United States Department of Agriculture

National Agricultural Statistics Service

Agricultural Chemical Usage
2000 Vegetable Summary

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2000 Agricultural Chemical Use Estimates for Vegetable Crops

Overview: This report, which summarizes the use of agricultural chemicals on vegetables in 2000, is issued by the National Agricultural Statistics Service **(NASS)** as part of its series on Agricultural Chemical Usage. Other publications in the series present statistics for on-farm agricultural chemical usage for field crops, fruits, livestock, floriculture, nursery and postharvest applications.

Information in this report is provided from a survey funded by the USDA Pesticide Data Program. The purpose of the Pesticide Data Program is to provide reliable pesticide use statistics and enhance the quality of information on pesticide residues in food. Multiple agencies within the USDA administer this program. This data series addresses the increased public interest in agricultural chemical use and provides the means for government agencies to respond effectively to food safety and water quality issues.

NASS collects on-farm agricultural chemical use information to support the evaluation of food safety and water quality issues. The Economic Research Service (ERS) conducts research on the impact of alternative pesticide regulations, policies, and practices. The Agricultural Marketing Service (AMS) conducts a pesticide residue monitoring program.

This report includes farm use of 2000 crop year pesticides for selected vegetable crops in 21 major producing States. Alabama, Arkansas, Kansas, Ohio, Pennsylvania, South Carolina and Tennessee were added to the 2000 survey, while Delaware and Indiana were dropped.

Some active ingredients, such as piperonyl butoxide, are primarily synergists. These are classified by the Environmental Protection Agency (EPA) as pesticides and are included in this report.

Also, some pesticides are labeled for control of more than one type of pest, i.e., as an insecticide and as a fungicide. In these instances, the active ingredient is listed under the pesticide class for which it was predominantly used.

The following table shows survey coverage for 1998 and 2000 by crop. In the table are statistics on the number of Program States, the number of reports summarized, and the percent of the U. S. crop acres accounted for in the program States.

Agricultural Chemical Use Survey Coverage, 1998 and 2000

Crop	1998 1/			2000		
	Program States	Reports Summarized	US Acreage Included	Program States	Reports Summarized	US Acreage Included
	--- Number ---		Percent	--- Number ---		Percent
Artichokes	-	-	-	1	31	100
Asparagus	4	311	97	4	278	99
Beans, Lima, Fresh	1	36	100	1	73	49
Beans, Lima, Proc.	6	142	*	4	81	*
Beans, Snap, Fresh	7	426	76	8	684	91
Beans, Snap, Proc.	8	381	*	6	368	74
Beets	-	-	-	2	136	85
Broccoli	3	163	100	2	139	100
Brussels Sprouts	-	-	-	1	16	100
Cabbage, Fresh	9	518	88	9	639	85
Cabbage, Kraut	2	31	82	2	29	87
Carrots, Fresh	7	132	95	5	192	*
Carrots, Proc.	6	65	86	5	62	87
Cauliflower	5	142	*	3	146	100
Celery	3	72	100	2	78	99
Collards	-	-	-	5	337	100
Corn, Sweet, Fresh	12	945	70	12	1377	75
Corn, Sweet, Proc.	6	629	90	7	535	88
Cucumbers, Fresh	8	478	85	7	633	84
Cucumbers, Pickles	9	291	*	8	355	*
Eggplant	2	105	100	2	145	39
Garlic	-	-	-	1	56	100
Greens, Mustard	-	-	-	7	308	100
Greens, Turnip	-	-	-	7	442	100
Kale	-	-	-	4	103	100
Lettuce, Head	4	164	96	3	157	99
Lettuce, Other	3	137	99	3	137	*
Melons, Cantaloupe	7	493	95	5	357	90
Melons, Honeydew	3	55	100	3	70	100
Melons, Watermelon	8	702	77	8	835	79
Okra	-	-	-	4	306	100
Onions, Dry	8	494	78	9	633	81
Peas, Green, Proc.	5	459	85	5	444	85
Peppers, Bell	6	413	95	6	527	87
Pumpkins	-	-	-	6	767	100
Radishes	-	-	-	4	74	100
Spinach, Fresh	3	102	85	3	140	72
Spinach, Proc.	1	10	37	1	10	33
Squash	-	-	-	12	1300	100
Strawberries	9	465	94	10	894	97
Tomatoes, Fresh	8	631	77	14	1644	92
Tomatoes, Proc.	2	116	94	3	114	95

1/ For 1998, those crops indicated with “-“ were not target crops for that year.
* Percent of US Acreage not published to avoid disclosure.

Highlights

Artichokes: California's artichoke growers applied herbicides to 58 percent of the planted acreage. Insecticides were used on 73 percent of the acreage, while other chemicals were applied to 29 percent of the planted acreage. Esfenvalerate was the most commonly used insecticide at 69 percent. Pronamide, applied to 14 percent of the planted acreage, was the only herbicide with sufficient reports to be published.

Asparagus: Herbicides were applied to 84 percent of the four program States' planted acreage, with the greatest coverage in Michigan at 96 percent. Diuron was applied to 50 percent of the crop, and the next most used herbicide, glyphosate, was applied to 38 percent. Insecticides were applied to 84 percent of the asparagus planted acres. Disulfoton was the most widely used insecticide, at 51 percent. Michigan applied insecticides to the largest percentage of the crop, 97 percent. Overall, fungicides were used on 42 percent of the acreage. Michigan applied fungicides to 79 percent of asparagus planted acreage.

Beans, Lima: Georgia was the only State surveyed for <u>fresh market</u> lima beans. Herbicides were used to treat 94 percent of the Georgia planted acreage with trifluralin being the most utilized, covering 60 percent. Insecticides were used on 38 percent of the acreage with acephate the most commonly used, at 36 percent of the acres. Fungicides were applied to only 2 percent of the acreage.

Growers of lima beans for <u>processing</u> applied herbicides to 53 percent of the acreage in the four program States. Metolachlor and trifluralin were used on 24 and 23 percent of the acreage, respectively. Imazethapyr and pendimethalin were used on 13 and 12 percent of the acreage, respectively. Insecticides were more widely used being applied to 71 percent of the planted acreage. Dimethoate was most commonly used at 52 percent followed by applications of acephate on 28 percent of the acreage. Fungicides were used on only 7 percent of the acres with thiophanate-methyl being applied to 7 percent.

Beans, Snap: Herbicides were applied to 53 percent of the <u>fresh market</u> snap beans planted acreage while 89 percent of the acreage received insecticide treatments. Fungicides were applied to 77 percent of the acreage. Major herbicides used included metolachlor, applied to 22 percent of the acreage, followed by trifluralin, applied to 20 percent. Endosulfan and esfenvalerate were the leading insecticides used, each covering 26 percent of the acreage. Acephate was used on 21 percent of the acreage. Chlorothalonil was the most widely used fungicide and was put on 56 percent of the acreage. Sulfur was the next most utilized being applied to 28 percent of the acreage, followed by metalaxyl on 19 percent of the acres. Florida growers applied fungicides to 99 percent of the fresh market snap bean acreage.

Pesticide coverage on <u>processing</u> snap bean acreage included 96 percent of the acres treated with herbicides; 81 percent received insecticides; and 57 percent received fungicides. The major herbicides were EPTC, applied to 59 percent of the acres, and trifluralin used on 54 percent of the acreage. Insecticides applied included bifenthrin on 38 percent of the acreage, followed by dimethoate and acephate at 29 and 25 percent coverage, respectively. Vinclozolin was the leading fungicide and was applied to 31 percent of the planted acreage.

Beets: New York and Wisconsin were the only program States for chemical applications to beets. There were insufficient reports to publish any insecticide or fungicide active ingredient data for either State or for the two States combined. Herbicides were applied to 96 percent of the New York acreage and 99 percent of the Wisconsin acreage. Cycloate was the leading herbicide, applied to 98 percent of the combined planted acreage.

Broccoli: Herbicides were applied to 51 percent of the acreage from the two program States. Insecticides were applied to 92 percent of the acreage whereas fungicides were applied to 15 percent of the acres. Leading herbicides included DCPA applied to 22 percent, and bensulide used on 16 percent of the acres. A wide variety of insecticides were used. The most commonly used included spinosad on 66 percent of the acreage and oxydemeton-methyl on 54 percent of the acreage. Dimethoate and imidacloprid were each used on 42 percent, and esfenvalerate was used on 40 percent of the broccoli acreage. There was little use of fungicides on the surveyed acreage with no single active ingredient covering 10 percent of the acres. Chlorothalonil was applied to 6 percent of the acreage followed by mefenoxam, which was utilized on 4 percent of the planted acreage.

Brussels Sprouts: California's brussels sprout growers used insecticides on 74 percent of the acreage, fungicides on 75 percent and other chemicals on 62 percent of the planted acreage. There were insufficient reports to publish any active ingredient data for herbicides on brussels sprouts. Chlorpyrifos was the most widely used insecticide at 71 percent, followed by diazinon at 60 percent, imidacloprid at 56 percent and dimethoate at 54 percent. Chlorothalonil, at 68 percent of the acreage treated, was the only fungicide with sufficient reports to be published.

Cabbage: Herbicides were applied to 64 percent of the fresh market cabbage acres. The most commonly used herbicide was trifluralin at 36 percent followed by oxyfluorfen which was applied to 13 percent of the acreage. Insecticides were applied to nearly all the acreage with 96 percent coverage reported. The most commonly used insecticides included Bacillus thuringiensis on 60 percent of the acreage; spinosad on 40 percent; and lambda-cyhalothrin on 34 percent. Fungicides were applied on 60 percent of the acreage. Chlorothalonil was most commonly used, with 47 percent of the acres being treated, and maneb was utilized on 17 percent of the acreage.

Herbicides and insecticides were both widely used in the two program States on cabbage for kraut. Overall, herbicides were applied to 85 percent of the total acreage with 66 percent being applied to New York acreage and all Wisconsin acres receiving herbicide treatments. Metolachlor was the most utilized herbicide as it was applied to 62 percent of the acres. Trifluralin followed, being applied to 61 percent, and clomazone was applied to 56 percent of the planted acres. Insecticides were applied to 97 percent of the acreage in New York and all of the acreage in Wisconsin. Permethrin was applied to 63 percent of the acreage followed by lambda-cyhalothrin which was applied to 40 percent, and dimethoate on 37 percent. Fungicides were used more sparingly, being applied to only 6 percent of the total planted acreage. Chlorothalonil was the main fungicide applied.

Carrots: Fifty-eight percent of the carrot acreage for fresh market production utilized herbicides. The two herbicides used most were linuron on 50 percent of the acreage and trifluralin on 19 percent. Insecticides were reported on 13 percent of the acreage. The two most utilized were oxamyl and esfenvalerate applied to 6 and 4 percent of the acres, respectively. Fungicides were used on 49 percent of the acreage. Iprodione was the most utilized, covering 27 percent of the acreage followed by mefenoxam with 23 percent coverage and chlorothalonil with 11 percent.

Herbicides were also widely utilized on carrots for processing acreage. Applications were reported on 77 percent of the surveyed acreage. Linuron was the predominant choice covering 74 percent of the acreage, followed by fluazifop-P-butyl on 37 percent, and trifluralin on 25 percent. Insecticides were applied to 54 percent of the planted acres. Esfenvalerate was used most, being applied to 44 percent of the acres. Fungicides were applied to 65 percent of the acreage. Chlorothalonil was the most utilized covering 49 percent of the acreage, followed by mefenoxam on 19 percent.

Cauliflower: Herbicides were applied to 48 percent of the cauliflower acreage. The most widely used were oxyfluorfen on 29 percent of the acres and DCPA on 8 percent. Insecticides were used on 94 percent of the surveyed acreage. A wide array of insecticides was utilized including spinosad on 67 percent of the acreage; imidacloprid on 58 percent; oxydemeton-methyl on 41 percent; chlorpyrifos on 37 percent; and esfenvalerate with 36 percent of the acres covered. Fungicides were least used being applied to only 9 percent of the acreage. Chlorothalonil and mefenoxam were each applied to 5 percent of the acres.

Celery: Herbicides were applied to 75 percent of the celery planted acreage in the two program States. Prometryn was predominantly used being applied to 65 percent of the acreage, followed by linuron on 23 percent. Insecticides were widely used, being applied to 97 percent of the acreage. The most utilized were: permethrin on 82 percent of the acres, spinosad on 78 percent, acephate on 72 percent and oxamyl on 71 percent of the acres. Fungicides were also widely used being applied to 87 percent of the acreage. Chlorothalonil was most common, being applied to 69 percent of the acreage followed by dicloran on 54 percent and propiconazole on 50 percent.

Collards: Herbicides were applied to 55 percent of the collards acreage in the five program States. Trifluralin was the most widely used herbicide, applied to 33 percent of the acreage. Insecticides were used on 87 percent of the collards, with Georgia and North Carolina growers applying them to more than 90 percent of their acreage. Bacillus thuringiensis was the most commonly used insecticide, at 56 percent, followed by spinosad at 24 percent. Fungicides were applied to 35 percent of the acreage, and fosetyl-al was the most popular, at 14 percent.

Corn, Sweet: Herbicides were applied to 79 percent of the <u>fresh market</u> sweet corn acreage. Atrazine was used on 61 percent of the acres, followed by metolachlor on 40 percent, and alachlor on 9 percent. Insecticides were widely used, being applied to 84 percent of the surveyed acreage. The most commonly applied included: lambda-cyhalothrin on 53 percent of the acres, methomyl on 41 percent, chlorpyrifos on 27 percent, and esfenvalerate on 24 percent of the planted acres. Fungicides were used on 38 percent of the acreage. Propiconazole was used on 28 percent of the acreage, and mancozeb was used on 16 percent of the planted acreage.

A higher percentage of herbicides were used on <u>processing</u> sweet corn acres. Herbicides were used on 90 percent of the surveyed acres with five of the seven States reporting at least 90 percent coverage. Atrazine was applied to 63 percent of the acreage, metolachlor was on 28 percent, and bentazon on 23 percent. Nearly three-quarters of the acreage was treated with insecticides. The two insecticides predominantly used were bifenthrin on 36 percent of the acres and lambda-cyhalothrin on 26 percent. Fungicides were only reported used on 22 percent of the acreage. Propiconazole was the primary fungicide utilized.

Cucumbers: Herbicides were applied to 31 percent of the <u>fresh market</u> cucumber acreage. Ethalfluralin was the herbicide predominantly used, being applied to 17 percent of the acreage. Insecticides were more widely used, being applied to three-quarters of the acreage. Endosulfan was used on 33 percent of the acreage, and esfenvalerate was used on 26 percent. Fungicides were applied to 79 percent of the planted acreage. Florida, Georgia and Michigan utilized fungicides most with each treating over 90 percent of their acreage. Chlorothalonil was predominantly used, being applied to 66 percent of the acreage. Copper hydroxide, azoxystrobin, metalaxyl, and maneb were applied to 23, 19, 12, and 10 percent of the acreage, respectively.

Herbicides were applied to a larger percentage of the cucumbers for <u>pickles</u> acreage. Herbicides were applied to 85 percent of the crop with Florida, Michigan and Wisconsin each applying herbicides to over 90 percent of the crop. The leading herbicides used were ethalfluralin on 63 percent of the acres and clomazone on 25 percent. Insecticides were applied to 40 percent of the acreage.

Florida used insecticides on all of the cucumbers for pickles acreage. Methomyl was most utilized as it was applied to 13 percent of the program States' planted acreage. Fungicides were applied to 45 percent of the acreage. Chlorothalonil was used most covering 21 percent of the acreage, followed by copper hydroxide on 16 percent of the acres.

Eggplant: Herbicides were used on 41 percent of the eggplant acreage from the two program States. Paraquat was applied to 20 percent of the acreage. Insecticides were applied on 89 percent of the planted acreage. Imidacloprid and endosulfan were applied to 44 and 33 percent of the acreage, respectively. Fungicides were applied to 81 percent of the eggplant acreage. Maneb was applied to 46 percent of the acres, mancozeb was used on 24 percent, and sulfur covered 13 percent.

Garlic: California's garlic growers used herbicides on 45 percent of the acreage. Oxyfluorfen, at 22 percent applied, was the most widely used herbicide, followed by bromoxynil and pendimethalin, each at 13 percent. There were not enough reports to publish any active ingredient data for insecticides. Fungicides were applied to 61 percent of the acreage, although tebuconazole was the only fungicide active ingredient with sufficient reports to publish.

Greens, Mustard: Forty percent of the mustard greens planted acreage received herbicide applications in the seven program States. The most widely used herbicide was trifluralin which was applied to 27 percent of the acres. Insecticides were used on 86 percent of the acreage. Bacillus thuringiensis was the most commonly applied insecticide at 34 percent, followed by spinosad at 17 percent and imidacloprid at 16 percent of the planted acres. Fungicides were used on just over one-half of the mustard greens acreage, and azoxystrobin was the most widely used, at 15 percent.

Greens, Turnip: Herbicides were applied to 55 percent of the turnip greens planted acreage in the seven program States. Trifluralin was applied to 32 percent of the acreage. Insecticides were used on 72 percent of the acreage, with the most commonly applied being Bacillus thuringiensis, carbaryl and malathion at 21, 18 and 15 percent, respectively. Fungicide applications were made on 44 percent of the turnip greens. Azoxystrobin, at 15 percent and benomyl, at 11 percent, were the most widely used.

Kale: In the four program States, 54 percent of the kale acreage was treated with herbicides. Trifluralin was the most common active ingredient at 25 percent applied. Insecticides were used on 88 percent of the acreage. Bacillus thuringiensis was the most widely applied at 40 percent, followed by spinosad at 32 percent and imidacloprid at 30 percent. Fungicides were used on 45 percent of the kale acreage. Fosetyl-al was the most commonly used fungicide, applied to 20 percent of the acres.

Lettuce, Head: Herbicides were applied to 57 percent of the head lettuce acreage. Pronamide was applied to 35 percent of the acreage whereas bensulide was applied to 21 percent. Insecticides were more widely used, being applied to 92 percent of the planted acreage. A very wide range of insecticides were used including: permethrin on 62 percent of the planted acres, spinosad on 59 percent, methomyl on 52 percent, and imidacloprid covering 50 percent of the acreage. Fungicides were applied to 54 percent of the acreage. Maneb was predominantly used, being applied to 49 percent of the acres followed by fosetyl-al and iprodione applied to 19 and 17 percent, respectively.

Lettuce, Other: Herbicides were applied to 74 percent of the other lettuce acreage surveyed from three States. Pronamide was applied to 61 percent of the acreage followed by bensulide on 17 percent. Insecticides were applied to 93 percent of the acreage. There was a wide array of insecticides used including: imidacloprid on 69 percent, permethrin on 66 percent of the acreage, and methomyl on 60 percent of the acres. Fungicides were applied to 66 percent of the acreage. Maneb was the leading fungicide as it was applied to 57 percent of the acreage.

Melons, Cantaloupe: Herbicides were used on 43 percent of the planted acreage for cantaloupes. Trifluralin and bensulide were the most common herbicides used on 20 percent and 17 percent of the acreage, respectively. Insecticides were applied to 74 percent of the cantaloupe acres planted, with imidacloprid being the most common, treating 28 percent of the acreage while Bacillus thuringiensis was applied to 21 percent. Sixty percent of the acreage received fungicide treatment. Mefenoxam (18 percent), sulfur (16 percent), and chlorothalonil (13 percent) were the most common fungicides used. Other chemicals were applied to 11 percent of the total cantaloupe acres.

Melons, Honeydew: Data were collected from three States for honeydew melons. Twelve percent of the total acreage received herbicide treatment, and 80 percent was treated with insecticides. Fungicides were applied to 26 percent of the acreage, while 3 percent received treatment from some other form of chemical. All of the herbicides used were applied to 5 percent or less of the planted acreage. The most common insecticide applied was bifenthrin (50 percent) followed by carbaryl (37 percent). Bacillus thuringiensis, esfenvalerate and imidacloprid were used on 19, 13 and 12 percent of the acreage, respectively. The most commonly used fungicide was trifloxystrobin, with 13 percent of the acres being treated, while azoxystrobin, mefenoxam and thiophanate-methyl were each used on 7 percent of the honeydew melon planted acreage.

Melons, Watermelon: In the eight program States, herbicides were applied to 52 percent of the planted acreage, while 47 percent of the acreage was treated with insecticides. Fungicides were applied to 79 percent of the planted acreage, and 7 percent of the acreage was treated with other chemicals. Ethalfluralin and sethoxydim, used on 17 and 15 percent of the acreage, respectively, were the most widely used herbicides. The insecticide endosulfan was applied to 16 percent of the acreage, and Bacillus thuringiensis was applied to 11 percent of the acreage. Over half (53 percent) of the planted acres were treated with the fungicide chlorothalonil. Other major fungicides applied to planted acres included mancozeb (39 percent); azoxystrobin (18 percent); and benomyl (17 percent).

Okra: Four States were surveyed for chemical usage on okra. Herbicides were applied to 28 percent of the acres, insecticides to 70 percent and fungicides were used on 27 percent of the planted acreage. Trifluralin at 22 percent, carbaryl at 30 percent and sulfur at 20 percent were the most widely used herbicide, insecticide and fungicide, respectively.

Onions, Dry: Eighty-three percent of the dry onion acreage received at least some herbicide application. Oxyfluorfen was the most widely used herbicide, being applied to 68 percent of the dry onion acreage. Insecticides were applied to 72 percent of the dry onion acreage. The range of insecticide treatments was from 42 percent of the Washington onion acres to 99 percent in New York and Oregon. Lambda-cyhalothrin and chlorpyrifos were the predominant insecticides used, at 44 and 26 percent, respectively. Fungicides were applied to 80 percent of the acres planted. Mancozeb was used on 57 percent of the acreage planted, and chlorothalonil was used on 46 percent.

Peas, Green, Processing: Herbicides were applied to 94 percent of the planted acreage of processing green peas. Across the five program States, the application percentages ranged from 80 percent in Oregon to 98 percent in Washington. Imazethapyr received the most coverage, on 39 percent of the crop. Pendimethalin, at 36 percent coverage, and trifluralin, at 23 percent, were the next two most used herbicides. Insecticides were applied to 53 percent of the acreage. Bifenthrin was applied to 23 percent, and dimethoate was applied to 22 percent of the processing green pea acreage. Fungicide use was minimal.

Peppers, Bell: Herbicides were applied to 54 percent of the planted acreage, and 93 percent of the acreage was treated with insecticides. Fungicides were applied to 74 percent of the acreage, and 36 percent of the planted acreage was treated with other chemicals. The major herbicide used was trifluralin, applied to 16 percent of the acreage. Major insecticides applied included spinosad, applied to 45 percent, Bacillus thuringiensis, applied to 42 percent, and abamectin, used on 41 percent of the acreage. Forty percent of the pepper acreage received a fungicide treatment of copper hydroxide. Maneb was applied to 29 percent of the acreage. In Florida, at least one fungicide was applied to 99 percent of the pepper acreage.

Pumpkins: Herbicides were applied to 57 percent of the pumpkin acreage in the six program States. Clomazone was the most commonly used herbicide at 43 percent followed by ethalfluralin, at 15 percent of the acreage. Sixty percent of the acreage received insecticide treatments, with permethrin, carbaryl, esfenvalerate and endosulfan the most widely used at 17, 16, 11 and 10 percent of the acres, respectively. Fungicides were used on 59 percent of the acreage. Chlorothalonil was applied to 43 percent of the acres, and azoxystrobin was applied on 17 percent of the acreage.

Radishes: Herbicides were applied to only 2 percent of the radish planted acres in the four program States. Insecticides were used on 66 percent of the acreage, and 17 percent of the acreage was treated with fungicides. Esfenvalerate and diazinon were the two most widely used insecticides at 22 and 17 percent of the acres, respectively. There were insufficient reports to publish any State level active ingredient data for radishes.

Spinach: Collectively, California, New Jersey and Texas growers reported that herbicides were used on 75 percent of the spinach planted for fresh market. Cycloate was the major herbicide, being used on 56 percent of the acreage. Eighty-five percent of the total acreage was treated with an insecticide. Permethrin was used on 73 percent of the acreage to treat for insects, followed by diazinon at 54 percent and spinosad at 47 percent. Fungicides were used on 78 percent of the fresh market spinach acres. Mefenoxam, maneb and fosetyl-al were the major fungicides used, with percents treated at 56, 46 and 45, respectively.

Chemical use on processing spinach was surveyed only in Texas. Herbicides were applied to 38 percent of the Texas planted acres, insecticides to 86 percent and fungicides to 44 percent of the acreage. Permethrin, an insecticide, was the only active ingredient with sufficient reports to be published.

Squash: Twelve States were surveyed for chemical usage on squash. Herbicides were used on 38 percent of the planted acreage in these program States. Bensulide was applied to 17 percent of the acres, while ethalfluralin was used on 11 percent of the acres. Insecticides were used on 72 percent of the acreage, with endosulfan the most commonly used at 29 percent. Other insecticides applied included: esfenvalerate (15 percent) and methomyl and Bacillus thuringiensis (each at 13 percent). Fungicides were used on 60 percent of the acreage. Chlorothalonil, at 35 percent of the acres, was the most widely used. Other fungicides included: mancozeb, azoxystrobin and maneb at 14, 13 and 12 percent of the acreage, respectively.

Strawberries: In the ten program States, herbicides were used to treat 39 percent of the strawberry acres. Paraquat was used to treat 19 percent of the acreage, followed by napropamide at 13 percent. Insecticides and fungicides were more common forms of pesticides applied to strawberries. Eighty-one percent of the planted acreage was treated to control insects; abamectin was used on 46 percent of the planted acres. Fungicides were used on 84 percent of the strawberry acreage, with Florida applying at least one fungicide to 98 percent of its acres. Captan was the most common fungicide, being used on 73 percent of the acres. Other common fungicides were: thiram, sulfur, iprodione, benomyl and myclobutanil. For the other chemicals class, 57 percent of all strawberry acres were treated. Roughly half of the acreage was treated with methyl bromide and chloropicrin.

Tomatoes: Herbicides were applied to 63 percent of the fresh market tomato acreage. Metribuzin was applied to 33 percent of the acreage, and paraquat was applied to 17 percent. Insecticides were applied to 87 percent of the acreage with Bacillus thuringiensis used the most, on 40 percent. Methomyl and esfenvalerate were the next most common insecticides, being used to treat 37 and 36 percent, respectively. Fungicides were applied to 86 percent of the acreage; Florida treated all of its fresh market tomato acreage with fungicides. Chlorothalonil was the most common fungicide, being applied to 66 percent of the total acres. Copper hydroxide and mancozeb usage followed at 53 and 42 percent, respectively. For the other chemical class, approximately half of the total acres were treated. Methyl bromide was used most often (45 percent of total acreage), mainly in Florida and Georgia.

