					
Texas:	: 215					
Nitrogen	: :	100	4.4	53	234	50.2
Phosphate 1/	: :					
Potash	: :	89	1.1	34	38	7.3
Total:	: 2,890					
Nitrogen	: :	100	2.4	59	144	410.6
Phosphate	: :	59	1.0	49	51	87.7
Potash	: :	47	1.0	53	56	75.9

1/ Insufficient reports to publish data for one or more of the fertilizer primary nutrients.

Rice: Active Ingredients Applied and Publication Status
By States Surveyed, 2000

Active Ingredient	States Surveyed						
	ALL	: AR	: CA	: LA	: MS	: TX	
Herbicides	:	:	:	:	:	:	:
2,4-D	P	:	P	*	P	P	*
2,4-D, Dimethylamine	*	:	:	:	*	:	:
Acifluorfen	P	:	P	:	:	P	:
Bensulfuron-methyl	P	:	*	P	P	*	P
Bentazon	P	:	P	:	*	*	P
Clomazone	P	:	P	:	*	P	*
Fenoxaprop-P-ethyl	P	:	*	P	:	*	:
Glyphosate	P	:	P	:	P	P	P
Halosulfuron	P	:	P	:	P	P	P
Imazethapyr	*	:	*	:	:	:	*
MCPA	P	:	:	*	:	:	*
Molinate	P	:	P	P	P	P	P
Paraquat	P	:	*	:	*	*	*
Pendimethalin	P	:	P	*	*	*	*
Propanil	P	:	P	P	P	P	P
Quinclorac	P	:	P	:	P	P	P
Sethoxydim	*	:	*	:	:	:	:
Sulfosate	*	:	*	:	*	:	:
Thiobencarb	P	:	*	P	:	*	P
Triclopyr	P	:	P	P	*	P	*
Insecticides	:	:	:	:	:	:	:
Carbaryl	P	:	*	*	:	:	*
Carbofuran	*	:	:	*	*	:	:
Diiflubenzuron	*	:	:	*	:	*	:
Fipronil	*	:	:	:	:	:	*
Hexythiazox	*	:	:	:	*	:	:
Lambda-cyhalothrin	P	:	*	P	*	P	P
Malathion	P	:	*	:	*	*	:
Methyl parathion	P	:	*	:	P	*	P
Piperonyl butoxide	*	:	*	:	:	:	:
Pyrethrins	*	:	*	:	:	:	:

--continued

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Rice: Active Ingredients Applied and Publication Status
By States Surveyed, 2000 (continued)

Active Ingredients	States Surveyed						
	ALL	:	AR	:	CA	:	LA : MS : TX
Fungicides	:	:					
Azoxystrobin	:	P	:	P	*	P	*
Benomyl	:	*	:			*	
Copper hydroxide	:	*	:	*			*
Copper sulfate	:	P	:		*		
Propiconazole	:	P	:	*		*	*
	:		:				
Other Chemicals	:	:	:				
Cytokinins	:	*	:	*			
Gibberellic acid	:	*	:	*		*	
Indole-3 butyric acid	:	*	:	*			
Metam-sodium	:	*	:			*	
Sodium chlorate	:	P	:	P		*	*

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Rice: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
States Surveyed and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide	:	Insecticide	:	Fungicide	:	Other Chemicals	2/
	: 1,000 : : Acres : :	Percent	1,000	Percent	1,000	Percent	1,000	Percent	1,000
			Lbs		Lbs		Lbs		Lbs
AR	: 1,420	98	5,250	2	10	7	21	4	35
CA	: 550	100	3,427	30	35	26	465		
LA	: 485	93	1,080	31	99	43	38	2	23
MS 3/	: 220	100	807	45	16	29	13		
TX 3/	: 215	100	959	73	199	55	19		
	:								
Total	: 2,890	98	11,523	22	359	23	556	2	81

1/ Total Applied excludes Bt's (*Bacillus thuringiensis*). Quantities are not available because amounts of active ingredient are not comparable between products.

2/ Insufficient reports to publish data for one or more of the States surveyed.

3/ Insufficient reports to publish data for one or more of the pesticide classes.

Rice: Agricultural Chemical Applications,
States Surveyed, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:	:	:	:	:
2,4-D	17	1.0	0.82	0.83	416
Acifluorfen	4	1.0	0.18	0.18	21
Bensulfuron-methyl	19	1.0	0.05	0.05	28
Bentazon	6	1.2	0.42	0.51	85
Clomazone	32	1.0	0.44	0.45	414
Fenoxaprop-P-ethyl	1	1.0	0.06	0.06	2
Glyphosate	12	1.1	0.77	0.91	329
Halosulfuron	9	1.0	0.03	0.03	9
MCPA	1	1.0	0.38	0.38	14
Molinate	29	1.0	2.61	2.79	2,376
Paraquat	*	1.1	0.49	0.55	4
Pendimethalin	8	1.0	0.86	0.93	201
Propanil	62	1.1	2.90	3.38	6,020
Quinclorac	25	1.0	0.14	0.14	103
Thiobencarb	13	1.0	3.35	3.45	1,337
Triclopyr	18	1.0	0.26	0.27	144
Insecticides:	:	:	:	:	:
Carbaryl	1	1.0	0.98	1.01	36
Carbofuran	2	1.0	0.43	0.46	21
Lambda-cyhalothrin	13	1.1	0.03	0.03	11
Malathion	*	1.0	0.57	0.57	3
Methyl parathion	9	2.1	0.51	1.11	286
Fungicides:	:	:	:	:	:
Azoxystrobin	17	1.1	0.14	0.16	76
Copper sulfate	5	1.0	3.11	3.38	461
Propiconazole	3	1.4	0.14	0.21	16
Other Chemicals:	:	:	:	:	:
Sodium chlorate	2	1.0	1.35	1.35	71

* Area applied is less than one percent.

1/ Planted acres in 2000 for the 5 states surveyed were 2.89 million acres.
States included are AR, CA, LA, MS and TX.

Rice: Agricultural Chemical Applications,
Arkansas, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year :Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
2,4-D	: 12 1.0 0.63 0.65 112
Acifluorfen	: 6 1.0 0.17 0.17 16
Bentazon	: 6 1.3 0.39 0.53 44
Clomazone	: 45 1.0 0.43 0.43 275
Glyphosate	: 15 1.2 0.74 0.92 198
Halosulfuron	: 6 1.0 0.05 0.05 4
Molinate	: 19 1.0 2.16 2.33 631
Pendimethalin	: 13 1.1 0.83 0.91 165
Propanil	: 75 1.2 2.74 3.31 3,532
Quinclorac	: 18 1.0 0.15 0.15 39
Triclopyr	: 14 1.0 0.27 0.30 59
Fungicides:	:
Azoxystrobin	: 5 1.2 0.14 0.17 13
Other Chemicals:	:
Sodium chlorate	: 3 1.0 0.77 0.77 35

1/ Planted acres in 2000 for Arkansas were 1.42 million acres.

Rice: Agricultural Chemical Applications,
California, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year :Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
Bensulfuron-methyl	: 30 1.0 0.05 0.05 9
Fenoxaprop-P-ethyl	: 4 1.0 0.06 0.06 1
Molinate	: 59 1.0 3.39 3.44 1,121
Propanil	: 60 1.0 3.33 3.46 1,147
Thiobencarb	: 50 1.0 3.75 3.75 1,035
Triclopyr	: 50 1.0 0.22 0.22 61
Insecticides:	:
Lambda-cyhalothrin	: 22 1.2 0.03 0.04 4

1/ Planted acres in 2000 for California were 550,000 acres.

Rice: Agricultural Chemical Applications,
Louisiana, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year :Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
2,4-D	: 40 1.0 1.11 1.11 213
Bensulfuron-methyl	: 55 1.0 0.04 0.04 11
Glyphosate	: 5 1.0 1.00 1.00 25
Halosulfuron	: 6 1.0 0.02 0.02 1
Molinate	: 30 1.1 2.19 2.55 368
Propanil	: 27 1.2 2.46 3.14 404
Quinclorac	: 42 1.0 0.13 0.13 27
Insecticides:	:
Methyl parathion	: 16 1.8 0.59 1.09 87
Fungicides:	:
Azoxystrobin	: 38 1.1 0.15 0.17 32

1/ Planted acres in 2000 for Louisiana were 485,000 acres.

Rice: Agricultural Chemical Applications,
Mississippi, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year :Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
2,4-D	: 41 1.0 0.75 0.77 70
Acifluorfen	: 10 1.0 0.22 0.22 5
Clomazone	: 68 1.0 0.54 0.56 84
Glyphosate	: 28 1.1 0.85 0.98 61
Halosulfuron	: 11 1.0 0.04 0.04 1
Molinate	: 16 1.0 2.39 2.39 84
Propanil	: 43 1.2 3.36 4.07 385
Quinclorac	: 43 1.1 0.21 0.24 22
Insecticides:	:
Lambda-cyhalothrin	: 38 1.0 0.03 0.04 3

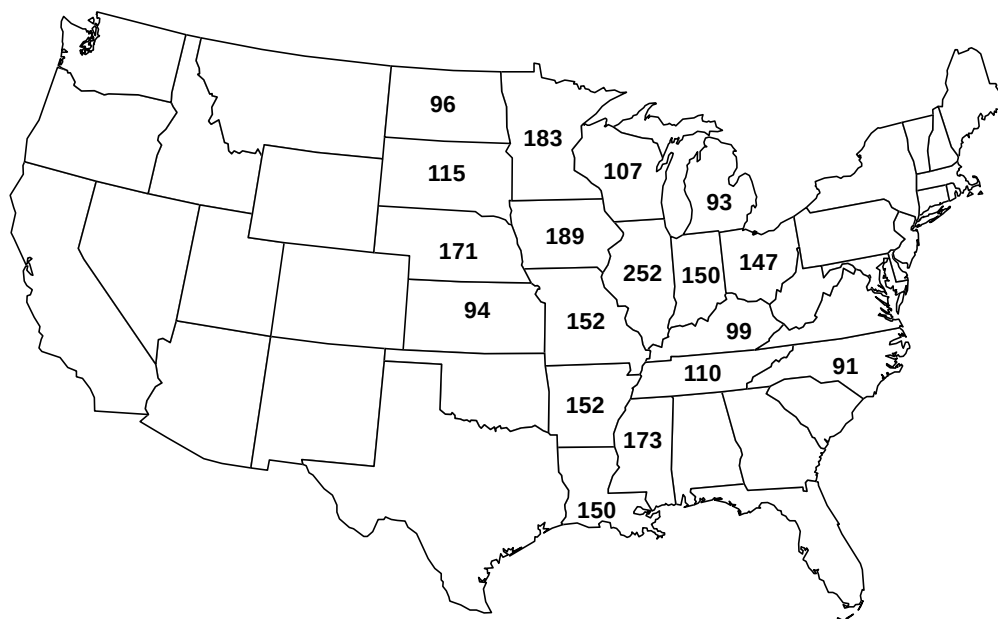
1/ Planted acres in 2000 for Mississippi were 220,000 acres.

Rice: Agricultural Chemical Applications,
Texas, 2000 1/

Agricultural Chemical	: Area : Appli- : Rate per : Rate per : Total
	: Applied : cations : Application : Crop Year :Applied
	: Percent Number Pounds per Acre 1,000 lbs
Herbicides:	:
Bensulfuron-methyl	: 24 1.1 0.12 0.13 7
Bentazon	: 32 1.0 0.47 0.51 35
Glyphosate	: 22 1.1 0.84 0.94 45
Halosulfuron	: 48 1.0 0.03 0.03 3
Molinate	: 38 1.0 1.90 2.08 172
Propanil	: 82 1.0 2.98 3.13 552
Quinclorac	: 58 1.0 0.11 0.12 15
Thiobencarb	: 16 1.0 1.68 1.75 59
Insecticides:	:
Lambda-cyhalothrin	: 36 1.0 0.02 0.02 2
Methyl parathion	: 50 2.8 0.57 1.65 179
Fungicides:	:
Azoxystrobin	: 53 1.0 0.14 0.14 16

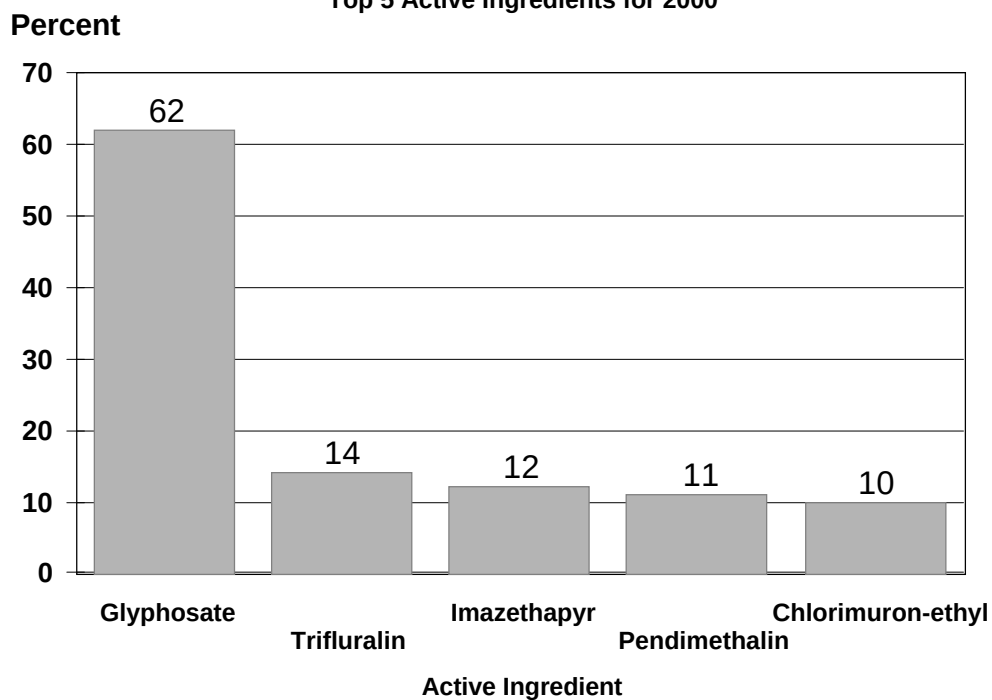
1/ Planted acres in 2000 for Texas were 215,000 acres.

Soybeans: Number of Usable Reports, 2000



Soybeans: Percent of Acres Treated

Top 5 Active Ingredients for 2000



Surveyed states are AR, IL, IN, IA, KS, KY, LA, MI, MN, MS, MO, NE, NC, ND, OH, SD, TN, and WI

Soybeans: Fertilizer Use by State, 2000
Percent of Acres Treated and Total Amount Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied					
		Nitrogen		:	Phosphate		Potash
		Percent	Mil. Lbs		Percent	Mil. Lbs	Percent
							Mil. Lbs
	1,000 Acres						
AR	3,350	10	21.0	30	43.4	31	73.0
IL	10,500	11	16.8	16	77.5	29	286.0
IN	5,650	7	11.0	15	53.9	33	207.8
IA	10,700	15	81.0	22	110.1	22	138.0
KS 1/	2,950	18	10.3	16	16.9		
KY	1,200	13	7.7	40	31.7	39	37.7
LA	930	6	1.5	20	7.3	26	15.6
MI	2,100	37	11.1	40	44.8	72	131.2
MN	7,300	8	10.2	9	24.1	24	118.6
MS	1,700	9	3.4	19	14.3	20	23.5
MO	5,150	20	27.5	28	98.1	27	94.2
NE	4,650	30	19.8	20	36.7	15	6.2
NC	1,400	38	12.6	62	64.7	47	47.7
ND 1/	1,900	46	27.8	41	25.3		
OH	4,450	25	21.7	32	70.2	47	192.8
SD	4,400	38	24.3	43	66.0	12	12.2
TN	1,180	18	3.0	29	14.3	31	22.2
WI	1,500	24	6.5	30	16.6	40	46.2
Total	71,010	18	317.2	24	815.9	27	1,456.5

1/ Insufficient reports to publish data for one or more of the fertilizer primary nutrients.

Soybeans: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000

Primary Nutrient	Planted Acreage	Area Applied	Appli- cations	Rate per Application	Rate per Crop Year	Total Applied
		Percent	Number	Pounds per Acre		Mil. Lbs
	1,000 Acres					
Arkansas:	3,350					
Nitrogen		10	1.1	55	61	21.0
Phosphate		30	1.0	43	43	43.4
Potash		31	1.0	71	71	73.0
Illinois:	10,500					
Nitrogen		11	1.0	14	15	16.8
Phosphate		16	1.0	47	47	77.5
Potash		29	1.0	93	95	286.0
Indiana:	5,650					
Nitrogen		7	1.3	22	29	11.0
Phosphate		15	1.0	65	65	53.9
Potash		33	1.0	112	112	207.8
Iowa:	10,700					
Nitrogen		15	1.0	49	49	81.0
Phosphate		22	1.0	47	47	110.1
Potash		22	1.0	59	59	138.0

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Soybeans: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000 (continued)

Primary Nutrient	: Planted : : Acreage :	Area : : Applied :	Appli- : : cations :	Rate per : : Application :	Rate per : : Crop Year :	Total : : Applied
	: 1,000 : Acres	Percent	Number	Pounds per Acre		Mil. Lbs
Kansas:	2,950					
Nitrogen		18	1.2	16	20	10.3
Phosphate		16	1.0	34	36	16.9
Potash 1/						
Kentucky:	1,200					
Nitrogen		13	1.4	34	49	7.7
Phosphate		40	1.0	61	66	31.7
Potash		39	1.0	79	80	37.7
Louisiana:	930					
Nitrogen		6	1.0	29	29	1.5
Phosphate		20	1.0	38	38	7.3
Potash		26	1.0	65	65	15.6
Michigan:	2,100					
Nitrogen		37	1.0	13	14	11.1
Phosphate		40	1.0	53	53	44.8
Potash		72	1.0	87	87	131.2
Minnesota:	7,300					
Nitrogen		8	1.0	16	17	10.2
Phosphate		9	1.0	34	35	24.1
Potash		24	1.0	67	69	118.6
Mississippi:	1,700					
Nitrogen		9	1.0	22	23	3.4
Phosphate		19	1.0	45	45	14.3
Potash		20	1.0	70	70	23.5
Missouri:	5,150					
Nitrogen		20	1.0	25	26	27.5
Phosphate		28	1.0	68	68	98.1
Potash		27	1.0	69	69	94.2
Nebraska:	4,650					
Nitrogen		30	1.0	14	14	19.8
Phosphate		20	1.0	38	40	36.7
Potash		15	1.0	9	9	6.2
North Carolina:	1,400					
Nitrogen		38	1.0	24	24	12.6
Phosphate		62	1.0	72	74	64.7
Potash		47	1.0	72	72	47.7

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Soybeans: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000 (continued)

Primary Nutrient	: Planted : : Acreage	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: 1,000 : Acres	Percent	Number	Pounds per Acre		Mil. Lbs
North Dakota:	: 1,900					
Nitrogen	: :	46	1.2	25	32	27.8
Phosphate	: :	41	1.0	31	32	25.3
Potash 1/	: :					
Ohio:	: 4,450					
Nitrogen	: :	25	1.1	18	20	21.7
Phosphate	: :	32	1.0	50	50	70.2
Potash	: :	47	1.0	92	92	192.8
South Dakota:	: 4,400					
Nitrogen	: :	38	1.0	14	14	24.3
Phosphate	: :	43	1.0	35	35	66.0
Potash	: :	12	1.0	23	23	12.2
Tennessee:	: 1,180					
Nitrogen	: :	18	1.0	14	14	3.0
Phosphate	: :	29	1.0	42	42	14.3
Potash	: :	31	1.0	60	60	22.2
Wisconsin:	: 1,500					
Nitrogen	: :	24	1.1	16	18	6.5
Phosphate	: :	30	1.0	36	37	16.6
Potash	: :	40	1.0	75	77	46.2
Total:	: 71,010					
Nitrogen	: :	18	1.0	23	24	317.2
Phosphate	: :	24	1.0	48	48	815.9
Potash	: :	27	1.0	76	76	1,456.5

1/ Insufficient reports to publish data for one or more of the fertilizer primary nutrients.

