Agricultural Chemical Usage, 2000

The 2000 Chemical Use Summaries for Vegetables and Field Crops provide pesticide data on 16 Michigan vegetables and 3 field crops. Vegetable chemical use statistics are published every other year alternating with fruit chemical use statistics. Sugarbeet statitistics are new this year to the Field Crops section. The entire series of chemical usage statistics since 1990 for Michigan and the U.S. can be found at: http:/www.usda.gov/nass/

A list of associated trade names is provided following the chemical application tables as an aid in reviewing the data. The list does not mean to imply use of any specific trade name.

Asparagus: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
2, 4-D	19	1.1	1.10	1.28	4.1
Diuron	89	1.7	1.24	2.14	32.5
Glyphosate	76	1.6	0.82	1.36	17.6
Metribuzin	54	1.6	0.47	0.79	7.2
Norflurazon	19	1.6	0.93	1.53	4.9
Paraquat	21	1.2	0.57	0.70	2.6
Simazine	4	1.2	0.80	0.98	0.6
Terbacil	6	1.3	0.46	0.61	0.7
Insecticides					
Carbaryl	90	4.0	0.68	2.74	41.9
Chlorpyrifos	38	1.0	0.88	0.90	5.8
Permethrin	46	3.4	0.09	0.30	2.3
Fungicides					
Chlorothalonil	64	3.6	1.54	5.63	61.5
Mancozeb	40	3.4	1.35	4.62	31.1
Myclobutanil	9	1.4	0.08	0.12	0.2

[1] Planted acres in 2000 were 17,000 acres.

Snap Beans, Fresh: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
EPTC	79	1.2	2.33	2.84	5.2
Metolachlor	72	1.0	1.04	1.04	1.7
Trifluralin	79	1.2	0.54	0.67	1.2
Insecticides					
Carbaryl	([2])	1.6	1.34	2.26	([3])
Esfenvalerate	8	1.8	0.05	0.09	([3])
Fungicides					
Copper hydroxide	20	1.1	0.31	0.36	0.2

[1] Planted acres in 2000 were 2,300 acres.
[2] Area applied is less than one percent.
[3] Total applied is less than 50 lbs.

Cabbage, Fresh: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
Metolachlor	10	1.0	1.75	1.75	0.3
Napropamide	12	1.0	1.00	1.00	0.2
Trifluralin	33	1.0	0.86	0.86	0.5
Insecticides					
Bt (Bacillus thur.) [2]	36	2.4			
Carbaryl	([3])	2.6	1.02	2.67	([4])
Chlorpyrifos	18	1.0	0.64	0.70	0.2
Diazinon	5	2.0	0.51	1.05	0.1
Esfenavalerate	34	1.4	0.04	0.05	([4])
Lambda-cyhalothrin	32	2.5	0.02	0.06	([4])
Permethrin	8	2.7	0.08	0.23	([4])
Spinosad	31	1.9	0.04	0.08	([4])
Fungicides					
Chlorothalonil	35	2.3	1.11	2.62	1.6
Copper hydroxide	27	2.0	0.67	1.36	0.7

[1] Planted acres in 2000 were 1,800 acres.
[2] Rates and total applied are not available because amounts of active ingredient are not comparable between products.
[3] Area applied is less than one percent.
[4] Total applied is less than 50 lbs.

Carrots, Processing: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
Fluazifop-P-butyl	100	1.1	0.16	0.19	0.2
Linuron	100	2.4	0.66	1.61	2.0
Insecticides					
Esfenvalerate	71	5.8	0.02	0.15	0.1
Fungicides					
Chlorothalonil	100	4.4	1.22	5.41	6.8

[1] Planted acres in 2000 were 1,260 acres.