California, Michigan and Pennsylvania were surveyed for chemicals used on processing tomatoes. Seventy-eight percent of the acreage received herbicide treatment. Trifluralin and rimsulfuron were the leading herbicides at 58 percent and 34 percent of the acres, respectively. Insecticides were applied to 64 percent of the acres. Dimethoate was applied to 26 percent of the acres, while lambda-cyhalothrin was used on 19 percent. Fungicide usage was reported on 73 percent of the acres. Sulfur (39 percent), copper hydroxide (19 percent), and chlorothalonil (19 percent) were the major fungicides used. Seventeen percent of the acres were treated with other chemicals, and ethephon was the leader at 11 percent coverage.

Artichokes: Active Ingredient Publication Status, 2000

Active Ingredient	CA
Herbicides	
Oxyfluorfen	*
Paraquat	*
Pronamide	P
Simazine	*
Insecticides	
Bt (Bacillus thur.)	P
Diflubenzuron	P
Esfenvalerate	P
Methidathion	*
Permethrin	P
Pyrethrins	*
Rotenone	*
Fungicides	
Myclobutanil	*
Other Chemicals	
Aluminum phosphide	*
Gibberellic acid	P
Metaldehyde	*
Metam-sodium	*

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

Artichokes: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
California, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA 2/	9,500	58	4.1	73	5.3			29	4.8

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.

Artichokes: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Pronamide	14	1.0	0.91	0.96	1.2
Insecticides:					
Bt (Bacillus thur.)2/	6	3.6			
Diflubenzuron	27	1.6	0.13	0.20	0.5
Esfenvalerate	69	2.5	0.04	0.10	0.6
Permethrin	10	1.8	0.19	0.35	0.3
Other Chemicals:					
Gibberellic acid	28	1.7	0.02	0.04	0.1

1/ Planted acres in 2000 for California were 9,500 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Asparagus: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States				
	ALL	CA	MI	NJ	WA
Herbicides					
2,4-D	P	P	P		P
Alachlor	*				*
Clopyralid	P			*	*
Dicamba	P	P	*	*	P
Diuron	P	P	P	P	P
Fluazifop-P-butyl	P	*		*	
Glyphosate	P	P	P		P
Glyphosate, is. salt	*	*			
Linuron	P	P	*		*
MCPA	*				*
Metribuzin	P	P	P	P	P
Napropamide	P	*		*	
Norflurazon	P	*	P	P	*
Paraquat	P	*	P	*	P
Quizalofop-ethyl	*				*
Sethoxydim	P	*	*		
Simazine	P	*	P		*
Sulfosate	*	*			
Terbacil	P		P	*	*
Trifluralin	P	P			P
Insecticides					
Bt (Bacillus thur.)	*	*	*		
Carbaryl	P	*	P	P	*
Chlorpyrifos	P	*	P		*
Diazinon	*				*
Dimethoate	P				P
Disulfoton	P	P			P
Endosulfan	*				*
Esfenvalerate	*		*		
Fonofos	*	*			
Malathion	P	*		*	P
Methomyl	P	*		*	
Neem oil	*	*			
Permethrin	P	*	P	*	
Petroleum distillate	*		*		

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Asparagus: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States				
	ALL	CA	MI	NJ	WA
Fungicides					
Chlorothalonil	P		P		
Copper ammonium	*		*		
Copper hydroxide	*		*		
Mancozeb	P	*	P	*	*
Maneb	*		*		
Mefenoxam	P	P			
Metalaxyl	*	*			
Metiram	*		*		
Myclobutanil	P	P	P		
Sulfur	P	*	*		
Other Chemicals					
Cytokinins	*			*	
Indolebutyric Acid	*			*	
Potassium gibber.	*			*	

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

Asparagus: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA	40,900	73	80.8	87	84.7	34	117.7		
MI	17,000	96	73.0	97	50.7	79	96.6		
NJ 2/	1,000	88	2.6	73	1.4				
WA 2/	23,000	94	56.9	70	36.4				
Total	81,900	84	213.3	84	173.2	42	231.1		2/

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.

Asparagus: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	9	1.1	1.06	1.24	9.3
Clopyralid	1	1.1	0.13	0.16	0.1
Dicamba	3	1.1	0.24	0.27	0.6
Diuron	50	1.3	1.38	1.91	77.5
Fluazifop-P-butyl	1	1.1	0.14	0.15	0.2
Glyphosate	38	1.3	0.83	1.15	35.4
Linuron	11	1.2	1.04	1.31	12.0
Metribuzin	37	1.3	0.68	0.94	28.8
Napropamide	*	1.1	1.35	1.52	0.2
Norflurazon	5	1.4	1.23	1.83	7.7
Paraquat	9	1.1	0.59	0.66	5.1
Sethoxydim	2	1.3	0.29	0.40	0.7
Simazine	2	1.1	1.14	1.28	1.6
Terbacil	2	1.2	0.54	0.66	1.1
Trifluralin	27	1.1	1.32	1.49	32.4
Insecticides:					
Carbaryl	32	2.9	0.76	2.23	58.3
Chlorpyrifos	23	1.2	0.93	1.17	22.1
Dimethoate	2	2.2	0.52	1.15	1.6
Disulfoton	51	1.4	0.96	1.43	59.4
Malathion	9	1.0	1.16	1.26	9.1
Methomyl	4	1.5	0.76	1.16	3.4
Permethrin	12	3.0	0.09	0.27	2.5
Fungicides:					
Chlorothalonil	13	3.6	1.54	5.63	61.5
Mancozeb	18	2.4	1.40	3.40	49.6
Mefenoxam	3	1.2	0.47	0.60	1.7
Myclobutanil	11	1.3	0.10	0.14	1.2
Sulfur	5	2.4	11.44	27.95	113.3

* Area applied is less than one percent.

1/ Planted acres in 2000 for the 4 program states were 81,900 acres. States included are CA, MI, NJ and WA.

Asparagus: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	7	1.2	1.16	1.41	4.2
Dicamba	2	1.0	0.27	0.28	0.3
Diuron	27	1.1	1.91	2.24	24.9
Glyphosate	28	1.2	0.84	1.06	12.2
Linuron	16	1.2	1.16	1.42	9.1
Metribuzin	22	1.3	0.72	0.94	8.4
Trifluralin	27	1.2	1.45	1.81	19.8
Insecticides:					
Disulfoton	73	1.4	0.97	1.42	42.7
Fungicides:					
Mefenoxam	7	1.2	0.47	0.60	1.7
Myclobutanil	17	1.3	0.11	0.14	1.0

1/ Planted acres in 2000 for California were 40,900 acres.

Asparagus: Agricultural Chemical Applications, Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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 for Michigan were 17,000 acres.

Asparagus: Agricultural Chemical Applications, New Jersey, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Diuron	74	1.2	1.20	1.48	1.1
Metribuzin	25	1.5	0.57	0.88	0.2
Norflurazon	43	1.0	2.64	2.64	1.1
Insecticides:					
Carbaryl	48	2.2	1.19	2.70	1.3

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

Asparagus: Agricultural Chemical Applications, Washington, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	6	1.0	0.69	0.74	1.0
Dicamba	5	1.2	0.18	0.22	0.2
Diuron	59	1.1	1.18	1.40	19.0
Glyphosate	28	1.0	0.82	0.87	5.6
Metribuzin	53	1.2	0.87	1.06	13.0
Paraquat	17	1.0	0.60	0.60	2.3
Trifluralin	47	1.0	1.15	1.18	12.6
Insecticides:					
Dimethoate	6	2.2	0.52	1.15	1.6
Disulfoton	50	1.5	0.94	1.44	16.7
Malathion	15	1.0	1.14	1.21	4.1

1/ Planted acres in 2000 for Washington were 23,000 acres.

Beans, Lima, Fresh: Active Ingredient Publication Status, 2000

Active Ingredient	GA
Herbicides	
Atrazine	*
Bentazon	*
Glyphosate	*
Imazethapyr	*
Metolachlor	*
Pendimethalin	P
Sethoxydim	*
Trifluralin	P
Insecticides	
Acephate	P
Carbaryl	P
Diazinon	*
Dimethoate	*
Endosulfan	*
Esfenvalerate	*
Ethoprop	*
Malathion	*
Methomyl	*
Permethrin	P
Terbufos	*
Fungicides	
Chlorothalonil	P
Metalaxyl	*
PCNB	*
Sulfur	*

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

Beans, Lima, Fresh: Pesticide, Total Acreage, Percent of Area Receiving Applications and Total Applied, Georgia, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
GA	3,500	94	2.2	38	3.8	2	0.5		

Beans, Lima, Fresh: Agricultural Chemical Applications, Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Pendimethalin	46	1.0	0.48	0.48	0.8
Trifluralin	60	1.0	0.62	0.64	1.3
Insecticides:					
Acephate	36	2.9	0.88	2.59	3.3
Carbaryl	*	1.9	1.23	2.38	0.1
Permethrin	*	1.3	0.14	0.19	**
Fungicides:					
Chlorothalonil	1	2.2	1.18	2.63	0.1

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Georgia were 3,500 acres.

Beans, Lima, Processing: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States				
	ALL	CA	NJ	WA	WI
Herbicides					
Bentazon	P				P
Diallate	*			*	
Glyphosate	P	*		*	*
Imazethapyr	P			*	*
Metolachlor	P	*	*	*	*
Pendimethalin	P			P	P
Quizalofop-ethyl	P				P
S-Metolachlor	P			*	*
Sethoxydim	P				P
Trifluralin	P	*			*
Insecticides					
Acephate	P	P			P
Bifenthrin	P	*			*
Bt (Bacillus thur.)	*	*			
Carbaryl	*		*		
Cyromazine	*	*			
Dicofol	P	P			
Dimethoate	P	P		*	*
Endosulfan	*		*		
Esfenvalerate	*	*			
Fonofos	*	*			
Lambda-cyhalothrin	*		*		
Malathion	*	*			
Methomyl	P	*	*		
Naled	*	*			
Propargite	P	P			
Fungicides					
Captan	*		*		
Copper hydroxide	P		*		*
Mancozeb	*		*		
Thiophanate-methyl	*				*
Other Chemicals					
Cytokinins	*			*	
Sodium chlorate	*	*			

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

Beans, Lima, Processing: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000 1/

State	Planted Acreage	Herbicide		Insecticide		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA 2/	42			72					
NJ 2/				64		21			
WA 2/	93								
WI	100			65		48			
Total	53			71		7		2/	

1/ Planted acres and total applied not published to avoid disclosure.
2/ Insufficient reports to publish data for one or more of the pesticide classes.

Beans, Lima, Processing: Agricultural Chemical Applications,
Program States, 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	1.1	0.85	0.98	
Glyphosate	8	1.2	0.68	0.87	
Imazethapyr	13	1.0	0.05	0.05	
Metolachlor	24	1.0	1.95	2.00	
Pendimethalin	12	1.0	0.89	0.89	
Quizalofop-ethyl	1	1.0	0.06	0.06	
S-Metolachlor	5	1.0	1.18	1.18	
Sethoxydim	5	1.0	0.33	0.33	
Trifluralin	23	1.0	0.50	0.50	
Insecticides:					
Acephate	28	1.7	0.77	1.33	
Bifenthrin	19	1.2	0.08	0.10	
Dicofol	23	1.0	1.27	1.33	
Dimethoate	52	1.6	0.42	0.69	
Methomyl	24	1.3	0.48	0.63	
Propargite	19	1.2	1.81	2.21	
Fungicides:					
Copper hydroxide	3	1.7	1.08	1.85	

1/ Planted acres and total applied not published to avoid disclosure. States included are CA, NJ, WA and WI.

Beans, Lima, Processing: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Acephate	30	1.6	0.78	1.29	
Dicofol	29	1.0	1.27	1.33	
Dimethoate	58	1.6	0.42	0.71	
Propargite	25	1.2	1.81	2.21	

1/ Planted acres and total applied not published to avoid disclosure.

Beans, Lima, Processing: Agricultural Chemical Applications, Washington, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Pendimethalin	79	1.0	0.92	0.92	

1/ Planted acres and total applied not published to avoid disclosure.

Beans, Lima, Processing: Agricultural Chemical Applications, Wisconsin, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bentazon	41	1.1	0.85	0.98	
Pendimethalin	54	1.0	0.87	0.87	
Quizalofop-ethyl	9	1.0	0.06	0.06	
Sethoxydim	34	1.0	0.33	0.33	
Insecticides:					
Acephate	35	2.1	0.72	1.52	

1/ Planted acres and total applied not published to avoid disclosure.

Beans, Snap, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States							
		CA	FL	GA	MI	NJ	NY	NC	TN
Herbicides									
2,4-D	*		*				*		
Alachlor	*				*				
Bensulide	*		*						
Bentazon	P		*	*	*	*	P	*	*
Clomazone	*				*	*			
DCPA	*	*							
Diuron	*			*					
EPTC	P	*	*		P	*	*		
Ethalfluralin	*			*					
Fluazifop-P-butyl	*		*						
Fomesafen	*				*		*		
Glyphosate	P	*	*	*	*		*		
Imazethapyr	P		*			*			
Metolachlor	P	*	P	P	P	P	P	P	*
Napropamide	*							*	
Paraquat	P	*	*	*	*				*
Pendimethalin	P	*	*	P	*		*	*	*
Propachlor	*						*		
S-Metolachlor	*	*				*			
Sethoxydim	P	*		*			*	P	P
Sulfosate	*		*						
Trifluralin	P	*	*	P	P	*	P	P	P

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Beans, Snap, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States							
		CA	FL	GA	MI	NJ	NY	NC	TN
Insecticides									
Acephate	P	*	P	P	*		*	P	*
Azadirachtin	*	*	*		*	*			
Azinphos-methyl	*					*			
Beauveria bassiana	*	*							
Bifenthrin	P		*	*	*	*		*	*
Bt (Bacillus thur.)	P	*	P	*	*			*	
Carbaryl	P	*	P	P	P	P	*	P	P
Chlorpyrifos	*			*					
Cinnamaldehyde	*	*							
Cyfluthrin	*		*						
Cypermethrin	*			*					
Diazinon	P	*	*	P	*	*	*	*	
Dicofol	*	*							
Dimethoate	P	*	*	*	*	*		*	
Disulfoton	*								*
Endosulfan	P	*	P	P		*		P	*
Esfenvalerate	P	P	*	P	P	*	*	P	P
Ethoprop	*		*	*					
Fenamiphos	*			*					
Fonofos	*				*				
Imidacloprid	P		P	*	*				
Lambda-cyhalothrin	*					*			*
Malathion	P		*	*		*		*	*
Methamidophos	*								*
Methomyl	P	*	P	P	*	P	*	P	P
Methyl parathion	*				*				
Naled	*				*				
Neem oil, clar. hyd.	*	*	*						
Oxamyl	*		*						
Permethrin	P		*	P	*		*	*	*
Petroleum distillate	*				*				
Phosmet	*				*				
Piperonyl butoxide	*	*							
Potassium salts	*	*							
Pyrethrins	*	*							
Rotenone	P	*			*	*			
Spinosad	P	*	*						

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Beans, Snap, Fresh: Active Ingredients Applied and Publication Status By Program States, 2000 (continued)

Active Ingredient	ALL	Program States						
		CA	FL	GA	MI	NJ	NY	NC	TN
Fungicides									
Basic copper sulfate	*							*	*
Benomyl	P	*	P	*	*	*		*	
Captan	*		*				*		
Chlorothalonil	P	*	P	P	*	P	*	P	P
Copper ammonium	*			*					
Copper hydroxide	P		P		P	*	*		*
Copper oxychlo. sul.	*					*	*		
Copper resinate	*	*		*		*			
Copper sulfate	*		*	*	*				
Dicloran	*	*	*						
Iprodione	P		*	*	*	*			
Mancozeb	P		P			*	*	*	*
Maneb	P	*	*	*				*	
Mefenoxam	*	*		*		*			
Metalaxyl	P		P	P		*		*	
Myclobutanil	*					*			*
PCNB	P		P	P		*		*	
Sulfur	P	*	P	P				*	P
Vinclozolin	*				*		*		
Other Chemicals									
Chloropicrin	*							*	
Dichloropropene	*			*					
Metam-sodium	*	*							
Methyl bromide	*							*	

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

Beans, Snap, Fresh: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA 2/	5,500	42	4.9	40	4.7	30	8.2		
FL	35,500	35	16.0	97	47.9	99	290.3		
GA 2/	16,000	50	6.9	88	14.6	88	57.5		
MI	2,300	93	8.2	85	1.5	49	1.6		
NJ	3,400	81	6.0	63	4.5	40	4.6		
NY	8,600	96	26.8	88	1.7	87	11.0		
NC 2/	8,000	71	7.8	97	7.0	28	4.6		
TN	10,500	57	6.7	96	0.9	58	9.9		
Total	89,800	53	83.3	89	82.8	77	387.7	7	303.0

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.

Beans, Snap, Fresh: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bentazon	8	1.0	0.80	0.80	5.7
EPTC	13	1.1	2.58	2.88	34.1
Glyphosate	*	1.1	0.72	0.79	0.4
Imazethapyr	*	1.0	0.05	0.05	**
Metolachlor	22	1.0	1.26	1.35	26.3
Paraquat	1	1.0	0.81	0.88	0.7
Pendimethalin	5	1.0	0.59	0.62	2.7
Sethoxydim	7	1.0	0.22	0.22	1.2
Trifluralin	20	1.0	0.55	0.57	10.3
Insecticides:					
Acephate	21	1.6	0.58	0.92	17.4
Bifenthrin	5	1.4	0.06	0.09	0.4
Bt (Bacillus thur.)2/	20	3.1			
Carbaryl	8	1.2	0.94	1.13	8.2
Diazinon	1	1.0	1.23	1.30	1.3
Dimethoate	5	1.5	0.50	0.76	3.6
Endosulfan	26	2.1	0.60	1.27	30.1
Esfenvalerate	26	1.4	0.03	0.05	1.1
Imidacloprid	11	1.1	0.15	0.18	1.7
Malathion	*	1.9	0.69	1.37	0.1
Methomyl	18	1.7	0.41	0.72	11.6
Permethrin	3	1.8	0.06	0.12	0.3
Rotenone	*	1.0	0.004	0.004	**
Spinosad	9	1.7	0.09	0.15	1.3
Fungicides:					
Benomyl	5	1.4	0.47	0.69	3.0
Chlorothalonil	56	2.9	1.33	3.86	194.7
Copper hydroxide	10	1.8	0.65	1.19	10.3
Iprodione	5	1.2	0.88	1.12	5.4
Mancozeb	4	3.1	1.38	4.33	16.4
Maneb	1	2.5	0.72	1.82	2.3
Metalaxyl	19	1.0	0.19	0.19	3.2
PCNB	17	1.1	0.91	1.00	15.5
Sulfur	28	3.3	1.59	5.29	133.0

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 8 program states were 89,800 acres. States included are CA, FL, GA, MI, NJ, NY, NC and TN.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Beans, Snap, Fresh: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Esfenvalerate	5	1.0	0.03	0.03	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for California were 5,500 acres.

Beans, Snap, Fresh: Agricultural Chemical Applications, Florida, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Metolachlor	23	1.0	1.19	1.30	10.6
Insecticides:					
Acephate	30	1.8	0.54	0.98	10.3
Bt (Bacillus thur.)2/	44	3.1			
Carbaryl	*	1.8	0.88	1.59	0.3
Endosulfan	54	2.1	0.59	1.28	24.7
Imidacloprid	20	1.0	0.18	0.18	1.3
Methomyl	30	1.8	0.35	0.66	6.9
Fungicides:					
Benomyl	10	1.5	0.45	0.69	2.5
Chlorothalonil	75	4.0	1.29	5.19	138.0
Copper hydroxide	18	1.5	0.74	1.14	7.1
Mancozeb	9	3.2	1.43	4.64	15.6
Metalaxyl	16	1.0	0.17	0.17	1.0
PCNB	15	1.2	1.03	1.31	6.9
Sulfur	60	3.6	1.52	5.50	116.3

* Area applied is less than one percent.
1/ Planted acres in 2000 for Florida were 35,500 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Beans, Snap, Fresh: Agricultural Chemical Applications, Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Metolachlor	13	1.0	1.57	1.57	3.2
Pendimethalin	18	1.0	0.67	0.67	1.9
Trifluralin	21	1.0	0.50	0.52	1.7
Insecticides:					
Acephate	21	1.7	0.74	1.31	4.5
Carbaryl	2	1.0	0.54	0.58	0.2
Diazinon	5	1.0	1.42	1.43	1.1
Endosulfan	24	1.8	0.65	1.20	4.5
Esfenvalerate	41	2.2	0.03	0.08	0.5
Methomyl	17	1.6	0.54	0.89	2.4
Permethrin	8	2.9	0.05	0.15	0.2
Fungicides:					
Chlorothalonil	70	2.1	1.44	3.12	34.9
Metalaxyl	57	1.0	0.21	0.21	1.9
PCNB	54	1.0	0.82	0.83	7.2
Sulfur	18	1.9	1.65	3.19	9.1

1/ Planted acres in 2000 for Georgia were 16,000 acres.

Beans, Snap, Fresh: Agricultural Chemical Applications, Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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	*	1.6	1.34	2.26	**
Esfenvalerate	8	1.8	0.05	0.09	**
Fungicides:					
Copper hydroxide	20	1.1	0.31	0.36	0.2

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Michigan were 2,300 acres.

Beans, Snap, Fresh: Agricultural Chemical Applications, New Jersey, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Metolachlor	74	1.1	0.96	1.12	2.8
Insecticides:					
Carbaryl	15	2.3	0.99	2.30	1.2
Methomyl	56	1.5	0.57	0.89	1.7
Fungicides:					
Chlorothalonil	20	1.7	1.85	3.24	2.2

1/ Planted acres in 2000 for New Jersey were 3,400 acres.

Beans, Snap, Fresh: Agricultural Chemical Applications, New York, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bentazon	19	1.0	0.26	0.26	0.4
Metolachlor	2	2.6	1.02	2.75	0.5
Trifluralin	94	1.0	0.50	0.51	4.1

1/ Planted acres in 2000 for New York were 8,600 acres.

Beans, Snap, Fresh: Agricultural Chemical Applications, North Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Metolachlor	60	1.0	1.47	1.47	7.1
Sethoxydim	8	1.0	0.19	0.19	0.1
Trifluralin	3	1.0	0.72	0.72	0.2
Insecticides:					
Acephate	22	1.0	0.53	0.53	0.9
Carbaryl	68	1.0	0.95	1.01	5.5
Endosulfan	1	2.7	0.19	0.53	0.1
Esfenvalerate	20	1.1	0.03	0.03	0.1
Methomyl	9	1.2	0.30	0.39	0.3
Fungicides:					
Chlorothalonil	13	1.3	1.27	1.77	1.9

1/ Planted acres in 2000 for North Carolina were 8,000 acres.

Beans, Snap, Fresh: Agricultural Chemical Applications, Tennessee, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Sethoxydim	49	1.0	0.22	0.22	1.1
Trifluralin	8	1.0	0.91	0.94	0.8
Insecticides:					
Carbaryl	2	1.5	0.95	1.48	0.4
Esfenvalerate	93	1.2	0.02	0.03	0.3
Methomyl	*	3.3	0.45	1.49	0.1
Fungicides:					
Chlorothalonil	58	1.1	1.34	1.60	9.7
Sulfur	*	1.4	1.98	2.89	0.2

* Area applied is less than one percent.
1/ Planted acres in 2000 for Tennessee were 10,500 acres.

Beans, Snap, Processing: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States: IL	MI	NY	OR	PA	WI
Herbicides							
2,4-D	*				*		*
Bentazon	P	P	P	P	P	P	P
Chloramben	*		*				
Clomazone	*					*	
Diuron	*				*		
EPTC	P	*	*	P	P	P	P
Ethalfluralin	*				*		
Fomesafen	P	*	*	P		P	
Glyphosate	P		*	*	P	P	P
Imazethapyr	P	P					P
Lactofen	P				P		
MCPA	*				*		
Metolachlor	P	P	P	P	P	P	P
Paraquat	*			*			
Pendimethalin	P	*	*	P		*	P
Quizalofop-ethyl	P	*	*	*			P
S-Metolachlor	P	P		*	P	P	*
Sethoxydim	P	*	*	*	P	*	P
Trifluralin	P	*	P	P	P	*	P
Insecticides							
Acephate	P	*	P	P		P	*
Bifenthrin	P	P	*		*		P
Carbaryl	P	P		*	P	*	
Cyfluthrin	*					*	
Diazinon	P				P		
Dimethoate	P	P	P	P		P	P
Disulfoton	P		P	*		*	
Endosulfan	*	*					
Esfenvalerate	P	P	*	*	P	*	*
Ethoprop	P				P		
Fonofos	*				*		
Lambda-cyhalothrin	*			*			
Methomyl	P	*				*	
Methoxychlor	*					*	
Methyl parathion	P	*	*				
Permethrin	*	*	*			*	
Petroleum distillate	*		*				
Rotenone	*		*				

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Beans, Snap, Processing: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States: IL	MI	NY	OR	PA	WI
Fungicides							
Benomyl	P	*		*		*	P
Chlorothalonil	P			*		*	
Copper ammonium	*			*			
Copper hydroxide	P	*	*				P
Dicloran	*			*			
Iprodione	P		*	*	*		*
Mancozeb	*					*	
Mefenoxam	*				*		
Metalaxyl	P		*		P	*	
Myclobutanil	*					*	
PCNB	*		*				
Thiophanate-methyl	P	P		*			*
Vinclozolin	P		P	P	P	P	
Other Chemicals							
Cytokinins	P				P		
Gibberellic acid	*				*		
Indolebutyric Acid	*				*		
Metaldehyde	*				*		

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

Beans, Snap, Processing: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied: Herbicide Percent	Herbicide 1,000 Lbs	Insecticide Percent	Insecticide 1,000 Lbs	Fungicide Percent	Fungicide 1,000 Lbs	Other Chemical Percent	Other Chemical 1,000 Lbs
	Acres								
IL	15,900	92	19.6	50	7.5	30	9.1		
MI	25,500	97	66.8	83	28.8	34	6.3		
NY	28,800	97	73.7	59	8.1	78	18.0		
OR	22,100	99	106.3	88	36.5	90	10.3	6	0.1
PA	8,700	84	24.9	81	9.3	66	3.2		
WI	71,900	96	186.7	93	30.7	51	57.0		
Total	172,900	96	478.0	81	120.9	57	103.9	1	0.1

Beans, Snap, Processing: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bentazon	27	1.0	0.70	0.74	34.4
EPTC	59	1.0	2.58	2.67	273.6
Fomesafen	15	1.0	0.18	0.19	4.8
Glyphosate	6	1.3	0.71	0.98	10.0
Imazethapyr	7	1.0	0.02	0.03	0.3
Lactofen	3	1.0	0.13	0.14	0.7
Metolachlor	27	1.0	1.24	1.27	59.5
Pendimethalin	11	1.0	0.82	0.83	15.7
Quizalofop-ethyl	3	1.0	0.06	0.06	0.4
S-Metolachlor	13	1.0	1.07	1.14	26.2
Sethoxydim	6	1.0	0.25	0.25	2.5
Trifluralin	54	1.1	0.46	0.51	48.1
Insecticides:					
Acephate	25	1.0	0.72	0.77	33.1
Bifenthrin	38	1.7	0.04	0.07	4.6
Carbaryl	3	1.1	0.93	1.09	6.5
Diazinon	3	1.0	0.55	0.59	2.7
Dimethoate	29	1.1	0.43	0.51	25.8
Disulfoton	8	1.0	0.99	0.99	13.2
Esfenvalerate	11	1.1	0.03	0.04	0.6
Ethoprop	7	1.0	2.42	2.47	28.8
Methomyl	*	1.0	0.45	0.45	0.7
Methyl parathion	5	1.0	0.49	0.51	3.9
Fungicides:					
Benomyl	13	1.0	0.74	0.79	17.2
Chlorothalonil	1	1.0	1.32	1.35	2.5
Copper hydroxide	15	1.4	0.97	1.37	35.6
Iprodione	2	1.0	0.89	0.93	4.0
Metalaxyl	1	1.0	0.08	0.09	0.1
Thiophanate-methyl	5	1.0	1.38	1.38	11.8
Vinclozolin	31	1.1	0.50	0.59	32.1
Other Chemicals:					
Cytokinins 2/	*	1.4			

* Area applied is less than one percent.
1/ Planted acres in 2000 for the 6 program states were 172,900 acres. States included are IL, MI, NY, OR, PA and WI.
2/ Rates and total applied are not available because amount of active ingredient is too small.