Soybeans: Active Ingredients Applied and Publication Status
By States Surveyed, 2000

Active Ingredient	States Surveyed						
	ALL	:	AR	:	IA	:	IL : IN : KS : KY
Herbicides	:	:					
2,4-D	P	:		P	P	P	* *
2,4-DB	*	:			*		*
Acetamide	P	:		*	*		
Acifluorfen	P	:	P	*	P		* *
Alachlor	P	:	*	*	*		* *
Atrazine	*	:			*		*
Bentazon	P	:	P	*	P	*	*
Chlorimuron-ethyl	P	:	P	P	P	P	P P
Clethodim	P	:	P	P	P	P	* *
Clomazone	P	:	*	P	*	*	
Clopyralid	*	:					
Cloransulam-methyl	P	:		P	P	P	* *
Dicamba	*	:					
Dichlorprop	*	:				*	*
Diclofop-methyl	*	:					
Dimethenamid	P	:					
Diuron	*	:					
Ethalfuralin	P	:					
Fenoxaprop-P-ethyl	P	:		P	P	P	P
Fluazifop-P-butyl	P	:	*	P	P	P	P
Flumetsulam	P	:	*	*	*	*	
Flumiclorac-Pentyl	P	:	*	*			
Fomesafen	P	:	*	P	P	P	P
Glyphosate	P	:	P	P	P	P	P P
Glyphosate, isopropyl	*	:				*	
Imazamox	P	:		P	P	P	* *
Imazaquin	P	:	P	*	P	P	P P
Imazethapyr	P	:		P	P	P	P *
Lactofen	P	:		P	P		* *
Linuron	P	:			*		
Metolachlor	P	:	*	*	*	P	* *
Metribuzin	P	:	*	*	P	P	* *
Nicosulfuron	*	:			*		
Norflurazon	*	:					
Oxyfluorfen	*	:					
Paraquat	P	:	*		*		*
Pendimethalin	P	:	*		P	P	P
Pyridate	*	:		*	*		*
Quizalofop-ethyl	P	:	*	*	*	*	* *
Rimsulfuron	*	:			*		
S-Metolachlor	P	:	*		*	*	
Sethoxydim	P	:	*	P	P	*	*
Sulfentrazone	P	:		P	P	P	*
Sulfosate	P	:		P	P	P	P
Thifensulfuron	P	:		P	P	P	* *
Tribenuron-methyl	*	:					*
Trifluralin	P	:	P	P	P	*	P *

--continued

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Soybeans: Active Ingredient Publication Status
By States Surveyed, 2000 (continued)

Active Ingredient	States Surveyed					
	LA	MI	MN	MO	MS	NC
Herbicides	:	:	:	:	:	:
2,4-D	*	*		*	P	
2,4-DB	:	:	:	:	:	:
Acetamide	:	:	:	*		
Acifluorfen	P		P	*	P	*
Alachlor	*	*	*			
Atrazine	:	:	:	:	:	:
Bentazon	P		P	*	P	
Chlorimuron-ethyl	P	*	P	P	P	*
Clethodim	P	*	*	*	P	*
Clomazone	P	*		*	P	
Clopyralid	:	:	:	:	:	:
Cloransulam-methyl	*	P	*	P	P	*
Dicamba	*					
Dichlorprop	:	:	:	:	:	:
Diclofop-methyl	:	:	:	:	:	*
Dimethenamid	*		*			
Diuron	*					
Ethalfluralin	:	:	:	:	:	:
Fenoxaprop-P-ethyl	*		P	*		*
Fluazifop-P-butyl	P		P	P	*	*
Flumetsulam	*	*	*	*	P	*
Flumiclorac-Pentyl	:	:	:	*		
Fomesafen	*		P	P	*	*
Glyphosate	P	P	P	P	P	P
Glyphosate, isopropy	:	:	:	:	:	:
Imazamox		P	P	*		
Imazaquin	P	P		P	P	*
Imazethapyr	:	P	P	P		
Lactofen	:	*	P	P		
Linuron	:	*	*			
Metolachlor	P	*		*	P	*
Metribuzin	P	*		*	P	*
Nicosulfuron	:	:	:	:	:	:
Norflurazon	*					
Oxyfluorfen	*					
Paraquat	*				*	*
Pendimethalin	*	P	P	P	P	P
Pyridate	:	:	:	:	:	:
Quizalofop-ethyl	*	*	*	*		
Rimsulfuron	:	:	:	:	:	:
S-Metolachlor	*	*	*			*
Sethoxydim	*		P	*	P	
Sulfentrazone	P	*	*	P	*	
Sulfosate	P	*	*	P	*	
Thifensulfuron	:	*	P	*		*
Tribenuron-methyl	:	:	*			*
Trifluralin	*		P	P	P	*

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P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Soybeans: Active Ingredient Publication Status
By States Surveyed, 2000 (continued)

Active Ingredient	States Surveyed					
	ND	NE	OH	SD	TN	WI
Herbicides	:	:	:	:	:	:
2,4-D	:	*	P	*		P
2,4-DB	:				*	
Acetamide	:	*	*			*
Acifluorfen	:	*	*	*	P	
Alachlor	:	P	*			
Atrazine	:					
Bentazon	:	P	*	P	P	
Chlorimuron-ethyl	:	P	P	*	P	*
Clethodim	:	*	P	P	P	*
Clomazone	:	*		*	*	
Clopyralid	:	*				
Cloransulam-methyl	:	*	P	*	*	P
Dicamba	:	*	*	*		
Dichlorprop	:		*			
Diclofop-methyl	:					
Dimethenamid	:	*	*			P
Diuron	:					
Ethalfuralin	:	P				
Fenoxaprop-P-ethyl	:	*	*	*	*	
Fluazifop-P-butyl	:	*		*	P	
Flumetsulam	:		P	*	*	*
Flumiclorac-Pentyl	:		*		*	
Fomesafen	:	P	*	*	P	*
Glyphosate	:	P	P	P	P	P
Glyphosate, isopropyl	:		*			
Imazamox	:	P		P		P
Imazaquin	:		*	P	*	
Imazethapyr	:	P	P	P	*	P
Lactofen	:	*	*	*	*	
Linuron	:		*			
Metolachlor	:		P	P	*	
Metribuzin	:		P	P	*	*
Nicosulfuron	:					
Norflurazon	:					
Oxyfluorfen	:					
Paraquat	:		*		P	
Pendimethalin	:	P	P	P	P	P
Pyridate	:					
Quizalofop-ethyl	:	*	*	*	*	*
Rimsulfuron	:					
S-Metolachlor	:		*		*	*
Sethoxydim	:	P	*	P		
Sulfentrazone	:		*	P	*	*
Sulfosate	:	*	P	P	*	*
Thifensulfuron	:	*	P	P	*	*
Tribenuron-methyl	:					
Trifluralin	:	P	P	P	P	*

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P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Soybeans: Active Ingredients Applied and Publication Status
By States Surveyed, 2000

Active Ingredient	States Surveyed						
	ALL	:	AR	:	IA	:	IL : IN : KS : KY
Insecticides	:	:	:	:	:	:	:
Acephate	:	*	:	:	:	:	:
Aldicarb	:	*	:	:	:	:	:
Carbaryl	:	*	:	:	:	:	*
Carbofuran	:	*	:	:	*	:	:
Chlorpyrifos	:	P	:	:	*	:	:
Diazinon	:	*	:	:	:	:	*
Diiflubenzuron	:	*	:	*	:	:	:
Esfenvalerate	:	P	:	:	:	*	:
Lambda-cyhalothrin	:	P	:	*	:	*	:
Methomyl	:	*	:	:	:	:	:
Methyl parathion	:	P	:	:	:	*	:
Permethrin	:	P	:	:	*	:	*
Spinosad	:	P	:	*	:	:	:
Thiodicarb	:	P	:	:	:	:	:
Tralomethrin	:	*	:	*	:	:	:
Fungicides	:	:	:	:	:	:	:
Azoxystrobin	:	*	:	:	:	:	:
Benomyl	:	*	:	:	:	:	:
Carboxin	:	*	:	:	:	:	:
Metalaxyl	:	*	:	:	:	:	:
Thiabendazole	:	*	:	:	:	:	:

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P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Soybeans: Active Ingredients Applied and Publication Status
By States Surveyed, 2000 (continued)

Active Ingredient	States Surveyed					
	LA	MI	MN	MO	MS	NC
Insecticides	:	:	:	:	:	:
Acephate	:	*	:	:	*	:
Aldicarb	:	:	:	:	:	*
Carbaryl	:	:	*	:	:	:
Carbofuran	:	*	:	:	:	:
Chlorpyrifos	:	:	:	:	:	:
Diazinon	:	:	:	:	:	:
Diiflubenzuron	:	:	:	:	*	:
Esfenvalerate	:	*	:	:	*	*
Lambda-cyhalothrin	:	P	:	:	*	*
Methomyl	:	*	:	:	*	:
Methyl parathion	:	*	:	:	:	:
Permethrin	:	*	:	:	:	:
Spinosad	:	P	:	:	*	:
Thiodicarb	:	P	:	:	*	*
Tralomethrin	:	:	:	:	:	:
Fungicides	:	:	:	:	:	:
Azoxystrobin	:	*	:	:	:	:
Benomyl	:	:	:	:	*	:
Carboxin	:	*	:	:	:	:
Metalaxyl	:	:	:	:	*	:
Thiabendazole	:	*	:	:	:	:

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P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Soybeans: Active Ingredients Applied and Publication Status
By States Surveyed, 2000 (continued)

Active Ingredient	States Surveyed					
	ND	NE	OH	SD	TN	WI
Insecticides	:					
Acephate	:	*				
Aldicarb	:					
Carbaryl	:					
Carbofuran	:					
Chlorpyrifos	:		*		*	
Diazinon	:					
Diiflubenzuron	:					
Esfenvalerate	:		*			
Lambda-cyhalothrin	:					
Methomyl	:				*	
Methyl parathion	:					
Permethrin	:					
Spinosad	:					
Thiodicarb	:					
Tralomethrin	:					
Fungicides	:					
Azoxystrobin	:					
Benomyl	:					
Carboxin	:					
Metalaxyl	:					
Thiabendazole	:					

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Soybeans: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
States Surveyed and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide	:	Insecticide 1/	:	Fungicide 3/	:	Other Chemicals	
	: 1,000 : Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
AR	: 3,350	86	2,918	3	4				
IL	: 10,500	98	10,582	1	3				
IN 2/	: 5,650	99	5,414						
IA 2/	: 10,700	98	13,053						
KS 2/	: 2,950	94	2,953						
KY	: 1,200	88	1,151	1	6				
LA	: 930	96	1,091	56	173	5	2		
MI 2/	: 2,100	98	2,094						
MN	: 7,300	95	7,151						
MS 2/	: 1,700	99	2,096	5	23				
MO	: 5,150	98	5,867						
NE 2/	: 4,650	98	5,795						
NC	: 1,400	92	1,016	7	15				
ND	: 1,900	99	2,046						
OH	: 4,450	98	4,586	1	2				
SD	: 4,400	98	4,863						
TN	: 1,180	95	1,319	1	8				
WI	: 1,500	85	1,169						
Total	: 71,010	97	75,164	2	303				

- 1/ Total Applied excludes Bt's (*Bacillus thuringiensis*). Quantities are not available because amounts of active ingredient are not comparable between products.
- 2/ Insufficient reports to publish data for one or more of the pesticide classes, for one or more of the States surveyed.
- 3/ Insufficient reports to publish data for one or more of the States surveyed.

Soybeans: Agricultural Chemical Applications,
States Surveyed, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	: Number	: Pounds per Acre		: 1,000 lbs
Herbicides:	:	:	:	:	:
2,4-D	: 5	: 1.0	: 0.44	: 0.44	: 1,507
Acetamide	: *	: 1.0	: 0.49	: 0.49	: 153
Acifluorfen	: 3	: 1.0	: 0.19	: 0.20	: 359
Alachlor	: 1	: 1.0	: 1.65	: 1.65	: 1,346
Bentazon	: 2	: 1.0	: 0.77	: 0.82	: 1,381
Chlorimuron-ethyl	: 10	: 1.1	: 0.01	: 0.02	: 114
Clethodim	: 4	: 1.0	: 0.12	: 0.12	: 381
Clomazone	: *	: 1.0	: 0.62	: 0.62	: 431
Cloransulam-methyl	: 4	: 1.0	: 0.02	: 0.02	: 59
Dimethenamid	: *	: 1.0	: 0.95	: 0.95	: 321
Ethalfuralin	: *	: 1.0	: 0.83	: 0.83	: 192
Fenoxaprop-P-ethyl	: 4	: 1.0	: 0.11	: 0.11	: 364
Fluazifop-P-butyl	: 5	: 1.0	: 0.04	: 0.04	: 152
Flumetsulam	: 2	: 1.0	: 0.05	: 0.05	: 60
Flumiclorac-Pentyl	: *	: 1.0	: 0.02	: 0.02	: 5
Fomesafen	: 7	: 1.0	: 0.19	: 0.19	: 911
Glyphosate	: 62	: 1.3	: 0.68	: 0.95	: 41,847
Imazamox	: 6	: 1.0	: 0.03	: 0.03	: 123
Imazaquin	: 4	: 1.0	: 0.09	: 0.09	: 221
Imazethapyr	: 12	: 1.0	: 0.05	: 0.05	: 438
Lactofen	: 2	: 1.0	: 0.08	: 0.08	: 104
Linuron	: *	: 1.0	: 0.40	: 0.40	: 30
Metolachlor	: 2	: 1.0	: 1.69	: 1.70	: 1,916
Metribuzin	: 4	: 1.0	: 0.22	: 0.23	: 582
Paraquat	: *	: 1.0	: 0.36	: 0.36	: 82
Pendimethalin	: 11	: 1.0	: 0.95	: 0.97	: 7,512
Quizalofop-ethyl	: *	: 1.0	: 0.05	: 0.05	: 27
S-Metolachlor	: *	: 1.2	: 1.24	: 1.54	: 1,071
Sethoxydim	: 2	: 1.0	: 0.24	: 0.24	: 384
Sulfentrazone	: 4	: 1.0	: 0.15	: 0.15	: 449
Sulfosate	: 4	: 1.2	: 0.92	: 1.19	: 2,987
Thifensulfuron	: 6	: 1.0	: 0.003	: 0.003	: 11
Trifluralin	: 14	: 1.0	: 0.90	: 0.90	: 9,291
Insecticides:	:	:	:	:	:
Chlorpyrifos	: *	: 1.2	: 0.43	: 0.52	: 12
Esfenvalerate	: *	: 1.0	: 0.03	: 0.03	: 7
Lambda-cyhalothrin	: *	: 1.0	: 0.02	: 0.02	: 4
Methyl parathion	: *	: 1.1	: 0.48	: 0.56	: 168
Permethrin	: *	: 1.0	: 0.08	: 0.08	: 3
Spinosad	: *	: 1.0	: 0.04	: 0.04	: 5
Thiodicarb	: *	: 1.0	: 0.47	: 0.47	: 29

* Area applied is less than one percent.

1/ Planted acres in 2000 for the 18 states surveyed were 71.0 million acres. States included are AR, IL, IN, IA, KS, KY, LA, MI, MN, MS, MO, NE, NC, ND, OH, SD, TN and WI.

Soybeans: Agricultural Chemical Applications,
Arkansas, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Acifluorfen	: 10	1.0	0.20	0.22	75
Bentazon	: 6	1.1	0.54	0.63	124
Chlorimuron-ethyl	: 6	1.0	0.01	0.01	2
Clethodim	: 4	1.0	0.18	0.18	26
Glyphosate	: 63	1.5	0.59	0.94	1,984
Imazaquin	: 5	1.0	0.07	0.07	12
Trifluralin	: 8	1.0	1.09	1.15	321

1/ Planted acres in 2000 for Arkansas were 3.35 million acres.

Soybeans: Agricultural Chemical Applications,
Illinois, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 11	1.0	0.43	0.43	508
Acifluorfen	: 3	1.0	0.13	0.13	46
Bentazon	: 3	1.0	0.51	0.51	139
Chlorimuron-ethyl	: 18	1.0	0.01	0.01	22
Clethodim	: 8	1.0	0.09	0.09	80
Cloransulam-methyl	: 7	1.0	0.02	0.02	13
Fenoxaprop-P-ethyl	: 4	1.0	0.15	0.15	63
Fluazifop-P-butyl	: 4	1.0	0.05	0.05	21
Fomesafen	: 8	1.0	0.23	0.23	199
Glyphosate	: 55	1.3	0.66	0.91	5,266
Imazamox	: 13	1.0	0.03	0.03	46
Imazaquin	: 4	1.0	0.10	0.10	40
Imazethapyr	: 13	1.0	0.06	0.06	76
Lactofen	: 4	1.0	0.08	0.08	33
Metribuzin	: 6	1.0	0.13	0.13	88
Pendimethalin	: 18	1.0	1.11	1.14	2,158
Sethoxydim	: 4	1.0	0.20	0.20	80
Sulfentrazone	: 10	1.0	0.13	0.13	139
Sulfosate	: 1	1.6	1.10	1.78	268
Thifensulfuron	: 9	1.0	0.002	0.002	2
Trifluralin	: 8	1.0	0.86	0.86	755

1/ Planted acres in 2000 for Illinois were 10.5 million acres.