Celery: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
Linuron	73	1.6	0.37	0.60	0.9
Metolachlor	40	1.0	2.72	2.72	2.2
Prometryn	99	1.5	1.03	1.57	3.1
Insecticides					
Acephate	65	2.1	0.79	1.66	2.2
Azinphos-methyl	42	1.2	0.50	0.62	0.5
Endosulfan	41	1.3	0.68	0.91	0.7
Methomyl	92	3.3	0.57	1.89	3.5
Permethrin	70	3.6	0.12	0.43	0.6
Fungicides					
Chlorothalonil	99	4.1	1.09	4.57	9.0
Copper hydroxide	81	5.5	0.44	2.44	4.0
Propiconazole	26	2.4	0.12	0.29	0.2

[1] Planted acres in 2000 were 2,000 acres.

Sweet Corn, Fresh: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
2, 4-D	2	1.0	0.45	0.45	0.1
Alachlor	20	1.0	1.91	1.91	4.4
Atrazine	84	1.0	1.24	1.24	11.9
Bentazon	7	1.1	0.52	0.58	0.5
Cyanazine	3	1.0	1.38	1.38	0.5
Glyphosate	([2])	1.0	0.88	0.88	0.1
Metolachlor	51	1.6	1.78	2.99	17.5
Pendimethalin	40	1.0	1.55	1.55	7.2
Insecticides					
Carbaryl	6	2.1	1.04	2.21	1.6
Esfenvalerate	48	1.2	0.03	0.04	0.2
Lambda-cyhalothrin	64	2.4	0.03	0.07	0.5
Methomyl	8	3.0	0.40	1.23	1.1
Methyl parathion	38	1.2	0.43	0.55	2.4
Permethrin	43	1.5	0.10	0.14	0.7
Terbufos	14	1.0	1.36	1.36	2.2
Thiodicarb	43	2.2	0.53	1.19	5.9
Fungicides					
Chlorothalonil	37	1.2	0.51	0.64	2.7
Propiconazole	18	1.5	0.11	0.16	0.3

[1] Planted acres in 2000 were 11,500 acres.
[2] Area applied is less than one percent.

Cucumbers, Fresh: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
Bensulide	25	1.0	4.60	4.60	8.1
Clomazone	27	1.0	0.09	0.09	0.2
Ethalfluralin	52	1.0	0.92	0.92	3.3
Insecticides					
Carbaryl	2	1.9	0.99	1.95	0.3
Diazinon	([2])	1.1	0.83	0.96	([3])
Endosulfan	59	2.7	0.52	1.42	5.8
Esfenvalerate	28	1.4	0.03	0.04	0.1
Permethrin	3	1.9	0.18	0.35	0.1
Fungicides					
Benomyl	14	1.3	0.56	0.77	0.8
Chlorothalonil	85	3.0	1.47	4.41	26.2
Copper hydroxide	74	4.7	0.79	3.75	19.4

[1] Planted acres in 2000 were 7,000 acres.
[2] Area applied is less than one percent.
[3] Total applied is less than 50 lbs.

Cucumbers, Pickles: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
Clomazone	62	1.1	0.12	0.14	2.8
Ethalfluralin	75	1.1	0.65	0.75	17.4
Naptalam	34	1.3	0.85	1.13	12.0
Insecticides					
Carbaryl	6	3.6	1.00	3.61	7.2
Carbofuran	7	1.0	1.05	1.11	2.3
Esfenvalerate	2	1.2	0.03	0.03	([2])
Fungicides					
Chlorothalonil	20	3.0	0.97	2.97	18.6
Copper hydroxide	19	3.7	0.58	2.18	12.8

[1] Planted acres in 2000 were 31,000 acres.
[2] Total applied is less than 50 lbs.

Cantaloups: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
Bensulide	7	1.0	4.50	4.50	0.2
Ethalfluralin	9	1.0	0.67	0.71	([2])
Trifluralin	8	1.0	0.92	0.92	0.1
Insecticides					
Carbaryl	13	2.9	0.84	2.49	0.3
Endosulfan	23	2.5	0.50	1.27	0.2
Esfenvalerate	14	1.5	0.04	0.06	([2])
Fungicides					
Chlorothalonil	72	4.1	1.37	5.66	3.3
Mancozeb	8	3.5	1.37	4.81	0.3

[1] Planted acres in 2000 were 800 acres.
[2] Total applied is less than 50 lbs.