Beans, Snap, Processing: Agricultural Chemical Applications, Illinois, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bentazon	23	1.1	0.58	0.66	2.4
Imazethapyr	5	1.4	0.02	0.03	**
Metolachlor	13	1.1	1.32	1.52	3.2
S-Metolachlor	29	1.3	1.24	1.62	7.4
Insecticides:					
Bifenthrin	39	2.6	0.04	0.11	0.7
Carbaryl	5	1.4	0.90	1.28	1.0
Dimethoate	27	1.3	0.48	0.64	2.8
Esfenvalerate	9	1.1	0.03	0.03	**
Fungicides:					
Thiophanate-methyl	15	1.0	1.40	1.40	3.3

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Illinois were 15,900 acres.

Beans, Snap, Processing: Agricultural Chemical Applications, Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bentazon	58	1.1	0.72	0.80	11.9
Metolachlor	51	1.0	1.37	1.38	17.8
Trifluralin	43	1.0	0.52	0.52	5.8
Insecticides:					
Acephate	55	1.0	0.76	0.79	11.1
Dimethoate	22	1.0	0.45	0.49	2.8
Disulfoton	40	1.0	0.97	0.97	9.9
Fungicides:					
Vinclozolin	31	1.1	0.50	0.60	4.7

1/ Planted acres in 2000 for Michigan were 25,500 acres.

Beans, Snap, Processing: Agricultural Chemical Applications, New York, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bentazon	33	1.0	0.34	0.35	3.3
EPTC	78	1.0	1.85	1.85	41.5
Fomesafen	74	1.0	0.18	0.18	3.8
Metolachlor	38	1.0	0.87	0.87	9.5
Pendimethalin	12	1.0	1.11	1.11	4.0
Trifluralin	83	1.2	0.33	0.42	10.1
Insecticides:					
Acephate	34	1.0	0.52	0.56	5.5
Dimethoate	6	1.0	0.49	0.49	0.9
Fungicides:					
Vinclozolin	73	1.3	0.52	0.69	14.7

1/ Planted acres in 2000 for New York were 28,800 acres.

Beans, Snap, Processing: Agricultural Chemical Applications, Oregon, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bentazon	32	1.0	0.95	0.98	6.9
EPTC	93	1.0	3.33	3.35	68.8
Glyphosate	18	1.7	0.75	1.35	5.5
Lactofen	22	1.0	0.13	0.14	0.7
Metolachlor	37	1.0	1.37	1.39	11.4
S-Metolachlor	18	1.0	0.94	0.94	3.8
Sethoxydim	10	1.0	0.25	0.27	0.6
Trifluralin	60	1.0	0.53	0.53	7.1
Insecticides:					
Carbaryl	20	1.1	0.92	1.05	4.7
Diazinon	21	1.0	0.55	0.59	2.7
Esfenvalerate	37	1.1	0.03	0.04	0.3
Ethoprop	53	1.0	2.42	2.47	28.8
Fungicides:					
Metalaxyl	7	1.0	0.07	0.07	0.1
Vinclozolin	89	1.0	0.48	0.51	10.1
Other Chemicals:					
Cytokinins 2/	6	1.4			

1/ Planted acres in 2000 for Oregon were 22,100 acres.
2/ Rates and total applied are not available because amount of active ingredient is too small.

Beans, Snap, Processing: Agricultural Chemical Applications, Pennsylvania, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bentazon	12	1.0	0.51	0.56	0.6
EPTC	43	1.0	3.17	3.17	12.0
Fomesafen	23	1.0	0.25	0.27	0.5
Glyphosate	15	1.4	0.64	0.94	1.2
Metolachlor	42	1.1	1.75	2.06	7.5
S-Metolachlor	29	1.0	1.10	1.10	2.7
Insecticides:					
Acephate	61	1.0	0.73	0.78	4.2
Dimethoate	33	1.5	0.41	0.65	1.9
Fungicides:					
Vinclozolin	62	1.0	0.46	0.49	2.6

1/ Planted acres in 2000 for Pennsylvania were 8,700 acres.

Beans, Snap, Processing: Agricultural Chemical Applications, Wisconsin, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bentazon	14	1.0	0.88	0.89	9.3
EPTC	65	1.0	2.49	2.67	125.0
Glyphosate	6	1.0	0.64	0.64	2.9
Imazethapyr	15	1.0	0.02	0.02	0.3
Metolachlor	12	1.0	1.12	1.12	10.1
Pendimethalin	14	1.0	0.55	0.55	5.5
Quizalofop-ethyl	4	1.0	0.06	0.06	0.2
Sethoxydim	2	1.0	0.20	0.20	0.3
Trifluralin	57	1.0	0.49	0.54	21.8
Insecticides:					
Bifenthrin	75	1.7	0.04	0.07	3.7
Dimethoate	49	1.1	0.42	0.49	17.4
Fungicides:					
Benomyl	28	1.0	0.77	0.81	16.1
Copper hydroxide	30	1.3	0.99	1.36	29.2

1/ Planted acres in 2000 for Wisconsin were 71,900 acres.

Beets: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States: ALL	NY	WI
Herbicides			
Cycloate	P	P	P
Desmedipham	*	*	
Glyphosate	*	*	
Phenmedipham	*	*	
Pyrazon	P	*	*
Sethoxydim	*		*
Insecticides			
Carbaryl	*	*	
Chlorpyrifos	*		*
Diazinon	*	*	
Endosulfan	*	*	
Lambda-cyhalothrin	*	*	
Methomyl	*	*	
Permethrin	*	*	
Pyrethrins	*	*	
Rotenone	*	*	
Fungicides			
Chlorothalonil	*	*	
Copper oxychlo. sul.	*	*	
Maneb	*	*	
Metalaxyl	*	*	

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

Beets: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied: Herbicide Percent	Herbicide 1,000 Lbs	Insecticide Percent	Insecticide 1,000 Lbs	Fungicide Percent	Fungicide 1,000 Lbs	Other Chemical Percent	Other Chemical 1,000 Lbs
	Acres								
NY 2/	2,600	96	7.9						
WI 2/	3,800	99	15.5						
Total	6,400	98	23.4						

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

Beets: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Cycloate	98	1.0	2.70	2.71	17.0
Pyrazon	48	1.5	1.33	2.07	6.4

1/ Planted acres in 2000 for the 2 program states were 6,400 acres.
States included are NY and WI.

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

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Cycloate	96	1.0	1.57	1.59	4.0

1/ Planted acres in 2000 for New York were 2,600 acres.

Beets: Agricultural Chemical Applications,
Wisconsin, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Cycloate	99	1.0	3.45	3.45	13.0

1/ Planted acres in 2000 for Wisconsin were 3,800 acres.

Broccoli: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States: ALL	AZ	CA
Herbicides			
Bensulide	P	P	P
Bromoxynil	*	*	
DCPA	P	*	*
Diclofop-methyl	*	*	
Glyphosate	*	*	*
Linuron	*		*
Napropamide	P		P
Oxyfluorfen	P	*	*
Paraquat	*	*	*
Pronamide	*		*
Sethoxydim	P	*	*
Tralkoxydim	*	*	
Trifluralin	P	P	P
Insecticides			
Acephate	*		*
Azadirachtin	*		*
Bifenthrin	*	*	*
Bt (Bacillus thur.)	P	*	P
Carbaryl	*	*	*
Chlorpyrifos	P	P	P
Cypermethrin	P	P	P
Diazinon	P	P	P
Dimethoate	P	*	*
Disulfoton	P		P
Emamectin benzoate	*		*
Endosulfan	P	*	*
Esfenvalerate	P	P	P
Fonofos	*		*
Imidacloprid	P	*	*
Lambda-cyhalothrin	P	P	P
Malathion	P	*	*
Methamidophos	*		*
Methomyl	P	P	P
Naled	P		P
Neem oil	*		*
Neem oil, clar. hyd.	*		*
Oxamyl	*		*
Oxydemeton-methyl	P	*	*
Permethrin	P	P	P
Piperonyl butoxide	*		*
Potassium salts	P		P
Pyrethrins	P	*	*
Rotenone	*		*
Spinosad	P	P	P
Tebufenozide	P	P	P
Thiodicarb	P	*	*
Tralomethrin	P		P
Zeta-cypermethrin	*	*	

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Broccoli: Active Ingredients Applied and Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States ALL	AZ	CA
Fungicides			
Basic copper sulfate	*		*
Chlorothalonil	P		P
Copper hydroxide	P		P
Copper oxide	*		*
Fosetyl-al	P	*	*
Iprodione	*		*
Maneb	P	P	P
Mefenoxam	P	*	*
Metalaxyl	P		P
Sulfur	*	*	
Other Chemicals			
Chloropicrin	*		*
Dichloropropene	*		*
Methyl bromide	*		*

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

Broccoli: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide 1/:		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
AZ	11,500	44	19.5	72	9.7	17	3.9		
CA	124,000	52	214.8	94	260.4	15	22.0	1	222.7
Total	135,500	51	234.3	92	270.1	15	25.9	1	222.7

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

Broccoli: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	16	1.1	3.66	4.35	92.8
DCPA	22	1.1	4.03	4.52	133.7
Napropamide	2	1.1	0.40	0.46	1.1
Oxyfluorfen	7	1.0	0.18	0.19	1.7
Sethoxydim	*	1.2	0.24	0.29	0.3
Trifluralin	7	1.0	0.43	0.45	4.2
Insecticides:					
Bt (Bacillus thur.)2/	10	1.4			
Chlorpyrifos	31	1.2	1.24	1.53	64.2
Cypermethrin	6	1.0	0.08	0.09	0.8
Diazinon	21	1.2	0.81	1.04	28.9
Dimethoate	42	1.3	0.48	0.65	36.6
Disulfoton	5	1.0	1.02	1.05	7.2
Endosulfan	2	1.1	0.83	0.93	2.4
Esfenvalerate	40	1.4	0.04	0.06	3.2
Imidacloprid	42	1.2	0.12	0.16	8.9
Lambda-cyhalothrin	18	1.5	0.03	0.04	1.0
Malathion	*	1.0	2.02	2.13	1.9
Methomyl	13	1.1	0.60	0.69	11.9
Naled	6	1.0	1.40	1.42	11.2
Oxydemeton-methyl	54	1.4	0.50	0.70	50.6
Permethrin	14	1.1	0.09	0.11	2.0
Potassium salts	*	1.5	7.48	11.38	10.1
Pyrethrins	*	1.3	0.01	0.02	**
Spinosad	66	1.5	0.07	0.11	9.6
Tebufenozide	5	1.0	0.11	0.12	0.7
Thiodicarb	2	1.5	0.74	1.16	3.7
Tralomethrin	6	1.0	0.02	0.02	0.2
Fungicides:					
Chlorothalonil	6	1.2	1.02	1.24	9.2
Copper hydroxide	2	1.2	0.42	0.50	1.5
Fosetyl-al	*	1.1	2.10	2.30	2.5
Maneb	3	1.1	1.23	1.36	5.7
Mefenoxam	4	1.1	0.09	0.10	0.5
Metalaxyl	*	1.4	0.10	0.15	0.2

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 2 program states were 135,500 acres. States included are AZ and CA.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Broccoli: Agricultural Chemical Applications, Arizona, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	20	1.6	3.76	6.31	14.4
Trifluralin	32	1.0	0.55	0.57	2.1
Insecticides:					
Chlorpyrifos	31	1.2	0.79	0.95	3.4
Cypermethrin	23	1.2	0.08	0.10	0.3
Diazinon	17	1.0	0.76	0.77	1.5
Esfenvalerate	27	1.0	0.04	0.05	0.2
Lambda-cyhalothrin	29	1.0	0.03	0.03	0.1
Methomyl	14	1.0	0.60	0.61	1.0
Permethrin	16	1.0	0.10	0.11	0.2
Spinosad	25	1.2	0.08	0.09	0.3
Tebufenozide	26	1.0	0.11	0.11	0.3
Fungicides:					
Maneb	17	1.1	1.11	1.26	2.4

1/ Planted acres in 2000 for Arizona were 11,500 acres.

Broccoli: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	15	1.1	3.64	4.12	78.4
Napropamide	2	1.1	0.40	0.46	1.1
Trifluralin	5	1.0	0.35	0.37	2.1
Insecticides:					
Bt (Bacillus thur.)2/	11	1.4			
Chlorpyrifos	31	1.2	1.28	1.59	60.8
Cypermethrin	5	1.0	0.08	0.09	0.5
Diazinon	21	1.3	0.81	1.06	27.4
Disulfoton	6	1.0	1.02	1.05	7.2
Esfenvalerate	41	1.4	0.04	0.06	3.0
Lambda-cyhalothrin	17	1.6	0.03	0.04	0.9
Methomyl	12	1.1	0.60	0.70	10.9
Naled	6	1.0	1.40	1.42	11.2
Permethrin	14	1.1	0.09	0.11	1.8
Potassium salts	*	1.5	7.48	11.38	10.1
Spinosad	69	1.5	0.07	0.11	9.3
Tebufenozide	3	1.0	0.12	0.12	0.4
Tralomethrin	6	1.0	0.02	0.02	0.2
Fungicides:					
Chlorothalonil	6	1.2	1.02	1.24	9.2
Copper hydroxide	2	1.2	0.42	0.50	1.5
Maneb	2	1.0	1.34	1.44	3.3
Metalaxyl	1	1.4	0.10	0.15	0.2

* Area applied is less than one percent.
1/ Planted acres in 2000 for California were 124,000 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Brussels Sprouts: Active Ingredient Publication Status, 2000

Active Ingredient	CA
Herbicides	
Bentazon	*
Glyphosate	*
Trifluralin	*
Insecticides	
Acephate	*
Azinphos-methyl	*
Bt (Bacillus thur.)	*
Chlorpyrifos	P
Cypermethrin	*
Diazinon	P
Dimethoate	P
Disulfoton	*
Endosulfan	*
Fenamiphos	*
Imidacloprid	P
Lambda-cyhalothrin	*
Malathion	*
Methomyl	*
Oxydemeton-methyl	*
Permethrin	P
Spinosad	*
Fungicides	
Benomyl	*
Chlorothalonil	P
Fosetyl-al	*
Maneb	*
Mefenoxam	*
PCNB	*
Other Chemicals	
Aluminum phosphide	*
Dichloropropene	*
Metaldehyde	*
Metam-sodium	P
Zinc phosphide	*

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

Brussels Sprouts: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
California, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA 2/	2,900	74		13.5		75		12.2	62	165.6

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.

Brussels Sprouts: 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
Insecticides:					
Chlorpyrifos	71	3.8	1.00	3.87	8.0
Diazinon	60	1.8	0.54	1.02	1.8
Dimethoate	54	1.7	0.19	0.34	0.5
Imidacloprid	56	1.4	0.10	0.14	0.2
Permethrin	48	2.0	0.09	0.19	0.3
Fungicides:					
Chlorothalonil	68	1.9	1.29	2.47	4.9
Other Chemicals:					
Metam-sodium	44	1.1	90.62	100.43	128.5

1/ Planted acres in 2000 for California were 2,900 acres.

Cabbage, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States					
	ALL	CA	FL	GA	MI	NJ
Herbicides						
Alachlor	*					*
Bensulide	P	P				P
Bentazon	*					
Clomazone	*				*	
Cyanazine	*					
DCPA	P	P	*			*
Diquat	*		*			
Ethalfluralin	*		*			
Glyphosate	P		*		*	
Linuron	*					
Metolachlor	P		*		P	P
Metribuzin	*					*
Napropamide	P		*		P	*
Oxyfluorfen	P	P		P	*	*
Paraquat	*		*	*		
Pendimethalin	*			*		
Propachlor	*					*
Pyridate	*				*	
S-Metolachlor	*					
Sethoxydim	P	*		*		*
Trifluralin	P	*	*	P	P	P

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Cabbage, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States: CA	FL	GA	MI	NJ
Insecticides						
Acephate	P	*		*		
Azadirachtin	P	*		*	*	*
Azinphos-methyl	P		*	*	*	
Bifenthrin	*					
Bt (Bacillus thur.)	P	P	P	P	P	P
Carbaryl	P		*	P	P	*
Chlorpyrifos	P	P	*		P	*
Cyfluthrin	*					
Cypermethrin	P	*	*	*	*	
Cyromazine	*	*				
Diazinon	P	P	*	*	P	P
Dimethoate	P	P		*		*
Disulfoton	P	*			*	
Emamectin benzoate	P	*	*			
Endosulfan	P		*	P	*	*
Esfenvalerate	P	P		P	P	P
Ethoprop	*	*		*		
Fenamiphos	*	*	*			
Fonofos	*					
Imidacloprid	P	P	*		*	*
Lambda-cyhalothrin	P	*	*		P	P
Malathion	P	*	*		*	
Methamidophos	P		*	*	*	*
Methomyl	P	P	P	P	*	P
Methyl parathion	*					
Mevinphos	*					
Naled	*	*				
Neem oil	*	*				
Neem oil, clar. hyd.	*	*	*			
Oxamyl	*					*
Oxydemeton-methyl	P	P				
Permethrin	P	P	*	*	P	P
Petroleum distillate	*				*	
Phosmet	*				*	
Piperonyl butoxide	*					
Potassium salts	*	*	*			
Pyrethrins	*				*	
Rotenone	P				*	*
SPOD-X GH, SPOD-X LC	*			*		
Spinosad	P	P	P	P	P	P
Tebufenozide	P	*				*
Thiodicarb	P	*	*		*	
Zeta-cypermethrin	*			*		

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Cabbage, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States					
	ALL	CA	FL	GA	MI	NJ
Fungicides						
Azoxystrobin	*					
Benomyl	P			*		
Captan	*					
Chlorothalonil	P	P	P	P	P	P
Copper ammonium	*					
Copper chloride hyd.	*					
Copper hydroxide	P	*	P	*	P	
Copper oxychlo. sul.	*					
Copper resinate	*					
Copper sulfate	*					
Fosetyl-al	*			*		
Mancozeb	P	*	*	P	*	*
Maneb	P	P	P	P	*	*
Mefenoxam	P	*	*		*	
Metalaxyl	P	*		*		*
Metiram	*					
Sulfur	*		*		*	
Thiophanate-methyl	*			*		
Other Chemicals						
Chloropicrin	*	*	*			
Dichloropropene	*	*		*		
Metam-sodium	*		*			
Methyl bromide	*		*			

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

Cabbage, Fresh: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States			
	NY	NC	TX	WI
Herbicides				
Alachlor				
Bensulide	*		*	
Bentazon			*	
Clomazone				*
Cyanazine	*			
DCPA		*	*	*
Diquat				
Ethalfluralin			*	
Glyphosate	*		*	*
Linuron	*			
Metolachlor	P	*	*	*
Metribuzin				
Napropamide	*	*		*
Oxyfluorfen	*	P		*
Paraquat				
Pendimethalin		*	*	
Propachlor				
Pyridate				*
S-Metolachlor			*	
Sethoxydim	*	*		*
Trifluralin	P	*	P	P

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Cabbage, Fresh: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States			
	NY	NC	TX	WI
Insecticides				
Acephate		*		
Azadirachtin				
Azinphos-methyl	P	*	*	
Bifenthrin			*	
Bt (Bacillus thur.)	P	P	P	P
Carbaryl	P	P	*	*
Chlorpyrifos	P	*		*
Cyfluthrin				*
Cypermethrin	*		*	*
Cyromazine				
Diazinon	P	*	P	
Dimethoate	P	*		
Disulfoton		*	*	
Emamectin benzoate		*	*	
Endosulfan	P	P	P	*
Esfenvalerate	P	P	P	P
Ethoprop				
Fenamiphos				
Fonofos	*			
Imidacloprid	*		P	
Lambda-cyhalothrin	P	P	P	P
Malathion		*	*	
Methamidophos		*	*	
Methomyl	P	P	P	*
Methyl parathion			*	
Mevinphos		*		
Naled				
Neem oil				
Neem oil, clar. hyd.				
Oxamyl				
Oxydemeton-methyl	*		*	
Permethrin	P	P	P	P
Petroleum distillate				
Phosmet				
Piperonyl butoxide		*		
Potassium salts	*			
Pyrethrins	*	*		
Rotenone	*			
SPOD-X GH, SPOD-X LC				
Spinosad	*	P	P	*
Tebufenozide			P	
Thiodicarb	*	*	*	
Zeta-cypermethrin				

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Cabbage, Fresh: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States NY	NC	TX	WI
Fungicides				
Azoxystrobin			*	
Benomyl	*	*	*	
Captan	*	*		
Chlorothalonil	P	*	P	*
Copper ammonium			*	
Copper chloride hyd.		*		
Copper hydroxide	P	*	*	
Copper oxychlo. sul.	*			
Copper resinate	*	*		
Copper sulfate	*			
Fosetyl-al				
Mancozeb	*			
Maneb	*	*	*	
Mefenoxam			*	
Metalaxyl	*		P	*
Metiram			*	
Sulfur		*	*	
Thiophanate-methyl				
Other Chemicals				
Chloropicrin			*	
Dichloropropene			*	
Metam-sodium				
Methyl bromide		*		

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

Cabbage, Fresh: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA	13,700	61	13.5	95	39.3	40	11.9	*	7.4
FL	8,200	72	6.0	95	16.0	99	54.4	33	175.7
GA 2/	7,900	34	1.6	97	6.2	96	73.4		
MI	1,800	55	1.1	91	1.4	61	2.6		
NJ	1,600	77	3.7	87	0.8	44	1.8		
NY	13,400	90	11.4	99	21.0	85	28.0		
NC 2/	9,300	71	3.5	100	6.8	17	10.1		
TX	10,700	40	10.2	93	9.7	63	19.0	*	1.0
WI 2/	4,800	71	2.6	100	0.9				
Total	71,400	64	53.6	96	102.1	60	201.2	4	214.5

* Area applied is less than one percent.
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.