Soybeans: Agricultural Chemical Applications,
Indiana, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 14	1.0	0.46	0.46	373
Chlorimuron-ethyl	: 19	1.1	0.01	0.01	12
Clethodim	: 5	1.0	0.10	0.10	32
Cloransulam-methyl	: 5	1.0	0.01	0.01	3
Fenoxaprop-P-ethyl	: 10	1.0	0.16	0.16	88
Fluazifop-P-butyl	: 10	1.0	0.05	0.05	29
Fomesafen	: 6	1.0	0.14	0.14	45
Glyphosate	: 71	1.4	0.66	0.97	3,894
Imazamox	: 5	1.0	0.02	0.02	6
Imazaquin	: 2	1.0	0.10	0.10	14
Imazethapyr	: 9	1.0	0.04	0.04	20
Metolachlor	: 2	1.0	1.20	1.20	154
Metribuzin	: 6	1.0	0.12	0.12	42
Pendimethalin	: 5	1.0	0.85	0.86	235
Sulfentrazone	: 5	1.0	0.16	0.16	42
Sulfosate	: 4	1.3	1.15	1.49	321
Thifensulfuron	: 19	1.0	0.002	0.002	2

1/ Planted acres in 2000 for Indiana were 5.65 million acres.

Soybeans: Agricultural Chemical Applications,
Iowa, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 4	1.0	0.39	0.39	161
Chlorimuron-ethyl	: 6	1.1	0.007	0.007	5
Clethodim	: 1	1.0	0.08	0.08	11
Clomazone	: 2	1.0	0.90	0.90	149
Cloransulam-methyl	: 8	1.0	0.02	0.02	18
Fenoxaprop-P-ethyl	: 11	1.0	0.09	0.09	108
Fluazifop-P-butyl	: 11	1.0	0.03	0.03	38
Fomesafen	: 10	1.0	0.21	0.22	240
Glyphosate	: 55	1.3	0.68	0.93	5,441
Imazamox	: 6	1.0	0.02	0.02	14
Imazethapyr	: 19	1.0	0.06	0.06	113
Lactofen	: 4	1.0	0.05	0.05	21
Pendimethalin	: 11	1.0	0.98	0.98	1,108
Sethoxydim	: 2	1.0	0.27	0.27	58
Sulfentrazone	: 4	1.0	0.16	0.17	72
Sulfosate	: 5	1.1	1.05	1.15	610
Thifensulfuron	: 7	1.0	0.002	0.002	1
Trifluralin	: 41	1.0	0.93	0.93	4,087

1/ Planted acres in 2000 for Iowa were 10.7 million acres.

Soybeans: Agricultural Chemical Applications,
Kansas, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:	:	:	:	:
Chlorimuron-ethyl	: 8	1.0	0.007	0.007	2
Glyphosate	: 77	1.2	0.73	0.87	1,977
Imazaquin	: 5	1.0	0.11	0.11	16
Imazethapyr	: 6	1.0	0.05	0.05	9
Pendimethalin	: 10	1.0	1.03	1.03	304
Trifluralin	: 8	1.0	1.11	1.11	279

1/ Planted acres in 2000 for Kansas were 2.95 million acres.

Soybeans: Agricultural Chemical Applications,
Kentucky, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:	:	:	:	:
Chlorimuron-ethyl	: 28	1.0	0.05	0.05	17
Fenoxaprop-P-ethyl	: 33	1.0	0.09	0.09	37
Fluazifop-P-butyl	: 33	1.0	0.03	0.03	13
Fomesafen	: 16	1.0	0.28	0.28	54
Glyphosate	: 40	1.1	0.70	0.80	381
Imazaquin	: 3	1.0	0.11	0.11	4
Pendimethalin	: 11	1.0	0.64	0.64	85
Sulfosate	: 14	1.0	0.98	1.06	180

1/ Planted acres in 2000 for Kentucky were 1.20 million acres.

Soybeans: Agricultural Chemical Applications,
Louisiana, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : :Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Acifluorfen	: 4	1.0	0.20	0.22	8
Bentazon	: 2	1.1	0.29	0.33	7
Chlorimuron-ethyl	: 19	1.4	0.01	0.02	3
Clethodim	: 3	1.0	0.13	0.13	3
Clomazone	: 2	1.0	0.65	0.65	13
Fluazifop-P-butyl	: 3	1.4	0.06	0.09	2
Glyphosate	: 76	1.6	0.67	1.11	787
Imazaquin	: 20	1.0	0.05	0.05	9
Metolachlor	: 3	1.0	1.64	1.64	47
Metribuzin	: 2	1.0	0.26	0.26	5
Sulfentrazone	: 9	1.0	0.14	0.14	12
Sulfosate	: 3	1.1	1.62	1.90	46
	:				
Insecticides:	:				
Lambda-cyhalothrin	: 11	1.0	0.02	0.02	2
Spinosad	: 5	1.0	0.04	0.04	2
Thiodicarb	: 6	1.0	0.47	0.47	28

1/ Planted acres in 2000 for Louisiana were 930,000 acres.

Soybeans: Agricultural Chemical Applications,
Michigan, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : :Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Cloransulam-methyl	: 1	1.0	0.03	0.03	1
Glyphosate	: 76	1.2	0.77	0.98	1,562
Imazamox	: 1	1.0	0.03	0.03	1
Imazaquin	: 3	1.0	0.05	0.05	3
Imazethapyr	: 13	1.0	0.05	0.05	15
Pendimethalin	: 13	1.0	0.71	0.71	196

1/ Planted acres in 2000 for Michigan were 2.10 million acres.

Soybeans: Agricultural Chemical Applications,
Minnesota, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : :Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Acifluorfen	: 1	1.0	0.16	0.16	15
Bentazon	: 2	1.3	0.89	1.22	167
Chlorimuron-ethyl	: 2	1.0	0.005	0.005	1
Fenoxaprop-P-ethyl	: 5	1.0	0.08	0.08	30
Fluazifop-P-butyl	: 5	1.0	0.03	0.03	12
Fomesafen	: 17	1.0	0.15	0.15	186
Glyphosate	: 60	1.4	0.67	0.94	4,126
Imazamox	: 9	1.0	0.03	0.03	19
Imazethapyr	: 15	1.0	0.04	0.04	42
Lactofen	: 2	1.0	0.05	0.05	6
Pendimethalin	: 8	1.0	1.04	1.04	623
Sethoxydim	: *	1.6	0.28	0.46	24
Thifensulfuron	: 3	1.0	0.003	0.003	1
Trifluralin	: 17	1.0	0.81	0.81	1,027

* Area applied is less than one percent.

1/ Planted acres in 2000 for Minnesota were 7.30 million acres.

Soybeans: Agricultural Chemical Applications,
Mississippi, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : :Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 5	1.0	0.69	0.69	55
Acifluorfen	: 7	1.0	0.22	0.22	28
Bentazon	: 3	1.0	0.28	0.28	13
Chlorimuron-ethyl	: 7	1.0	0.01	0.01	2
Clethodim	: 21	1.0	0.17	0.18	66
Clomazone	: 2	1.0	0.39	0.39	12
Cloransulam-methyl	: 5	1.0	0.02	0.02	1
Flumetsulam	: 7	1.0	0.04	0.04	5
Glyphosate	: 63	1.7	0.69	1.22	1,313
Imazaquin	: 12	1.0	0.08	0.08	17
Metolachlor	: 5	1.0	1.41	1.41	116
Metribuzin	: 9	1.0	0.29	0.29	45
Pendimethalin	: 11	1.0	0.55	0.59	108
Sethoxydim	: 4	1.0	0.23	0.23	15
Trifluralin	: 19	1.0	0.88	0.88	278

1/ Planted acres in 2000 for Mississippi were 1.70 million acres.

Soybeans: Agricultural Chemical Applications,
Missouri, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : :Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Chlorimuron-ethyl	: 25	1.4	0.02	0.02	32
Cloransulam-methyl	: 5	1.0	0.01	0.01	3
Fluazifop-P-butyl	: 3	1.0	0.04	0.04	6
Fomesafen	: 7	1.0	0.17	0.17	63
Glyphosate	: 66	1.3	0.73	0.97	3,309
Imazaquin	: 10	1.0	0.11	0.11	56
Imazethapyr	: 5	1.0	0.08	0.08	20
Lactofen	: 4	1.0	0.10	0.10	22
Pendimethalin	: 14	1.0	0.97	0.97	718
Sulfentrazone	: 11	1.0	0.19	0.19	114
Sulfosate	: 6	1.6	0.34	0.55	160
Trifluralin	: 6	1.0	1.01	1.01	299

1/ Planted acres in 2000 for Missouri were 5.15 million acres.

Soybeans: Agricultural Chemical Applications,
Nebraska, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : :Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Alachlor	: 6	1.0	1.38	1.38	381
Chlorimuron-ethyl	: 3	1.0	0.004	0.004	1
Cloransulam-methyl	: 3	1.0	0.03	0.03	3
Flumetsulam	: 3	1.0	0.04	0.04	5
Glyphosate	: 72	1.2	0.75	0.91	3,049
Imazethapyr	: 22	1.0	0.06	0.06	56
Metolachlor	: 3	1.0	0.89	0.89	107
Metribuzin	: 7	1.1	0.34	0.38	117
Pendimethalin	: 22	1.0	1.04	1.04	1,061
Sulfosate	: 3	1.0	0.98	0.98	158
Trifluralin	: 14	1.0	0.77	0.77	492

1/ Planted acres in 2000 for Nebraska were 4.65 million acres.

Soybeans: Agricultural Chemical Applications,
North Carolina, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Glyphosate	: 74	1.1	0.68	0.79	818
Pendimethalin	: 5	1.0	0.63	0.63	48

1/ Planted acres in 2000 for North Carolina were 1.40 million acres.

Soybeans: Agricultural Chemical Applications,
North Dakota, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Bentazon	: 15	1.0	0.84	0.89	259
Ethalfluralin	: 11	1.0	0.92	0.92	192
Fomesafen	: 14	1.0	0.19	0.19	50
Glyphosate	: 22	1.6	0.60	0.99	415
Imazamox	: 24	1.0	0.03	0.03	15
Imazethapyr	: 38	1.0	0.04	0.04	31
Pendimethalin	: 12	1.0	0.88	0.88	209
Sethoxydim	: 8	1.0	0.31	0.32	47
Trifluralin	: 48	1.0	0.87	0.87	795

1/ Planted acres in 2000 for North Dakota were 1.90 million acres.

Soybeans: Agricultural Chemical Applications,
Ohio, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 10	1.0	0.40	0.40	173
Chlorimuron-ethyl	: 12	1.3	0.02	0.02	11
Clethodim	: 7	1.0	0.11	0.11	33
Cloransulam-methyl	: 6	1.0	0.01	0.01	4
Flumetsulam	: 5	1.0	0.05	0.05	12
Glyphosate	: 65	1.4	0.66	0.92	2,690
Imazamox	: 5	1.0	0.03	0.03	5
Imazaquin	: 9	1.0	0.09	0.09	33
Imazethapyr	: 3	1.0	0.04	0.04	6
Metolachlor	: 2	1.0	1.95	1.95	185
Metribuzin	: 6	1.0	0.26	0.26	66
Pendimethalin	: 3	1.2	0.46	0.58	65
Sulfentrazone	: 8	1.0	0.12	0.12	44
Sulfosate	: 9	1.0	0.94	0.94	390
Thifensulfuron	: 7	1.3	0.002	0.003	1

1/ Planted acres in 2000 for Ohio were 4.45 million acres.

Soybeans: Agricultural Chemical Applications,
South Dakota, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Bentazon	: 6	1.0	1.33	1.33	346
Clethodim	: 4	1.0	0.10	0.10	16
Glyphosate	: 67	1.5	0.65	1.02	3,028
Imazamox	: 4	1.0	0.02	0.02	4
Imazethapyr	: 23	1.0	0.04	0.04	39
Pendimethalin	: 8	1.2	0.53	0.67	227
Sethoxydim	: 5	1.0	0.37	0.37	80
Sulfosate	: 4	1.0	0.90	0.98	175
Trifluralin	: 21	1.0	0.93	0.93	845

1/ Planted acres in 2000 for South Dakota were 4.40 million acres.

Soybeans: Agricultural Chemical Applications,
Tennessee, 2000 1/

Agricultural Chemical	: Area : Applied	: Appli- : cations	: Rate per : Application	: Rate per : Crop Year	: Total : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Acifluorfen	: 2	1.0	0.23	0.23	4
Bentazon	: 3	1.0	0.49	0.49	17
Chlorimuron-ethyl	: 17	1.3	0.01	0.01	2
Clethodim	: 13	1.0	0.12	0.13	19
Fluazifop-P-butyl	: 6	1.0	0.11	0.11	7
Fomesafen	: 5	1.0	0.25	0.25	15
Glyphosate	: 85	1.4	0.71	1.04	1,048
Paraquat	: 1	1.0	0.44	0.44	7
Pendimethalin	: 3	1.0	0.76	0.76	27
Trifluralin	: 5	1.0	1.11	1.11	68

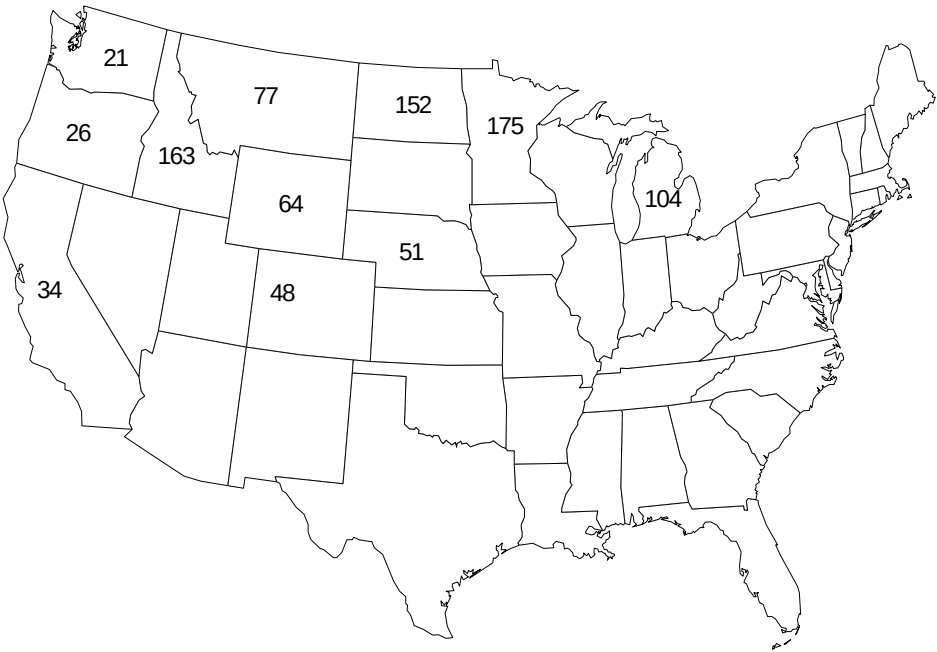
1/ Planted acres in 2000 for Tennessee were 1.18 million acres.

Soybeans: Agricultural Chemical Applications,
Wisconsin, 2000 1/

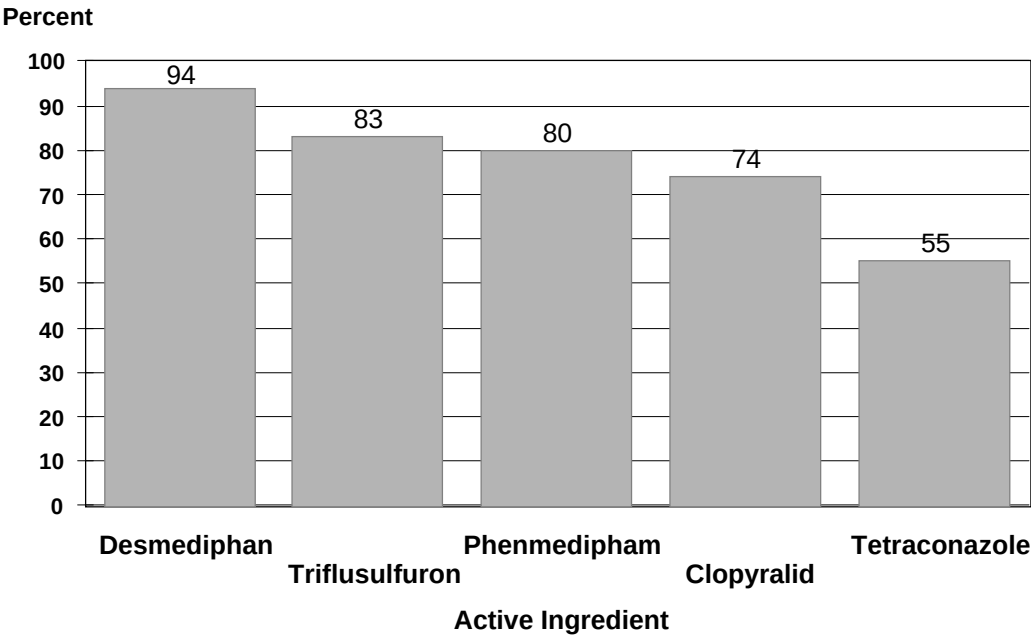
Agricultural Chemical	: Area : Applied	: Appli- : cations	: Rate per : Application	: Rate per : Crop Year	: Total : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 4	1.0	0.19	0.19	10
Cloransulam-methyl	: 7	1.0	0.02	0.02	2
Dimethenamid	: 2	1.0	0.87	0.87	23
Glyphosate	: 58	1.1	0.75	0.87	759
Imazamox	: 13	1.0	0.03	0.03	7
Imazethapyr	: 11	1.0	0.06	0.06	10
Pendimethalin	: 17	1.0	0.89	0.89	223

1/ Planted acres in 2000 for Wisconsin were 1.50 million acres.