Onions, Dry: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
Bromoxynil	53	1.2	0.20	0.25	0.5
Fluazifop-P-butyl	90	1.5	0.13	0.19	0.7
Metolachlor	25	1.3	2.07	2.87	2.9
Oxyfluorfen	96	3.8	0.04	0.17	0.7
Pendimethalin	94	2.5	1.51	3.81	14.7
Insecticides					
Chlorpyrifos	37	1.0	2.24	2.24	3.4
Cypermethrin	23	2.6	0.08	0.21	0.2
Lambda-cyhalothrin	84	4.3	0.03	0.11	0.4
Permethrin	15	1.1	0.16	0.19	0.1
Fungicides					
Chlorothalonil	74	2.5	1.19	3.03	9.2
Copper hydroxide	44	2.7	0.52	1.42	2.6
Iprodione	67	2.1	0.61	1.33	3.7
Mancozeb	89	3.6	1.66	6.00	21.9
Metalaxyl	39	1.2	0.12	0.15	0.2

[1] Planted acres in 2000 were 4,100 acres.

Peppers, Bell: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
Clomazone	64	1.0	0.47	0.47	0.7
Glyphosate	3	1.3	0.48	0.64	([2])
Metolachlor	11	1.0	0.93	0.93	0.2
Napropamide	9	1.0	1.68	1.68	0.3
Trifluralin	18	1.0	0.84	0.85	0.3
Insecticides					
Acephate	79	2.4	0.71	1.70	3.0
Carbaryl	1	3.2	1.14	3.68	0.1
Esfenvalerate	71	3.8	0.03	0.13	0.2
Metomyl	7	8.3	0.45	3.74	0.6
Permethrin	8	3.3	0.15	0.51	0.1
Fungicides					
Chlorothalonil	3	3.3	0.97	3.24	0.2
Copper hydroxide	75	6.3	0.80	5.09	8.3
Mancozeb	12	7.9	2.00	15.92	4.3
Maneb	65	2.9	1.65	4.89	7.0

[1] Planted acres in 2000 were 2,200 acres.
[2] Total applied is less than 50 lbs.

Pumpkins: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
Bensulide	3	1.0	2.49	2.49	0.4
Clomazone	45	1.0	0.39	0.39	1.0
Ethalfluralin	44	1.0	0.85	0.87	2.1
Sethoxydim	7	1.0	0.22	0.22	0.1
Trifluralin	4	1.0	0.70	0.70	0.1
Insecticides					
Carbaryl	19	2.0	0.73	1.52	1.6
Esfenvalerate	25	2.4	0.04	0.09	0.1
Permethrin	12	1.7	0.12	0.21	0.1
Fungicides					
Benomyl	11	1.7	0.29	0.51	0.3
Chlorothalonil	52	2.7	1.39	3.75	10.7
Copper hydroxide	23	2.2	0.76	1.70	2.1
Metalaxyl	7	1.8	0.13	0.24	0.1
Myclobutanil	29	1.4	0.08	0.11	0.2

[1] Planted acres in 2000 were 5,500 acres.

Squash: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
Bensulide	3	1.0	3.81	3.81	0.6
Clomazone	48	1.0	0.24	0.25	0.7
Ethalfluralin	59	1.0	0.83	0.84	2.7
Glyphosate	4	1.0	0.83	0.89	0.2
Insecticides					
Carbaryl	36	1.6	0.73	1.24	2.5
Carbofuran	17	1.0	0.95	1.01	0.9
Diazinon	([2])	2.5	0.50	1.25	0.1
Endosulfan	19	2.4	0.46	1.13	1.2
Esfenvalerate	23	1.6	0.04	0.06	0.1
Permethrin	9	1.8	0.14	0.26	0.1
Fungicides					
Chlorothalonil	49	2.5	1.35	3.43	9.3
Copper hydroxide	26	2.7	0.63	1.74	2.5
Mancozeb	5	3.5	1.47	5.15	1.3
Metalaxyl	21	2.3	0.15	0.34	0.4
Myclobutanil	11	1.7	0.08	0.15	0.1
Triadimefon	2	1.6	0.09	0.14	([3])

[1] Planted acres in 2000 were 5,600 acres.
[2] Area applied is less than one percent.
[3] Total applied is less than 50 lbs.