Cabbage, Fresh: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	5	1.0	4.17	4.50	14.9
DCPA	4	1.0	2.66	2.70	7.9
Glyphosate	*	1.0	0.60	0.63	0.3
Metolachlor	8	1.0	1.31	1.31	7.6
Napropamide	4	1.0	0.62	0.62	1.9
Oxyfluorfen	13	1.0	0.30	0.33	2.9
Sethoxydim	3	1.0	0.27	0.28	0.5
Trifluralin	36	1.0	0.66	0.68	17.1
Insecticides:					
Acephate	*	1.0	0.75	0.81	0.1
Azadirachtin	*	1.2	0.02	0.03	**
Azinphos-methyl	5	1.5	0.44	0.69	2.3
Bt (Bacillus thur.)2/	60	4.0			
Carbaryl	1	1.7	0.74	1.31	1.2
Chlorpyrifos	14	1.0	0.80	0.87	8.8
Cypermethrin	6	1.0	0.08	0.09	0.3
Diazinon	12	1.3	0.81	1.10	9.5
Dimethoate	25	1.8	0.49	0.90	16.0
Disulfoton	3	1.1	1.42	1.66	3.4
Emamectin benzoate	6	1.9	0.007	0.01	**
Endosulfan	15	1.5	0.67	1.01	11.2
Esfenvalerate	28	2.6	0.04	0.09	1.8
Imidacloprid	20	1.4	0.11	0.16	2.3
Lambda-cyhalothrin	34	2.1	0.03	0.05	1.3
Malathion	*	1.0	1.74	1.74	0.7
Methamidophos	2	1.3	0.53	0.73	0.9
Methomyl	13	1.7	0.47	0.80	7.3
Oxydemeton-methyl	9	1.4	0.56	0.81	5.4
Permethrin	14	2.0	0.11	0.22	2.2
Rotenone	*	1.9	0.06	0.11	**
Spinosad	40	2.5	0.06	0.16	4.5
Tebufenozide	5	2.6	0.11	0.29	1.0
Thiodicarb	5	2.8	0.75	2.11	7.1
Fungicides:					
Benomyl	*	1.0	0.41	0.42	0.2
Chlorothalonil	47	3.4	1.08	3.66	122.5
Copper hydroxide	5	2.2	0.67	1.51	5.1
Mancozeb	3	4.5	1.03	4.73	10.5
Maneb	17	3.5	1.18	4.13	49.5
Mefenoxam	7	1.1	0.10	0.11	0.5
Metalaxyl	2	1.3	0.13	0.17	0.2

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 9 program states were 71,400 acres. States included are CA, FL, GA, MI, NJ, NY, NC, TX and WI.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cabbage, Fresh: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	10	1.0	3.82	4.05	5.4
DCPA	18	1.0	2.56	2.60	6.5
Oxyfluorfen	25	1.2	0.23	0.27	0.9
Insecticides:					
Bt (Bacillus thur.)2/	46	2.1			
Chlorpyrifos	45	1.1	0.94	1.04	6.4
Diazinon	15	2.0	0.67	1.36	2.7
Dimethoate	40	1.8	0.48	0.90	5.0
Esfenvalerate	46	1.2	0.04	0.05	0.3
Imidacloprid	62	1.5	0.13	0.20	1.7
Methomyl	30	1.2	0.58	0.70	2.8
Oxydemeton-methyl	48	1.4	0.57	0.82	5.4
Permethrin	24	1.4	0.14	0.20	0.7
Spinosad	80	2.9	0.08	0.23	2.5
Fungicides:					
Chlorothalonil	34	1.5	1.17	1.77	8.3
Maneb	13	1.0	1.34	1.44	2.6

1/ Planted acres in 2000 for California were 13,700 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cabbage, Fresh: Agricultural Chemical Applications, Florida, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Bt (Bacillus thur.)2/	95	5.6			
Methomyl	8	1.0	0.52	0.53	0.3
Spinosad	58	2.0	0.06	0.13	0.6
Fungicides:					
Chlorothalonil	73	7.9	0.89	7.10	42.3
Copper hydroxide	19	3.0	0.68	2.07	3.2
Maneb	12	3.4	0.84	2.86	2.7

1/ Planted acres in 2000 for Florida were 8,200 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cabbage, Fresh: Agricultural Chemical Applications, Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Oxyfluorfen	7	1.0	0.34	0.34	0.2
Trifluralin	27	1.0	0.57	0.57	1.2
Insecticides:					
Bt (Bacillus thur.)2/	86	8.1			
Carbaryl	*	2.7	0.42	1.18	0.1
Endosulfan	33	2.0	0.75	1.55	4.0
Esfenvalerate	46	2.3	0.04	0.08	0.3
Methomyl	4	3.9	0.30	1.19	0.4
Spinosad	14	3.1	0.05	0.15	0.2
Fungicides:					
Chlorothalonil	90	4.2	1.14	4.89	34.7
Mancozeb	7	3.5	0.88	3.11	1.8
Maneb	64	5.7	1.25	7.17	36.5

* Area applied is less than one percent.
1/ Planted acres in 2000 for Georgia were 7,900 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cabbage, Fresh: Agricultural Chemical Applications, Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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	*	2.6	1.02	2.67	**
Chlorpyrifos	18	1.0	0.64	0.70	0.2
Diazinon	5	2.0	0.51	1.05	0.1
Esfenvalerate	34	1.4	0.04	0.05	**
Lambda-cyhalothrin	32	2.5	0.02	0.06	**
Permethrin	8	2.7	0.08	0.23	**
Spinosad	31	1.9	0.04	0.08	**
Fungicides:					
Chlorothalonil	35	2.3	1.11	2.62	1.6
Copper hydroxide	27	2.0	0.67	1.36	0.7

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

Cabbage, Fresh: Agricultural Chemical Applications, New Jersey, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	35	1.0	5.55	5.55	3.1
Metolachlor	16	1.0	0.81	0.85	0.2
Trifluralin	8	1.0	0.82	0.82	0.1
Insecticides:					
Bt (Bacillus thur.)2/	46	3.0			
Diazinon	25	1.1	0.30	0.35	0.1
Esfenvalerate	23	1.3	0.02	0.03	**
Lambda-cyhalothrin	38	2.2	0.03	0.06	**
Methomyl	20	3.1	0.47	1.50	0.5
Permethrin	11	2.2	0.12	0.27	**
Spinosad	6	1.1	0.10	0.11	**
Fungicides:					
Chlorothalonil	43	2.0	1.23	2.54	1.7

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for New Jersey were 1,600 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cabbage, Fresh: Agricultural Chemical Applications, New York, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Metolachlor	27	1.0	1.04	1.04	3.7
Trifluralin	88	1.0	0.62	0.64	7.6
Insecticides:					
Azinphos-methyl	17	1.7	0.47	0.83	1.9
Bt (Bacillus thur.)2/	30	1.4			
Carbaryl	1	1.4	0.73	1.09	0.2
Chlorpyrifos	5	1.2	0.74	0.94	0.6
Diazinon	*	2.1	0.50	1.09	**
Dimethoate	83	1.9	0.50	0.95	10.6
Endosulfan	33	1.0	0.70	0.72	3.2
Esfenvalerate	47	4.4	0.04	0.18	1.1
Lambda-cyhalothrin	47	1.8	0.02	0.04	0.3
Methomyl	2	1.9	0.45	0.88	0.2
Permethrin	7	1.5	0.12	0.19	0.2
Fungicides:					
Chlorothalonil	79	1.7	1.35	2.34	24.6
Copper hydroxide	*	2.4	0.56	1.36	**

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for New York were 13,400 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cabbage, Fresh: Agricultural Chemical Applications, North Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Oxyfluorfen	48	1.0	0.37	0.38	1.7
Insecticides:					
Bt (Bacillus thur.)2/	75	3.5			
Carbaryl	5	1.7	0.98	1.74	0.7
Endosulfan	14	1.9	0.71	1.41	1.8
Esfenvalerate	23	1.4	0.02	0.03	0.1
Lambda-cyhalothrin	28	1.5	0.02	0.03	0.1
Methomyl	24	2.0	0.45	0.92	2.0
Permethrin	27	2.8	0.09	0.24	0.6
Spinosad	28	2.2	0.01	0.03	0.1

1/ Planted acres in 2000 for North Carolina were 9,300 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cabbage, Fresh: Agricultural Chemical Applications, Texas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	29	1.0	0.85	0.90	2.8
Insecticides:					
Bt (Bacillus thur.)2/	69	3.0			
Diazinon	31	1.2	1.24	1.51	5.0
Endosulfan	14	1.2	0.64	0.82	1.2
Esfenvalerate	7	5.3	0.006	0.03	**
Imidacloprid	26	1.4	0.12	0.17	0.5
Lambda-cyhalothrin	50	2.4	0.03	0.07	0.4
Methomyl	9	1.1	0.34	0.40	0.4
Permethrin	22	1.9	0.12	0.23	0.5
Spinosad	35	2.5	0.06	0.16	0.6
Tebufenozide	17	2.8	0.11	0.31	0.6
Fungicides:					
Chlorothalonil	24	1.7	1.10	1.88	4.8
Metalaxyl	8	1.2	0.07	0.09	0.1

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Texas were 10,700 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cabbage, Fresh: Agricultural Chemical Applications, Wisconsin, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	71	1.0	0.65	0.65	2.2
Insecticides:					
Bt (Bacillus thur.)2/	43	1.1			
Esfenvalerate	1	5.3	0.03	0.16	**
Lambda-cyhalothrin	98	2.1	0.02	0.05	0.2
Permethrin	13	1.4	0.10	0.15	0.1

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Wisconsin were 4,800 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cabbage, Kraut: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States		
	ALL	NY	WI
Herbicides			
Clomazone	P		P
Metolachlor	P	*	*
Napropamide	*	*	
Paraquat	*	*	
Trifluralin	P	*	*
Insecticides			
Azinphos-methyl	*	*	
Bt (Bacillus thur.)	P	P	
Carbaryl	P	*	*
Chlorpyrifos	*	*	
Cypermethrin	*	*	
Diazinon	*	*	
Dimethoate	P	P	
Disulfoton	*	*	
Endosulfan	P	P	
Esfenvalerate	*	*	*
Lambda-cyhalothrin	P	*	*
Oxydemeton-methyl	*	*	
Permethrin	P	P	P
Spinosad	*	*	
Fungicides			
Chlorothalonil	P	P	
Copper hydroxide	*	*	
Copper sulfate	*	*	
Other Chemicals			
Cytokinins	*	*	
Gibberellic acid	*	*	
Indolebutyric Acid	*	*	

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

Cabbage, Kraut: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
NY 2/	2,900	66	1.8	97	6.1	15	0.5		
WI	3,800	100	9.1	100	1.6				
Total	6,700	85	10.9	99	7.7	6	0.5		

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.

Cabbage, Kraut: Agricultural Chemical Applications,
Program States, 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:					
Clomazone	56	1.0	0.21	0.21	0.8
Metolachlor	62	1.0	1.49	1.56	6.5
Trifluralin	61	1.0	0.81	0.88	3.6
Insecticides:					
Bt (Bacillus thur.)2/	9	1.3			
Carbaryl	2	1.7	0.95	1.62	0.3
Dimethoate	37	2.7	0.50	1.37	3.4
Endosulfan	19	1.3	0.71	0.95	1.2
Lambda-cyhalothrin	40	2.6	0.02	0.06	0.2
Permethrin	63	2.0	0.18	0.36	1.5
Fungicides:					
Chlorothalonil	5	1.8	0.65	1.22	0.4

1/ Planted acres in 2000 for the 2 program states were 6,700 acres. States included are NY and WI.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cabbage, Kraut: Agricultural Chemical Applications, New York, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Bt (Bacillus thur.)2/	20	1.3			
Dimethoate	85	2.7	0.50	1.37	3.4
Endosulfan	43	1.3	0.71	0.95	1.2
Permethrin	22	1.2	0.14	0.17	0.1
Fungicides:					
Chlorothalonil	11	1.8	0.65	1.22	0.4

1/ Planted acres in 2000 for New York were 2,900 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cabbage, Kraut: Agricultural Chemical Applications, Wisconsin, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Clomazone	99	1.0	0.21	0.21	0.8
Insecticides:					
Permethrin	94	2.1	0.18	0.40	1.4

1/ Planted acres in 2000 for Wisconsin were 3,800 acres.

Carrots, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States: CA	FL	MI	TX	WA
Herbicides						
2,4-D	*				*	
Fluazifop-P-butyl	P	P		P	*	*
Glyphosate	P	*		*		*
Glyphosate, is. salt	*	*				
Linuron	P	P	*	P	*	*
Metolachlor	*			*		
Paraquat	*	*				*
S-Metolachlor	*			*		
Sethoxydim	P	*				*
Sulfosate	*					*
Trifluralin	P	P		*	P	*
Insecticides						
Bt (Bacillus thur.)	*	*			*	
Carbaryl	P			*	*	
Cyfluthrin	*	*		*	*	
Diazinon	P	P		P	*	*
Dimethoate	*			*		
Endosulfan	*	*		*		
Esfenvalerate	P	*		*	*	*
Lambda-cyhalothrin	*			*		
Malathion	P	*		*		
Methomyl	*	*			*	
Neem oil	*	*				
Oxamyl	P		*	*	*	*
Permethrin	*			*		
Petroleum distillate	*			*		
Potassium salts	*					*
Fungicides						
Azoxystrobin	*			*		
Basic copper sulfate	*				*	
Benomyl	*			*	*	
Chlorothalonil	P	P	*	P	P	*
Copper ammonium	*					*
Copper hydroxide	P	*	*	P		*
Iprodione	P	*			*	
Mancozeb	*			*	*	
Mefenoxam	P	P			*	*
Metalaxyl	*	*				
Sulfur	P	P			*	*

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Carrots, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States: ALL	CA	FL	MI	TX	WA
Other Chemicals						
Chloropicrin	*	*				
Dichloropropene	P	P	*	*		*
Gibberellic acid	*				*	
Metam-sodium	P	*				*

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

Carrots, Fresh: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied: Herbicide Acres	Herbicide Percent	Herbicide 1,000 Lbs	Insecticide 1/ Percent	Insecticide 1/ 1,000 Lbs	Fungicide Percent	Fungicide 1,000 Lbs	Other Chemical Percent	Other Chemical 1,000 Lbs
CA	86,500	55	73.2	5	4.9	44	153.1	33	3,743.4	
FL 2/	3/					99				
MI 2/	4,700	100	9.0	73	12.2	88	32.4			
TX 2/	4,900	23	1.2	56	2.8	65	30.4			
WA	3,000	96	4.9	75	1.2	85	4.1	95	760.6	
Total	3/	58		13		49		33		

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/ Certain totals not published in order to avoid disclosure.

Carrots, Fresh: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Fluazifop-P-butyl	8	1.1	0.20	0.23	
Glyphosate	2	1.4	0.49	0.72	
Linuron	50	1.7	0.81	1.38	
Sethoxydim	*	1.0	0.26	0.26	
Trifluralin	19	1.2	0.69	0.85	
Insecticides:					
Carbaryl	*	2.1	0.83	1.76	
Diazinon	3	2.5	0.82	2.09	
Esfenvalerate	4	1.6	0.04	0.06	
Malathion	1	1.8	1.51	2.84	
Oxamyl	6	2.1	0.53	1.12	
Fungicides:					
Chlorothalonil	11	4.1	1.11	4.64	
Copper hydroxide	4	3.0	0.49	1.52	
Iprodione	27	1.3	0.59	0.76	
Mefenoxam	23	1.1	0.20	0.22	
Sulfur	7	1.2	15.56	18.62	
Other Chemicals:					
Dichloropropene	8	1.1	91.34	102.32	
Metam-sodium	28	1.0	124.23	132.98	

* Area applied is less than one percent.
1/ Planted acres and total applied not published to avoid disclosure.
States included are CA, FL, MI, TX and WA.

Carrots, Fresh: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Fluazifop-P-butyl	2	1.1	0.39	0.46	0.9
Linuron	47	1.5	0.88	1.34	54.3
Trifluralin	19	1.2	0.77	0.95	15.3
Insecticides:					
Diazinon	2	1.3	0.51	0.68	1.1
Fungicides:					
Chlorothalonil	2	1.7	1.28	2.19	3.7
Mefenoxam	23	1.0	0.20	0.20	4.1
Sulfur	7	1.0	19.48	20.30	129.8
Other Chemicals:					
Dichloropropene	4	1.1	93.96	106.19	378.7

1/ Planted acres in 2000 for California were 86,500 acres.

Carrots, Fresh: Agricultural Chemical Applications, Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Fluazifop-P-butyl	87	1.2	0.14	0.17	0.7
Linuron	96	2.7	0.66	1.81	8.1
Insecticides:					
Diazinon	25	4.2	0.93	3.96	4.7
Fungicides:					
Chlorothalonil	88	5.4	1.23	6.74	27.8
Copper hydroxide	43	4.2	0.50	2.13	4.3

1/ Planted acres in 2000 for Michigan were 4,700 acres.

Carrots, Fresh: Agricultural Chemical Applications, Texas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	14	1.0	0.56	0.56	0.4
Fungicides:					
Chlorothalonil	54	4.5	0.81	3.74	10.0

1/ Planted acres in 2000 for Texas were 4,900 acres.

Carrots, Processing: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States				
		CA	MI	TX	WA	WI
Herbicides						
Fluazifop-P-butyl	P	*	P		*	P
Glyphosate	*				*	*
Linuron	P	*	P	*	P	P
Metribuzin	P		*			*
Paraquat	*				*	
Sethoxydim	P	*	*		*	*
Sulfosate	*				*	
Trifluralin	P	P	*	*	*	
Insecticides						
Carbaryl	*		*			
Cyfluthrin	*	*	*			*
Diazinon	P	P				
Esfenvalerate	P	*	P	*	*	*
Malathion	*	*				
Methomyl	*	*				
Oxamyl	*			*	*	
Petroleum distillate	*				*	
Fungicides						
Azoxystrobin	*		*			
Basic copper sulfate	*			*		
Benomyl	*			*		*
Chlorothalonil	P	*	P	*	*	P
Copper hydroxide	P	*	*		*	*
Fenbuconazole	*		*			
Iprodione	*	*				
Mancozeb	*					*
Mefenoxam	P	*		*	*	
Metalaxyl	*					*
Sulfur	*	*		*	*	
Other Chemicals						
Chloropicrin	*				*	
Dichloropropene	P	*			*	
Gibberellic acid	*			*		
Metam-sodium	P	*			*	

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

Carrots, Processing: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Herbicide		Insecticide		Fungicide		Other Chemical	
	Acreage	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA 2/	5,000	30	2.2	15	0.7	20	15.4		
MI	1,260	100	2.3	86	0.7	100	8.7		
TX 2/	2,300	67	2.2	51	2.1	68	20.1		
WA	5,300	99	6.9	42	2.4	71	5.1	73	575.1
WI	4,800	100	7.9	99	0.7	95	21.3		
Total	18,660	77	21.5	54	6.6	65	70.6	26	697.3

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

Carrots, Processing: Agricultural Chemical Applications,
Program States, 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:					
Fluazifop-P-butyl	37	1.2	0.16	0.20	1.3
Linuron	74	2.1	0.55	1.19	16.5
Metribuzin	9	1.8	0.14	0.25	0.4
Sethoxydim	3	1.0	0.27	0.27	0.1
Trifluralin	25	1.0	0.56	0.58	2.7
Insecticides:					
Diazinon	3	1.3	0.56	0.73	0.4
Esfenvalerate	44	3.8	0.03	0.12	0.9
Fungicides:					
Chlorothalonil	49	3.3	1.03	3.48	31.7
Copper hydroxide	18	2.5	0.52	1.34	4.5
Mefenoxam	19	1.0	0.14	0.15	0.5
Other Chemicals:					
Dichloropropene	17	1.0	117.81	117.84	383.7
Metam-sodium	12	1.0	134.08	144.00	312.6

1/ Planted acres in 2000 for the 5 program states were 18,660 acres. States included are CA, MI, TX, WA and WI.

Carrots, Processing: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	16	1.2	0.78	0.95	0.8
Insecticides:					
Diazinon	12	1.3	0.56	0.73	0.4

1/ Planted acres in 2000 for California were 5,000 acres.

Carrots, Processing: Agricultural Chemical Applications, Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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 for Michigan were 1,260 acres.

Carrots, Processing: Agricultural Chemical Applications, Washington, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Linuron	98	1.7	0.56	0.96	5.0

1/ Planted acres in 2000 for Washington were 5,300 acres.

Carrots, Processing: Agricultural Chemical Applications, Wisconsin, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Fluazifop-P-butyl	65	1.4	0.16	0.22	0.7
Linuron	100	3.1	0.45	1.40	6.7
Fungicides:					
Chlorothalonil	95	3.7	0.95	3.59	16.4

1/ Planted acres in 2000 for Wisconsin were 4,800 acres.

Cauliflower: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States			
	ALL	AZ	CA	NY
Herbicides				
Alachlor	*			*
Bensulide	P	*	*	
DCPA	P	*	*	
Glyphosate	*		*	*
Metolachlor	*			*
Napropamide	*		*	*
Oxyfluorfen	P		*	*
Paraquat	*		*	
Pronamide	*		*	
Sethoxydim	*	*	*	*
Trifluralin	P	*	*	P
Insecticides				
Acephate	P	*	P	*
Azadirachtin	*		*	
Azinphos-methyl	*			*
Bifenthrin	*	*	*	
Bt (Bacillus thur.)	P	*	P	P
Carbaryl	P			P
Chlorpyrifos	P	*	*	
Cypermethrin	P	*	P	*
Diazinon	P	*	P	*
Dimethoate	P	*	P	*
Disulfoton	*		*	
Emamectin benzoate	*		*	
Endosulfan	P	*	*	*
Esfenvalerate	P	*	P	*
Imidacloprid	P	*	P	*
Lambda-cyhalothrin	P	*	*	P
Malathion	P		P	
Methomyl	P		*	*
Naled	P		P	
Oxydemeton-methyl	P		P	
Permethrin	P	*	P	*
Pyrethrins	*	*	*	
Rotenone	*		*	
Spinosad	P	P	P	P
Tebufenozide	P	*	*	
Thiodicarb	P		P	

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Cauliflower: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States			
	ALL	AZ	CA	NY
Fungicides				
Azoxystrobin	*			*
Benomyl	*		*	*
Chlorothalonil	P		P	P
Copper hydroxide	P		*	*
Copper oxychlo. sul.	*			*
Copper sulfate	*			*
Fosetyl-al	*	*	*	
Mancozeb	*			*
Maneb	P	*	*	
Mefenoxam	P		P	
Metalaxyl	*			*
Other Chemicals				
Metam-sodium	*		*	

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

Cauliflower: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
AZ	4,200	62	6.0	78	1.5	8	0.3		
CA 2/	42,000	46	27.3	96	70.8	9	5.1		
NY	1,100	69	0.6	88	1.6	22	1.3		
Total	47,300	48	33.9	94	73.9	9	6.7		2/

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.

Cauliflower: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	4	1.1	3.80	4.49	8.3
DCPA	8	1.3	3.90	5.07	19.9
Oxyfluorfen	29	1.0	0.26	0.27	3.7
Trifluralin	5	1.1	0.60	0.67	1.5
Insecticides:					
Acephate	3	1.0	0.85	0.89	1.5
Bt (Bacillus thur.)2/	17	1.2			
Carbaryl	*	1.8	0.74	1.41	0.1
Chlorpyrifos	37	1.1	0.89	1.00	17.2
Cypermethrin	6	1.0	0.08	0.09	0.2
Diazinon	5	1.4	0.53	0.75	1.9
Dimethoate	29	1.2	0.46	0.56	7.8
Endosulfan	4	1.5	0.87	1.33	2.7
Esfenvalerate	36	1.3	0.04	0.05	0.9
Imidacloprid	58	1.1	0.15	0.17	4.6
Lambda-cyhalothrin	19	1.3	0.02	0.03	0.2
Malathion	*	1.0	1.73	1.86	0.3
Methomyl	18	1.4	0.53	0.78	6.6
Naled	12	1.0	1.41	1.44	8.3
Oxydemeton-methyl	41	1.3	0.49	0.63	12.4
Permethrin	22	1.2	0.09	0.11	1.0
Spinosad	67	1.3	0.07	0.10	3.0
Tebufenozide	6	1.1	0.12	0.13	0.3
Thiodicarb	5	1.6	0.80	1.35	3.4
Fungicides:					
Chlorothalonil	5	1.2	1.13	1.46	3.5
Copper hydroxide	1	1.1	0.48	0.53	0.2
Maneb	3	1.1	1.21	1.40	2.2
Mefenoxam	5	1.1	0.14	0.16	0.4

* Area applied is less than one percent.
1/ Planted acres in 2000 for the 3 program states were 47,300 acres. States included are AZ, CA and NY.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cauliflower: Agricultural Chemical Applications, Arizona, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Spinosad	71	1.3	0.08	0.11	0.3

1/ Planted acres in 2000 for Arizona were 4,200 acres.

Cauliflower: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Acephate	4	1.0	0.84	0.86	1.3
Bt (Bacillus thur.)2/	16	1.0			
Cypermethrin	3	1.0	0.08	0.08	0.1
Diazinon	6	1.4	0.54	0.77	1.9
Dimethoate	32	1.2	0.47	0.57	7.6
Esfenvalerate	40	1.3	0.04	0.05	0.9
Imidacloprid	65	1.1	0.15	0.17	4.6
Malathion	*	1.0	1.73	1.86	0.3
Naled	14	1.0	1.41	1.44	8.3
Oxydemeton-methyl	46	1.3	0.49	0.63	12.4
Permethrin	23	1.1	0.09	0.11	1.0
Spinosad	69	1.3	0.07	0.09	2.7
Thiodicarb	6	1.6	0.80	1.35	3.4
Fungicides:					
Chlorothalonil	5	1.1	1.05	1.18	2.6
Mefenoxam	5	1.1	0.14	0.16	0.4

* Area applied is less than one percent.
1/ Planted acres in 2000 for California were 42,000 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

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

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	61	1.0	0.76	0.76	0.5
Insecticides:					
Bt (Bacillus thur.)2/	57	3.0			
Carbaryl	5	1.8	0.74	1.41	0.1
Lambda-cyhalothrin	23	1.7	0.02	0.04	**
Spinosad	8	1.8	0.07	0.12	**
Fungicides:					
Chlorothalonil	14	3.6	1.52	5.58	0.9

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for New York were 1,100 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Celery: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States		
	ALL	CA	MI
Herbicides			
Alachlor	*	*	
Bensulide	*	*	
Fluazifop-P-butyl	*		*
Glyphosate	*	*	*
Linuron	P	P	P
Metolachlor	P		P
Oxyfluorfen	*	*	
Paraquat	*	*	
Prometryn	P	P	P
Sethoxydim	P	*	*
Trifluralin	*	*	
Insecticides			
Abamectin	P	P	
Acephate	P	P	P
Azadirachtin	P	P	
Azinphos-methyl	P		P
Beauveria bassiana	*	*	
Bt (Bacillus thur.)	P	P	*
Carbaryl	P	*	*
Cyromazine	P	P	
Diazinon	*	*	*
Dimethoate	P	P	
Emamectin benzoate	*	*	
Endosulfan	P		P
Ethyl parathion	*	*	
Imidacloprid	*	*	
Malathion	P	P	
Methomyl	P	P	P
Mevinphos	*		*
Neem oil	*	*	
Neem oil, clar. hyd.	*	*	
Oxamyl	P	*	*
Oxydemeton-methyl	*	*	
Permethrin	P	P	P
Piperonyl butoxide	*	*	
Potassium salts	*	*	
Pyrethrins	P	P	
Rotenone	P	P	
Silicon dioxide	*	*	
Spinosad	P	P	
Tebufenozide	P	P	
Thiodicarb	P	P	

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Celery: Active Ingredients Applied and Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States: ALL	CA	MI
Fungicides			
Anilazine	*	*	
Basic copper sulfate	*		*
Benomyl	P	*	*
Chlorothalonil	P	P	P
Copper hydroxide	P	P	P
Copper oxychlo. sul.	*	*	
Dicloran	P	P	
Iprodione	*	*	
Maneb	*	*	
Mefenoxam	*	*	
Metalaxyl	*	*	
Propiconazole	P	P	P
Sulfur	*		*
Thiophanate-methyl	*	*	*
Other Chemicals			
Garlic oil	*	*	
Gibberellic acid	*	*	
Methyl bromide	*	*	

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

Celery: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA	23,500	73	25.5	97	76.5	86	144.7	2	14.6
MI	2,000	99	6.3	100	8.7	100	13.7		
Total	25,500	75	31.8	97	85.2	87	158.4	2	14.6

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

Celery: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Linuron	23	1.2	0.52	0.62	3.7
Metolachlor	3	1.0	2.72	2.72	2.2
Prometryn	65	1.1	1.24	1.47	24.2
Sethoxydim	2	1.2	0.16	0.19	0.1
Insecticides:					
Abamectin	26	1.8	0.01	0.02	0.1
Acephate	72	1.3	0.89	1.16	21.3
Azadirachtin	3	1.1	0.01	0.01	**
Azinphos-methyl	3	1.2	0.50	0.62	0.5
Bt (Bacillus thur.)2/	40	1.9			
Carbaryl	1	1.8	0.99	1.80	0.7
Cyromazine	33	1.2	0.12	0.15	1.2
Dimethoate	7	2.3	0.49	1.14	2.2
Endosulfan	3	1.3	0.68	0.91	0.7
Malathion	7	1.5	1.27	1.92	3.2
Methomyl	42	1.9	0.70	1.34	14.4
Oxamyl	71	1.8	0.64	1.20	21.6
Permethrin	82	2.2	0.15	0.34	7.0
Pyrethrins	4	1.0	0.006	0.007	**
Rotenone	4	1.0	0.005	0.006	**
Spinosad	78	1.7	0.09	0.15	2.9
Tebufenozide	41	1.2	0.12	0.16	1.6
Thiodicarb	28	1.2	0.60	0.74	5.3
Fungicides:					
Benomyl	32	1.3	0.24	0.33	2.7
Chlorothalonil	69	2.9	1.59	4.64	81.2
Copper hydroxide	42	2.4	0.54	1.31	14.0
Dicloran	54	1.4	2.75	4.09	56.2
Propiconazole	50	1.7	0.11	0.19	2.5

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 2 program states were 25,500 acres. States included are CA and MI.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Celery: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Linuron	19	1.0	0.60	0.63	2.8
Prometryn	62	1.1	1.28	1.45	21.1
Insecticides:					
Abamectin	28	1.8	0.01	0.02	0.1
Acephate	72	1.2	0.90	1.12	19.1
Azadirachtin	4	1.1	0.01	0.01	**
Bt (Bacillus thur.)2/	42	1.9			
Cyromazine	35	1.2	0.12	0.15	1.2
Dimethoate	8	2.3	0.49	1.14	2.2
Malathion	7	1.5	1.27	1.92	3.2
Methomyl	38	1.6	0.76	1.22	10.9
Permethrin	83	2.1	0.15	0.33	6.4
Pyrethrins	4	1.0	0.006	0.007	**
Rotenone	4	1.0	0.005	0.006	**
Spinosad	84	1.7	0.09	0.15	2.9
Tebufenozide	45	1.2	0.12	0.16	1.6
Thiodicarb	30	1.2	0.60	0.74	5.3
Fungicides:					
Chlorothalonil	66	2.7	1.69	4.65	72.2
Copper hydroxide	38	1.8	0.59	1.11	10.0
Dicloran	58	1.4	2.75	4.09	56.2
Propiconazole	53	1.6	0.11	0.19	2.3

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for California were 23,500 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Celery: Agricultural Chemical Applications,
Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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 for Michigan were 2,000 acres.