Sugarbeets: Number of Usable Reports, 2000



Sugarbeets: Percent of Acres Treated
Top 5 Active Ingredients for 2000



Surveyed states are CA, CO, ID, MI, MN, MT, NE, ND, OR, WA, and WY

Sugarbeets: Fertilizer Use by State, 2000
Percent of Acres Treated and Total Amount Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied					
		Nitrogen		:	Phosphate		Potash
	1,000 Acres	Percent	Mil. Lbs		Percent	Mil. Lbs	Percent Mil. Lbs
CA	98	99	12.0		90	7.0	19 0.9
CO	72	98	6.3		79	2.8	38 0.7
ID	212	97	30.2		86	20.3	43 7.3
MI	189	100	25.7		98	11.7	95 31.5
MN	490	100	40.6		97	30.0	54 11.0
MT	61	100	8.9		99	5.5	66 1.7
NE	78	95	9.5		88	3.3	29 0.3
ND	258	94	17.4		92	12.7	38 2.8
OR	16	100	2.3		79	1.0	23 0.3
WA	28	99	2.3		77	1.4	55 1.0
WY	61	97	11.0		97	5.7	42 1.3
Total	1,563	98	166.2		92	101.4	50 58.8

Sugarbeets: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000

Primary Nutrient	: Planted : Acreage	: Area : Applied	: Appli- : cations	: Rate per : Application	: Rate per : Crop Year	: Total : Applied
	1,000 Acres	Percent	Number	Pounds per Acre		Mil. Lbs
California:	98					
Nitrogen		99	1.8	67	124	12.0
Phosphate		90	1.0	80	80	7.0
Potash		19	1.0	48	48	0.9
Colorado:	72					
Nitrogen		98	1.4	62	90	6.3
Phosphate		79	1.0	50	50	2.8
Potash		38	1.0	25	25	0.7
Idaho:	212					
Nitrogen		97	1.9	74	147	30.2
Phosphate		86	1.2	88	111	20.3
Potash		43	1.0	78	81	7.3
Michigan:	189					
Nitrogen		100	2.2	60	136	25.7
Phosphate		98	1.0	61	63	11.7
Potash		95	1.3	126	175	31.5
Minnesota:	490					
Nitrogen		100	1.2	66	83	40.6
Phosphate		97	1.1	56	64	30.0
Potash		54	1.0	40	41	11.0

--continued

Sugarbeets: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000 (continued)

Primary Nutrient	: Planted : : Acreage :	Area : : Applied :	Appli- : : cations :	Rate per : : Application :	Rate per : : Crop Year :	Total : : Applied
	: 1,000 : Acres	Percent	Number	Pounds per Acre		Mil. Lbs
Montana:	61					
Nitrogen		100	1.5	94	146	8.9
Phosphate		99	1.0	86	92	5.5
Potash		66	1.0	38	42	1.7
Nebraska:	78					
Nitrogen		95	1.8	69	128	9.5
Phosphate		88	1.0	47	48	3.3
Potash		29	1.0	14	14	0.3
North Dakota:	258					
Nitrogen		94	1.2	60	72	17.4
Phosphate		92	1.0	49	54	12.7
Potash		38	1.0	29	29	2.8
Oregon:	16					
Nitrogen		100	1.5	93	141	2.3
Phosphate		79	1.1	69	76	1.0
Potash		23	1.2	56	72	0.3
Washington:	28					
Nitrogen		99	1.6	50	83	2.3
Phosphate		77	1.0	66	66	1.4
Potash		55	1.1	60	66	1.0
Wyoming:	61					
Nitrogen		97	1.9	95	186	11.0
Phosphate		97	1.2	80	97	5.7
Potash		42	1.2	41	49	1.3
Total:	1,563					
Nitrogen		98	1.5	68	109	166.2
Phosphate		92	1.1	64	70	101.4
Potash		50	1.1	67	75	58.8

Sugarbeets: Active Ingredients Applied and Publication Status
By States Surveyed, 2000

	States Surveyed												
Active Ingredient	ALL	:	CA	:	CO	:	ID	:	MI	:	MN	:	MT
Herbicides	:	:	:	:	:	:	:	:	:	:	:	:	:
2,4-D	:	*	:	:	:	:	:	:	:	:	*	:	:
Clethodim	:	P	:	P	:	P	:	*	:	*	:	P	:
Clopyralid	:	P	:	*	:	P	:	P	:	P	:	P	:
Cycloate	:	P	:	:	:	P	:	P	:	P	:	*	:
Desmedipham	:	P	:	P	:	P	:	P	:	P	:	P	:
Dimethenamid	:	*	:	:	:	:	:	:	:	:	:	:	:
EPTC	:	P	:	*	:	*	:	P	:	:	:	*	:
Ethofumesate	:	P	:	P	:	P	:	P	:	P	:	P	:
Glyphosate	:	P	:	P	:	*	:	P	:	*	:	P	:
Metolachlor	:	*	:	:	:	:	:	:	:	:	:	:	:
Paraquat	:	*	:	:	:	:	:	:	:	:	:	:	:
Phenmedipham	:	P	:	P	:	P	:	P	:	P	:	P	:
Pyrazon	:	P	:	*	:	:	:	*	:	P	:	:	:
Quizalofop-ethyl	:	P	:	:	:	P	:	P	:	P	:	P	:
Rimsulfuron	:	*	:	:	:	:	:	:	:	:	:	:	:
Sethoxydim	:	P	:	P	:	*	:	P	:	*	:	P	:
Trifluralin	:	P	:	P	:	*	:	P	:	:	:	P	:
Triflusulfuron methyl	:	P	:	P	:	P	:	P	:	P	:	P	:
Insecticides	:	:	:	:	:	:	:	:	:	:	:	:	:
Aldicarb	:	P	:	*	:	*	:	P	:	:	:	:	:
Bt (Bacillus thur.)	:	P	:	*	:	:	:	:	:	:	*	:	:
Carbaryl	:	*	:	*	:	*	:	:	:	:	:	:	:
Carbofuran	:	*	:	:	:	:	:	*	:	:	:	:	:
Chlorpyrifos	:	P	:	P	:	*	:	P	:	*	:	P	:
Diazinon	:	P	:	*	:	*	:	*	:	*	:	:	:
Esfenvalerate	:	P	:	P	:	*	:	P	:	*	:	*	:
Malathion	:	*	:	*	:	:	:	:	:	:	:	:	:
Methomyl	:	P	:	P	:	:	:	:	:	:	:	:	:
Methyl parathion	:	*	:	:	:	:	:	*	:	:	:	:	:
Naled	:	*	:	*	:	:	:	:	:	:	:	:	:
Oxydemeton-methyl	:	*	:	:	:	:	:	:	:	:	:	:	:
Phorate	:	P	:	*	:	*	:	*	:	:	:	:	:
Piperonyl butoxide	:	*	:	*	:	:	:	:	:	:	:	:	:
Pyrethrins	:	*	:	*	:	:	:	:	:	:	:	:	:
Terbufos	:	P	:	:	:	P	:	P	:	*	:	P	:

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P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Sugarbeets: Active Ingredient Publication Status
By States Surveyed, 2000 (continued)

Active Ingredient	States Surveyed				
	ND	NE	OR	WA	WY
Herbicides	:	:	:	:	:
2,4-D	:	:	:	:	:
Clethodim	:	P	P	P	P
Clopyralid	:	P	P	*	P
Cycloate	:	*	P	*	P
Desmedipham	:	P	P	P	P
Dimethenamid	:	:	:	*	:
EPTC	:	:	*	P	P
Ethofumesate	:	P	P	P	P
Glyphosate	:	P	*	P	*
Metolachlor	:	:	:	*	:
Paraquat	:	*	:	:	:
Phenmedipham	:	P	P	P	P
Pyrazon	:	:	:	:	:
Quizalofop-ethyl	:	P	*	P	*
Rimsulfuron	:	:	:	*	:
Sethoxydim	:	P	P	*	*
Trifluralin	:	*	*	P	*
Triflusulfuron methyl	:	P	P	P	P
Insecticides	:	:	:	:	:
Aldicarb	:	:	*	P	*
Bt (Bacillus thur.)	:	*	:	:	P
Carbaryl	:	:	:	:	:
Carbofuran	:	:	*	:	:
Chlorpyrifos	:	P	*	P	*
Diazinon	:	:	:	:	:
Esfenvalerate	:	P	*	P	*
Malathion	:	:	:	:	:
Methomyl	:	:	:	:	:
Methyl parathion	:	:	:	:	:
Naled	:	:	:	:	:
Oxydemeton-methyl	:	:	*	:	:
Phorate	:	P	*	*	*
Piperonyl butoxide	:	:	:	:	:
Pyrethrins	:	:	:	:	:
Terbufos	:	P	P	*	P

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Sugarbeets: Active Ingredients Applied and Publication Status
By States Surveyed, 2000

Active Ingredient	States Surveyed						
	ALL	:	CA	:	CO	:	ID : MI : MN : MT
Fungicides	:	:	:	:	:	:	:
Azoxystrobin	P	:	:	:	*	:	*
Benomyl	P	:	:	*	:	P	P
Mancozeb	P	:	*	:	:	P	P
Maneb	P	:	:	:	:	*	*
Mefenoxam	*	:	:	:	*	*	*
Sulfur	P	:	P	P	P	*	*
Tetraconazole	P	:	:	P	:	P	P
Thiophanate-methyl	P	:	:	*	:	*	P
Triadimefon	*	:	*	:	*	:	:
Triphenyltin hydrox.	P	:	:	*	*	P	P
Other Chemicals	:	:	:	:	:	:	:
Dichloropropene	P	:	:	:	*	:	*
Endothall	P	:	*	:	:	*	*
Gibberellic acid	*	:	:	:	:	:	:
Indole-3-butyric acid	*	:	:	:	:	:	:
Metam-sodium	*	:	:	:	*	:	:

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P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Sugarbeets: Active Ingredient Publication Status
By States Surveyed, 2000 (continued)

Active Ingredient	States Surveyed				
	ND	NE	OR	WA	WY
Fungicides	:				
Azoxystrobin	:	*			
Benomyl	:	*			
Mancozeb	:	P		*	
Maneb	:	*			
Mefenoxam	:				
Sulfur	:		*	P	*
Tetraconazole	:	P	*		*
Thiophanate-methyl	:	P	*		
Triadimefon	:		*		
Triphenyltin hydroxi	:	P	*	*	
Other Chemicals	:				
Dichloropropene	:		*	*	P
Endothall	:	*			
Gibberellic acid	:	*			
Indole-3-butyric acid:	:	*			
Metam-sodium	:				

P Usage data are published for this active ingredient.
* Usage data are not published for this active ingredient.

Sugarbeets: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
States Surveyed and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide	Insecticide 1/	Fungicide 3/	Other Chemicals3/				
	1,000 Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA 2/	98	87	90	79	187	72	5,588		
CO	72	98	42	29	19	56	32		
ID	212	100	333	95	368	41	1,932	4	987
MI 2/	189	99	140	12	11	86	75		
MN 2/	490	100	358	60	492	95	301		
MT 2/	61	100	55	89	77	61	13		
NE 2/	78	98	69	51	51	22	7		
ND 2/	258	100	169	81	416	96	153		
OR 2/	16	100	23	75	18	33	35		
WA 2/	28	97	64	19	5				
WY 2/	61	87	43	79	97			16	976
Total	1,563	98	1,386	63	1,741	72	8,141	3	2,748

1/ Total Applied excludes Bt's (*Bacillus thuringiensis*). Quantities are not available because amounts of active ingredient are not comparable between products.

2/ Insufficient reports to publish data for one or more of the pesticide classes.

3/ Insufficient reports to publish data for one or more of the States surveyed.

Sugarbeets: Agricultural Chemical Applications,
States Surveyed, 2000 1/

Agricultural Chemical	Area Applied	Appli- cations	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Clethodim	46	2.5	0.04	0.11	77
Clopyralid	74	2.8	0.03	0.09	102
Cycloate	5	1.0	1.84	1.84	139
Desmedipham	94	2.8	0.07	0.18	270
EPTC	6	1.0	2.61	2.64	230
Ethofumesate	37	2.1	0.06	0.14	82
Glyphosate	13	1.1	0.39	0.43	86
Phenmedipham	80	2.6	0.05	0.14	170
Pyrazon	6	1.0	0.82	0.85	76
Quizalofop-ethyl	10	1.6	0.04	0.06	9
Sethoxydim	11	1.7	0.19	0.33	56
Trifluralin	5	1.0	0.65	0.66	55
Triflusalifuron	83	2.7	0.008	0.02	29
Insecticides:					
Aldicarb	7	1.0	1.84	1.87	198
Bt(Bacillus thu./2:	*	1.0			
Carbofuran	*	1.0	0.54	0.54	4
Chlorpyrifos	12	1.2	0.92	1.11	204
Diazinon	2	2.4	0.73	1.78	67
Esfenvalerate	5	1.9	0.02	0.05	3
Methomyl	2	1.1	0.46	0.52	17
Phorate	2	1.0	1.31	1.31	45
Terbufos	41	1.0	1.81	1.82	1,168
Fungicides:					
Azoxystrobin	*	1.0	0.12	0.12	**
Benomyl	4	1.0	0.24	0.25	15
Mancozeb	4	1.0	1.44	1.53	99
Maneb	1	1.2	1.29	1.64	32
Sulfur	11	1.8	25.13	45.70	7,595
Tetraconazole	55	1.6	0.10	0.16	136
Thiophanate-methyl:	6	1.1	0.23	0.26	25
Triadimefon	*	1.0	0.23	0.24	1
Triphenyltin hydr.:	44	1.4	0.23	0.34	238
Other Chemicals:					
Dichloropropene	1	1.0	107.48	107.48	2,348
Endothall	*	1.4	0.27	0.38	4
Metam-sodium	*	1.0	80.56	80.56	396

* Area applied is less than one percent.

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for the 11 states surveyed were 1.56 million acres. States included are CA, CO, ID, MI, MN, MT, NE, ND, OR, WA and WY.

2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Sugarbeets: Agricultural Chemical Applications,
California, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	: Number	: Pounds per Acre		: 1,000 lbs
Herbicides:	:	:	:	:	:
Clethodim	: 7	: 1.0	: 0.08	: 0.09	: **
Desmedipham	: 69	: 1.5	: 0.11	: 0.17	: 11
Ethofumesate	: 6	: 1.2	: 0.44	: 0.53	: 3
Glyphosate	: 15	: 1.0	: 0.60	: 0.60	: 9
Phenmedipham	: 69	: 1.5	: 0.11	: 0.17	: 11
Sethoxydim	: 51	: 1.5	: 0.33	: 0.51	: 25
Trifluralin	: 9	: 1.0	: 0.72	: 0.72	: 7
Triflusalufuron methyl	: 26	: 1.1	: 0.01	: 0.01	: **
Insecticides:	:	:	:	:	:
Chlorpyrifos	: 65	: 1.2	: 0.88	: 1.07	: 69
Esfenvalerate	: 7	: 1.0	: 0.04	: 0.04	: **
Methomyl	: 33	: 1.1	: 0.47	: 0.53	: 17
Fungicides:	:	:	:	:	:
Sulfur	: 71	: 2.3	: 33.73	: 80.29	: 5,588

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for California were 98,000 acres.

Sugarbeets: Agricultural Chemical Applications,
Colorado, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	: Number	: Pounds per Acre		: 1,000 lbs
Herbicides:	:	:	:	:	:
Clethodim	: 36	: 1.0	: 0.02	: 0.02	: 1
Clopyralid	: 46	: 1.2	: 0.05	: 0.07	: 2
Cycloate	: 8	: 1.0	: 1.31	: 1.31	: 7
Desmedipham	: 83	: 1.2	: 0.05	: 0.06	: 3
Ethofumesate	: 65	: 1.0	: 0.13	: 0.14	: 7
Phenmedipham	: 83	: 1.2	: 0.05	: 0.06	: 3
Quizalofop-ethyl	: 12	: 1.0	: 0.05	: 0.05	: **
Triflusalufuron methyl	: 80	: 1.2	: 0.009	: 0.01	: **
Insecticides:	:	:	:	:	:
Terbufos	: 15	: 1.0	: 1.32	: 1.42	: 15
Fungicides:	:	:	:	:	:
Sulfur	: 7	: 1.1	: 4.69	: 5.56	: 29
Tetraconazole	: 24	: 1.0	: 0.09	: 0.09	: 2

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for Colorado were 71,500 acres.

Sugarbeets: Agricultural Chemical Applications,
Idaho, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	: Number	: Pounds per Acre		: 1,000 lbs
Herbicides:	:	:	:	:	:
Clopyralid	: 62	: 2.2	: 0.03	: 0.07	: 9
Cycloate	: 13	: 1.0	: 2.39	: 2.39	: 65
Desmedipham	: 100	: 2.9	: 0.04	: 0.13	: 28
EPTC	: 20	: 1.0	: 2.93	: 2.93	: 125
Ethofumesate	: 94	: 2.7	: 0.05	: 0.12	: 25
Glyphosate	: 24	: 1.0	: 0.39	: 0.40	: 20
Phenmedipham	: 100	: 2.9	: 0.04	: 0.13	: 28
Quizalofop-ethyl	: 23	: 2.0	: 0.03	: 0.07	: 3
Sethoxydim	: 13	: 1.0	: 0.24	: 0.26	: 7
Trifluralin	: 9	: 1.0	: 0.50	: 0.50	: 10
Triflusulfuron methyl	: 84	: 2.6	: 0.02	: 0.04	: 7
Insecticides:	:	:	:	:	:
Aldicarb	: 38	: 1.0	: 1.96	: 1.97	: 157
Chlorpyrifos	: 5	: 1.0	: 0.79	: 0.85	: 10
Esfenvalerate	: 12	: 3.3	: 0.02	: 0.06	: 2
Terbufos	: 42	: 1.0	: 1.93	: 1.94	: 173
Fungicides:	:	:	:	:	:
Sulfur	: 39	: 1.4	: 16.17	: 23.23	: 1,931

1/ Planted acres in 2000 for Idaho were 212,000 acres.

Sugarbeets: Agricultural Chemical Applications,
Michigan, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Clopyralid	: 78	2.5	0.03	0.07	10
Cycloate	: 3	1.0	3.03	3.03	16
Desmedipham	: 92	2.0	0.06	0.12	21
Ethofumesate	: 14	1.5	0.08	0.13	3
Phenmedipham	: 90	2.0	0.06	0.11	19
Pyrazon	: 35	1.0	0.97	0.99	66
Quizalofop-ethyl	: 12	1.3	0.05	0.07	2
Triflusalufuron	: 87	2.0	0.01	0.01	2
Fungicides:	:				
Benomyl	: 11	1.0	0.25	0.25	5
Mancozeb	: 10	1.0	1.44	1.57	30
Tetraconazole	: 82	1.2	0.10	0.12	18
Triphenyltin hydrox.	: 23	1.2	0.22	0.27	12

1/ Planted acres in 2000 for Michigan were 189,000 acres.