Strawberries: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
2, 4-D	23	1.4	0.92	1.32	0.4
Glyphosate	4	2.2	2.30	5.16	0.3
Napropamide	40	1.1	2.55	3.04	1.7
Sethoxydim	8	1.4	0.21	0.29	([2])
Terbacil	36	1.3	0.37	0.51	0.3
Insecticides					
Azinphos-methyl	32	2.8	0.48	1.39	0.6
Bifenthrin	10	1.3	0.10	0.13	([2])
Carbaryl	12	1.6	0.96	1.55	0.3
Chlorpyrifos	24	1.5	0.98	1.47	0.5
Diazinon	5	1.0	0.73	0.73	([2])
Endosulfan	54	2.3	0.92	2.17	1.6
Fungicides					
Benomyl	65	4.0	0.46	1.89	1.7
Captain	81	4.4	3.09	13.64	15.5
Copper hydroxide	14	3.3	0.81	2.73	0.5
Iprodione	33	4.3	0.52	2.27	1.1
Thiophanate-methyl	11	2.4	0.82	2.02	0.3
Vinclozolin	5	1.2	0.52	0.68	([2])

[1] Planted acres in 2000 were 1,400 acres.
[2] Total applied is less than 50 lbs.

Tomatoes, Fresh: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
Metribuzin	40	1.0	0.39	0.40	0.4
Napropamide	9	1.0	1.54	1.54	0.4
Trifluralin	29	1.0	0.65	0.65	0.5
Insecticides					
Azinphos-methyl	44	3.9	0.33	1.33	1.5
Carbaryl	6	3.9	1.21	4.78	0.7
Diazinon	2	2.0	0.48	1.00	([2])
Endosulfan	64	3.3	0.50	1.67	2.7
Esfenvalerate	71	3.4	0.03	0.10	0.2
Permethrin	3	2.9	0.11	0.32	([2])
Fungicides					
Azoxystrobin	3	2.4	0.08	0.20	([2])
Chlorothalonil	64	6.1	1.54	9.50	15.2
Copper hydroxide	60	10.3	1.16	11.99	17.8
Mancozeb	60	9.2	1.23	11.44	17.2
Metalaxyl	1	1.7	0.23	0.39	([2])

[1] Planted acres in 2000 were 2,500 acres.
[2] Total applied is less than 50 lbs.

Tomatoes, Processing: Agricultural chemical applications, 2000 [1]

Agricultural chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 lbs*
Herbicides					
Metribuzin	92	1.3	0.24	0.32	0.9
Insecticides					
Lambda-cyhalothrin	92	3.3	0.02	0.07	0.2
Fungicides					
Azoxystrobin	98	2.5	0.09	0.23	0.7
Chlorothalonil	100	7.0	1.36	9.51	28.5
Copper hydroxide	100	9.5	0.84	8.05	24.1
Other Chemical					
Ethephon		1.1	0.40	0.46	1.2

[1] Planted acres in 2000 were 3,000 acres.

Agricultural chemical applications: Corn, 2000 [1]

Agricultrual chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 pounds*
Herbicides:					
2,4-D	9	1.0	0.44	0.44	83
Acetochlor	48	1.0	1.64	1.64	1,721
Altrazine	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	2.26	2.52	946
Nicosulfuron	8	1.0	0.02	0.02	4
Pendimethalin	18	1.0	0.90	0.90	366
S-Metolachlor	6	1.0	1.05	1.05	138
Rimsulfuron	5	1.0	0.01	0.01	2

[1] Planted acres in 2000 were 2.2 million acres.