Collards: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States					
	ALL	AL	CA	GA	NC	SC
Herbicides						
Bensulide	*		*			*
DCPA	*		*			
Ethalfluralin	*			*	*	
Glyphosate	*	*				
Metolachlor	*	*				
Napropamide	*			*	*	
Oxyfluorfen	*			*		
Pendimethalin	P	*		P	*	
Sethoxydim	P	*		*	*	
Trifluralin	P	*	*	P	P	*
Insecticides						
Acephate	P	*		P	*	*
Azadirachtin	*		*			
Bt (Bacillus thur.)	P	P	P	P	P	P
Carbaryl	P	P	*	P	P	*
Chlorpyrifos	P	*	*	*		*
Cypermethrin	P	*	*	P		
Diazinon	P	*	*	*	*	*
Dimethoate	P	*	*	*	*	
Disulfoton	*				*	*
Endosulfan	P	*		P	*	P
Esfenvalerate	P	P	*	P	*	P
Fenamiphos	*			*		
Imidacloprid	P	*	*	*		*
Lambda-cyhalothrin	*				*	*
Malathion	P	P	*	*	P	*
Methamidophos	*	*				
Methomyl	P	*		P	*	P
Methyl parathion	*					*
Naled	P		*		*	*
Neem oil	*		*			
Neem oil, clar. hyd.	*		*			
Permethrin	P	*	*	P	P	*
Petroleum distillate	*	*		*		
Piperonyl butoxide	*			*		
Potassium salts	*		*			
Pyrethrins	*		*			
Rotenone	*	*	*			
Spinosad	P	*	*	P	P	P
Tebufenozide	*		*			*

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Collards: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	AL	CA	GA	NC	SC
Fungicides						
Azoxystrobin	*			*		
Basic copper sulfate	*			*		
Chlorothalonil	P	*		P	*	*
Copper ammonium	*					*
Copper hydroxide	P	*	*	P		*
Copper resinate	*			*		
Fosetyl-al	P		*		*	*
Mancozeb	*			*		
Maneb	P			P		
Sulfur	P	*		P		*
Other Chemicals						
Aluminum phosphide	*		*			
Diphacinone	*		*			

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

Collards: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
AL	1,400	44	0.4	45	0.2	6	0.1		
CA 2/	500	7	0.1	88	0.6	80	1.2		
GA	7,000	59	2.6	93	18.3	39	8.5		
NC	2,700	54	2.5	94	0.9	44	5.7		
SC	2,500	62	5.0	84	0.6	20	1.9		
Total	14,100	55	10.6	87	20.6	35	17.4		2/

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.

Collards: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Pendimethalin	4	1.0	0.75	0.75	0.4
Sethoxydim	2	1.0	0.16	0.16	**
Trifluralin	33	1.0	0.59	0.60	2.7
Insecticides:					
Acephate	7	1.5	0.69	1.08	1.0
Bt (Bacillus thur.)2/	56	5.6			
Carbaryl	7	1.3	1.02	1.33	1.5
Chlorpyrifos	3	1.8	0.48	0.86	0.4
Cypermethrin	9	1.6	0.09	0.15	0.2
Diazinon	1	1.2	0.79	0.96	0.1
Dimethoate	2	1.8	0.23	0.43	0.1
Endosulfan	3	2.0	0.73	1.49	0.7
Esfenvalerate	15	1.6	0.03	0.05	**
Imidacloprid	10	2.4	0.06	0.15	0.2
Malathion	6	2.1	0.98	2.15	1.7
Methomyl	7	1.6	0.29	0.49	0.5
Naled	1	1.9	0.52	1.02	0.2
Permethrin	6	3.1	0.08	0.24	0.2
Spinosad	24	2.4	0.06	0.14	0.5
Fungicides:					
Chlorothalonil	2	1.8	1.12	2.11	0.7
Copper hydroxide	5	1.6	0.49	0.80	0.5
Fosetyl-al	14	2.6	1.68	4.36	8.6
Maneb	9	2.4	1.14	2.83	3.7
Sulfur	3	2.7	2.28	6.34	3.0

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 5 program states were 14,100 acres. States included are AL, CA, GA, NC and SC.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Collards: Agricultural Chemical Applications, Alabama, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Bt (Bacillus thur.)2/	12	1.5			
Carbaryl	3	1.6	0.81	1.35	0.1
Esfenvalerate	5	4.5	0.01	0.05	**
Malathion	1	2.0	0.96	2.00	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Alabama were 1,400 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Collards: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Bt (Bacillus thur.)2/	55	1.1			

1/ Planted acres in 2000 for California were 500 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Collards: Agricultural Chemical Applications, Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Pendimethalin	6	1.0	0.86	0.86	0.3
Trifluralin	53	1.0	0.60	0.60	2.2
Insecticides:					
Acephate	8	1.8	0.67	1.26	0.7
Bt (Bacillus thur.)2/	54	8.4			
Carbaryl	12	1.1	1.06	1.24	1.1
Cypermethrin	11	1.6	0.09	0.14	0.1
Endosulfan	6	2.0	0.72	1.51	0.6
Esfenvalerate	8	2.3	0.03	0.07	**
Methomyl	9	1.5	0.35	0.54	0.3
Permethrin	7	3.0	0.09	0.28	0.1
Spinosad	12	2.4	0.06	0.15	0.1
Fungicides:					
Chlorothalonil	2	2.0	1.44	3.01	0.5
Copper hydroxide	8	1.6	0.40	0.66	0.4
Maneb	19	2.4	1.14	2.83	3.7
Sulfur	6	3.1	2.41	7.45	3.0

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Georgia were 7,000 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

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

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	9	1.0	0.54	0.54	0.1
Insecticides:					
Bt (Bacillus thur.)2/	70	3.6			
Carbaryl	4	1.9	0.96	1.88	0.2
Malathion	2	3.9	0.79	3.16	0.1
Permethrin	11	3.6	0.05	0.19	0.1
Spinosad	13	3.7	0.06	0.23	0.1

1/ Planted acres in 2000 for North Carolina were 2,700 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Collards: Agricultural Chemical Applications, South Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Bt (Bacillus thur.)2/	71	2.9			
Endosulfan	2	1.9	0.75	1.44	0.1
Esfenvalerate	45	1.0	0.04	0.04	**
Methomyl	4	3.8	0.21	0.78	0.1
Spinosad	65	2.0	0.05	0.11	0.2

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for South Carolina were 2,500 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Corn, Sweet, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States					
		CA	FL	GA	IL	KS	MI
Herbicides							
2,4-D	P			P	*	*	P
Acetic acid	*						
Acetochlor	P				*	*	*
Alachlor	P	*		*	P	P	P
Atrazine	P	*	P	P	*	P	P
Bentazon	P			*	P	*	P
Bromoxynil	*				*		
Butylate	P			P	*		
Carfentrazone-ethyl	*						
Clomazone	*						
Clopyralid	*						
Cyanazine	P	P			*	*	P
DCPA	*				*		
Dicamba	P	*				*	*
Diclofop-methyl	*	*					
Dimethenamid	P				P	*	*
Diuron	*			*			
EPTC	P	*		*			
Glufosinate-ammonium	*						
Glyphosate	P	*	P	*	*		P
Halosulfuron	*	*					
Imazethapyr	*			*			
Linuron	*						
Metolachlor	P	*	P	*	P	P	P
Nicosulfuron	*						*
Paraquat	P		*				*
Pendimethalin	P	*		*	*	*	P
Primisulfuron	*						
Propachlor	*						
Pyridate	*						
Rimsulfuron	*						*
S-Metolachlor	P	*			P		*
Sethoxydim	*						
Simazine	P			P			*
Sulfosate	*						
Trifluralin	P			*	*		*

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Corn, Sweet, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States					
		CA	FL	GA	IL	KS	MI
Insecticides							
Abamectin	*		*				
Acephate	*		*	*			
Bifenthrin	P	*			*	*	
Bt (Bacillus thur.)	P	*	*		*		*
Carbaryl	P	*	P	*	P	P	P
Carbofuran	P		*			*	*
Chlorpyrifos	P	*	P	P	P	*	*
Cyfluthrin	P	P	P		*		*
Diazinon	P	P	*	*		*	*
Dimethoate	*						
Disulfoton	*						
Endosulfan	P	*	*	*	*		*
Esfenvalerate	P	P	*	P	*	*	P
Ethoprop	*		*	*			
Lambda-cyhalothrin	P	P	P	P	P	P	P
Malathion	P	*	*	*	*	*	*
Methomyl	P	P	P	P	*		P
Methoxychlor	*						
Methyl parathion	P	P	*	P			P
Naled	*						
Oxydemeton-methyl	P	P					
Permethrin	P	P	P	P	P	P	P
Petroleum distillate	P	*					*
Phorate	P		P				
Phosmet	*						*
Potassium salts	*		*				
Propargite	P	P					
Pyrethrins	*						
Rotenone	*					*	
Spinosad	P	*					
Tebupirimphos	*				*		
Tefluthrin	P		P		*	*	
Terbufos	P		*	P	*		P
Thiodicarb	P		P				P

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Corn, Sweet, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000 (continued)

Active Ingredient	ALL	Program States					
		CA	FL	GA	IL	KS	MI
Fungicides							
Azoxystrobin	*	*					
Benomyl	*						
Captan	P		*				
Chlorothalonil	P				*		P
Copper hydroxide	*						*
Copper resinate	*						
Copper sulfate	*						*
Mancozeb	P		P	*			*
Maneb	*			*			
Metalaxyl	*						
Propiconazole	P		P	P	*		P
Sulfur	*	*	*				*
Thiram	*						
Other Chemicals							
Cytokinins	*						
Garlic oil	*					*	
Gibberellic acid	*						
Indolebutyric Acid	*						
Metaldehyde	*						
Metam-sodium	*		*				
Methyl bromide	*						

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

Corn, Sweet, Fresh: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States					
	NJ	NY	NC	OH	PA	WI
Herbicides						
2,4-D	*	P	*	P	P	*
Acetic acid					*	
Acetochlor	*			*	*	
Alachlor	P	P	P	P	P	P
Atrazine	P	P	P	P	P	P
Bentazon	*	P		P	P	P
Bromoxynil						
Butylate	*		*			
Carfentrazone-ethyl						*
Clomazone					*	
Clopyralid				*		
Cyanazine	P	P	*	P	P	P
DCPA						
Dicamba		*			P	*
Diclofop-methyl						
Dimethenamid	*		*	P	*	P
Diuron		*		*		
EPTC						*
Glufosinate-ammonium						*
Glyphosate	*	P	*	P	P	*
Halosulfuron					*	*
Imazethapyr						
Linuron	*				*	
Metolachlor	P	P	P	P	P	P
Nicosulfuron					*	*
Paraquat	*	*	*		P	
Pendimethalin	*	P		*	P	P
Primisulfuron						*
Propachlor		*				
Pyridate		*		*		
Rimsulfuron					*	
S-Metolachlor	*	*		*	P	*
Sethoxydim				*		
Simazine	*		P	*	P	*
Sulfosate					*	
Trifluralin	*					

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Corn, Sweet, Fresh: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States					
	NJ	NY	NC	OH	PA	WI
Insecticides						
Abamectin						
Acephate			*			
Bifenthrin			*	*	*	*
Bt (Bacillus thur.)	*	*	*	*	*	*
Carbaryl	P	P	P	P	P	P
Carbofuran	*	*	*	P	*	
Chlorpyrifos	*	*	*	P	P	P
Cyfluthrin	*		*	P	P	*
Diazinon	*	*		*		
Dimethoate						*
Disulfoton			*			
Endosulfan	*	*	*	*	*	*
Esfenvalerate	P	P	P	P	P	P
Ethoprop						
Lambda-cyhalothrin	P	P	*	*	P	P
Malathion			*	*		*
Methomyl	P	P	P	*	P	
Methoxychlor					*	
Methyl parathion		*		*	P	
Naled				*		
Oxydemeton-methyl	*			*		
Permethrin	P	P	P	P	P	P
Petroleum distillate		P		*	*	
Phorate					*	*
Phosmet						
Potassium salts						
Propargite						
Pyrethrins				*		
Rotenone	*			*		
Spinosad	*	*		*	*	*
Tebupirimphos					*	
Tefluthrin	*	*		*	*	*
Terbufos	P		P	*	P	*
Thiodicarb	*	P	P	P	*	

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Corn, Sweet, Fresh: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States					
	NJ	NY	NC	OH	PA	WI
Fungicides						
Azoxystrobin						
Benomyl			*			
Captan		*	*			
Chlorothalonil	*	*	*	*	*	*
Copper hydroxide			*			
Copper resinate			*			
Copper sulfate		*				
Mancozeb	*	*		*	P	*
Maneb	*	*		*		
Metalaxyl					*	
Propiconazole	P	P		P	P	*
Sulfur						
Thiram	*					
Other Chemicals						
Cytokinins		*			*	
Garlic oil					*	
Gibberellic acid					*	
Indolebutyric Acid					*	
Metaldehyde				*		
Metam-sodium						
Methyl bromide			*			

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

Corn, Sweet, Fresh: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA	24,000	43	13.8	64	44.4	1	0.6		
FL 2/	41,300	78	62.5	99	232.6	76	157.4		
GA	23,000	86	65.6	91	110.1	78	16.2		
IL	6,000	89	12.2	86	3.4	26	0.8		
KS 2/	800	84	1.3	82	0.3				
MI	11,500	92	43.4	90	15.2	57	7.0		
NJ	10,500	73	23.2	75	9.6	10	2.2		
NY 2/	32,300	95	82.1	92	22.1	44	5.4		
NC 2/	8,400	80	14.0	88	17.0	1	0.2		
OH 2/	17,200	67	25.2	53	6.5	7	1.4		
PA	20,600	95	58.7	85	28.2	10	2.1	2	0.1
WI	8,500	82	20.2	83	3.5	17	1.8		
Total	204,100	79	422.2	84	492.9	38	195.1	*	3.0

* Area applied is less than one percent.
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.

Corn, Sweet, Fresh: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	1	1.0	0.37	0.38	0.7
Acetochlor	*	1.0	1.73	1.88	0.7
Alachlor	9	1.1	1.57	1.79	33.8
Atrazine	61	1.0	1.11	1.20	149.3
Bentazon	5	1.2	0.74	0.92	9.3
Butylate	4	1.0	3.86	3.87	31.8
Cyanazine	5	1.0	1.33	1.40	13.2
Dicamba	*	1.0	0.19	0.19	0.3
Dimethenamid	1	1.0	1.26	1.35	3.8
EPTC	*	1.0	6.17	6.17	2.8
Glyphosate	4	1.0	0.59	0.62	4.7
Metolachlor	40	1.0	1.65	1.79	146.2
Paraquat	*	1.0	0.58	0.62	0.9
Pendimethalin	6	1.0	1.20	1.20	15.6
S-Metolachlor	2	1.1	1.35	1.54	5.2
Simazine	*	1.1	1.09	1.27	1.7
Trifluralin	*	1.0	0.74	0.74	0.2
Insecticides:					
Bifenthrin	1	2.5	0.05	0.12	0.3
Bt (Bacillus thur.)2/	1	2.9			
Carbaryl	3	2.4	1.17	2.84	18.2
Carbofuran	3	1.0	0.94	0.94	6.6
Chlorpyrifos	27	2.4	0.62	1.53	84.6
Cyfluthrin	12	5.3	0.03	0.17	4.3
Diazinon	2	1.1	0.95	1.12	5.2
Endosulfan	*	2.0	0.54	1.11	1.0
Esfenvalerate	24	3.5	0.03	0.11	5.2
Lambda-cyhalothrin	53	3.3	0.02	0.08	8.7
Malathion	*	1.9	1.11	2.12	0.3
Methomyl	41	6.0	0.33	1.98	163.5
Methyl parathion	10	2.0	0.50	1.00	20.7
Oxydemeton-methyl	1	1.0	0.48	0.50	1.4
Permethrin	15	2.3	0.13	0.31	9.3
Petroleum distillate	*	1.7	0.97	1.72	1.1
Phorate	14	1.0	1.27	1.27	37.6
Propargite	2	1.0	1.67	1.73	8.7
Spinosad	*	3.3	0.09	0.29	0.3
Tefluthrin	3	1.0	0.15	0.15	1.0
Terbufos	9	1.0	1.14	1.18	20.6
Thiodicarb	23	4.5	0.43	1.96	90.2

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Corn, Sweet, Fresh: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Fungicides:					
Captan	*	2.1	1.50	3.28	**
Chlorothalonil	3	1.4	0.72	1.07	6.5
Mancozeb	16	4.9	1.01	4.95	162.7
Propiconazole	28	1.7	0.10	0.17	9.9

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 12 program states were 204,100 acres. States included are CA, FL, GA, IL, KS, MI, NJ, NY, NC, OH, PA and WI.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Corn, Sweet, Fresh: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Cyanazine	6	1.2	1.84	2.30	3.3
Insecticides:					
Cyfluthrin	6	5.6	0.04	0.23	0.4
Diazinon	18	1.0	0.93	1.02	4.4
Esfenvalerate	24	5.5	0.05	0.26	1.5
Lambda-cyhalothrin	33	5.6	0.03	0.16	1.2
Methomyl	39	3.1	0.41	1.30	12.1
Methyl parathion	10	2.7	0.65	1.80	4.4
Oxydemeton-methyl	10	1.0	0.50	0.52	1.2
Permethrin	5	1.2	0.19	0.23	0.3
Propargite	21	1.0	1.67	1.73	8.7

1/ Planted acres in 2000 for California were 24,000 acres.

Corn, Sweet, Fresh: Agricultural Chemical Applications, Florida, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Atrazine	74	1.0	1.09	1.14	35.0
Glyphosate	6	1.0	0.32	0.32	0.8
Metolachlor	28	1.0	2.31	2.31	26.7
Insecticides:					
Carbaryl	1	1.1	0.77	0.86	0.5
Chlorpyrifos	80	1.8	0.66	1.22	40.1
Cyfluthrin	46	6.1	0.03	0.19	3.6
Lambda-cyhalothrin	89	3.4	0.02	0.08	2.9
Methomyl	87	7.5	0.28	2.11	75.5
Permethrin	10	1.0	0.09	0.09	0.4
Phorate	69	1.0	1.30	1.30	37.0
Tefluthrin	13	1.0	0.17	0.17	0.9
Thiodicarb	68	5.7	0.39	2.24	63.0
Fungicides:					
Mancozeb	64	5.7	1.01	5.82	153.3
Propiconazole	50	1.7	0.11	0.19	3.8

1/ Planted acres in 2000 for Florida were 41,300 acres.

Corn, Sweet, Fresh: Agricultural Chemical Applications, Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	*	1.0	0.35	0.35	**
Atrazine	63	1.0	1.54	1.62	23.5
Butylate	33	1.0	3.92	3.94	30.2
Simazine	2	1.0	1.01	1.01	0.4
Insecticides:					
Chlorpyrifos	56	5.0	0.51	2.56	32.7
Esfenvalerate	60	5.2	0.03	0.15	2.0
Lambda-cyhalothrin	35	2.3	0.02	0.04	0.3
Methomyl	86	7.5	0.38	2.87	56.9
Methyl parathion	29	1.3	0.81	1.11	7.5
Permethrin	2	3.5	0.10	0.35	0.2
Terbufos	39	1.0	1.13	1.13	10.1
Fungicides:					
Propiconazole	78	2.0	0.09	0.18	3.3

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Georgia were 23,000 acres.

Corn, Sweet, Fresh: Agricultural Chemical Applications, Illinois, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Alachlor	28	1.0	1.68	1.82	3.1
Bentazon	27	1.0	0.76	0.76	1.2
Dimethenamid	16	1.2	1.37	1.64	1.6
Metolachlor	17	1.0	2.07	2.07	2.1
S-Metolachlor	11	1.0	1.16	1.16	0.7
Insecticides:					
Carbaryl	10	3.0	0.75	2.32	1.4
Chlorpyrifos	3	1.0	0.93	0.93	0.2
Lambda-cyhalothrin	42	2.9	0.02	0.07	0.2
Permethrin	33	1.4	0.12	0.17	0.3

1/ Planted acres in 2000 for Illinois were 6,000 acres.

Corn, Sweet, Fresh: Agricultural Chemical Applications, Kansas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Alachlor	15	1.0	1.79	1.79	0.2
Atrazine	70	1.6	0.68	1.14	0.6
Metolachlor	53	1.0	0.61	0.61	0.3
Insecticides:					
Carbaryl	4	6.3	1.01	6.44	0.2
Lambda-cyhalothrin	14	4.6	0.02	0.11	**
Permethrin	15	3.4	0.09	0.31	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Kansas were 800 acres.

Corn, Sweet, Fresh: Agricultural Chemical Applications, Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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	*	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

* Area applied is less than one percent.
1/ Planted acres in 2000 for Michigan were 11,500 acres.

Corn, Sweet, Fresh: Agricultural Chemical Applications, New Jersey, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Alachlor	35	1.1	1.26	1.43	5.2
Atrazine	57	1.1	1.05	1.24	7.4
Cyanazine	8	1.0	0.85	0.85	0.7
Metolachlor	25	1.4	1.52	2.21	5.7
Insecticides:					
Carbaryl	6	1.5	1.13	1.71	1.2
Esfenvalerate	15	2.5	0.04	0.11	0.2
Lambda-cyhalothrin	59	5.2	0.02	0.13	0.8
Methomyl	20	2.5	0.45	1.15	2.3
Permethrin	2	4.6	0.15	0.73	0.1
Terbufos	15	1.3	1.03	1.36	2.2
Fungicides:					
Propiconazole	5	1.3	0.08	0.11	0.1

1/ Planted acres in 2000 for New Jersey were 10,500 acres.

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

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	*	1.0	0.62	0.62	**
Alachlor	14	1.0	1.53	1.53	7.1
Atrazine	76	1.0	1.05	1.12	27.5
Bentazon	6	1.3	0.73	0.99	1.9
Cyanazine	11	1.0	1.27	1.27	4.6
Glyphosate	3	1.0	0.79	0.80	0.8
Metolachlor	68	1.0	1.73	1.77	38.9
Pendimethalin	3	1.0	1.24	1.24	1.1
Insecticides:					
Carbaryl	*	1.8	0.54	1.00	0.1
Esfenvalerate	*	2.3	0.03	0.08	**
Lambda-cyhalothrin	71	2.7	0.03	0.07	1.7
Methomyl	27	2.8	0.39	1.11	9.6
Permethrin	19	3.1	0.14	0.44	2.7
Petroleum distillate	*	1.0	1.90	1.90	0.3
Thiodicarb	18	1.7	0.61	1.09	6.2
Fungicides:					
Propiconazole	42	1.2	0.11	0.13	1.8

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for New York were 32,300 acres.

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

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Alachlor	14	1.0	2.28	2.28	2.7
Atrazine	39	1.0	1.17	1.18	3.8
Metolachlor	53	1.0	1.49	1.49	6.7
Simazine	2	1.0	1.10	1.10	0.2
Insecticides:					
Carbaryl	3	2.0	0.83	1.72	0.5
Esfenvalerate	65	3.1	0.04	0.11	0.6
Methomyl	4	2.9	0.25	0.73	0.2
Permethrin	45	3.3	0.14	0.47	1.8
Terbufos	41	1.0	1.18	1.18	4.0
Thiodicarb	47	3.3	0.62	2.05	8.0

1/ Planted acres in 2000 for North Carolina were 8,400 acres.

Corn, Sweet, Fresh: Agricultural Chemical Applications,
Ohio, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	*	1.0	0.22	0.22	**
Alachlor	2	1.0	1.78	1.78	0.7
Atrazine	50	1.0	1.02	1.05	9.0
Bentazon	8	1.7	0.88	1.52	2.2
Cyanazine	4	1.0	1.10	1.10	0.7
Dimethenamid	3	1.0	1.46	1.46	0.9
Glyphosate	10	1.0	0.75	0.75	1.2
Metolachlor	45	1.0	1.32	1.32	10.2
Insecticides:					
Carbaryl	4	1.2	1.39	1.75	1.3
Carbofuran	5	1.0	1.01	1.01	0.9
Chlorpyrifos	2	1.0	0.84	0.86	0.3
Cyfluthrin	6	2.3	0.04	0.08	0.1
Esfenvalerate	33	4.8	0.006	0.03	0.2
Permethrin	7	1.6	0.14	0.24	0.3
Thiodicarb	10	1.7	0.73	1.30	2.1
Fungicides:					
Propiconazole	7	1.8	0.11	0.21	0.2

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Ohio were 17,200 acres.

Corn, Sweet, Fresh: Agricultural Chemical Applications, Pennsylvania, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	7	1.0	0.38	0.38	0.5
Alachlor	13	1.0	1.53	1.53	4.0
Atrazine	84	1.1	1.17	1.30	22.4
Bentazon	12	1.2	0.72	0.90	2.2
Cyanazine	4	1.0	1.18	1.28	1.0
Dicamba	5	1.0	0.17	0.17	0.2
Glyphosate	4	1.0	0.69	0.70	0.6
Metolachlor	62	1.0	1.63	1.74	22.4
Paraquat	3	1.1	0.54	0.63	0.4
Pendimethalin	9	1.0	0.74	0.75	1.3
S-Metolachlor	7	1.0	1.54	1.66	2.5
Simazine	2	1.0	1.29	1.29	0.4
Insecticides:					
Carbaryl	7	3.1	1.26	3.97	6.0
Chlorpyrifos	17	1.4	0.61	0.85	2.9
Cyfluthrin	5	1.4	0.03	0.04	**
Esfenvalerate	9	1.8	0.04	0.07	0.1
Lambda-cyhalothrin	39	3.4	0.02	0.08	0.7
Methomyl	24	2.9	0.34	1.03	5.0
Methyl parathion	9	4.7	0.44	2.11	3.7
Permethrin	18	2.8	0.16	0.44	1.7
Terbufos	6	1.0	1.06	1.06	1.2
Fungicides:					
Mancozeb	3	1.1	1.38	1.53	1.0
Propiconazole	5	2.0	0.09	0.19	0.2

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Pennsylvania were 20,600 acres.