Sugarbeets: Agricultural Chemical Applications,
Minnesota, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Clethodim	: 75	2.6	0.04	0.10	38
Clopyralid	: 95	3.2	0.03	0.10	46
Desmedipham	: 100	3.3	0.07	0.25	121
Ethofumesate	: 20	2.1	0.04	0.08	8
Glyphosate	: 4	1.0	0.50	0.50	10
Phenmedipham	: 70	3.0	0.05	0.15	52
Quizalofop-ethyl	: 9	1.4	0.04	0.06	3
Sethoxydim	: 16	1.7	0.16	0.28	21
Trifluralin	: 6	1.0	0.84	0.84	23
Triflusalufuron methyl	: 94	3.3	0.007	0.02	10
Insecticides:	:				
Chlorpyrifos	: 9	1.2	0.98	1.22	53
Terbufos	: 51	1.0	1.75	1.75	439
Fungicides:	:				
Mancozeb	: 6	1.0	1.46	1.57	50
Tetraconazole	: 90	1.9	0.10	0.19	84
Thiophanate-methyl	: 10	1.1	0.24	0.29	14
Triphenyltin hydrox.	: 84	1.6	0.23	0.37	150

1/ Planted acres in 2000 for Minnesota were 490,000 acres.

Sugarbeets: Agricultural Chemical Applications,
Montana, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Clethodim	: 65	2.6	0.04	0.12	5
Clopyralid	: 92	2.5	0.03	0.08	5
Desmedipham	: 99	2.7	0.05	0.15	9
Ethofumesate	: 41	2.3	0.07	0.17	4
Glyphosate	: 67	1.0	0.42	0.42	17
Phenmedipham	: 97	2.7	0.05	0.13	8
Quizalofop-ethyl	: 5	2.0	0.02	0.04	**
Triflusalufuron methyl	: 91	2.6	0.01	0.03	2
Insecticides:	:				
Aldicarb	: 9	1.2	1.51	1.94	10
Chlorpyrifos	: 27	1.0	0.53	0.53	9
Esfenvalerate	: 28	1.7	0.02	0.04	1
Terbufos	: 61	1.0	1.50	1.54	57
Fungicides:	:				
Benomyl	: 49	1.0	0.24	0.26	8
Tetraconazole	: 21	1.2	0.08	0.09	1
Triphenyltin hydrox.	: 28	1.0	0.22	0.23	4

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for Montana were 60,700 acres.

Sugarbeets: Agricultural Chemical Applications,
Nebraska, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Clethodim	: 41	1.0	0.09	0.09	3
Clopyralid	: 66	1.8	0.04	0.08	4
Cycloate	: 17	1.0	1.72	1.72	23
Desmedipham	: 90	2.0	0.08	0.15	11
Ethofumesate	: 70	1.2	0.18	0.22	12
Phenmedipham	: 86	2.0	0.07	0.15	10
Sethoxydim	: 3	1.0	0.16	0.16	**
Triflusalufuron methyl	: 70	2.0	0.01	0.02	1
Insecticides:	:				
Terbufos	: 46	1.0	1.30	1.34	48

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for Nebraska were 78,200 acres.

Sugarbeets: Agricultural Chemical Applications,
North Dakota, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	: Number	: Pounds per Acre		: 1,000 lbs
Herbicides:	:	:	:	:	:
Clethodim	: 83	: 2.9	: 0.04	: 0.11	: 24
Clopyralid	: 85	: 3.1	: 0.03	: 0.10	: 22
Desmedipham	: 98	: 3.3	: 0.06	: 0.21	: 54
Ethofumesate	: 32	: 2.5	: 0.05	: 0.12	: 10
Glyphosate	: 9	: 1.0	: 0.64	: 0.67	: 16
Phenmedipham	: 75	: 3.0	: 0.05	: 0.14	: 28
Quizalofop-ethyl	: 8	: 1.4	: 0.04	: 0.06	: 1
Sethoxydim	: 4	: 3.4	: 0.06	: 0.21	: 2
Triflusalufuron methyl	: 87	: 3.2	: 0.006	: 0.02	: 4
Insecticides:	:	:	:	:	:
Chlorpyrifos	: 13	: 1.3	: 1.25	: 1.68	: 56
Esfenvalerate	: 3	: 1.7	: 0.04	: 0.07	: **
Phorate	: 4	: 1.0	: 1.03	: 1.03	: 9
Terbufos	: 69	: 1.0	: 1.97	: 1.97	: 351
Fungicides:	:	:	:	:	:
Mancozeb	: 5	: 1.0	: 1.31	: 1.33	: 18
Tetraconazole	: 85	: 1.4	: 0.09	: 0.13	: 30
Thiophanate-methyl	: 10	: 1.0	: 0.29	: 0.29	: 7
Triphenyltin hydrox.	: 83	: 1.3	: 0.24	: 0.32	: 69

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for North Dakota were 258,000 acres.

Sugarbeets: Agricultural Chemical Applications,
Oregon, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	: Number	: Pounds per Acre		: 1,000 lbs
Herbicides:	:	:	:	:	:
Clopyralid	: 58	: 2.6	: 0.03	: 0.09	: 1
Desmedipham	: 89	: 2.8	: 0.05	: 0.15	: 2
EPTC	: 15	: 1.3	: 2.75	: 3.79	: 9
Ethofumesate	: 31	: 2.9	: 0.07	: 0.20	: 1
Glyphosate	: 39	: 1.0	: 0.45	: 0.45	: 3
Phenmedipham	: 89	: 2.8	: 0.05	: 0.15	: 2
Quizalofop-ethyl	: 10	: 1.0	: 0.07	: 0.07	: **
Trifluralin	: 27	: 1.0	: 0.55	: 0.55	: 2
Triflusalufuron methyl	: 88	: 2.6	: 0.01	: 0.03	: **
Insecticides:	:	:	:	:	:
Aldicarb	: 29	: 1.0	: 1.58	: 1.58	: 7
Chlorpyrifos	: 26	: 1.0	: 0.79	: 0.79	: 3
Esfenvalerate	: 26	: 1.0	: 0.03	: 0.03	: **
Fungicides:	:	:	:	:	:
Sulfur	: 23	: 1.0	: 8.36	: 8.96	: 34

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for Oregon were 16,200 acres.

Sugarbeets: Agricultural Chemical Applications,
Washington, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Clethodim	: 41	1.9	0.12	0.24	3
Cycloate	: 32	1.0	1.57	1.57	14
Desmedipham	: 83	2.6	0.08	0.21	5
EPTC	: 38	1.0	2.11	2.11	22
Ethofumesate	: 57	1.5	0.17	0.28	5
Phenmedipham	: 83	2.6	0.07	0.20	5
Triflusalufuron methyl:	80	2.4	0.01	0.03	1

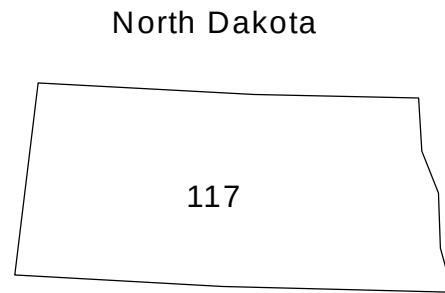
1/ Planted acres in 2000 for Washington were 28,400 acres.

Sugarbeets: Agricultural Chemical Applications,
Wyoming, 2000 1/

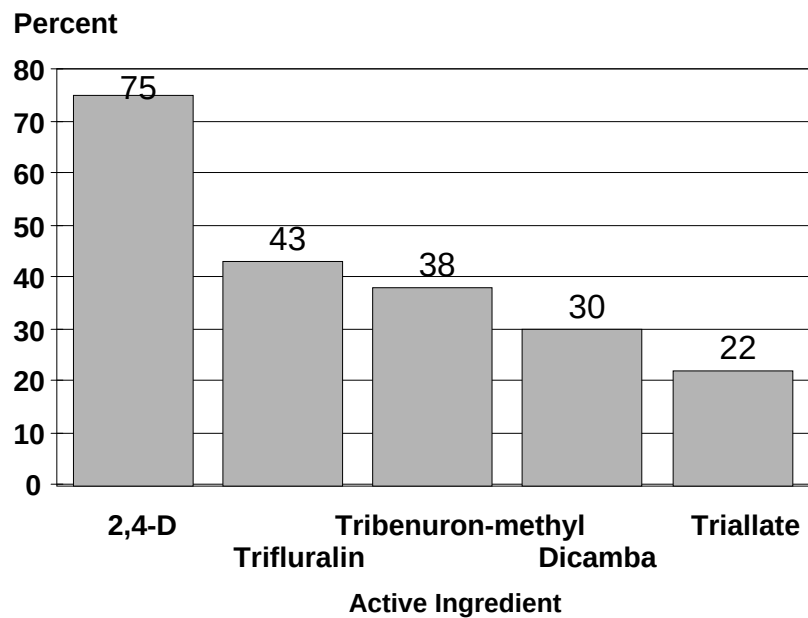
Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Clethodim	: 35	1.7	0.06	0.11	2
Clopyralid	: 71	2.1	0.03	0.07	3
Cycloate	: 15	1.0	0.78	0.79	7
Desmedipham	: 86	2.1	0.05	0.10	5
EPTC	: 12	1.0	2.15	2.15	15
Ethofumesate	: 37	1.1	0.15	0.17	4
Phenmedipham	: 78	2.2	0.04	0.09	4
Triflusalufuron methyl:	79	2.1	0.009	0.02	1
Insecticides:	:				
Aldicarb	: 13	1.0	1.98	1.98	15
Terbufos	: 62	1.0	1.96	2.07	78
Other Chemicals:	:				
Dichloropropene	: 16	1.0	99.79	99.79	976

1/ Planted acres in 2000 for Wyoming were 61,000 acres.

Durum Wheat: Number of Usable Reports, 2000



Durum Wheat: Percent of Acres Treated Top 5 Active Ingredients for 2000 North Dakota



Durum Wheat: Fertilizer Use for North Dakota, 2000
Percent of Acres Treated and Total Amount Applied

State		Planted Acreage	Percent of Acres and Total Applied					
			Nitrogen		:	Phosphate		:
	:	1,000	Percent	Mil. Lbs	Percent	Mil. Lbs	Percent	Mil. Lbs
ND	:	3,250	86	173.8	66	47.6	5	2.1

Durum Wheat: Fertilizer Primary Nutrient Applications,
North Dakota, 2000

Primary Nutrient	: Planted : : Acreage :	Area : Applied :	Appli- : cations :	Rate per : Application :	Rate per : Crop Year :	Total Applied
	: 1,000 : Acres	Percent	Number	Pounds per Acre		Mil. Lbs
North Dakota	: 3,250					
Nitrogen	:	86	1.7	36	62	173.8
Phosphate	:	66	1.0	22	22	47.6
Potash	:	5	1.0	14	14	2.1

Durum Wheat: Active Ingredient Publication Status
North Dakota, 2000

Active Ingredient		: ND
Herbicides:		
2,4-D	:	P
2,4-D, Dimethylamine	:	*
Bromoxynil	:	P
Clodinafop-propargil	:	*
Clopyralid	:	*
Dicamba	:	P
Dicamba, Dimet. salt	:	*
Fenoxaprop-P-ethyl	:	P
Fluroxypyr	:	*
Glyphosate	:	P
MCPA	:	P
Metsulfuron-methyl	:	*
Thifensulfuron	:	*
Tralkoxydim	:	*
Triallate	:	P
Triasulfuron	:	*
Tribenuron-methyl	:	P
Trifluralin	:	P
	:	
Insecticides		
Chlorpyrifos	:	*
	:	
Fungicides		
Propiconazole	:	*
Tebuconazole	:	*

P Usage data are published for this active ingredient.
* Usage data are not published for this active ingredient.

Durum Wheat: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
North Dakota, 2000

State	Planted Acreage	Area Receiving and Total Applied			
		Herbicide	: Insecticide	: Fungicide	: Other Chemicals
	: 1,000	: Percent 1,000	Percent 1,000	Percent 1,000	Percent 1,000
	: Acres	: Lbs	Lbs	Lbs	Lbs
	:	:	:	:	:
ND 2/	: 3,250	97	2,807		

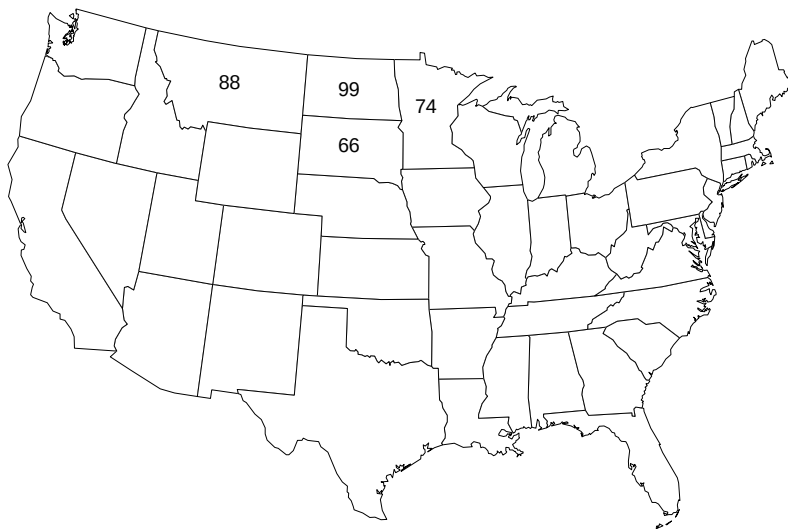
2/ Insufficient reports to publish data for one or more of the pesticide classes.

Durum Wheat: Agricultural Chemical Applications,
North Dakota, 2000 1/

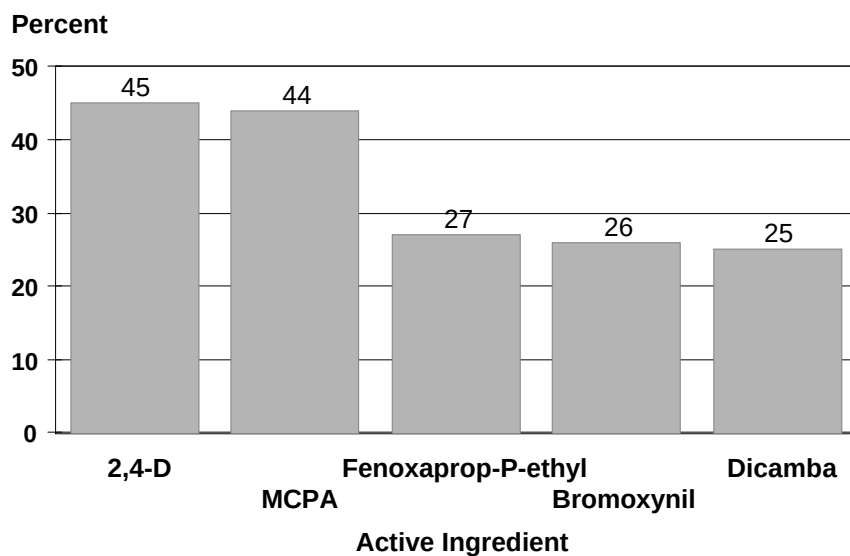
Agricultural Chemical	: Area : Applied	: Appli- : cations	: Rate per : Application	: Rate per : Crop Year	: Total : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
	:				
Herbicides:	:				
2,4-D	: 75	1.0	0.36	0.38	912
Bromoxynil	: 3	1.0	0.22	0.22	21
Dicamba	: 30	1.0	0.05	0.05	52
Fenoxaprop-P-ethyl	: 11	1.0	0.04	0.04	16
Glyphosate	: 20	1.0	0.54	0.57	372
MCPA	: 20	1.0	0.32	0.32	210
Triallate	: 22	1.0	0.87	0.87	628
Tribenuron-methyl	: 38	1.0	0.006	0.006	7
Trifluralin	: 43	1.0	0.37	0.37	519

1/ Planted acres in 2000 for North Dakota were 3.25 million acres.

Other Spring Wheat: Number of Usable Reports, 2000



Other Spring Wheat: Percent of Acres Treated Top 5 Active Ingredients for 2000



Surveyed states are MN, MT, ND, and SD

Other Spring Wheat: Fertilizer Use by State, 2000
Percent of Acres Treated and Total Amount Applied

State	Planted Acreage	Percent of Acres Treated and Total Applied					
		Nitrogen		:	Phosphate		Potash
	1,000 Acres	Percent	Mil. Lbs		Percent	Mil. Lbs	Percent Mil. Lbs
MN	2,000	94	169.8		85	51.8	73 29.3
MT	3,350	90	167.6		84	75.5	36 15.6
ND	6,800	97	501.8		83	170.1	12 13.3
SD	1,650	95	98.1		83	36.7	12 2.8
Total	13,800	95	937.3		84	334.1	27 61.0

Other Spring Wheat: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000

Primary Nutrient	: Planted : Acreage	: Area : Applied	: Appli- : cations	: Rate per : Application	: Rate per : Crop Year	: Total : Applied
	1,000 Acres	Percent	Number	Pounds per Acre		Mil. Lbs
Minnesota:	2,000					
Nitrogen		94	1.1	76	90	169.8
Phosphate		85	1.0	30	30	51.8
Potash		73	1.0	20	20	29.3
Montana:	3,350					
Nitrogen		90	1.7	32	56	167.6
Phosphate		84	1.1	24	27	75.5
Potash		36	1.0	12	13	15.6
North Dakota:	6,800					
Nitrogen		97	1.6	46	76	501.8
Phosphate		83	1.0	30	30	170.1
Potash		12	1.0	16	16	13.3
South Dakota:	1,650					
Nitrogen		95	1.4	42	63	98.1
Phosphate		83	1.0	26	27	36.7
Potash		12	1.0	14	14	2.8
Total:	13,800					
Nitrogen		95	1.5	45	72	937.3
Phosphate		84	1.0	28	29	334.1
Potash		27	1.0	16	17	61.0

Other Spring Wheat: Active Ingredient Publication Status
By States Surveyed, 2000

Active Ingredient	States Surveyed								
	ALL	:	MN	:	MT	:	ND	:	SD
Herbicides	:	:	:	:	:	:	:	:	:
2,4-D	P	:	P	:	P	:	P	:	P
2,4-D, Dimethylamine	*	:	:	:	*	:	:	:	:
Bromoxynil	P	:	P	:	P	:	P	:	P
Chlorsulfuron	*	:	:	:	*	:	:	:	*
Clodinafop-propargil	*	:	*	:	*	:	:	:	:
Clopyralid	P	:	P	:	:	:	P	:	P
Dicamba	P	:	P	:	P	:	P	:	P
Fenoxaprop-P-ethyl	P	:	P	:	*	:	P	:	*
Fluroxypyr	P	:	*	:	*	:	P	:	:
Glyphosate	P	:	*	:	P	:	P	:	*
Imazamethabenz	P	:	:	:	*	:	*	:	:
MCPA	P	:	P	:	P	:	P	:	P
Metsulfuron-methyl	P	:	:	:	P	:	:	:	P
Picloram	P	:	:	:	*	:	*	:	*
Prosulfuron	*	:	:	:	*	:	:	:	*
Thifensulfuron	P	:	P	:	*	:	*	:	P
Tralkoxydim	P	:	*	:	*	:	P	:	:
Triallate	P	:	:	:	P	:	*	:	*
Triasulfuron	P	:	:	:	P	:	:	:	:
Tribenuron-methyl	P	:	P	:	P	:	P	:	P
Trifluralin	P	:	*	:	*	:	P	:	:
Insecticides	:	:	:	:	:	:	:	:	:
Chlorpyrifos	*	:	*	:	:	:	*	:	:
Methyl parathion	*	:	*	:	:	:	:	:	:
Fungicides	:	:	:	:	:	:	:	:	:
Propiconazole	*	:	*	:	:	:	:	:	:
Tebuconazole	P	:	*	:	:	:	*	:	:

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Other Spring Wheat: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
States Surveyed and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied				
		Herbicide	:	Insecticide 3/:	Fungicide 3/:	Other Chemicals
	: 1,000 : Acres	Percent 1,000 : Lbs		Percent 1,000 : Lbs	Percent 1,000 : Lbs	Percent 1,000 : Lbs
MN 2/:	2,000	92		1,845		
MT :	3,350	92		2,955		
ND 2/:	6,800	97		4,205		
SD :	1,650	93		619		
Total:	13,800	95		9,624	2	49
					15	149

2/ Insufficient reports to publish data for one or more of the pesticide classes.