Fertilizer applications: Corn, 2000 [1]

Fertilizer	Symbol	Area applied	Applications	Rate per application	Rate per crop year	Total applied
		Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*Million pounds*
Nitrogen	N	99	2.0	53	110	240.10
Phosphate	P_2O_5	96	1.0	44	46	96.90
Potash	K_2O	83	1.3	65	84	154.30

[1] Planted acres in 2000 were 2.2 million acres.

Agricultural chemical applications: Sugarbeets, 2000 [1]

Agricultrual chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 pounds*
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
Triflusulfuron	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 were 189,000 acres.

Fertilizer applications: Sugarbeets, 2000 [1]

Fertilizer	Symbol	Area applied	Applications	Rate per application	Rate per crop year	Total applied
		Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*Million pounds*
Nitrogen	N	100	2.2	60	136	25.7
Phosphate	P_2O_5	98	1.0	61	63	11.7
Potash	K_2O	95	1.3	126	175	31.5

[1] Planted acres in 2000 were 189,000 acres.

Agricultural chemical applications: Soybeans, 2000 [1]

Agricultrual chemical	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*1,000 pounds*
Herbicides					
Cloransulam-methyl	1	1.0	0.03	1.00	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 were 2.1 million acres.

Fertilizer applications: Soybeans, 2000 [1]

Fertilizer	Symbol	Area applied	Applications	Rate per application	Rate per crop year	Total applied
		Percent	*Number*	*Pounds per acre*	*Pounds per acre*	*Million pounds*
Nitrogen	N	37	1.0	13	14	11.1
Phosphate	P_2O_5	40	1.0	53	53	44.8
Potash	K_2O	72	1.0	87	87	131.2

[1] Planted acres in 2000 were 2.1 million acres.

Agricultural chemicals: Common and trade names by class

Herbicides		Insecticides	
Common name	Trade name	Common name	Trade name
2, 4-D	several names	Acephate	Orthene, Payload
Acetochlor	Harness, Surpass	Azinphos-methyl	Guthion
Alachlor	Lasso	Bt	several names
Atrazine	AAtrex	Bifenthrin	Brigade, Capture, Talstar
Bensulide	Betasan, Prefar	Carbaryl	Savit, Sevin
Bentazon	Basagran, Laddok	Carbofuran	Furadan
Bromoxynil	Brominal, Buctril	Chloropyrifos	Dursban, Lorsban
Clomazone	Command, Commence	Cypermethrin	Ammo, Cymbush
Clopyralid	Reclaim, Stinger	Diazinon	several names
Cloransulam-methyl	FirstRate	Dimethoate	several names
Cyanazine	Bladex, Conquest, Extrazine	Disulfoton	Di-Syston
Cycloate	Ro-Neet	Endosulfan	Thiodan
Desmedipham	Betamix, Progress	Esfenvalerate	Asana
Dicamba	Banvel, Clarity, Trooper	Lambda-cyhalothrin	Karate, Saber, Warrior
Diuron	Direx, Karmex	Malathion	several names
EPTC	Eptam, Eradicane, Genep	Methomyl	Lannate
Ethalfluralin	Curbit, Sonalan	Methyl parathion	several names
Ethofumesate	Progress	Permethrin	Ambush, Pounce
Fluazifop-P-butyl	Fusilade	Spinosad	SpinTor, Success, Tracer
Flumetsulam	Broadstrike	Terbufos	Counter
Glyphosate	Ranger, Rattler, Rodeo, Roundup	Thiodicarb	Larvin
Imazamox	Raptor		
Imazaquin	Scepter	Fungicides	
Imazethapyr	Passport, Pursuit		
Linuron	Linex, Lorox	Azoxystrobin	Abound, Heritage, Quadris
Metolachlor	Bicep, Dual	Benomyl	Benlate
Metribuzin	Axiom, Lexone, Sencor	Captan	Captan
Napropamide	Devrinol	Chlorothalonil	Bravo, Daconil
Naptalam	Alanap	Copper hydroxide	several names
Nicosulfuron	Accent	Iprodione	Rovral
Norflurazon	Evital, Solicam, Zorial	Mancozeb	several names
Oxyfluorfen	Goal	Maneb	several names
Paraquat	Cyclone, Gramoxone, Starfire	Metalaxyl	Ridomil
Pendimethalin	Prowl	Myclobutanil	Rally, Nova
Phenmedipham	Betamix, Spin-Aid	Propiconazole	Banner, Orbit, Tilt
Prometryn	Caparol	Tetraconazole	Eminent
Pyrazon	Pyramin	Thiophanate-methyl	Topsin
Quizalofop-ethyl	Assure	Triadimefon	Bayleton
Rimsulturon	Basis, Matrix, Shadeout	Triphenyltin hydroxide	several names
S-Metolachlor	Dual Magnum	Vinclozolin	Ronilan
Sethoxydim	Poast		
Simazine	Princep, Simazine	Other	
Terbacil	Sinbar		
Thifensulfuron	Pinnacle	Ethephon	Cerone, Ethrel, Prep
Trifluralin	Treflan, Trific, Trilin		
Triflusulfuron-methyl	UpBeet		