Corn, Sweet, Fresh: Agricultural Chemical Applications, Wisconsin, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Alachlor	23	1.9	1.52	3.02	5.9
Atrazine	43	1.5	0.69	1.07	3.9
Bentazon	21	1.0	0.70	0.70	1.3
Cyanazine	12	1.0	1.19	1.30	1.3
Dimethenamid	9	1.0	1.09	1.09	0.9
Metolachlor	20	1.0	2.10	2.10	3.6
Pendimethalin	7	1.0	1.21	1.23	0.7
Insecticides:					
Carbaryl	7	2.8	0.98	2.82	1.7
Chlorpyrifos	7	1.0	1.03	1.03	0.6
Esfenvalerate	13	1.6	0.04	0.06	0.1
Lambda-cyhalothrin	54	2.2	0.02	0.05	0.2
Permethrin	27	2.4	0.15	0.36	0.8

1/ Planted acres in 2000 for Wisconsin were 8,500 acres.

Corn, Sweet, Processing: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States						
		IL	MN	NY	OR	PA	WA	WI
Herbicides								
2,4-D	P	*	P	P	*		P	P
Acetic acid	*				*			
Alachlor	P	*	*	P	P		P	P
Ametryn	*				*			
Atrazine	P	P	P	P	P		P	P
Bentazon	P	P	P	P	P		P	P
Butylate	*							*
Carfentrazone-ethyl	P							P
Cyanazine	P	*	P	*	*	*	*	P
Dimethenamid	P	P	P	*	P		*	P
EPTC	P		*		P		P	*
Fluroxypyr	P						P	
Glyphosate	P	*		*	P		P	P
Halosulfuron	*		*					*
Imazethapyr	*		*					
MCPA	P				*		*	
Metolachlor	P	P	P	P	P	*	P	*
Nicosulfuron	P	*	P	*	P		P	P
Paraquat	P			*			*	*
Pendimethalin	P	*		P			P	*
Pyridate	*	*						
S-Metolachlor	P	P	P	*	P		*	P
Simazine	*							*
Trifluralin	*	*					*	

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Corn, Sweet, Processing: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States					
		IL	MN	NY	OR	PA	WA	WI
Insecticides								
Azadirachtin	*						*	
Bifenthrin	P	P	P		*		*	P
Carbofuran	P	*		*				*
Chlorpyrifos	P	P		*	P		P	*
Cyfluthrin	P	*	P					*
Esfenvalerate	P		*		*			*
Ethoprop	P				*		*	
Lambda-cyhalothrin	P	*	P	P	P		*	P
Methomyl	*		*					
Methyl parathion	P							P
Oxydemeton-methyl	*				*			
Permethrin	P	P	P	*		*	*	P
Petroleum distillate	*			*				
Spinosad	*						*	
Tebupirimphos	P	*						*
Tefluthrin	P	*	*	P	*			*
Terbufos	P	*	*	*	*			*
Fungicides								
Mancozeb	*	*	*	*				*
Propiconazole	P	*	*	P				*
Vinclozolin	*			*				
Other Chemicals								
Aminopyridine	P	*	*					*
Metaldehyde	*				*			

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

Corn, Sweet, Processing: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
IL 2/	17,400	90	39.3	93	6.3	57	9.1		
MN 2/	136,900	95	293.7	90	23.3	31	14.1		
NY	30,700	96	81.3	87	12.2	36	1.7		
OR 2/	35,800	96	131.1	49	24.1				
PA	2,300	13	0.7	13	0.2				
WA	101,800	78	206.2	44	9.1				
WI 2/	94,900	92	198.0	83	19.8	28	11.8		
Total	419,800	90	950.3	73	95.0	22	36.7	*	**

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
2/ Insufficient reports to publish data for one or more of the pesticide classes.

Corn, Sweet, Processing: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	4	1.4	0.47	0.68	11.4
Alachlor	19	1.0	2.08	2.17	173.9
Atrazine	63	1.0	0.71	0.75	198.8
Bentazon	23	1.0	0.52	0.53	51.4
Carfentrazone-ethyl	2	1.0	0.008	0.008	0.1
Cyanazine	9	1.0	0.96	0.98	35.9
Dimethenamid	17	1.0	1.25	1.28	91.0
EPTC	5	1.0	3.64	3.71	71.1
Fluroxypyr	2	1.0	0.15	0.15	1.2
Glyphosate	9	1.1	0.56	0.67	25.2
MCPA	*	1.0	0.30	0.30	0.4
Metolachlor	28	1.0	1.69	1.70	203.0
Nicosulfuron	8	1.0	0.03	0.03	1.1
Paraquat	*	1.0	0.43	0.46	1.5
Pendimethalin	11	1.0	0.76	0.77	34.4
S-Metolachlor	6	1.0	1.35	1.38	36.3
Insecticides:					
Bifenthrin	36	2.5	0.04	0.09	14.0
Carbofuran	1	1.0	0.93	0.93	4.1
Chlorpyrifos	5	1.0	1.11	1.20	25.2
Cyfluthrin	3	1.6	0.04	0.06	0.7
Esfenvalerate	*	1.0	0.02	0.02	**
Ethoprop	2	1.0	1.60	1.61	10.3
Lambda-cyhalothrin	26	2.2	0.02	0.05	6.0
Methyl parathion	2	1.2	0.48	0.59	5.5
Permethrin	15	1.9	0.15	0.30	19.6
Tebupirimphos	*	1.0	0.14	0.14	0.2
Tefluthrin	2	1.0	0.11	0.11	0.7
Terbufos	2	1.0	1.06	1.07	6.8
Fungicides:					
Propiconazole	19	1.8	0.11	0.20	16.0
Other Chemicals:					
Aminopyridine 2/	3	1.8			

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 7 program states were 419,800 acres. States included are IL, MN, NY, PA, OR, WA and WI.
2/ Rates and total applied are not available because amount of active ingredient is too small.

Corn, Sweet, Processing: Agricultural Chemical Applications, Illinois, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Atrazine	73	1.0	0.97	1.00	12.8
Bentazon	37	1.0	0.49	0.49	3.2
Dimethenamid	29	1.0	1.28	1.28	6.6
Metolachlor	24	1.0	1.79	1.79	7.5
S-Metolachlor	21	1.0	1.35	1.35	5.0
Insecticides:					
Bifenthrin	79	3.7	0.03	0.13	1.7
Chlorpyrifos	10	1.0	0.86	0.86	1.5
Permethrin	46	1.7	0.09	0.16	1.3

1/ Planted acres in 2000 for Illinois were 17,400 acres.

Corn, Sweet, Processing: Agricultural Chemical Applications, Minnesota, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	2	1.0	0.40	0.40	1.2
Atrazine	62	1.0	0.54	0.56	47.5
Bentazon	47	1.0	0.47	0.49	31.7
Cyanazine	9	1.0	1.24	1.24	16.1
Dimethenamid	30	1.0	1.37	1.38	57.3
Metolachlor	43	1.0	1.89	1.89	111.2
Nicosulfuron	7	1.0	0.03	0.03	0.3
S-Metolachlor	2	1.0	1.91	2.02	6.8
Insecticides:					
Bifenthrin	59	2.3	0.03	0.08	6.6
Cyfluthrin	8	1.6	0.04	0.07	0.7
Lambda-cyhalothrin	31	2.6	0.02	0.06	2.7
Permethrin	25	2.2	0.16	0.36	12.3

1/ Planted acres in 2000 for Minnesota were 136,900 acres.

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

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	2	1.0	0.27	0.27	0.2
Alachlor	34	1.0	2.54	2.54	26.5
Atrazine	93	1.0	0.69	0.74	21.0
Bentazon	40	1.0	0.62	0.63	7.7
Metolachlor	34	1.0	1.27	1.29	13.6
Pendimethalin	27	1.0	0.97	0.98	8.2
Insecticides:					
Lambda-cyhalothrin	68	1.7	0.02	0.03	0.7
Tefluthrin	14	1.0	0.12	0.12	0.5
Fungicides:					
Propiconazole	34	1.4	0.11	0.16	1.6

1/ Planted acres in 2000 for New York were 30,700 acres.

Corn, Sweet, Processing: Agricultural Chemical Applications, Oregon, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Alachlor	12	1.0	2.27	2.27	10.0
Atrazine	80	1.1	1.11	1.23	35.1
Bentazon	20	1.0	0.58	0.60	4.3
Dimethenamid	23	1.0	1.16	1.18	9.7
EPTC	27	1.0	3.60	3.67	36.1
Glyphosate	18	1.5	0.73	1.11	7.3
Metolachlor	31	1.0	1.84	1.85	20.7
Nicosulfuron	6	1.0	0.03	0.03	0.1
S-Metolachlor	6	1.0	1.40	1.40	2.9
Insecticides:					
Chlorpyrifos	28	1.0	1.33	1.35	13.7
Lambda-cyhalothrin	2	1.4	0.03	0.04	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Oregon were 35,800 acres.

Corn, Sweet, Processing: Agricultural Chemical Applications, Washington, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	3	1.0	0.49	0.49	1.4
Alachlor	20	1.0	2.37	2.52	52.2
Atrazine	47	1.0	0.66	0.70	33.6
Bentazon	5	1.0	0.69	0.70	3.7
EPTC	7	1.0	3.50	3.53	24.6
Fluroxypyr	8	1.0	0.15	0.15	1.2
Glyphosate	19	1.1	0.53	0.62	11.7
Metolachlor	29	1.0	1.45	1.47	43.9
Nicosulfuron	3	1.0	0.04	0.04	0.1
Pendimethalin	32	1.0	0.71	0.73	23.7
Insecticides:					
Chlorpyrifos	6	1.2	0.66	0.83	4.9

1/ Planted acres in 2000 for Washington were 101,800 acres.

Corn, Sweet, Processing: Agricultural Chemical Applications, Wisconsin, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	6	1.2	0.50	0.64	3.9
Alachlor	40	1.0	1.81	1.92	72.7
Atrazine	64	1.0	0.74	0.80	48.8
Bentazon	1	1.0	0.81	0.81	0.8
Carfentrazone-ethyl	8	1.0	0.008	0.008	0.1
Cyanazine	18	1.0	0.88	0.92	16.0
Dimethenamid	11	1.0	1.09	1.19	12.4
Glyphosate	11	1.0	0.45	0.48	5.1
Nicosulfuron	20	1.0	0.03	0.03	0.6
S-Metolachlor	14	1.0	1.22	1.25	16.7
Insecticides:					
Bifenthrin	52	2.6	0.04	0.10	5.0
Lambda-cyhalothrin	17	2.4	0.02	0.06	1.0
Methyl parathion	10	1.2	0.48	0.59	5.5
Permethrin	18	1.5	0.17	0.26	4.6

1/ Planted acres in 2000 for Wisconsin were 94,900 acres.
2/ Rates and total applied are not available because amount of active ingredient is too small.

Cucumbers, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States						
		CA	FL	GA	MI	NJ	NY	NC
Herbicides								
2,4-D	*							*
Alachlor	*						*	
Bensulide	P	P			P	P	*	*
Clomazone	P			*	P	*		
Diquat	*		*					
Ethalfluralin	P	*		P	P		*	P
Glyphosate	P	*	*	*	*		P	
Metolachlor	*		*			*		
Metribuzin	*					*		
Naptalam	P				*	P	*	
Paraquat	P	*	P	*	*			*
Pendimethalin	*			*				
Sethoxydim	P	*		*		*	*	*
Trifluralin	P			*	*	*	*	
Insecticides								
Abamectin	*		*					
Acephate	P	*		*				P
Azadirachtin	*	*						
Azinphos-methyl	P	*			*	*	P	
Beauveria bassiana	*	*						
Bifenthrin	*				*			
Bt (Bacillus thur.)	P	P	P	*	*			*
Carbaryl	P	*	*	P	P	P	P	P
Carbofuran	P				*	*		
Chlorpyrifos	*						*	
Diazinon	P	*	*	*	P		*	*
Dimethoate	*		*		*			*
Endosulfan	P		P	P	P	P	P	P
Esfenvalerate	P	*	*	P	P	P	P	P
Ethoprop	*			*				
Fenamiphos	*			*				
Imidacloprid	P	*	*		*	*		
Lambda-cyhalothrin	*					*	*	
Malathion	P	*	*					*
Methomyl	P	*	P	*	*	P	*	*
Methoxychlor	*						*	
Neem oil	*	*						
Neem oil, clar. hyd.	*		*					
Oxamyl	P	*	*	*				
Oxydemeton-methyl	*	*						
Permethrin	P		*	P	P	*	P	*
Petroleum distillate	*		*		*			
Phosmet	*				*			
Potassium salts	*	*	*					
Pyrethrins	P	*			*		*	
Rotenone	P	*			*	*	*	
Soybean oil	*							*
Spinosad	*		*			*		
Tebufenozide	*		*					
Thiodicarb	*							*

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Cucumbers, Fresh: Active Ingredients Applied and Publication Status By Program States, 2000 (continued)

Active Ingredient	ALL	CA	FL	GA	MI	NJ	NY	NC
		Program States						
Fungicides								
Azoxystrobin	P	*	*	P		P	*	*
Basic copper sulfate	*				*			
Benomyl	P	*	*	P	P	P	*	*
Captan	*							*
Chlorothalonil	P	*	P	P	P	P	P	*
Copper ammonium	*		*		*			
Copper hydroxide	P	*	P	*	P	P	*	*
Copper oxychlo. sul.	*					*		
Copper resinate	*					*		
Copper sulfate	P		*		*	*		
Fosetyl-al	*				*			
Mancozeb	P	*	P	*	*	*	*	*
Maneb	P		P	P	*	*	*	
Mefenoxam	*			*		*		
Metalaxyl	P		*	*	*	P	*	*
Myclobutanil	*				*	*		
PCNB	*			*				*
Sulfur	P	*	*		*	*		
Thiophanate-methyl	*		*	*	*	*		
Triadimefon	*	*			*	*		
Trifloxystrobin	*	*						
Other Chemicals								
Ammonium soap	*					*		
Chloropicrin	P		*	*				*
Cytokinins	*					*		
Dichloropropene	P			*	*			
Gibberellic acid	*					*		
Indolebutyric Acid	*					*		
Metaldehyde	*						*	
Metam-sodium	*			*		*		
Methyl bromide	P		*	*				*
Potassium gibber.	*					*		
Strychnine	*	*						

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

Cucumbers, Fresh: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA 2/	6,500	32	5.8	72	6.0	23	1.1		
FL	10,100	5	0.2	97	15.5	95	66.0	31	624.2
GA	12,000	14	1.1	70	22.1	92	62.2	67	567.1
MI 2/	7,000	75	13.5	75	9.3	91	56.6		
NJ	3,000	76	11.3	88	2.0	88	13.7	5	0.9
NY 2/	3,900	11	1.3	92	1.0	79	5.1		
NC	6,900	48	2.6	39	1.8	67	21.5	4	59.9
Total	49,400	31	35.8	75	57.7	79	226.2	24	1,252.4

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.

Cucumbers, Fresh: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	11	1.0	4.13	4.30	23.0
Clomazone	5	1.0	0.15	0.15	0.4
Ethalfluralin	17	1.0	0.80	0.82	6.9
Glyphosate	*	1.4	0.76	1.06	**
Naptalam	4	1.0	1.46	1.58	3.2
Paraquat	7	1.0	0.60	0.63	2.0
Sethoxydim	*	1.1	0.21	0.23	**
Trifluralin	*	1.0	0.97	0.97	0.2
Insecticides:					
Acephate	2	1.0	0.73	0.78	0.8
Azinphos-methyl	5	1.0	0.39	0.39	1.1
Bt (Bacillus thur.)2/	11	4.2			
Carbaryl	3	2.2	0.96	2.11	3.5
Carbofuran	*	1.1	0.83	0.93	0.1
Diazinon	1	1.5	0.52	0.83	0.4
Endosulfan	33	2.8	0.64	1.84	30.3
Esfenvalerate	26	1.7	0.04	0.07	0.7
Imidacloprid	*	1.1	0.14	0.16	**
Malathion	4	1.0	1.55	1.65	3.2
Methomyl	5	3.1	0.89	2.75	7.6
Oxamyl	12	1.3	0.60	0.83	4.8
Permethrin	5	2.2	0.12	0.26	0.6
Pyrethrins	3	1.0	0.005	0.005	**
Rotenone	3	1.0	0.005	0.005	**
Fungicides:					
Azoxystrobin	19	1.5	0.23	0.36	3.4
Benomyl	9	2.2	0.29	0.66	2.9
Chlorothalonil	66	2.2	1.87	4.11	133.4
Copper hydroxide	23	4.2	0.72	3.04	35.2
Copper sulfate	2	3.4	0.30	1.00	0.7
Mancozeb	8	3.8	0.94	3.56	13.3
Maneb	10	5.9	0.93	5.55	26.4
Metalaxyl	12	1.1	0.17	0.20	1.2
Sulfur	2	2.3	0.99	2.28	2.5
Other Chemicals:					
Chloropicrin	7	1.0	65.63	65.63	229.9
Dichloropropene	16	1.4	47.78	69.70	557.9
Methyl bromide	7	1.0	135.59	135.59	463.6

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 7 program states were 49,400 acres. States included are CA, FL, GA, MI, NJ, NY and NC.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cucumbers, Fresh: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	23	1.0	3.24	3.47	5.3
Insecticides:					
Bt (Bacillus thur.)2/	11	1.1			

1/ Planted acres in 2000 for California were 6,500 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cucumbers, Fresh: Agricultural Chemical Applications, Florida, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Paraquat	5	1.0	0.54	0.54	0.2
Insecticides:					
Bt (Bacillus thur.)2/	48	4.7			
Endosulfan	39	1.1	0.51	0.57	2.2
Methomyl	16	3.9	1.03	4.10	6.5
Fungicides:					
Chlorothalonil	62	3.1	1.56	4.96	30.9
Copper hydroxide	43	4.5	0.62	2.80	12.1
Mancozeb	11	6.1	0.59	3.65	4.1
Maneb	26	7.9	0.79	6.33	16.4

1/ Planted acres in 2000 for Florida were 10,100 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cucumbers, Fresh: Agricultural Chemical Applications, Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Ethalfluralin	11	1.1	0.54	0.61	0.8
Insecticides:					
Carbaryl	*	5.8	1.00	5.84	0.2
Endosulfan	61	3.9	0.72	2.84	20.9
Esfenvalerate	26	2.4	0.04	0.10	0.3
Permethrin	4	1.8	0.13	0.24	0.1
Fungicides:					
Azoxystrobin	62	1.6	0.23	0.38	2.8
Benomyl	13	3.1	0.25	0.78	1.2
Chlorothalonil	91	1.7	2.57	4.41	48.3
Maneb	16	3.4	1.35	4.61	8.6

* Area applied is less than one percent.
1/ Planted acres in 2000 for Georgia were 12,000 acres.

Cucumbers, Fresh: Agricultural Chemical Applications, Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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	*	1.1	0.83	0.96	**
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

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Michigan were 7,000 acres.

Cucumbers, Fresh: Agricultural Chemical Applications, New Jersey, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	61	1.0	4.55	4.84	8.8
Naptalam	45	1.1	1.60	1.81	2.4
Insecticides:					
Carbaryl	12	1.6	0.89	1.50	0.5
Endosulfan	25	2.0	0.62	1.27	1.0
Esfenvalerate	11	3.2	0.04	0.11	**
Methomyl	14	1.6	0.42	0.72	0.3
Fungicides:					
Azoxystrobin	12	1.2	0.17	0.22	0.1
Benomyl	33	2.2	0.25	0.56	0.5
Chlorothalonil	81	2.7	1.46	4.00	9.8
Copper hydroxide	11	3.9	0.47	1.86	0.6
Metalaxyl	30	1.0	0.18	0.20	0.2

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for New Jersey were 3,000 acres.

Cucumbers, Fresh: Agricultural Chemical Applications, New York, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Glyphosate	*	1.0	0.87	0.87	**
Insecticides:					
Azinphos-methyl	8	1.0	0.48	0.48	0.2
Carbaryl	1	1.7	0.78	1.35	0.1
Endosulfan	5	1.9	0.72	1.39	0.3
Esfenvalerate	76	2.0	0.04	0.08	0.2
Permethrin	3	1.3	0.20	0.28	**
Fungicides:					
Chlorothalonil	76	1.0	1.49	1.55	4.6

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for New York were 3,900 acres.

Cucumbers, Fresh: Agricultural Chemical Applications,
North Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Ethalfluralin	46	1.0	0.77	0.77	2.5
Insecticides:					
Acephate	13	1.0	0.75	0.75	0.7
Carbaryl	9	1.4	0.95	1.42	0.9
Endosulfan	*	2.2	0.68	1.49	0.1
Esfenvalerate	16	1.9	0.009	0.02	**

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for North Carolina were 6,900 acres.

Cucumbers, Pickles: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States						
		CA	FL	MI	NC	OH	SC	TX	WI
Herbicides									
Alachlor	*						*		
Bensulide	P			*		P		*	P
Bentazon	*				*				
Clomazone	P			P		P	*		*
DCPA	*	*							
Ethalfluralin	P		*	P	P	*	*	P	P
Glyphosate	P		*	*		P		*	
Glyphosate, is. salt	*	*							
Metribuzin	*					*			
Naptalam	P			P	*	P	*	P	P
Oxyfluorfen	*	*							
Paraquat	*		*						
Pendimethalin	*						*		
Pronamide	*							*	
Sethoxydim	P			*	*			*	*
Trifluralin	P						*	*	
Insecticides									
Acephate	*				*		*		
Azinphos-methyl	*					*			
Bifenthrin	*							*	
Bt (Bacillus thur.)	P		*			*	*	*	
Carbaryl	P			P	*	P	P	P	*
Carbofuran	P			P		P			
Chlorpyrifos	*			*					
Cyromazine	*		*						
Diazinon	P		*			*		*	*
Endosulfan	P			*	*	P	P	P	
Esfenvalerate	P			P	*	P	P	*	*
Ethoprop	*				*	*	*		
Imidacloprid	P		*	*		*		*	
Lambda-cyhalothrin	*			*					
Malathion	P	*	*			*	*	*	
Methomyl	P	*	P		*	*	*	P	
Oxamyl	*							*	
Oxydemeton-methyl	*	*							
Permethrin	P			*	*	P	*	P	*
Rotenone	*			*					
Spinosad	*		*					*	
Tebufenozide	*							*	

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Cucumbers, Pickles: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States						
		CA	FL	MI	NC	OH	SC	TX	WI
Fungicides									
Azoxystrobin	P				*	*		*	*
Benomyl	P					*		*	
Chlorothalonil	P		*	P	*	P	P	P	*
Copper (metallic)	*					*			
Copper ammonium	*								*
Copper hydroxide	P		*	P		P			*
Copper resinate	*			*					
Copper sulfate	*			*		*	*		
Dimethomorph	*			*					*
Mancozeb	P		*	*			*	*	*
Maneb	*					*		*	
Mefenoxam	*			*					*
Metalaxyl	P		*	*	*	P	*	*	*
Sulfur	*					*		*	
Thiophanate-methyl	*					*			
Triadimefon	*					*			
Vinclozolin	*			*					
Other Chemicals									
Chloropicrin	*				*			*	
Cytokinins	*							*	
Dichloropropene	*				*			*	
Gibberellic acid	*							*	
Methyl bromide	*						*		

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

Cucumbers, Pickles: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide 1/:		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA	2/	42		44					
FL	6,500	91	8.5	100	16.4	100	24.2		
MI	31,000	92	33.2	28	10.5	54	55.3		
NC	18,200	89	7.1	27	1.3	28	21.4	33	494.1
OH	2,500	47	2.4	51	3.3	42	5.5		
SC 3/	3,400	59	2.8	35	0.4	10	0.9		
TX 3/	7,000	80	4.6	52	1.7	34	2.7		
WI	5,500	100	9.5	65	1.7	63	6.8		
Total	2/	85		40		45		8	

1/ Total applied excludes Bt's (Bacillus thuringiensis). Quantities are not available because amounts of active ingredient are not comparable between products.
2/ Planted acres and total applied not published to avoid disclosure.
3/ Insufficient reports to publish data for one or more of the pesticide classes.

Cucumbers, Pickles: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	*	1.0	3.42	3.42	
Clomazone	25	1.1	0.13	0.16	
Ethalfluralin	63	1.0	0.62	0.67	
Glyphosate	8	1.0	1.42	1.42	
Naptalam	18	1.2	1.03	1.31	
Sethoxydim	4	1.0	0.22	0.23	
Trifluralin	*	1.0	0.52	0.52	
Insecticides:					
Bt (Bacillus thur.)2/	7	2.9			
Carbaryl	4	2.9	1.00	2.96	
Carbofuran	3	1.0	1.02	1.06	
Diazinon	11	1.6	0.52	0.87	
Endosulfan	2	1.1	0.81	0.95	
Esfenvalerate	8	3.3	0.01	0.05	
Imidacloprid	1	2.8	0.21	0.61	
Malathion	2	1.6	0.29	0.46	
Methomyl	13	2.4	0.42	1.00	
Permethrin	2	2.0	0.09	0.19	
Fungicides:					
Azoxystrobin	*	1.2	0.19	0.23	
Benomyl	*	2.0	0.25	0.49	
Chlorothalonil	21	2.6	1.35	3.63	
Copper hydroxide	16	3.2	0.44	1.43	
Mancozeb	6	3.3	1.42	4.80	
Metalaxyl	9	1.0	0.13	0.13	

* Area applied is less than one percent.
1/ Planted acres and total applied not published to avoid disclosure. States included are CA, FL, MI, NC, OH, SC, TX and WI.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Cucumbers, Pickles: Agricultural Chemical Applications, Florida, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Methomyl	100	3.0	0.45	1.38	8.9

1/ Planted acres in 2000 for Florida were 6,500 acres.

Cucumbers, Pickles: Agricultural Chemical Applications, Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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	**
Fungicides:					
Chlorothalonil	20	3.0	0.97	2.97	18.6
Copper hydroxide	19	3.7	0.58	2.18	12.8

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Michigan were 31,000 acres.

Cucumbers, Pickles: Agricultural Chemical Applications, North Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Ethalfluralin	88	1.0	0.42	0.42	6.7

1/ Planted acres in 2000 for North Carolina were 18,200 acres.

Cucumbers, Pickles: Agricultural Chemical Applications, Ohio, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	7	1.0	3.68	3.68	0.6
Clomazone	15	1.0	0.44	0.44	0.2
Glyphosate	22	1.0	0.74	0.74	0.4
Naptalam	20	1.0	1.98	1.98	1.0
Insecticides:					
Carbaryl	37	1.9	1.04	2.03	1.9
Carbofuran	15	1.0	0.83	0.83	0.3
Endosulfan	37	1.1	0.90	1.06	1.0
Esfenvalerate	3	2.1	0.04	0.08	**
Permethrin	6	1.0	0.20	0.21	**
Fungicides:					
Chlorothalonil	40	1.8	2.50	4.49	4.5
Copper hydroxide	13	1.9	0.67	1.27	0.4
Metalaxyl	13	1.1	0.16	0.18	0.1

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Ohio were 2,500 acres.

Cucumbers, Pickles: Agricultural Chemical Applications, South Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Carbaryl	*	2.3	0.71	1.66	**
Endosulfan	1	1.9	0.74	1.44	0.1
Esfenvalerate	7	4.5	0.02	0.09	**
Fungicides:					
Chlorothalonil	5	5.4	0.83	4.51	0.7

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for South Carolina were 3,400 acres.