3/ Insufficient reports to publish data for one or more of the States surveyed.

Other Spring Wheat: Agricultural Chemical Applications,
States Surveyed, 2000 1/

Agricultural Chemical	:	Area Applied	:	Appli- cations	:	Rate per Application	:	Rate per Crop Year	:	Total Applied
	:	Percent	:	Number	:	Pounds per Acre	:		:	1,000 lbs
Herbicides:	:		:		:		:		:	
2,4-D	:	45	:	1.0	:	0.33	:	0.35	:	2,137
Bromoxynil	:	26	:	1.0	:	0.24	:	0.24	:	871
Clopyralid	:	14	:	1.0	:	0.10	:	0.10	:	179
Dicamba	:	25	:	1.2	:	0.09	:	0.11	:	383
Fenoxaprop-P-ethyl	:	27	:	1.0	:	0.08	:	0.08	:	302
Fluroxypyr	:	3	:	1.0	:	0.15	:	0.15	:	62
Glyphosate	:	20	:	1.5	:	0.41	:	0.62	:	1,707
Imazamethabenz	:	1	:	1.0	:	0.37	:	0.37	:	69
MCPA	:	44	:	1.0	:	0.34	:	0.34	:	2,072
Metsulfuron-methyl	:	3	:	1.0	:	0.004	:	0.004	:	1
Picloram	:	2	:	1.0	:	0.01	:	0.01	:	3
Thifensulfuron	:	4	:	1.0	:	0.01	:	0.01	:	7
Tralkoxydim	:	7	:	1.0	:	0.19	:	0.19	:	189
Triallate	:	9	:	1.0	:	1.08	:	1.08	:	1,301
Triasulfuron	:	9	:	1.0	:	0.02	:	0.02	:	21
Tribenuron-methyl	:	15	:	1.0	:	0.01	:	0.01	:	23
Trifluralin	:	6	:	1.0	:	0.34	:	0.34	:	287
Fungicides:	:		:		:		:		:	
Tebuconazole	:	9	:	1.0	:	0.06	:	0.06	:	72

1/ Planted acres in 2000 for the 4 states surveyed were 13.8 million acres.
States included are MN, MT, ND and SD.

Other Spring Wheat: Agricultural Chemical Applications,
Minnesota, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 11	1.0	0.35	0.35	78
Bromoxynil	: 25	1.0	0.24	0.24	119
Clopyralid	: 45	1.0	0.10	0.10	90
Dicamba	: 3	1.0	0.10	0.10	6
Fenoxaprop-P-ethyl	: 28	1.0	0.06	0.06	36
MCPA	: 75	1.0	0.45	0.45	676
Thifensulfuron	: 7	1.0	0.01	0.01	2
Tribenuron-methyl	: 7	1.0	0.006	0.006	**

** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for Minnesota were 2.00 million acres.

Other Spring Wheat: Agricultural Chemical Applications,
Montana, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 63	1.1	0.34	0.40	845
Bromoxynil	: 8	1.0	0.23	0.23	63
Dicamba	: 38	1.7	0.11	0.19	245
Glyphosate	: 42	1.9	0.29	0.57	807
MCPA	: 13	1.0	0.26	0.26	114
Metsulfuron-methyl	: 6	1.0	0.006	0.006	1
Triallate	: 21	1.0	1.14	1.14	782
Triasulfuron	: 39	1.0	0.02	0.02	21
Tribenuron-methyl	: 4	1.0	0.009	0.009	1

1/ Planted acres in 2000 for Montana were 3.35 million acres.

Other Spring Wheat: Agricultural Chemical Applications,
North Dakota, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 43	1.0	0.32	0.32	938
Bromoxynil	: 40	1.0	0.24	0.24	652
Clopyralid	: 11	1.0	0.09	0.09	73
Dicamba	: 21	1.0	0.06	0.06	86
Fenoxaprop-P-ethyl	: 40	1.0	0.09	0.09	238
Fluroxypyr	: 6	1.0	0.15	0.15	61
Glyphosate	: 5	1.1	0.53	0.58	182
MCPA	: 53	1.0	0.31	0.31	1,130
Tralkoxydim	: 3	1.0	0.17	0.17	36
Tribenuron-methyl	: 25	1.0	0.01	0.01	20
Trifluralin	: 11	1.0	0.34	0.34	248

1/ Planted acres in 2000 for North Dakota were 6.80 million acres.

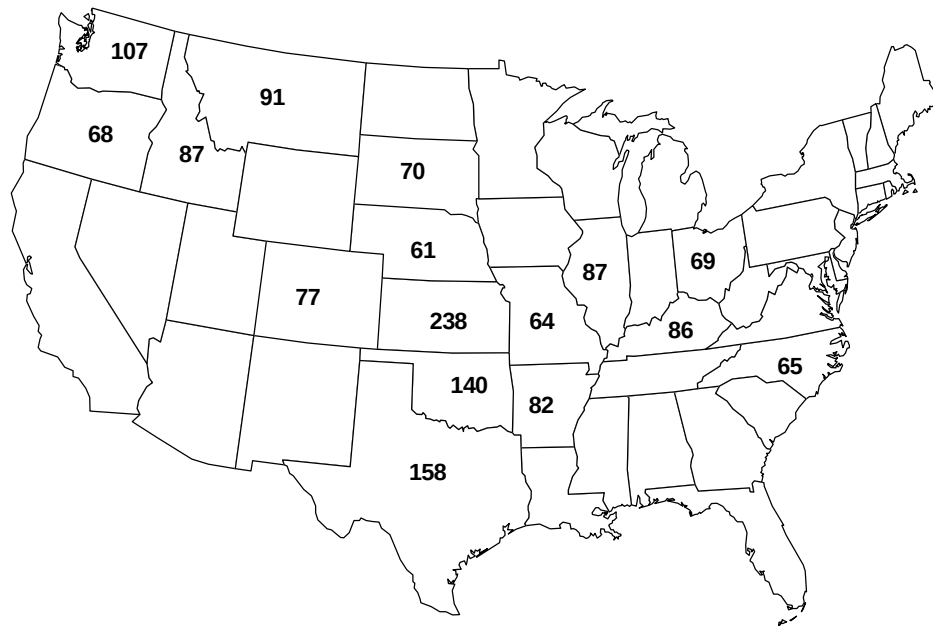
Other Spring Wheat: Agricultural Chemical Applications,
South Dakota, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 56	1.0	0.30	0.30	276
Bromoxynil	: 8	1.0	0.27	0.27	37
Clopyralid	: 12	1.0	0.08	0.08	16
Dicamba	: 42	1.0	0.07	0.07	46
MCPA	: 30	1.0	0.31	0.31	152
Metsulfuron-methyl	: 10	1.0	0.003	0.003	**
Thifensulfuron	: 11	1.0	0.009	0.009	2
Tribenuron-methyl	: 11	1.0	0.005	0.005	1

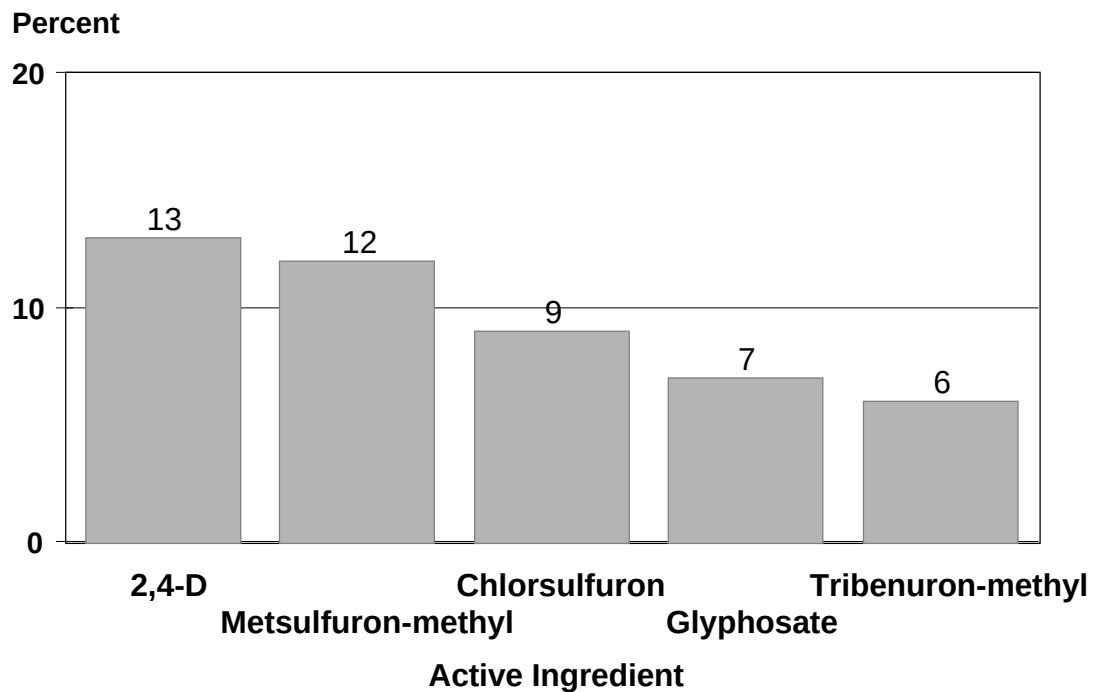
** Total applied is less than 1,000 lbs.

1/ Planted acres in 2000 for South Dakota were 1.65 million acres.

Winter Wheat: Number of Usable Reports, 2000



Winter Wheat: Percent of Acres Treated Top 5 Active Ingredients for 2000



Surveyed states are AR, CO, ID, IL, KS, KY, MO, MT, NE, NC, OH, OK, OR, SD, TX, and WA

Winter Wheat: Fertilizer Use by State, 2000
Percent of Acres Treated and Total Amount Applied

State		Planted Acreage	Percent of Acre Treated and Total Applied					
			Nitrogen		:	Phosphate		:
	:	1,000 Acres	Percent	Mil. Lbs	Percent	Mil. Lbs	Percent	Mil. Lbs
AR	:	1,180	92	110.1	28	12.3	28	16.0
CO 1/	:	2,500	87	85.2	14	5.6		
ID	:	780	90	75.5	54	12.1	13	2.7
IL	:	950	98	80.1	82	55.5	78	65.7
KS	:	9,800	94	522.9	65	178.7	6	11.2
KY	:	670	80	52.0	62	25.9	60	29.2
MO	:	1,050	96	86.8	76	39.9	84	59.1
MT	:	1,500	82	74.2	77	34.0	43	8.2
NE 1/	:	1,750	90	76.5	68	31.5		
NC	:	720	88	78.3	48	15.8	56	30.9
OH	:	1,120	94	107.0	81	64.1	82	74.0
OK	:	6,100	97	393.3	62	148.4	5	8.3
OR	:	750	99	46.1	11	1.8	7	1.4
SD	:	1,350	91	60.8	61	26.6	12	1.3
TX	:	6,000	55	280.2	35	79.7	14	32.0
WA	:	1,850	100	111.7	30	10.2	6	1.3
Total	:	38,070	87	2,240.7	54	742.1	17	342.3

1/ Insufficient reports to publish data for one or more of the fertilizer primary nutrients.

Winter Wheat: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000

Primary Nutrient	: Planted : Acreage	: Area : Applied	: Appli- : cations	: Rate per : Application	: Rate per : Crop Year	: Total : Applied
	1,000 Acres	Percent	Number	Pounds per Acre		Mil. Lbs
Arkansas:	1,180					
Nitrogen		92	1.6	63	101	110.1
Phosphate		28	1.0	38	38	12.3
Potash		28	1.0	49	49	16.0
Colorado:	2,500					
Nitrogen		87	1.2	32	39	85.2
Phosphate		14	1.0	16	16	5.6
Potash 1/						
Idaho:	780					
Nitrogen		90	1.8	58	108	75.5
Phosphate		54	1.0	27	29	12.1
Potash		13	1.0	24	27	2.7
Illinois:	950					
Nitrogen		98	1.7	49	86	80.1
Phosphate		82	1.0	68	71	55.5
Potash		78	1.0	87	88	65.7

--continued

Winter Wheat: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000 (continued)

Primary Nutrient	: Planted : : Acreage :	Area : : Applied :	: Appli- : : cations :	: Rate per : : Application :	: Rate per : : Crop Year :	: Total : : Applied
	: 1,000 : Acres	Percent	Number	Pounds per Acre		Mil. Lbs
Kansas:	9,800					
Nitrogen		94	1.5	37	57	522.9
Phosphate		65	1.0	28	28	178.7
Potash		6	1.0	18	18	11.2
Kentucky:	670					
Nitrogen		80	1.6	60	97	52.0
Phosphate		62	1.0	61	62	25.9
Potash		60	1.0	72	72	29.2
Missouri:	1,050					
Nitrogen		96	1.7	51	86	86.8
Phosphate		76	1.0	49	50	39.9
Potash		84	1.0	66	67	59.1
Montana:	1,500					
Nitrogen		82	1.5	38	60	74.2
Phosphate		77	1.0	30	30	34.0
Potash		43	1.0	13	13	8.2
Nebraska:	1,750					
Nitrogen		90	1.4	32	49	76.5
Phosphate		68	1.0	26	26	31.5
Potash 1/						
North Carolina:	720					
Nitrogen		88	1.4	84	124	78.3
Phosphate		48	1.0	45	46	15.8
Potash		56	1.0	75	76	30.9
Ohio:	1,120					
Nitrogen		94	1.9	51	102	107.0
Phosphate		81	1.0	66	70	64.1
Potash		82	1.0	80	81	74.0
Oklahoma:	6,100					
Nitrogen		97	1.6	41	67	393.3
Phosphate		62	1.0	39	39	148.4
Potash		5	1.0	24	26	8.3
Oregon:	750					
Nitrogen		99	1.3	48	62	46.1
Phosphate		11	1.0	21	22	1.8
Potash		7	1.0	26	26	1.4

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Winter Wheat: Fertilizer Primary Nutrient Applications,
States Surveyed and Total, 2000 (continued)

Primary Nutrient	: Planted : : Acreage :	Area : : Applied :	Appli- : : cations :	Rate per : : Application :	Rate per : : Crop Year :	Total : : Applied
	: 1,000 : Acres	Percent	Number	Pounds per Acre		Mil. Lbs
South Dakota:	1,350					
Nitrogen		91	1.4	35	50	60.8
Phosphate		61	1.0	30	32	26.6
Potash		12	1.0	8	8	1.3
Texas:	6,000					
Nitrogen		55	1.4	57	84	280.2
Phosphate		35	1.1	33	38	79.7
Potash		14	1.3	28	39	32.0
Washington:	1,850					
Nitrogen		100	1.3	46	60	111.7
Phosphate		30	1.1	16	19	10.2
Potash		6	1.0	12	13	1.3
Total:	38,070					
Nitrogen		87	1.5	44	67	2,240.7
Phosphate		54	1.0	35	36	742.1
Potash		17	1.0	49	52	342.3

1/ Insufficient reports to publish data for one or more of the fertilizer primary nutrients.

Winter Wheat: Active Ingredient Publication Status
By States Surveyed, 2000

Active Ingredient	States Surveyed																
	ALL	:	AR	:	CO	:	ID	:	IL	:	KS	:	KY	:	MO	:	MT
Herbicides	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
2,4-D	P	:	P	:	P	:	P	:	*	:	P	:	*	:	*	:	P
2,4-D, Dimethylamine	*	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
2-(2,4-DP),Dimethyla	*	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Acetamide	*	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Acetic acid	*	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Atrazine	*	:	:	:	*	:	:	:	:	:	:	:	:	:	:	:	:
Bromoxynil	P	:	*	:	:	:	P	:	:	:	:	:	:	:	:	:	*
Carfentrazone-ethyl	P	:	:	:	:	:	*	:	:	:	:	:	:	:	:	:	:
Chlorsulfuron	P	:	:	:	*	:	P	:	:	:	P	:	:	:	:	:	*
Clopyralid	*	:	:	:	:	:	*	:	:	:	:	:	:	:	:	:	*
Dicamba	P	:	:	:	P	:	P	:	:	:	P	:	:	:	:	:	P
Diclofop-methyl	P	:	P	:	:	:	*	:	:	:	:	:	:	:	:	:	:
Difenzoquat	*	:	*	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Diuron	P	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Fenoxaprop-P-ethyl	P	:	:	:	:	:	*	:	:	:	:	:	:	:	:	:	*
Glyphosate	P	:	*	:	P	:	*	:	:	:	P	:	:	:	:	:	P
Imazamethabenz	P	:	:	:	:	:	*	:	:	:	:	:	:	:	:	:	*
MCPA	P	:	:	:	*	:	P	:	:	:	*	:	:	:	:	:	P
Metribuzin	P	:	:	:	:	:	*	:	:	:	:	:	:	:	*	:	:
Metsulfuron-methyl	P	:	:	:	*	:	P	:	:	:	P	:	:	:	:	:	P
Paraquat	*	:	:	:	:	:	:	:	:	:	:	:	*	:	:	:	:
Picloram	P	:	*	:	:	:	*	:	:	:	*	:	:	:	:	:	P
Prosulfuron	P	:	:	:	:	:	*	:	:	:	:	:	:	:	:	:	:
Quinclorac	*	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Sulfosate	*	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Sulfusulfuron	P	:	:	:	:	:	*	:	:	:	*	:	:	:	:	:	*
Thifensulfuron	P	:	P	:	*	:	P	:	P	:	:	:	P	:	P	:	*
Tralkoxydim	P	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	P
Triallate	P	:	:	:	:	:	*	:	:	:	:	:	:	:	:	:	P
Triasulfuron	P	:	:	:	*	:	*	:	:	:	P	:	:	:	:	:	P
Tribenuron-methyl	P	:	P	:	P	:	P	:	*	:	:	:	P	:	P	:	*
Trifluralin	*	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:

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P Usage data are published for this active ingredient.
* Usage data are not published for this active ingredient.