Commercial fertilizer consumption: 1996-2000 [1]

Item	Year ending June 30				
	1996	1997	1998	1999	2000
	Short tons	*Short tons*	*Short tons*	*Short tons*	*Short tons*
Primary plant nutrients					
Total N	229,150	275,600	248,102	263,948	249,543
N in multi-nutrients	61,853	64,017	58,790	62,713	57,104
Total P_2O_5	100,462	112,286	92,236	94,890	87,001
P_2O_5 in multi-nutrients	98,261	101,154	90,323	92,063	84,539
Total K_2O	222,550	246,467	213,954	211,739	202,481
K_2O in multi-nurtrients	74,159	77,110	66,246	60,635	47,828
Total plant nutrients	552,162	634,354	554,291	570,576	539,024
Average analysis	44.3	44.5	44.8	43.1	42.9
Total nutrients in multi-nutrients	234,272	242,281	215,360	215,411	189,471
Selected single-nutrient materials					
Ammonium nitrate	7,900	9,401	6,483	9,533	5,622
Anhydrous ammonia	61,777	88,775	71,765	68,349	56,757
Nitrogen solutions	226,868	260,369	269,136	300,761	265,544
Urea	84,740	87,173	88,167	98,820	126,452
Ammonium sulfate	15,093	71,007	20,168	20,468	22,477
Concentrated superphosphate	4,762	5,202	3,961	4,880	4,966
Potassium chloride	237,984	271,868	237,257	244,519	250,410
Multiple-nutrient fertilizers					
N-P-K	418,228	434,859	387,053	388,303	361,992
N-P	109,463	125,241	115,178	124,833	115,616
N-K	28,418	31,768	26,527	27,386	22,281
P-K	9,321	11,435	7,891	5,526	4,561
Leading multiple-nutrient grades					
18-46-0	38,217	42,223	36,974	37,709	34,569
10-34-0	33,995	40,220	35,525	42,668	37,385
10-10-10					14,353
11-52-0	9,107	8,682	14,860	20,069	24,987
19-19-19	18,677	20,139	18,527	21,201	11,564
12-12-12	10,051	11,752	11,512	13,868	32,165
Fertilizer consumption by classes					
Dry bulk single-nutrient	395,402	490,328	401,282	430,931	452,227
Dry bagged single-nutrient	12,918	8,820	9,267	7,581	7,453
Fluid single-nutrient	292,718	369,706	348,333	371,425	324,357
Dry bulk multiple-nutrient	329,203	349,906	293,499	283,761	259,482
Dry bagged multiple-nutrient	167,705	174,006	179,578	187,767	165,491
Fluid multiple-nutrient	68,522	79,392	63,570	76,463	79,476
Organics, secondary and micronutrients	34,463	20,345	38,839	37,943	39,220
Total	1,300,930	1,492,503	1,334,370	1,395,870	1,327,707

[1] Source: The Association of American Plant Food Control Officials