Cucumbers, Pickles: Agricultural Chemical Applications, Texas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Ethalfluralin	70	1.0	0.64	0.64	3.2
Naptalam	7	1.5	1.51	2.31	1.1
Insecticides:					
Carbaryl	*	2.0	1.67	3.35	0.1
Endosulfan	3	1.1	0.62	0.70	0.1
Methomyl	42	1.4	0.32	0.46	1.4
Permethrin	2	1.1	0.07	0.08	**
Fungicides:					
Chlorothalonil	30	1.0	1.10	1.13	2.4

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Texas were 7,000 acres.

Cucumbers, Pickles: Agricultural Chemical Applications, Wisconsin, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	9	1.0	3.42	3.42	1.7
Ethalfluralin	77	1.0	0.98	0.98	4.2
Naptalam	34	1.0	1.78	1.78	3.4

1/ Planted acres in 2000 for Wisconsin were 5,500 acres.

Eggplant: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States		
	ALL	FL	NJ
Herbicides			
Diquat	*	*	
Glyphosate	*	*	*
Metolachlor	*		*
Metribuzin	*		*
Napropamide	P		P
Paraquat	P	P	
Trifluralin	P		P
Insecticides			
Abamectin	*	*	
Acephate	*	*	*
Azadirachtin	*		*
Azinphos-methyl	*		*
Bifenthrin	*		*
Bt (Bacillus thur.)	P	P	*
Carbaryl	P	P	P
Cyfluthrin	*		*
Diazinon	*	*	
Dicofol	*	*	
Endosulfan	P	P	P
Esfenvalerate	P	*	*
Fenbutatin-oxide	*	*	*
Imidacloprid	P	*	*
Lambda-cyhalothrin	*		*
Malathion	*	*	
Methomyl	P	*	*
Neem oil, clar. hyd.	*	*	
Oxamyl	P	*	*
Permethrin	P	*	*
Petroleum distillate	*	*	
Potassium salts	*	*	
Rotenone	P	*	*
Spinosad	P	*	*
Fungicides			
Benomyl	*	*	
Chlorothalonil	P	*	*
Copper ammonium	*	*	*
Copper hydroxide	P	P	P
Copper oxychlo. sul.	*		*
Copper resinate	P		P
Copper sulfate	P	*	*
Mancozeb	P	P	P
Maneb	P	P	P
Metalaxyl	*		*
Sulfur	P	*	*
Other Chemicals			
Chloropicrin	*	*	
Metam-sodium	*		*
Methyl bromide	*	*	

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

Eggplant: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
FL 2/	1,800	32	0.6	96	3.5	92	14.1		
NJ 2/	800	61	0.5	74	0.7	58	1.6		
Total	2,600	41	1.1	89	4.2	81	15.7	41	207.1

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.

Eggplant: Agricultural Chemical Applications,
Program States, 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:					
Napropamide	17	1.0	1.12	1.12	0.5
Paraquat	20	1.8	0.56	1.01	0.5
Trifluralin	1	1.0	0.89	0.89	**
Insecticides:					
Bt (Bacillus thur.)2/	15	12.8			
Carbaryl	3	1.7	0.76	1.34	0.1
Endosulfan	33	2.4	0.63	1.51	1.3
Esfenvalerate	14	2.1	0.04	0.08	**
Imidacloprid	44	1.9	0.13	0.26	0.3
Methomyl	12	2.3	0.66	1.53	0.4
Oxamyl	5	2.6	0.63	1.69	0.2
Permethrin	6	3.5	0.18	0.63	0.1
Rotenone	*	1.5	0.10	0.16	**
Spinosad	14	3.9	0.09	0.35	0.1
Fungicides:					
Chlorothalonil	3	3.5	1.40	4.93	0.4
Copper hydroxide	12	3.8	0.64	2.46	0.8
Copper resinate	2	3.4	0.11	0.38	**
Copper sulfate	3	3.3	0.23	0.79	**
Mancozeb	24	5.9	1.01	6.05	3.8
Maneb	46	3.7	1.14	4.32	5.2
Sulfur	13	6.9	2.31	15.97	5.3

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 2 program states were 2,600 acres. States included are FL and NJ.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Eggplant: Agricultural Chemical Applications, Florida, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Paraquat	29	1.8	0.56	1.01	0.5
Insecticides:					
Bt (Bacillus thur.)2/	22	13.0			
Carbaryl	3	1.5	0.76	1.19	0.1
Endosulfan	42	2.2	0.63	1.45	1.1
Fungicides:					
Copper hydroxide	7	5.0	0.80	4.00	0.5
Mancozeb	33	6.1	1.01	6.18	3.7
Maneb	53	3.9	1.14	4.54	4.3

1/ Planted acres in 2000 for Florida were 1,800 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Eggplant: Agricultural Chemical Applications, New Jersey, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Napropamide	57	1.0	1.12	1.12	0.5
Trifluralin	3	1.0	0.89	0.89	**
Insecticides:					
Carbaryl	4	2.1	0.76	1.62	**
Endosulfan	11	3.3	0.59	1.98	0.2
Fungicides:					
Copper hydroxide	23	3.0	0.47	1.42	0.3
Copper resinate	5	3.4	0.11	0.38	**
Mancozeb	3	3.3	0.87	2.90	0.1
Maneb	31	3.0	1.15	3.50	0.9

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for New Jersey were 800 acres.

Garlic: Active Ingredient Publication Status, 2000

Active Ingredient	CA
Herbicides	
Bromoxynil	P
Clethodim	*
Fluazifop-P-butyl	*
Glyphosate	*
Oxyfluorfen	P
Paraquat	*
Pendimethalin	P
Insecticides	
Cypermethrin	*
Oxamyl	*
Permethrin	*
Fungicides	
Chlorothalonil	*
Iprodione	*
Mancozeb	*
Maneb	*
Mefenoxam	*
Metalaxyl	*
Sulfur	*
Tebuconazole	P

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

Garlic: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
California, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA	40,000	45	13.5	29	15.1	61	28.9		

Garlic: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bromoxynil	13	1.1	0.36	0.41	2.0
Oxyfluorfen	22	1.7	0.18	0.31	2.7
Pendimethalin	13	1.1	0.95	1.08	5.5
Fungicides:					
Tebuconazole	60	1.3	0.19	0.26	6.2

1/ Planted acres in 2000 for California were 40,000 acres.

Greens, Mustard: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States						
		AR	CA	GA	IL	NC	SC	TX
Herbicides								
Bensulide	*						*	*
Cycloate	*		*					
DCPA	*							*
Ethalfluralin	*			*				*
Glyphosate	*							*
Napropamide	*					*		
Pendimethalin	P			*			*	
Sethoxydim	*							*
Trifluralin	P	*	*	P	*	*	P	P
Insecticides								
Acephate	P			P				
Bt (Bacillus thur.)	P	*	*	P	*	P	P	P
Carbaryl	P	P		P	*	P	*	P
Cypermethrin	P	*	*	*				*
Diazinon	P		*	*			*	P
Dimethoate	P		*	P	*			
Disulfoton	*					*		
Endosulfan	P	*		*		*	*	P
Esfenvalerate	P	*		P		P	*	*
Ethion	*						*	
Ethoprop	*			*				
Imidacloprid	P		*	*	*	*	*	P
Lambda-cyhalothrin	*				*	*		
Lindane	*						*	
Malathion	P	*	*	*	*	*	*	P
Methomyl	P		*	*		*	*	P
Methyl parathion	*	*						*
Naled	*		*				*	
Neem oil	*		*					
Permethrin	P	*		P	*	P		P
Petroleum distillate	*			*	*			
Piperonyl butoxide	*							*
Potassium salts	*		*		*			
Pyrethrins	*		*					*
Rotenone	*		*					
Spinosad	P		*	*		*	*	*
Tebufenozide	*							*

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Greens, Mustard: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States						
	ALL	AR	CA	GA	IL	NC	SC	TX
Fungicides								
Azoxystrobin	P			*				*
Basic copper sulfate	*			*				*
Benomyl	*			*				*
Chlorothalonil	P			*		*	*	*
Copper ammonium	*						*	
Copper hydroxide	P		*	*				
Fosetyl-al	*		*		*	*	*	
Mancozeb	*			*				
Maneb	P			P				
Metalaxyl	*		*					*
Sulfur	P		*	*				*
Other Chemicals								
Chloropicrin	*							*
Dichloropropene	*							*

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

Greens, Mustard: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
AR 3/	2/			86					
CA	1,500	2	0.1	66	1.3	26	0.3		
GA	3,100	61	1.1	90	8.5	74	3.8		
IL 3/	2/			93					
NC 3/	1,500			91	0.2	79	5.7		
SC 3/	700	66	0.6	76	0.3				
TX 3/	1,300	53	1.4	94	1.6	35	0.7		
Total	8,950	40	3.5	86	12.4	52	10.8	*	1.8

* Area applied is less than one percent.
1/ Total applied excludes Bt's (Bacillus thuringiensis). Quantities are not available because amounts of active ingredient are not comparable between products.
2/ Planted acres and total applied not published to avoid disclosure.
3/ Insufficient reports to publish data for one or more of the pesticide classes.

Greens, Mustard: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Pendimethalin	4	1.0	0.71	0.71	0.2
Trifluralin	27	1.0	0.58	0.59	1.5
Insecticides:					
Acephate	3	1.8	0.69	1.25	0.3
Bt (Bacillus thur.)2/	34	4.3			
Carbaryl	5	1.8	0.66	1.23	0.5
Cypermethrin	8	2.2	0.09	0.20	0.1
Diazinon	*	1.1	1.18	1.31	0.1
Dimethoate	1	1.7	0.25	0.44	**
Endosulfan	8	1.5	0.33	0.51	0.3
Esfenvalerate	11	2.2	0.03	0.06	**
Imidacloprid	16	1.6	0.05	0.08	**
Malathion	12	1.6	1.13	1.88	2.0
Methomyl	4	2.0	0.33	0.70	0.2
Permethrin	4	2.1	0.12	0.26	**
Spinosad	17	1.4	0.06	0.09	0.1
Fungicides:					
Azoxystrobin	15	3.0	0.19	0.57	0.7
Chlorothalonil	*	2.4	0.85	2.09	0.1
Copper hydroxide	6	1.5	0.54	0.86	0.4
Maneb	6	3.6	0.82	3.02	1.7
Sulfur	6	2.0	1.04	2.13	1.1

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 7 program states were 8,950 acres. States included are AR, CA, GA, IL, NC, SC and TX.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Greens, Mustard: Agricultural Chemical Applications, Arkansas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Carbaryl	4	1.5	0.44	0.70	

1/ Planted acres and total applied not published to avoid disclosure.

Greens, Mustard: Agricultural Chemical Applications, Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	50	1.0	0.56	0.56	0.9
Insecticides:					
Acephate	9	1.8	0.69	1.25	0.3
Bt (Bacillus thur.)2/	5	4.4			
Carbaryl	9	1.8	0.47	0.88	0.2
Dimethoate	2	1.7	0.23	0.39	**
Esfenvalerate	8	1.9	0.03	0.06	**
Permethrin	5	2.0	0.10	0.20	**
Fungicides:					
Maneb	18	3.6	0.82	3.02	1.7

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Georgia were 3,100 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Greens, Mustard: Agricultural Chemical Applications, North Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Bt (Bacillus thur.)2/	83	6.7			
Carbaryl	8	1.3	0.99	1.35	0.2
Esfenvalerate	*	9.0	0.006	0.06	**
Permethrin	1	3.4	0.06	0.21	**

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for North Carolina were 1,500 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Greens, Mustard: Agricultural Chemical Applications, South Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	15	1.1	0.55	0.62	0.1
Insecticides:					
Bt (Bacillus thur.)2/	58	1.1			

1/ Planted acres in 2000 for South Carolina were 700 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Greens, Mustard: Agricultural Chemical Applications, Texas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	18	1.0	0.86	0.87	0.2
Insecticides:					
Bt (Bacillus thur.)2/	45	3.5			
Carbaryl	4	2.8	1.07	3.04	0.1
Diazinon	3	1.0	1.55	1.64	0.1
Endosulfan	7	2.0	0.53	1.09	0.1
Imidacloprid	38	2.0	0.05	0.09	**
Malathion	37	2.0	1.23	2.54	1.2
Methomyl	8	3.1	0.32	1.01	0.1
Permethrin	13	2.0	0.15	0.31	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Texas were 1,300 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Greens, Turnip: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States						
		AL	AR	GA	NC	SC	TN	TX
Herbicides								
Bensulide	*					*		*
DCPA	*							*
Ethalfluralin	*			*				*
Metolachlor	*	*						
Napropamide	*				*			
Pendimethalin	P	*		*		*		*
Sethoxydim	*	*			*		*	*
Trifluralin	P	*	*	P	*	P	*	P
Insecticides								
Acephate	P			*			*	
Bt (Bacillus thur.)	P	*	*	P	P	P	*	P
Carbaryl	P	P	P	P	P	P	P	P
Chlorpyrifos	*	*						
Cypermethrin	P	*	*	*				*
Diazinon	P	*		*		*	*	*
Dicofol	*			*				
Dimethoate	P	*		*				
Disulfoton	*				*			
Endosulfan	P	*	*	*		P		P
Esfenvalerate	P	*	*	P	P	*	*	*
Ethion	*					*		
Ethoprop	*			*				
Imidacloprid	P	*		*	*	*		*
Lambda-cyhalothrin	*				*			
Lindane	*					*		
Malathion	P	*	*	P	*	*	*	P
Methomyl	P	*		P	*	*	*	P
Methyl parathion	*		*					*
Naled	*					*		
Permethrin	P	*	*	P	P	*	*	P
Petroleum distillate	*	*						
Potassium salts	*			*				
Spinosad	P	*			*	*		*
Tebufenozide	*							*

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Greens, Turnip: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States					
		AL	AR	GA	NC	SC	TN	TX
Fungicides								
Azoxystrobin	P			*				*
Basic copper sulfate	*			*				*
Benomyl	P	*		*		*		*
Chlorothalonil	P	*		*	*	*		*
Copper ammonium	*					*	*	
Copper hydroxide	P	*		P				*
Fosetyl-al	*				*	*		
Mancozeb	*	*		*				
Maneb	*			*				
Mefenoxam	*							*
Metalaxyl	*							*
Sulfur	P			*		*		
Other Chemicals								
Chloropicrin	*							*
Dichloropropene	*							*

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

Greens, Turnip: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
AL 3/	1,300	25	2/	34	0.1				
AR 3/	2/			87					
GA	5,000	70	2.3	82	13.2	68	3.7		
NC	2,100	74	4.2	65	0.2	56	5.7		
SC 3/	900	67	0.7	71	0.6				
TN 3/	2/	14		56					
TX 3/	800	39	0.5	87	1.3	26	0.8		
Total	11,750	55	8.0	72	16.6	44	10.2		3/

* Area applied is less than one percent.
1/ Total applied excludes Bt's (Bacillus thuringiensis). Quantities are not available because amounts of active ingredient are not comparable between products.
2/ Certain totals not published to avoid disclosure.
3/ Insufficient reports to publish data for one or more of the pesticide classes.

Greens, Turnip: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Pendimethalin	5	1.0	0.71	0.71	0.5
Trifluralin	32	1.0	0.63	0.67	2.4
Insecticides:					
Acephate	3	1.5	0.66	1.05	0.4
Bt (Bacillus thur.)2/	21	3.7			
Carbaryl	18	1.2	1.00	1.25	2.6
Cypermethrin	4	3.0	0.10	0.30	0.1
Diazinon	3	1.1	0.44	0.50	0.2
Dimethoate	3	1.4	0.23	0.33	0.1
Endosulfan	5	1.7	0.31	0.54	0.3
Esfenvalerate	8	2.7	0.02	0.05	**
Imidacloprid	10	2.0	0.05	0.10	0.1
Malathion	15	1.8	1.14	2.09	3.6
Methomyl	5	1.6	0.34	0.55	0.3
Permethrin	11	1.6	0.10	0.16	0.2
Spinosad	6	1.7	0.06	0.11	0.1
Fungicides:					
Azoxystrobin	15	2.7	0.19	0.53	0.9
Benomyl	11	1.0	0.25	0.27	0.3
Chlorothalonil	*	1.8	0.65	1.23	**
Copper hydroxide	4	2.4	0.64	1.56	0.8
Sulfur	2	1.6	2.57	4.25	1.2

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 7 program states were 11,750 acres. States included are AL, AR, GA, NC, SC, TN and TX.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Greens, Turnip: Agricultural Chemical Applications, Alabama, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Carbaryl	3	1.3	0.76	1.03	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Alabama were 1,300 acres.

Greens, Turnip: Agricultural Chemical Applications, Arkansas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Carbaryl	40	1.0	0.75	0.79	

1/ Planted acres and total applied not published for Arkansas to avoid disclosure.

Greens, Turnip: Agricultural Chemical Applications, Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	61	1.0	0.63	0.63	1.9
Insecticides:					
Bt (Bacillus thur.)2/	5	4.5			
Carbaryl	26	1.1	0.97	1.06	1.4
Esfenvalerate	9	1.9	0.04	0.07	**
Malathion	25	2.0	1.10	2.24	2.8
Methomyl	9	1.6	0.33	0.54	0.2
Permethrin	21	1.5	0.10	0.15	0.2
Fungicides:					
Copper hydroxide	7	1.3	0.41	0.56	0.2

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Georgia were 5,000 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Greens, Turnip: Agricultural Chemical Applications, North Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Bt (Bacillus thur.)2/	58	3.9			
Carbaryl	7	1.2	0.99	1.19	0.2
Esfenvalerate	*	9.1	0.006	0.06	**
Permethrin	1	3.5	0.06	0.19	**

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for North Carolina were 2,100 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Greens, Turnip: Agricultural Chemical Applications, South Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	25	2.0	0.51	1.03	0.2
Insecticides:					
Bt (Bacillus thur.)2/	52	1.3			
Carbaryl	4	2.8	0.57	1.60	0.1
Endosulfan	3	1.9	0.48	0.95	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for South Carolina were 900 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Greens, Turnip: Agricultural Chemical Applications, Tennessee, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Carbaryl	11	1.5	0.95	1.49	

1/ Planted acres and total applied not published for Tennessee to avoid disclosure.

Greens, Turnip: Agricultural Chemical Applications, Texas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	29	1.0	0.77	0.78	0.2
Insecticides:					
Bt (Bacillus thur.)2/	21	7.4			
Carbaryl	12	3.4	1.67	5.76	0.5
Endosulfan	8	1.9	0.48	0.95	0.1
Malathion	10	2.3	1.57	3.75	0.3
Methomyl	8	2.2	0.38	0.86	0.1
Permethrin	20	1.7	0.14	0.24	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Texas were 800 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Kale: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States				
	ALL	CA	GA	OH	SC
Herbicides					
Bensulide	P	P		*	*
DCPA	*	*			
Pendimethalin	*		*		
Sethoxydim	*			*	
Trifluralin	P	*	*	*	*
Insecticides					
Acephate	*		*		*
Azadirachtin	*	*			
Bt (Bacillus thur.)	P	P	P	P	P
Carbaryl	P		*	*	*
Chlorpyrifos	P	P	*	*	*
Cypermethrin	P	*	P	*	
Diazinon	*	*		*	
Dimethoate	P	*	*	*	
Endosulfan	*		*	*	*
Esfenvalerate	P		*		*
Ethoprop	*		*		
Imidacloprid	P	P	*	*	*
Malathion	P	*		*	
Methomyl	*	*	*		
Naled	P	*		*	*
Neem oil	*	*			
Neem oil, clar. hyd.	*	*			
Permethrin	*	*		*	
Piperonyl butoxide	*	*			
Potassium salts	*	*			
Pyrethrins	*	*			
Rotenone	*	*			
Spinosad	P	P		*	*
Tebufenozide	*	*			*
Tralomethrin	*			*	
Fungicides					
Azoxystrobin	*		*		
Basic copper sulfate	*		*		
Captan	*	*			
Chlorothalonil	*	*	*		
Copper hydroxide	*	*	*		*
Fosetyl-al	P	*		*	*
Mancozeb	*		*		
Maneb	P	*	*		
Metalaxyl	*	*			
Sulfur	*	*	*		

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

Kale: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA	2,000	39	2.1	91	9.0	34	2.1		
GA	1,200	79	0.6	89	3.4	72	1.4		
OH 2/	180	*	**	82	0.1				
SC	500	77	0.4	*	**	25	0.4		
Total	3,880	54	3.1	88	12.5	45	4.3		

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
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.

Kale: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	9	1.0	2.25	2.45	0.8
Trifluralin	25	1.0	0.60	0.60	0.6
Insecticides:					
Bt (Bacillus thur.)2/	40	1.6			
Carbaryl	3	1.4	0.89	1.31	0.1
Chlorpyrifos	22	2.3	0.97	2.29	2.0
Cypermethrin	13	2.8	0.10	0.27	0.2
Dimethoate	20	1.2	0.24	0.30	0.2
Esfenvalerate	7	1.8	0.03	0.05	**
Imidacloprid	30	2.9	0.09	0.26	0.3
Malathion	6	1.7	1.88	3.23	0.7
Naled	4	1.9	1.59	3.13	0.4
Spinosad	32	2.2	0.07	0.15	0.2
Fungicides:					
Fosetyl-al	20	1.7	1.73	2.93	2.2
Maneb	5	2.3	1.07	2.53	0.5

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 4 program states were 3,880 acres. States included are CA, GA, OH and SC.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Kale: Agricultural Chemical Applications,
California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	7	1.2	3.25	4.00	0.5
Insecticides:					
Bt (Bacillus thur.)2/	50	1.0			
Chlorpyrifos	39	2.3	1.01	2.41	1.9
Imidacloprid	48	3.0	0.09	0.26	0.3
Spinosad	42	2.7	0.07	0.19	0.2

1/ Planted acres in 2000 for California were 2,000 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Kale: Agricultural Chemical Applications,
Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Bt (Bacillus thur.)2/	10	3.7			
Cypermethrin	18	2.8	0.09	0.27	0.1

1/ Planted acres in 2000 for Georgia were 1,200 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Kale: Agricultural Chemical Applications,
Ohio, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Bt (Bacillus thur.)2/:	61		3.6		

1/ Planted acres in 2000 for Ohio were 180 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Kale: Agricultural Chemical Applications,
South Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Bt (Bacillus thur.)2/:	63		2.0		

1/ Planted acres in 2000 for South Carolina were 500 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Lettuce, Head: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States			
	ALL	AZ	CA	NJ
Herbicides				
Benefin	P	P	P	
Bensulide	P	*	P	*
Diclofop-methyl	*		*	
Glyphosate	P	*	P	*
Oxyfluorfen	*		*	
Paraquat	P	*	*	
Pronamide	P	P	P	P
Sethoxydim	*	*	*	
Insecticides				
Abamectin	P	*	*	
Acephate	P	*	P	*
Azadirachtin	P		P	
Bt (Bacillus thur.)	P	P	P	P
Carbaryl	*		*	
Chlorpyrifos	*		*	
Cypermethrin	P	P	P	
Cyromazine	P		P	
Diazinon	P	*	P	*
Dimethoate	P	P	P	
Disulfoton	*		*	
Emamectin benzoate	*		*	
Endosulfan	P	*	*	
Esfenvalerate	P	*	*	
Fenbutatin-oxide	*			*
Imidacloprid	P	*	P	*
Lambda-cyhalothrin	P	*	P	*
Malathion	P	*	P	*
Methomyl	P	P	P	P
Naled	*		*	
Neem oil, clar. hyd.	P		P	
Oxydemeton-methyl	P		P	
Permethrin	P	P	P	P
Piperonyl butoxide	P		P	
Potassium salts	*	*	*	
Pyrethrins	P		P	
Rotenone	P		P	
Silicon dioxide	*		*	
Spinosad	P	P	*	*
Tebufenozide	P	P	P	
Thiodicarb	P	*	*	
Tralomethrin	P		P	
Zeta-cypermethrin	P	P	P	

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Lettuce, Head: Active Ingredients Applied and Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States: ALL	AZ	CA	NJ
Fungicides				
Azoxystrobin	P	*	*	
Bacillus subtilus	*		*	
Chlorothalonil	*		*	*
Copper hydroxide	*		*	*
Dicloran	P		P	
Fosetyl-al	P		*	*
Iprodione	P	P	P	P
Mancozeb	*			*
Maneb	P	*	P	*
Mefenoxam	P	*	*	
Metalaxyl	*			*
Potassium bicarbon.	*		*	
Sulfur	P	*	*	
Vinclozolin	P	*	P	*
Other Chemicals				
Chloropicrin	*		*	
Garlic oil	*		*	
Maleic hydrazide	*	*		
Metaldehyde	*		*	
Methyl bromide	*		*	

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

Lettuce, Head: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Herbicide: Percent	Herbicide: 1,000 Lbs	Insecticide 1/: Percent	Insecticide 1/: 1,000 Lbs	Fungicide: Percent	Fungicide: 1,000 Lbs	Other Chemical: Percent	Other Chemical: 1,000 Lbs
	Acres								
AZ 2/	52,000	53	59.3	92	66.5	42	39.9		
CA 2/	143,500	58	164.5	92	377.1	59	470.6		
NJ	1,200	83	1.4	91	0.4	66	1.2		
Total	196,700	57	225.2	92	444.0	54	511.7	1	134.8

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.