Winter Wheat: Active Ingredient Publication Status
By States Surveyed, 2000

Active Ingredient	States Surveyed							
	NC	NE	OH	OK	OR	SD	TX	WA
Herbicides	:	:	:	:	:	:	:	:
2,4-D	P	P	P	P	P	P	P	P
2,4-D, Dimethylamine	:	:	:	:	*	:	:	:
2-(2,4-DP), Dimethyla	:	*	:	:	:	:	:	:
Acetamide	:	:	:	:	*	:	:	:
Acetic acid	:	:	:	:	*	:	:	:
Atrazine	:	*	:	:	:	:	:	:
Bromoxynil	:	:	:	:	P	*	:	P
Carfentrazone-ethyl	:	:	:	:	*	:	:	*
Chlorsulfuron	:	*	:	P	P	:	*	P
Clopyralid	:	:	:	:	*	*	:	*
Dicamba	:	*	:	*	P	P	*	P
Diclofop-methyl	:	P	:	:	*	:	:	*
Difenzoquat	:	:	:	:	*	:	:	*
Diuron	:	:	:	:	P	:	:	:
Fenoxaprop-P-ethyl	:	:	:	:	:	:	:	*
Glyphosate	:	*	:	*	P	P	*	P
Imazamethabenz	:	:	:	:	*	:	:	*
MCPA	:	*	:	*	P	P	*	P
Metribuzin	:	:	:	:	P	:	:	P
Metsulfuron-methyl	:	*	P	:	P	P	P	P
Paraquat	:	:	:	:	:	:	:	:
Picloram	:	:	:	:	:	:	*	:
Prosulfuron	:	:	:	:	:	:	:	*
Quinclorac	:	:	:	:	*	:	:	:
Sulfosate	:	*	*	:	:	:	:	:
Sulfusulfuron	:	:	:	P	*	:	:	P
Thifensulfuron	:	P	:	*	P	*	:	P
Tralkoxydim	:	:	:	:	*	:	:	*
Triallate	:	:	:	:	*	:	:	*
Triasulfuron	:	:	P	*	*	*	*	P
Tribenuron-methyl	:	P	:	*	P	*	:	P
Trifluralin	:	:	:	:	*	:	:	:

P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Winter Wheat: Active Ingredient Publication Status
By States Surveyed, 2000

Active Ingredient	ALL	AR	CO	ID	IL	KS	KY	MO	MT
Insecticides	:	:							
Carbofuran	:	*		*		P			*
Chlorpyrifos	:	P		*					
Dimethoate	:	P							
Disulfoton	:	*		*			*		
Lambda-cyhalothrin	:	P					*	*	
Malathion	:	*					*		
Fungicides:	:	:							
Benomyl	:	*							
Metalaxyl	:	*							
Propiconazol	:	P	*				*	*	
Thiophanate-methyl	:	*					*	*	

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P Usage data are published for this active ingredient.

* Usage data are not published for this active ingredient.

Winter Wheat: Active Ingredient Publication Status
By States Surveyed, 2000

Active Ingredient	State Surveyed							
	NC	NE	OH	OK	OR	SD	TX	WA
Insecticides	:							
Carbofuran	:	*						
Chlorpyrifos	:			*			*	
Dimethoate	:			*			*	
Disulfoton	:							
Lambda-cyhalothrin	:	*						
Malathion	:			*				
Fungicides	:							
Benomyl	:				*			
Metalaxyl	:		*					
Propiconazol	:	*			*			*
Thiophanate-methyl	:				*			*

P Usage data are published for this active ingredient.
 * Usage data are not published for this active ingredient.

Winter Wheat: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
States Surveyed and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		: Insecticide		3/: Fungicide		3/:Other Chemicals	
		Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
	: 1,000 : Acres								
AR 2/:	1,180	41	239						
CO 2/:	2,500	23	281						
ID :	780	89	411	4	15				
IL :	950	44	21						
KS :	9,800	31	478	8	395				
KY :	670	51	57	8	15	6	5		
MO 2/:	1,050	51	47			2	4		
MT 2/:	1,500	91	745						
NE 2/:	1,750	26	248						
NC 2/:	720	65	206	19	3				
OH :	1,120	18	53						
OK 2/:	6,100	25	94						
OR :	750	99	550			13	62		
SD :	1,350	56	415						
TX :	6,000	12	441	1	26				
WA 2/:	1,850	95	847						
Total:	38,070	37	5,133	4	548	1	82		

2/ Insufficient reports to publish data for one or more of the pesticide classes.

3/ Insufficient reports to publish data for one or more of the States surveyed.

Winter Wheat: Agricultural Chemical Applications,
States Surveyed, 2000 1/

Agricultural Chemical	: Area Applied	: Appli- cations	: Rate per Application	: Rate per Crop Year	: Total Applied
	: Percent	: Number	: Pounds per Acre		: 1,000 lbs
Herbicides:	:	:	:	:	:
2,4-D	: 13	: 1.0	: 0.40	: 0.43	: 2,075
Bromoxynil	: 1	: 1.0	: 0.23	: 0.23	: 116
Carfentrazone-ethyl	: *	: 1.0	: 0.01	: 0.01	: **
Chlorsulfuron	: 9	: 1.0	: 0.01	: 0.01	: 39
Dicamba	: 4	: 1.2	: 0.09	: 0.11	: 158
Diclofop-methyl	: *	: 1.0	: 0.56	: 0.57	: 170
Diuron	: *	: 1.0	: 1.23	: 1.23	: 18
Fenoxaprop-P-ethyl	: *	: 1.3	: 0.06	: 0.08	: 6
Fluroxypyr	: *	: 1.0	: 0.06	: 0.06	: 19
Glyphosate	: 7	: 1.3	: 0.39	: 0.53	: 1,493
Imazamethabenz	: *	: 1.0	: 0.30	: 0.30	: 20
MCPA	: 3	: 1.0	: 0.36	: 0.36	: 453
Metribuzin	: *	: 1.0	: 0.23	: 0.23	: 77
Metsulfuron-methyl	: 12	: 1.0	: 0.003	: 0.003	: 13
Picloram	: *	: 1.0	: 0.02	: 0.02	: 3
Prosulfuron	: *	: 1.0	: 0.01	: 0.01	: 3
Sulfosulfuron	: 3	: 1.0	: 0.004	: 0.004	: 5
Thifensulfuron	: 6	: 1.0	: 0.02	: 0.02	: 35
Tralkoxydim	: *	: 1.0	: 0.19	: 0.19	: 43
Triallate	: *	: 1.0	: 1.30	: 1.30	: 105
Triasulfuron	: 3	: 1.0	: 0.01	: 0.01	: 15
Tribenuron-methyl	: 6	: 1.0	: 0.008	: 0.008	: 19
Insecticides:	:	:	:	:	:
Chlorpyrifos	: 3	: 1.0	: 0.40	: 0.40	: 505
Dimethoate	: *	: 1.0	: 0.27	: 0.27	: 24
Lambda-cyhalothrin	: *	: 1.0	: 0.02	: 0.02	: 2
Fungicides:	:	:	:	:	:
Propiconazole	: *	: 1.0	: 0.10	: 0.10	: 25

* Area applied is less than one percent.

** Total applied is less than 1,000 lbs.

1/ Harvested acres in 2000 for the 16 states surveyed were 38.1 million acres. States included are AR, CO, ID, IL, KS, KY, MO, MT, NE, NC, OH, OK, OR, SD, TX and WA.

Winter Wheat: Agricultural Chemical Applications,
Arkansas, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 16	1.0	0.50	0.50	94
Diclofop-methyl	: 11	1.0	0.50	0.51	69
Thifensulfuron	: 13	1.0	0.01	0.01	2
Tribenuron-methyl	: 13	1.0	0.006	0.006	**

** Total applied is less than 1,000 lbs.

1/ Harvested acres in 2000 for Arkansas were 1.18 million acres.

Winter Wheat: Agricultural Chemical Applications,
Colorado, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 9	1.0	0.33	0.33	75
Dicamba	: 6	1.6	0.10	0.17	27
Glyphosate	: 6	2.3	0.30	0.69	111
Tribenuron-methyl	: 2	1.1	0.005	0.006	**

** Total applied is less than 1,000 lbs.

1/ Harvested acres in 2000 for Colorado were 2.50 million acres.

Winter Wheat: Agricultural Chemical Applications,
Idaho, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 42	1.0	0.41	0.41	135
Bromoxynil	: 16	1.0	0.26	0.26	32
Chlorsulfuron	: 8	1.0	0.01	0.01	1
Dicamba	: 5	1.0	0.05	0.05	2
MCPA	: 35	1.0	0.37	0.37	98
Metsulfuron-methyl	: 31	1.0	0.006	0.006	1
Thifensulfuron	: 26	1.0	0.01	0.01	2
Tribenuron-methyl	: 36	1.0	0.006	0.006	2

1/ Harvested acres in 2000 for Idaho were 780,000 acres.

Winter Wheat: Agricultural Chemical Applications,
Illinois, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Thifensulfuron	: 42	1.0	0.02	0.02	8

1/ Harvested acres in 2000 for Illinois were 950,000 acres.

Winter Wheat: Agricultural Chemical Applications,
Kansas, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 5	1.0	0.44	0.46	232
Chlorsulfuron	: 21	1.0	0.01	0.01	21
Dicamba	: *	1.0	0.20	0.22	21
Glyphosate	: 4	1.0	0.46	0.50	196
Metsulfuron-methyl	: 16	1.0	0.002	0.002	3
Triasulfuron	: 4	1.0	0.01	0.01	5
Insecticides:	:				
Chlorpyrifos	: 8	1.0	0.50	0.50	395

* Area applied is less than one percent.

1/ Harvested acres in 2000 for Kansas were 9.80 million acres.

Winter Wheat: Agricultural Chemical Applications,
Kentucky, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Thifensulfuron	: 49	1.0	0.02	0.02	5
Tribenuron-methyl	: 49	1.0	0.008	0.008	3

1/ Harvested acres in 2000 for Kentucky were 670,000 acres.

Winter Wheat: Agricultural Chemical Applications,
Missouri, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
Thifensulfuron	: 45	1.0	0.01	0.01	7
Tribenuron-methyl	: 45	1.0	0.007	0.007	3

1/ Harvested acres in 2000 for Missouri were 1.05 million acres.

Winter Wheat: Agricultural Chemical Applications,
Montana, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 58	1.0	0.22	0.23	202
Dicamba	: 36	1.2	0.06	0.08	42
Fluroxypyr	: 20	1.0	0.06	0.06	18
Glyphosate	: 39	1.6	0.35	0.59	346
MCPA	: 6	1.0	0.27	0.27	23
Metsulfuron-methyl	: 24	1.0	0.003	0.003	1
Picloram	: 2	1.0	0.01	0.01	**
Tralkoxydim	: 15	1.0	0.19	0.19	41
Triallate	: 2	1.0	1.34	1.34	46
Triasulfuron	: 29	1.0	0.01	0.01	5

** Total applied is less than 1,000 lbs.

1/ Harvested acres in 2000 for Montana were 1.50 million acres.

Winter Wheat: Agricultural Chemical Applications,
Nebraska, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 12	1.2	0.25	0.32	66
Metsulfuron-methyl	: 16	1.0	0.006	0.006	2
Triasulfuron	: 8	1.0	0.01	0.01	2

1/ Harvested acres in 2000 for Nebraska were 1.75 million acres.

Winter Wheat: Agricultural Chemical Applications,
North Carolina, 2000 1/

Agricultural Chemical	: Area : Applied	: Appli- : cations	: Rate per : Application	: Rate per : Crop Year	: Total : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 10	1.0	0.66	0.66	47
Diclofop-methyl	: 20	1.0	0.58	0.58	82
Thifensulfuron	: 35	1.0	0.02	0.02	5
Tribenuron-methyl	: 35	1.0	0.01	0.01	3

1/ Harvested acres in 2000 for North Carolina were 720,000 acres.

Winter Wheat: Agricultural Chemical Applications,
Ohio, 2000 1/

Agricultural Chemical	: Area : Applied	: Appli- : cations	: Rate per : Application	: Rate per : Crop Year	: Total : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 6	1.0	0.36	0.36	23

1/ Harvested acres in 2000 for Ohio were 1.12 million acres.

Winter Wheat: Agricultural Chemical Applications,
Oklahoma, 2000 1/

Agricultural Chemical	: Area : Applied	: Appli- : cations	: Rate per : Application	: Rate per : Crop Year	: Total : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 3	1.0	0.30	0.30	47
Chlorsulfuron	: 12	1.0	0.01	0.01	7
Metsulfuron-methyl	: 12	1.0	0.002	0.002	1
Sulfosulfuron	: 11	1.0	0.004	0.004	3

1/ Harvested acres in 2000 for Oklahoma were 6.10 million acres.

Winter Wheat: Agricultural Chemical Applications,
Oregon, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 51	1.0	0.63	0.64	244
Bromoxynil	: 4	1.0	0.15	0.15	5
Chlorsulfuron	: 23	1.0	0.01	0.01	2
Dicamba	: 32	1.0	0.05	0.05	12
Diuron	: 2	1.0	1.22	1.22	18
Glyphosate	: 35	1.1	0.36	0.41	110
MCPA	: 31	1.0	0.39	0.39	91
Metribuzin	: 12	1.0	0.23	0.24	21
Metsulfuron-methyl	: 50	1.0	0.004	0.004	2
Thifensulfuron	: 20	1.0	0.01	0.01	2
Tribenuron-methyl	: 21	1.0	0.006	0.006	1

1/ Harvested acres in 2000 for Oregon were 750,000 acres.

Winter Wheat: Agricultural Chemical Applications,
South Dakota, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 26	1.0	0.32	0.32	114
Dicamba	: 15	1.1	0.13	0.15	31
Glyphosate	: 39	1.1	0.40	0.46	244
MCPA	: 4	1.0	0.35	0.35	19
Metsulfuron-methyl	: 20	1.0	0.004	0.004	1

1/ Harvested acres in 2000 for South Dakota were 1.35 million acres.

Winter Wheat: Agricultural Chemical Applications,
Texas, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 9	1.3	0.52	0.67	345
Metsulfuron-methyl	: 1	1.2	0.004	0.005	**

** Total applied is less than 1,000 lbs.

1/ Harvested acres in 2000 for Texas were 6.00 million acres.

Winter Wheat: Agricultural Chemical Applications,
Washington, 2000 1/

Agricultural Chemical	: Area : : Applied	: Appli- : : cations	: Rate per : : Application	: Rate per : : Crop Year	: Total : : Applied
	: Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:	:				
2,4-D	: 40	1.0	0.50	0.51	371
Bromoxynil	: 14	1.0	0.22	0.22	58
Chlorsulfuron	: 13	1.0	0.01	0.01	3
Dicamba	: 3	1.0	0.16	0.16	8
Glyphosate	: 24	1.0	0.39	0.42	186
MCPA	: 24	1.0	0.34	0.34	150
Metribuzin	: 10	1.0	0.23	0.23	42
Metsulfuron-methyl	: 20	1.0	0.003	0.003	1
Sulfosulfuron	: 24	1.0	0.004	0.004	2
Thifensulfuron	: 14	1.0	0.01	0.01	3
Triasulfuron	: 5	1.0	0.007	0.007	1
Tribenuron-methyl	: 13	1.0	0.005	0.005	1

1/ Harvested acres in 2000 for Washington were 1.85 million acres.

Survey Procedures: The data for this report were obtained from the 2000 Agricultural Resources Management Study (ARMS). Data for corn, upland cotton, rice, soybeans, sugarbeets, durum wheat, other spring wheat, and winter wheat were collected during the months of August through December of 2000. Large screening samples were drawn from the NASS List Sampling Frame. This extensive sampling frame covers all types of farms and accounts for approximately 82% of all land in farms in the U.S. The screening samples were selected in such a way as to insure that all farms on the list had a possibility of being selected. Farms that were more likely to be producers of crops of interest were more likely to be in the screening sample. The sampled farms were screened to determine the presence of all the crops of interest. From this subpopulation of operations identified as producing the crop of interest, a subsample of farms was selected in such a way as to insure that each identified producer had an opportunity to be selected. In general, larger farms were more likely to be selected than smaller farms.

Once a farm producing a particular crop of interest was selected, one field containing this crop was randomly selected from all the fields on the farm producing that crop. The operator of the sampled field was personally interviewed to obtain information on chemical applications made to the selected field.

Estimation Procedures: The chemical applications data, reported by product name or trade name, are reviewed within State and across States for reasonableness and consistency. This review compares reported data with manufacturer's recommendations and with data from other farm operators using the same product. Following this review, product information is converted to an active ingredient level. The chemical usage estimates in this publication consist of survey estimates of those active ingredients.

Estimates of the total amount of active ingredient applied are based on the acreage estimates (except cotton) published in the annual NASS report "**Crop Production - 2000 Summary**" [Cr Pr 2-1(01)] for corn, soybeans, sugarbeets, other spring wheat, durum, and winter wheat. The estimates of cotton acreage were revised and published in the monthly NASS report "**Crop Production**" [Cr Pr 2-2(5-01)] released on May 10, 2001.

The estimates for total amount applied will not be revised even if there are subsequent revisions to acreage for a given crop.

Detailed data within a table may not multiply across or add down due to independent rounding of the published values.

Reliability: The surveys were designed so that the estimates are statistically representative of chemical use on the targeted crops in the surveyed states. The reliability of these survey results is affected by sampling variability and non-sampling errors.

The results of this survey are subject to sampling variability. Sampling variability is a measure of how the estimates would differ if other samples had been drawn. The sampling variability expressed as a percent of the estimate is called the coefficient of variation (cv). Sampling variability of the estimates differed considerably by chemical and crop. Variability for estimates of acres treated will be higher than the variability for estimates of application rates. This is because application rates have a narrower range of responses, are recommended by the manufacturer of the product, and are generally followed. In general, the more often the chemical was applied, the smaller the sampling variability. For example, estimates of use of a commonly used product, such as atrazine, will exhibit less variability than a more rarely used product. For more commonly used chemicals, cv's will range from 5-30 percent at the U.S. level and 5-75 percent at the state or regional level. Some rarer items could have cv's above 100 percent. These items have insufficient data for publication and these instances are noted with an asterisk (*).

Non-sampling errors occur during a survey process, and unlike sampling variability, are difficult to measure. They may be caused by interviewers failing to follow instructions, poorly worded questions, non-response, problematic survey procedures, or data handling mistakes between collection and publication. In these surveys, all survey procedures and analyses were carried out in a consistent and orderly manner to minimize the occurrence of these types of errors.

Terms and Definitions

Active ingredient: The active ingredient is the specific chemical which kills or controls the target pests. Usage data are reported by pesticide product and are converted to an amount of active ingredient. A single method of conversion has been chosen for active ingredients having more than one way of being converted. For example in this report, copper compounds are expressed in their metallic copper equivalent, and others such as 2,4-D and glyphosate are expressed in their acid equivalent.

Agricultural chemicals: Refers to the active ingredients in fertilizers and pesticides.

Application Rates: Refer to the average number of pounds of a fertilizer primary nutrient or pesticide active ingredient applied to an acre of land. Rate per acre is the average number of pounds applied in one application. Rate per crop year is the average number of pounds applied counting multiple applications. Number of applications is the average number of times a treated acre receives a specific agricultural chemical.

Area applied: Represents the percentage of crop acres receiving one or more applications of a specific agricultural chemical. This report does not contain acre treatments. However, acre treatments can be calculated by multiplying the acres planted by the percent of area applied and the average number of applications.

Common name: An officially recognized name for an active ingredient. This report shows active ingredient by common name.

Crop year: Refers to the period immediately following harvest for the previous crop through harvest of the current crop.

Fertilizer: Refers to applications of the primary nutrients, nitrogen, phosphate, and potash.

Pesticides: As defined by the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), pesticides include any substance or mixture of substances intended for preventing, destroying, repelling or mitigating any pest, and any substance or mixture of substances intended for use as a plant regulator, defoliant, or desiccant.

The four classes of pesticides presented in this report and the pests targeted are: herbicides - weeds, insecticides - insects, fungicides - fungi, and other chemicals - other forms of life. Miticides and nematocides are included as insecticides while soil fumigants, growth regulators, defoliants, and desiccants are included as other chemicals.

Trade name: A trademark name given to a specific formulation of a pesticide product. A formulation contains a specific concentration of the active ingredient, carrier materials, and other ingredients such as emulsifiers and wetting agents. Some formulations as in the case of pre-mixes, can contain more than one active ingredient.

Trade Name, Common Name, and Pesticide Class

The following is a list of the common name, associated class and trade name of active ingredients in this publication. The classes are herbicides (H), insecticides (I), fungicides (F), and other chemicals (O). This list is provided as an aid in reviewing pesticide data. Pre-mixes are not cataloged. The list is not complete for all pesticides used on field crops and NASS does not mean to imply the use of any specific trade name.

Class	Common Name	Trade Name
H,O	2,4-D	several
H	2,4-D, Dimethylamine Salt	Saber, Trimec
H	2,4-DB	Butoxone, Butyrac
H	2-(2,4-DP), Dimethylamine	Triamine
H	3Pyridinecarboxylic acid	Cadre
I	Abamectin	Agri-Mek, Avid, Zephyr
I	Acephate	Orthene, Payload
H	Acetamide	Axiom
H	Acetic acid	several
H	Acetochlor	Harness, Topnotch
H	Acifluorfen	Blazer, Tackle
H	Alachlor	Lasso
I	Aldicarb	Temik
H	Ametryn	Evik
I	Amitraz	Ovasyn
O	Arsenic acid	Dessicant
H	Atrazine	AAtrex, Atrazine
I	Azadirachtin	Align, Neemix, Margosan-o
I	Azinphos-methyl	Guthion
F	Azoxystrobin	Abound, Quadris
O	Bacillus cereus	Mep-Plus
F	Bas Copper Zinc Sulfate	Coposil
F	Basic copper sulfate	Top Cop, Tri-Basic
I	Beauveria bassiana	Mycotrol
H	Benefin	Balan
F	Benomyl	Benlate
H	Bensulfuron-methyl	Duet, Londax
H	Bentazon	Basagran, Pledge
I	Benzoic acid	Intrepid
I	Bifenthrin	Brigade, Capture, Talstar
H	Bromacil	Hyvar
H	Bromoxynil	Brominal, Buctril
I	Bt (Bacillus thuringiensis)	several
I	Buprofezin	Applaud
H	Butylate	Genate, Sutan
O	Cacodylic acid	Bolls-Eye, Cotton-Aide
F	Captan	Captan
I,O	Carbaryl	Savit, Sevin
I	Carbofuran	Furadan
F	Carboxin	Vitavax
H	Carfentrazone-ethyl	Aim
H	Chloramben	Amiben
I	Chlorethoxyfos	Fortress
I	Chlorfenapyr	Alert, Pirate
H	Chlorimuron-ethyl	Classic
O	Chloropicrin	several
F	Chlorothalonil	Bravo, Daconil
I	Chlorpyrifos	Lorsban, Dursban
H	Chlorsulfuron	Finesse, Glean, Telar
H	Clethodim	Select
H	Clodinafop-propargil	Discover
H	Clomazone	Command
H	Clopyralid	Reclaim, Stinger
H	Cloransulam-methyl	FirstRate

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Class	Common Name	Trade Name
F	Copper ammonium	Copper-Count-N
F	Copper hydroxide	several
F	Copper resinate	Tenn-Cop
F	Copper sulfate	Copper sulfate
I	Cryolite	Kryocide
H	Cyanazine	Bladex, Conquest, Cycle, Extrazine
O	Cyclanilide	Finish
H	Cycloate	Ro-Neet
I	Cyfluthrin	Baythroid
F	Cymoxanil	Curzate
I	Cypermethrin	Ammo, Cymbush
O	Cytokinins	Burst, Promalin, Triggrr
H	DCPA	Dacthal
I	Deltamethrin	Decis
H	Desmedipham	Betamix, Progress
I	Diazinon	several
H	Dicamba	Banvel
H	Dicamba, Dimethylamine salt	Distinct
H	Dicamba, Pot. salt	Marksman
O	Dichloropropene	Telone
H	Dichlorprop	Weedone
H	Diclofop-methyl	Hoelon
F	Dicloran	Allisan, Botran
I	Dicofol	Kelthane
I	Dicrotophos	Bidrin
H	Difenzoquat	Avenge
I	Diflubenzuron	Dimilin, Micromite, Vengeance
H	Diflufenzopyr-sodium	Distinct
H	Dimethenamid	Frontier, Guardsman
O	Dimethipin	Harvade
I	Dimethoate	several
F	Dimethomorph	Acrobat
H, O	Diquat	Diquat
I	Disulfoton	Di-Syston
H	Diuron	Direx, Karmex
H	DSMA	DSMA
I	Emamectin benzoate	Denim, Proclaim
I	Endosulfan	Thiodan
O	Endothall	Accelerate, Des-I-Cate
H	EPTC	Eptam, Eradicane, Genep
I	Esfenvalerate	Asana
H	Ethalfuralin	Curbit, Sonalan
O	Ethephon	Cerone, Ethrel, Prep
I	Ethion	Ethion
H	Ethofumesate	Progress
I	Ethoprop	Holdem, Mocap
I	Ethyl parathion	several
F	Etridiazole	Terraclor
F	Fenarimol	Rubigan
H	Fenoxaprop-P-ethyl	several
I	Fenpropathrin	Danitol
I	Fenvalerate	Depth Charge, Pydrin
I	Fipronil	Regent
H	Fluazifop-P-butyl	Fusilade
H	Flumetsulam	Broadstrike
H	Flumiclorac-Pentyl	Resource
H	Fluometuron	Cotoran, Meturon
H	Fluroxypyr	Starane
H	Fluroxypyr 1	Starane+Salvo
F	Flutolanil	Moncut, Prostar
H	Fomesafen	Reflex
I	Fonofos	Dyfonate
O	GABA	Auxigro
O	Garlic oil	Envirepel, Nutripel
O	Gibberellic acid	GibGro, ProGibb, ProVide
H	Glufosinate-ammonium	Ignite
H, O	Glyphosate	Ranger, Rattler, Rodeo, Roundup

--continued

Class	Common Name	Trade Name
H	Glyphosate, isopropylamine	Backdraft
O	Gossypure	Checkmate, NoMate, Stirrup
H	Halosulfuron	Battalion, Permit
I	Helicoverpa zea NPV	Gemstar
O	Hexadecadien (Z,Z)	Checkmate, NoMate
I	Hexythiozox	Hexygon, Savey
O	Hydrogen peroxide	Tsunami 100
O	IBA	PGR IV
H	Imazamethabenz	Assert
H	Imazamox	Raptor
H	Imazapyr	Lightning, Topsite
H	Imazaquin	Scepter
H	Imazethapyr	Pursuit
I	Imidacloprid	Admire
O	Indole-3-butyric acid	Early Harvest, Stimulate
I	Indoxacarb	Steward
F	Iprodione	Rovral
H	Isoxaflutole	Balance
O	L-Glutamic acid	Auxigro
H	Lactofen	Cobra
I	Lambda-cyhalothrin	Karate, Saber, Warrior
H	Linuron	Linex, Lorox
I	Malathion	several
O	Maleic hydrazide	Royal MH-30, Super Sprout Stop
F	Mancozeb	several
F	Maneb	several
H	MCPA	several
F	Mefenoxam	Ridomil Gold
O	Mepiquat chloride	Pix, Ponnax
F	Metalaxyl	Ridomil
O	Metam-sodium	Vapam
I	Methamidophos	Monitor
I	Methidathion	Supracide
I	Methomyl	Lannate
I	Methoxychlor	several
O	Methyl bromide	several
O	Methyl isothiocyanate	Vorlex
I	Methyl parathion	several
F	Metiram	Polyram
H	Metolachlor	several
H	Metribuzin	Axiom, Lexone, Sencor
H	Metsulfuron-methyl	Ally, Escort
I	Mevinphos	Phosdrin
H	Molinate	Ordram
O	Monocarbamide dihydrogensulfat	Enquik, Wilthin
H	MSMA	several
I	Naled	Dibrom
H	Napropamide	Devrinol
H	Nicosulfuron	Accent
H	Norflurazon	Evital, Solicam, Zorial
I	Oxamyl	Vydate
I	Oxydemeton-methyl	Metasystox-R
H	Oxyfluorfen	Goal
H, O	Paraquat	Cyclone, Gramoxone, Starfire
F	PCNB	Terraclor
O	Pelargonic Acid	Thinnex Blossom Thinner
H	Pendimethalin	Prowl
I	Permethrin	Ambush, Pounce
I	Petroleum distillate	several
H	Phenmedipham	Spin-Aid
I	Phorate	Thimet
I	Phosmet	Imidan
I	Phosphamidon	phosphamidon
H	Picloram	Grazon, Tordon
I	Piperonyl butoxide	Butacide, Incite, PBO-8
O	Potassium gibberellate	Early Harvest
I	Potassium salts	M-Pede, Safer Insecticidal Soap

--continued

Class	Common Name	Trade Name
H	Primisulfuron	Beacon
I	Profenofos	Curacron
H	Prometryn	Caparol, Cotton-Pro
H	Propachlor	Ramrod
F	Propamocarb hydrochlorida	Tattoo
H	Propanil	Stam, Wham
I	Propargite	Comite, Omite
F	Propiconazole	Banner, Orbit, Tilt
H	Prosulfuron	Peak
H	Pyrazon	Pyramin
I	Pyrethrins	several
H	Pyridate	Tough
H	Pyridinecarboxylic acid	Cadre
I	Pyriproxyfen	Knack
H	Pyrithiobac-sodium	Staple
H	Quinclorac	Facet
H	Quizalofop-ethyl	Assure
H	Rimsulfuron	Basis
I	Rotenone	Rotenone
H	S-Metolachlor	several
H	Sethoxydim	Poast
H	Simazine	Princep, Simazine
O	Sodium chlorate	several
I	Spinosad	SpinTor, Success, Tracer
H	Sulfentrazone	Authority, Canopy
H	Sulfosate	Touchdown
H	Sulfosulfuron	Maverick
I, F	Sulfur	several
O	Sulfuric acid	sulfuric acid
I	Sulprofos	Bolstar
F	Tebuconazole	Folicur, Lynx
I	Tebufenozide	Confirm
I	Tebupirimphos	Aztec
I	Tefluthrin	Force
I	Terbufos	Counter
F	Tetraconazole	Eminent
F	Thiabendazole	Mertect, Terrazole
O	Thidiazuron	Drapp
H	Thifensulfuron	Pinnacle
H	Thiobencarb	Abolish, Bolero
I	Thiodicarb	Larvin
F	Thiophanate-methyl	Topsin
H	Tralkoxydim	Achieve
I	Tralomeethrin	Scout
F	Triadimefon	Bayleton
H	Triallate	Buckle, Far-go
H	Triasulfuron	Amber, Rave
H	Tribenuron-methyl	Express
O	Tribufos	Def, Folex
H	Triclopyr	Garlon
H	Trifluralin	Treflan, Trific, Trilin
H	Triflusulfuron-methyl	UpBeet
I	Trimethacarb	Broot
F	Triphenyltin hydroxide	several
H	Vernolate	Vernam
I	Zeta-cypermethrin	Fury, Mustang

C FERTILIZER and NUTRIENT APPLICATIONS- - -SELECTED FIELD C

1. Were commercial FERTILIZERS applied to this field for the 2000 corn crop? YES=1

CODE	EDIT TABLE
0808	0201
2. [If COMMERCIAL fertilizers were applied, continue, else go to item 7.]
3. How many trips were made across this field to apply commercial fertilizers for the 2000 crop (include applications made by airplanes and commercial applicators)?

NUMBER
0809
4. Now I need to record information for each application.

CHECK LIST									
INCLUDE					EXCLUDE				
☐ Custom applied fertilizers ☐ Fertilizer applied in the fall of 1999 and those applied earlier if this field was fallow in 1999 ☐ Commercially prepared manure					☐ Micronutrients ☐ Unprocessed manure ☐ Fertilizer applied to previous crops in this field				
					T-TYPE		TABLE		
					2		001		
					LINE 99	OFFICE USE LINES IN TABLE		0213	
LINE	2 MATERIALS USED			3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients	5 When was this applied? 1 In the fall Before seeding 2 In the spring Before seeding 3 At seeding 4 After seeding	6 How was this applied? 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	7 How many acres were treated in this application? ACRES	
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash						
01	0205	0206	0207	0208	0209	0210	0211	0212 .	
02	0205	0206	0207	0208	0209	0210	0211	0212 .	
03	0205	0206	0207	0208	0209	0210	0211	0212 .	
04	0205	0206	0207	0208	0209	0210	0211	0212 .	
05	0205	0206	0207	0208	0209	0210	0211	0212 .	
06	0205	0206	0207	0208	0209	0210	0211	0212 .	
07	0205	0206	0207	0208	0209	0210	0211	0212 .	
08	0205	0206	0207	0208	0209	0210	0211	0212 .	
					T-TYPE 0		TABLE 000		LINE 00

1. Including both custom applications and applications made by this operation, let's list all the chemicals used on this field for the 2000 corn crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the corn field for the 2000 crop? YES = 1

[Probe for applications made in the fall of 1999 (and those made earlier if this field was fallow).]

[If no pesticides applied, go to Section E.]

CODE

EDIT TABLE

0849

0301

Include defoliants, fungicides, herbicides, insecticides and pesticides.
Include biological and botanical pesticides.

Exclude fertilizers reported earlier and seed treatments.

T-TYPE

TABLE

3

001

LINE
99OFFICE USE
LINES IN TABLE

0319

NO TE S	L I N E	2	3	4	5	6	OR	7	8
		What products were applied to this field? [Show product codes from Respondent Booklet.]	Was this product bought in liquid or dry form? [Enter L or D.]	Was this part of a tank mix? [If tank mix, enter line number of first product in mix.]	When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER planting	How much was applied per acre per application?		What was the total amount applied per application in this field?	[Enter unit code.] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Ounces 30 Grams
	01	0305		0306	0307	0308		0309	0310
	02	0305		0306	0307	0308		0309	0310
	03	0305		0306	0307	0308		0309	0310
	04	0305		0306	0307	0308		0309	0310
	05	0305		0306	0307	0308		0309	0310
	06	0305		0306	0307	0308		0309	0310
	07	0305		0306	0307	0308		0309	0310
	08	0305		0306	0307	0308		0309	0310
	09	0305		0306	0307	0308		0309	0310
	10	0305		0306	0307	0308		0309	0310
	11	0305		0306	0307	0308		0309	0310
	12	0305		0306	0307	0308		0309	0310
	13	0305		0306	0307	0308		0309	0310
	14	0305		0306	0307	0308		0309	0310

2. [For pesticides not listed in Respondent Booklet, specify --]

L
I
N
E

Pesticide Type
(Herbicide, Insecticide
Fungicide, etc.)

**EPA No. or Tradename
and Formulation**

Form Purchased
(Liquid or Dry)

Where Purchased
[Ask only if EPA No.
cannot be reported.]

APPLICATION CODES for column 9						
1 Broadcast, ground without incorporation 2 Broadcast, ground with incorporation 3 Broadcast, by air (<i>Aerial application</i>) 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 treatment			
L I N E	9 How was this product applied? [Enter code from above.]	10 How many acres in this field were treated with this product? ACRES	11 What was the number of times applied? NUMBER	12 What was the PRIMARY target pest for this application? [Show Target Pest codes from Respondent Booklet.]	13 Prior to this application was this years pest problem-- 1 worse than normal? 3 normal? 5 less than normal? 7 unknown? 9 not applicable?	14 Were these applications made by-- 1 Operator, Partner, Family member? 2 Custom applicator? 3 Employee / Other?
	01	0311	0312 .__	0313	0314	0315
02	0311	0312 .__	0313	0314	0315	0316
03	0311	0312 .__	0313	0314	0315	0316
04	0311	0312 .__	0313	0314	0315	0316
05	0311	0312 .__	0313	0314	0315	0316
06	0311	0312 .__	0313	0314	0315	0316
07	0311	0312 .__	0313	0314	0315	0316
08	0311	0312 .__	0313	0314	0315	0316
09	0311	0312 .__	0313	0314	0315	0316
10	0311	0312 .__	0313	0314	0315	0316
11	0311	0312 .__	0313	0314	0315	0316
12	0311	0312 .__	0313	0314	0315	0316
13	0311	0312 .__	0313	0314	0315	0316
14	0311	0312 .__	0313	0314	0315	0316

T-TYPE 0	TABLE 000	LINE 00
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Released May 16, 2001 by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, U.S. Department of Agriculture. For information on "Agricultural Chemical Usage" call (202) 720-6146, office hours 7:30 a.m. to 4:00 p.m. ET.

The next "Agricultural Chemical Usage" report for field crops will be released in May 2002. This report will cover agricultural chemical use for the 2001 crop year for corn, cotton, potatoes, and soybeans in major states.

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