Lettuce, Head: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Benefin	6	1.1	1.08	1.19	14.3
Bensulide	21	1.0	3.76	3.86	156.1
Glyphosate	1	1.0	1.19	1.25	3.5
Paraquat	1	1.0	0.76	0.79	1.5
Pronamide	35	1.0	0.69	0.73	49.5
Insecticides:					
Abamectin	12	1.0	0.008	0.008	0.2
Acephate	45	1.2	0.82	1.03	90.8
Azadirachtin	2	1.0	0.009	0.009	**
Bt (Bacillus thur.)2/	12	1.1			
Cypermethrin	24	1.1	0.08	0.09	4.3
Cyromazine	1	1.0	0.13	0.13	0.3
Diazinon	45	1.2	0.55	0.69	61.1
Dimethoate	41	1.3	0.24	0.33	26.8
Endosulfan	6	1.0	0.94	1.00	12.4
Esfenvalerate	5	1.3	0.04	0.05	0.5
Imidacloprid	50	1.2	0.14	0.17	17.0
Lambda-cyhalothrin	46	1.6	0.03	0.04	3.9
Malathion	4	1.0	1.83	1.93	14.1
Methomyl	52	1.7	0.65	1.12	115.2
Neem Oil, Hydrophob.	1	1.0	2.09	2.11	4.5
Oxydemeton-methyl	25	1.3	0.49	0.64	31.1
Permethrin	62	1.4	0.14	0.21	25.1
Piperonyl butoxide	2	1.0	0.53	0.58	2.2
Pyrethrins	*	1.0	0.007	0.007	**
Rotenone	*	1.0	0.008	0.008	**
Spinosad	59	1.8	0.07	0.14	15.7
Tebufenozide	22	1.1	0.12	0.14	6.2
Thiodicarb	4	1.0	0.56	0.58	4.7
Tralomethrin	15	1.4	0.02	0.03	1.0
Zeta-cypermethrin	22	1.1	0.04	0.05	2.1
Fungicides:					
Azoxystrobin	1	1.2	0.21	0.27	0.7
Dicloran	6	1.1	1.87	2.22	27.6
Fosetyl-al	19	1.4	2.42	3.45	127.6
Iprodione	17	1.0	0.93	0.97	32.5
Maneb	49	2.0	1.42	2.92	278.8
Mefenoxam	1	1.8	0.19	0.34	0.8
Sulfur	5	1.0	2.37	2.54	23.0
Vinclozolin	12	1.0	0.83	0.86	20.5

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 3 program states were 196,700 acres. States included are AZ, CA and NJ.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Lettuce, Head: Agricultural Chemical Applications, Arizona, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Benefin	16	1.0	1.24	1.32	11.0
Pronamide	35	1.0	0.90	0.92	16.9
Insecticides:					
Bt (Bacillus thur.)2/	1	1.1			
Cypermethrin	54	1.2	0.07	0.09	2.6
Dimethoate	18	1.0	0.22	0.24	2.3
Methomyl	48	1.5	0.65	1.00	25.2
Permethrin	46	1.0	0.17	0.18	4.2
Spinosad	88	1.4	0.07	0.11	4.8
Tebufenozide	24	1.0	0.11	0.12	1.4
Zeta-cypermethrin	30	1.3	0.04	0.05	0.9
Fungicides:					
Iprodione	5	1.0	0.94	0.97	2.3

1/ Planted acres in 2000 for Arizona were 52,000 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Lettuce, Head: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Benefin	3	1.2	0.76	0.91	3.3
Bensulide	22	1.0	3.82	3.95	126.3
Glyphosate	2	1.0	0.83	0.88	1.9
Pronamide	34	1.0	0.60	0.64	31.3
Insecticides:					
Acephate	54	1.3	0.84	1.10	84.4
Azadirachtin	2	1.0	0.009	0.009	
Bt (Bacillus thur.)2/	16	1.1			
Cypermethrin	13	1.0	0.09	0.09	1.7
Cyromazine	2	1.0	0.13	0.13	0.3
Diazinon	54	1.2	0.56	0.71	55.2
Dimethoate	50	1.3	0.24	0.34	24.5
Imidacloprid	68	1.2	0.14	0.17	16.8
Lambda-cyhalothrin	51	1.6	0.03	0.04	3.2
Malathion	5	1.0	1.83	1.90	13.7
Methomyl	54	1.8	0.65	1.16	89.8
Neem Oil, Hydrophob.	1	1.0	2.09	2.11	4.5
Oxydemeton-methyl	34	1.3	0.49	0.64	31.1
Permethrin	68	1.5	0.14	0.21	20.7
Piperonyl butoxide	3	1.0	0.53	0.58	2.2
Pyrethrins	*	1.0	0.007	0.007	**
Rotenone	*	1.0	0.008	0.008	**
Tebufenozide	22	1.2	0.12	0.15	4.8
Tralomethrin	21	1.4	0.02	0.03	1.0
Zeta-cypermethrin	19	1.0	0.04	0.05	1.2
Fungicides:					
Dicloran	9	1.1	1.87	2.22	27.6
Iprodione	21	1.0	0.95	0.97	29.3
Maneb	56	2.2	1.44	3.24	261.2
Vinclozolin	12	1.0	0.88	0.92	15.9

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for California were 143,500 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Lettuce, Head: Agricultural Chemical Applications, New Jersey, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Pronamide	83	1.0	1.28	1.32	1.3
Insecticides:					
Bt (Bacillus thur.)2/	12	1.7			
Methomyl	23	2.0	0.31	0.65	0.2
Permethrin	63	2.1	0.15	0.32	0.2
Fungicides:					
Iprodione	59	1.9	0.63	1.21	0.9

1/ Planted acres in 2000 for New Jersey were 1,200 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Lettuce, Other: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States			
	ALL	AZ	CA	FL
Herbicides				
Benefin	P	P	P	
Bensulide	P	P	P	
Diclofop-methyl	*		*	
Diquat	*			*
Glyphosate	P	*	*	
Glyphosate, is. salt	*		*	
Imazethapyr	*			*
Linuron	*			*
Paraquat	P		*	*
Pendimethalin	*		*	
Prometryn	*		*	
Pronamide	P	P	*	*
Sethoxydim	P	*	*	*
Insecticides				
Abamectin	P		*	*
Acephate	P	*	*	
Azadirachtin	P		P	
Bt (Bacillus thur.)	P	*	P	*
Cypermethrin	P	*	*	
Cyromazine	P		*	*
Diazinon	P	*	P	*
Dimethoate	P	*	*	
Disulfoton	*		*	
Endosulfan	P	*	*	
Esfenvalerate	P		P	
Ethyl parathion	*		*	
Imidacloprid	P	*	P	*
Lambda-cyhalothrin	P	P	*	*
Malathion	P		P	
Methomyl	P	P	P	
Naled	*		*	
Neem oil	*		*	
Neem oil, clar. hyd.	P	*	*	
Oxamyl	*		*	
Oxydemeton-methyl	P		P	
Permethrin	P	*	P	*
Piperonyl butoxide	P		P	
Potassium salts	P	*	P	*
Pyrethrins	P		P	
Rotenone	P		P	
Silicon dioxide	*		*	
Spinosad	P	P	*	*
Tebufenozide	P	P	P	
Thiodicarb	P	*	*	
Tralomethrin	P		P	
Zeta-cypermethrin	P	*	*	

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Lettuce, Other: Active Ingredients Applied and Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States			
	ALL	AZ	CA	FL
Fungicides				
AQ-10 Biofungicide	*		*	
Azoxystrobin	P		P	
Bacillus subtilus	*		*	
Basic copper sulfate	*			*
Chlorothalonil	*		*	
Copper hydroxide	P		*	*
Dicloran	P		P	
Fosetyl-al	P	*	*	
Iprodione	P	*	*	
Maneb	P	*	P	*
Mefenoxam	P	*	*	
Potassium bicarbon.	*	*	*	
Sulfur	P	*	*	*
Vinclozolin	P	*	*	
Other Chemicals				
Chloropicrin	P		*	*
Garlic oil	*		*	
Metam-sodium	*		*	
Methyl bromide	P		*	*

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

Lettuce, Other: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
AZ	15,800	86	36.4	94	31.6	24	7.2		
CA	78,000	72	115.7	92	243.0	74	265.2	1	288.1
FL 2/		88		98		86		*	
Total	2/	74		93		66		1	

* Area applied is less than one percent.
1/ Total applied excludes Bt's (Bacillus thuringiensis). Quantities are not available because amounts of active ingredient are not comparable between products.
2/ Planted acres and total applied not published to avoid disclosure.

Lettuce, Other: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Benefin	11	1.7	1.10	1.91	19.1
Bensulide	17	1.2	3.74	4.64	73.4
Glyphosate	*	1.0	0.85	0.85	0.7
Paraquat	1	1.0	0.55	0.56	0.6
Pronamide	61	1.0	0.93	0.98	57.2
Sethoxydim	1	1.0	0.22	0.22	0.2
Insecticides:					
Abamectin	1	1.0	0.009	0.009	**
Acephate	9	2.2	0.73	1.64	14.1
Azadirachtin	4	1.1	0.01	0.01	**
Bt (Bacillus thur.)2/	6	1.6			
Cypermethrin	6	1.6	0.09	0.14	0.8
Cyromazine	6	1.0	0.12	0.13	0.6
Diazinon	51	1.7	0.69	1.22	59.0
Dimethoate	33	1.8	0.24	0.45	13.9
Endosulfan	4	1.0	0.91	0.96	3.7
Esfenvalerate	*	1.0	0.04	0.04	**
Imidacloprid	69	1.7	0.11	0.19	12.2
Lambda-cyhalothrin	39	1.3	0.02	0.03	1.3
Malathion	20	1.0	1.96	2.02	38.9
Methomyl	60	1.9	0.66	1.27	72.9
Neem Oil, Hydrophob.	5	1.0	2.29	2.30	10.7
Oxydemeton-methyl	5	1.2	0.49	0.64	2.8
Permethrin	66	2.1	0.14	0.31	19.8
Piperonyl butoxide	3	1.0	0.08	0.08	0.2
Potassium salts	*	1.6	6.52	10.95	6.7
Pyrethrins	5	1.0	0.005	0.005	**
Rotenone	2	1.0	0.006	0.007	**
Spinosad	42	2.0	0.08	0.15	6.1
Tebufenozide	13	1.0	0.09	0.10	1.2
Thiodicarb	5	1.2	0.60	0.75	3.5
Tralomethrin	22	1.4	0.02	0.03	0.7
Zeta-cypermethrin	*	3.8	0.04	0.17	0.1

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Lettuce, Other: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Fungicides:					
Azoxystrobin	7	1.0	0.22	0.22	1.6
Copper hydroxide	2	1.7	0.36	0.61	1.2
Dicloran	7	1.2	1.95	2.48	15.4
Fosetyl-al	28	1.0	2.59	2.80	75.9
Iprodione	15	1.1	0.94	1.08	15.9
Maneb	57	2.0	1.45	2.91	158.2
Mefenoxam	5	1.1	0.21	0.24	1.1
Sulfur	*	1.0	4.60	4.72	3.6
Vinclozolin	3	1.0	0.91	0.99	2.8
Other Chemicals:					
Chloropicrin	*	1.0	121.74	122.44	44.4
Methyl bromide	*	1.0	247.63	249.05	90.4

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Lettuce, Other: Agricultural Chemical Applications,
Arizona, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Benefin	21	1.2	1.05	1.32	4.3
Bensulide	31	1.0	4.03	4.40	21.2
Pronamide	78	1.1	0.80	0.88	10.9
Insecticides:					
Lambda-cyhalothrin	45	1.4	0.03	0.04	0.3
Methomyl	71	1.6	0.66	1.08	12.1
Spinosad	66	2.3	0.08	0.19	1.9
Tebufenozide	33	1.1	0.07	0.08	0.4

1/ Planted acres in 2000 for Arizona were 15,800 acres.

Lettuce, Other: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Benefin	9	1.9	1.12	2.20	14.8
Bensulide	14	1.3	3.63	4.75	52.2
Insecticides:					
Azadirachtin	5	1.1	0.01	0.01	**
Bt (Bacillus thur.)2/	7	1.6			
Diazinon	54	1.8	0.70	1.32	55.3
Esfenvalerate	*	1.0	0.04	0.04	**
Imidacloprid	81	1.7	0.11	0.19	12.0
Malathion	25	1.0	1.96	2.02	38.9
Methomyl	59	2.0	0.66	1.32	60.8
Oxydemeton-methyl	6	1.2	0.49	0.64	2.8
Permethrin	68	2.4	0.14	0.34	18.0
Piperonyl butoxide	4	1.0	0.08	0.08	0.2
Potassium salts	*	1.7	7.07	12.43	6.5
Pyrethrins	6	1.0	0.005	0.005	**
Rotenone	2	1.0	0.006	0.007	**
Tebufenozide	9	1.0	0.12	0.12	0.8
Tralomethrin	27	1.4	0.02	0.03	0.7
Fungicides:					
Azoxystrobin	9	1.0	0.22	0.22	1.6
Dicloran	8	1.2	1.95	2.48	15.4
Maneb	66	2.0	1.46	2.94	151.6

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for California were 78,000 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Melons, Cantaloupe: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States: AZ	CA	GA	MI	TX
Herbicides						
2,4-D	*					*
Bensulide	P	P	P		P	P
Chloramben	*				*	
Clomazone	*			*		
Cyanazine	*				*	
EPTC	*		*			
Ethalfluralin	P	*	*	P	P	*
Glyphosate	P		*	*	*	*
Metolachlor	*			*	*	
Naptalam	P			*	*	*
Oxyfluorfen	*		*			
Paraquat	P		*	*	*	*
Pendimethalin	P			*		*
Sethoxydim	P	*	*	*		*
Trifluralin	P	*	P	*	P	P
Insecticides						
Abamectin	P	*	*			
Acephate	*			*		*
Azadirachtin	*	*			*	*
Azinphos-methyl	*				*	
Bifenthrin	P	P	*			*
Bt (Bacillus thur.)	P	P	P	*	*	P
Buprofezin	P	*	*			
Carbaryl	P	*	*	P	P	P
Carbofuran	P				*	*
Chlorpyrifos	*					*
Cryolite	*		*			
Cypermethrin	*			*		
Cyromazine	P	*	*			*
Diazinon	P	*	P		*	P
Dicofol	P	*	P	*		
Dimethoate	P			*		*
Disulfoton	*		*			
Endosulfan	P	P	P	P	P	P
Esfenvalerate	P	P	*	P	P	*
Fenpropathrin	*	*				
Imidacloprid	P	P	P	*	*	P
Lambda-cyhalothrin	*		*			*
Lindane	*	*				
Malathion	*		*			*
Methomyl	P		P		*	*
Naled	*		*		*	
Neem oil	*	*	*			
Neem oil, clar. hyd.	*	*	*			
Oxamyl	P	*	*			*
Oxydemeton-methyl	*					*
Permethrin	P	P	P	*	*	*
Petroleum distillate	*	*				
Phosmet	*				*	
Spinosad	*	*	*			
Tebufenozide	*					*

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Melons, Cantaloupe: Active Ingredients Applied and Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States					
	ALL	AZ	CA	GA	MI	TX
Fungicides						
Azoxystrobin	P	*	*	P		P
Benomyl	P	*	*	P	*	*
Captan	*					*
Chlorothalonil	P	*	*	P	P	P
Copper (metallic)	*				*	
Copper ammonium	*			*		
Copper chloride hyd.	*					*
Copper hydroxide	P			*	*	
Copper sulfate	*				*	
Dinocap	*			*		
Fosetyl-al	*		*		*	
Iprodione	*				*	
Mancozeb	P			P	P	P
Maneb	P	*		P	*	P
Mefenoxam	P	*	*			P
Metalaxyl	P			*	*	P
Myclobutanil	P				*	*
Potassium bicarbon.	*	*				
Sulfur	P	*	P		*	
Tebuconazole	*			*		
Thiophanate-methyl	P	P	*		*	
Triadimefon	*	*			*	*
Trifloxystrobin	P	*	P			*
Other Chemicals						
Chloropicrin	P			*	*	
Cytokinins	*					*
Dichloropropene	P	*		*	*	*
Diphacinone	*		*			
GABA	*	*				
Gibberellic acid	P					P
Indolebutyric Acid	*					*
L-Glutamic acid	*	*				
Metam-sodium	P	*	*	*		
Methyl bromide	P		*	P	*	

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

Melons, Cantaloupe: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
AZ	14,600	30	8.0	92	10.1	75	11.5	13	119.2
CA	58,500	42	36.5	76	53.6	52	333.4	9	945.6
GA	6,800	32	1.8	31	2.7	89	27.5	8	84.5
MI	800	39	0.7	78	1.1	76	5.3	16	25.1
TX	11,800	70	16.0	64	19.1	63	31.0	18	46.2
Total	92,500	43	63.0	74	86.6	60	408.7	11	1,220.6

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

Melons, Cantaloupe: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	17	1.1	2.19	2.50	39.0
Ethalfluralin	3	1.0	0.49	0.49	1.2
Glyphosate	4	1.9	0.64	1.24	5.0
Naptalam	3	1.0	0.61	0.67	1.8
Paraquat	2	1.0	0.35	0.35	0.5
Pendimethalin	3	1.0	0.69	0.74	2.3
Sethoxydim	2	1.2	0.14	0.16	0.4
Trifluralin	20	1.1	0.58	0.66	12.3
Insecticides:					
Abamectin	8	1.4	0.006	0.009	0.1
Bifenthrin	15	1.2	0.08	0.10	1.5
Bt (Bacillus thur.)2/	21	1.4			
Buprofezin	6	1.3	0.35	0.47	2.5
Carbaryl	5	2.2	0.60	1.33	6.0
Carbofuran	1	1.2	0.98	1.25	1.3
Cyromazine	1	1.9	0.11	0.21	0.2
Diazinon	15	1.3	0.79	1.08	14.6
Dicofol	5	1.2	0.52	0.63	2.7
Dimethoate	*	2.7	0.16	0.45	0.1
Endosulfan	15	1.5	0.74	1.12	15.8
Esfenvalerate	6	1.4	0.04	0.06	0.4
Imidacloprid	28	1.5	0.20	0.31	8.1
Methomyl	17	1.5	0.51	0.77	11.7
Oxamyl	3	1.8	0.56	1.02	2.8
Permethrin	6	1.4	0.16	0.24	1.3
Fungicides:					
Azoxystrobin	6	1.8	0.16	0.29	1.6
Benomyl	8	1.3	0.24	0.33	2.5
Chlorothalonil	13	3.0	1.17	3.57	44.4
Copper hydroxide	*	4.5	0.60	2.74	0.6
Mancozeb	4	1.9	1.31	2.60	10.2
Maneb	2	1.2	1.50	1.94	4.3
Mefenoxam	18	1.5	0.15	0.22	3.6
Metalaxyl	4	1.8	0.11	0.22	0.8
Myclobutanil	3	1.6	0.08	0.13	0.4
Sulfur	16	1.3	17.06	23.09	332.9
Thiophanate-methyl	11	1.2	0.45	0.56	5.5
Trifloxystrobin	11	1.0	0.04	0.05	0.5

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Melons, Cantaloupe: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Other Chemicals:					
Chloropicrin	*	1.0	60.72	60.72	37.0
Dichloropropene	2	1.2	49.27	61.88	134.0
Gibberellic acid	2	1.6	0.002	0.003	**
Metam-sodium	5	1.0	143.06	149.36	715.7
Methyl bromide	2	1.0	168.15	168.15	333.9

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 5 program states were 92,500 acres. States included are AZ, CA, GA, MI and TX.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Melons, Cantaloupe: Agricultural Chemical Applications, Arizona, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	15	1.1	2.65	3.01	6.7
Insecticides:					
Bifenthrin	20	1.1	0.08	0.09	0.3
Bt (Bacillus thur.)2/	17	1.0			
Endosulfan	36	1.1	0.79	0.89	4.6
Esfenvalerate	9	1.0	0.04	0.04	0.1
Imidacloprid	22	1.1	0.25	0.28	0.9
Permethrin	4	1.0	0.18	0.19	0.1
Fungicides:					
Thiophanate-methyl	51	1.2	0.50	0.61	4.5

1/ Planted acres in 2000 for Arizona were 14,600 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Melons, Cantaloupe: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	18	1.1	2.19	2.56	26.2
Trifluralin	22	1.1	0.54	0.59	7.5
Insecticides:					
Bt (Bacillus thur.)2/	20	1.1			
Diazinon	15	1.3	0.71	0.92	7.9
Dicofol	7	1.1	0.53	0.60	2.4
Endosulfan	10	1.3	0.93	1.24	7.3
Imidacloprid	31	1.5	0.20	0.31	5.5
Methomyl	23	1.3	0.52	0.72	9.5
Permethrin	4	1.0	0.18	0.18	0.4
Fungicides:					
Sulfur	24	1.3	17.57	23.56	327.9
Trifloxystrobin	15	1.0	0.04	0.04	0.4

1/ Planted acres in 2000 for California were 58,500 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Melons, Cantaloupe: Agricultural Chemical Applications, Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Ethalfluralin	29	1.0	0.50	0.50	1.0
Insecticides:					
Carbaryl	18	2.2	0.73	1.65	2.0
Endosulfan	1	2.0	0.55	1.15	0.1
Esfenvalerate	17	2.5	0.04	0.10	0.1
Fungicides:					
Azoxystrobin	9	3.2	0.17	0.54	0.3
Benomyl	66	1.3	0.25	0.34	1.5
Chlorothalonil	82	3.4	1.11	3.82	21.4
Mancozeb	13	2.9	1.33	3.91	3.6
Maneb	4	1.4	1.12	1.58	0.4
Other Chemicals:					
Methyl bromide	7	1.0	109.03	109.03	53.4

1/ Planted acres in 2000 for Georgia were 6,800 acres.

Melons, Cantaloupe: 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:					
Bensulide	7	1.0	4.50	4.50	0.2
Ethalfluralin	9	1.0	0.67	0.71	**
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	**
Fungicides:					
Chlorothalonil	72	4.1	1.37	5.66	3.3
Mancozeb	8	3.5	1.37	4.81	0.3

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Michigan were 800 acres.

Melons, Cantaloupe: 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:					
Bensulide	26	1.0	1.78	1.91	5.9
Trifluralin	30	1.1	0.82	0.93	3.3
Insecticides:					
Bt (Bacillus thur.)2/	41	2.2			
Carbaryl	8	4.5	0.41	1.87	1.8
Diazinon	26	1.6	1.16	1.95	6.0
Endosulfan	23	2.5	0.51	1.31	3.6
Imidacloprid	40	1.8	0.19	0.34	1.6
Fungicides:					
Azoxystrobin	39	1.6	0.16	0.26	1.2
Chlorothalonil	48	2.7	1.19	3.30	18.7
Mancozeb	25	1.6	1.29	2.14	6.3
Maneb	14	1.1	1.59	1.84	3.1
Mefenoxam	18	2.7	0.08	0.23	0.5
Metalaxyl	32	1.8	0.11	0.21	0.8
Other Chemicals:					
Gibberellic acid	13	1.6	0.002	0.003	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Texas were 11,800 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Melons, Honeydew: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States			
	ALL	AZ	CA	TX
Herbicides				
Bensulide	P	*	*	*
Diclofop-methyl	*		*	
Ethalfluralin	*	*		*
Glyphosate	*			*
Pendimethalin	*			*
Sethoxydim	*		*	*
Trifluralin	P	*	*	*
Insecticides				
Abamectin	P	*	*	
Acephate	*			*
Azadirachtin	*			*
Azinphos-methyl	*		*	
Bifenthrin	P	*	*	*
Bt (Bacillus thur.)	P	*	*	P
Buprofezin	*	*		
Carbaryl	P	*	*	*
Cyromazine	*			*
Diazinon	P	*	*	*
Dicofol	*	*	*	*
Dimethoate	*		*	
Endosulfan	P	*	*	*
Esfenvalerate	P	*	*	
Fenpropathrin	*			*
Imidacloprid	P	*	*	P
Lambda-cyhalothrin	*			*
Lindane	*	*		
Methomyl	*	*	*	*
Neem oil	*	*	*	
Neem oil, clar. hyd.	*	*	*	
Oxamyl	*	*	*	
Oxydemeton-methyl	*		*	*
Permethrin	*	*		*
Petroleum distillate	*	*		
Spinosad	*	*	*	

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Melons, Honeydew: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States: ALL	AZ	CA	TX
Fungicides				
Azoxystrobin	P	*		*
Benomyl	*	*	*	
Chlorothalonil	P			P
Mancozeb	*			*
Maneb	*	*		*
Mefenoxam	P	*	*	*
Metalaxyl	*			*
Myclobutanil	*			*
Thiophanate-methyl	P	*	*	
Triadimefon	*	*		
Trifloxystrobin	P	*	*	*
Other Chemicals				
Cytokinins	*	*		*
Dichloropropene	*			*
GABA	*	*		
Gibberellic acid	*			*
Indolebutyric Acid	*			*
L-Glutamic acid	*	*		
Metam-sodium	*	*	*	

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

Melons, Honeydew: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied: Herbicide Percent	Herbicide 1,000 Lbs	Insecticide 1/ Percent	Insecticide 1/ 1,000 Lbs	Fungicide Percent	Fungicide 1,000 Lbs	Other Chemical Percent	Other Chemical 1,000 Lbs
	Acres								
AZ 2/	4,000	18	2.5	82	1.9	73	2.3		
CA 2/	22,000	3	1.0	78	18.5	10	0.4		
TX	2,600	80	2.9	89	3.5	95	10.2	26	24.2
Total	28,600	12	6.4	80	23.9	26	12.9	3	46.9

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.

Melons, Honeydew: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	5	1.1	2.41	2.78	4.3
Trifluralin	3	1.0	0.43	0.47	0.5
Insecticides:					
Abamectin	6	1.2	0.008	0.009	**
Bifenthrin	50	1.7	0.08	0.14	1.9
Bt (Bacillus thur.)2/	19	1.6			
Carbaryl	37	1.0	0.22	0.22	2.3
Diazinon	6	1.0	1.11	1.13	2.0
Endosulfan	8	1.0	0.75	0.81	1.9
Esfenvalerate	13	1.1	0.02	0.02	0.1
Imidacloprid	12	1.2	0.22	0.26	0.9
Fungicides:					
Azoxystrobin	7	1.0	0.11	0.11	0.2
Chlorothalonil	6	2.8	1.15	3.22	5.6
Mefenoxam	7	1.6	0.12	0.19	0.4
Thiophanate-methyl	7	1.4	0.52	0.76	1.4
Trifloxystrobin	13	1.8	0.06	0.11	0.4

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 3 program states were 28,600 acres. States included are AZ, CA and TX.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Melons, Honeydew: Agricultural Chemical Applications, Texas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Bt (Bacillus thur.)2/	85	2.1			
Imidacloprid	42	1.2	0.21	0.25	0.3
Fungicides:					
Chlorothalonil	67	2.8	1.15	3.22	5.6

1/ Planted acres in 2000 for Texas were 2,600 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Melons, Watermelons: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States							
		AL	AZ	CA	FL	GA	NC	SC	TX
Herbicides									
2,4-D	*								*
Alachlor	*						*		
Atrazine	*	*					*		
Bensulide	P	*	*	*			*	*	*
Bromacil	*								*
Butylate	*					*			
Clomazone	*					*			
Diquat	*				*				
Diuron	*	*							
Ethalfluralin	P	P			*	P	P	P	*
Fluazifop-P-butyl	P				*			*	*
Glyphosate	P	*	*	*	P	*	*	*	*
Glyphosate, is. salt	*								*
Lactofen	*					*			
Metolachlor	*	*				*	*		
Naptalam	P	*			*	*	P	P	P
Paraquat	P	*			*	*	*	*	
Pendimethalin	P					P	*	*	P
Sethoxydim	P	*	*		P	P	P	*	P
Simazine	*	*							
Trifluralin	P	P	P	*		P	*	P	P

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Melons, Watermelons: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States: AL	AZ	CA	FL	GA	NC	SC	TX
Insecticides									
Abamectin	P		*	P		*	*		
Acephate	P	*			*	*	*		*
Azadirachtin	*		*						*
Azinphos-methyl	*				*				
Bifenthrin	P		*	*	*	*			
Bt (Bacillus thur.)	P		*	P	P		*	*	*
Buprofezin	P		P						
Carbaryl	P	P		*	P	P	P	*	P
Carbofuran	P	*							*
Chlorpyrifos	*					*			*
Cryolite	*			*					
Cyfluthrin	*				*				
Cypermethrin	*					*	*		
Cyromazine	*				*				*
Diazinon	P	*		*	*	*			P
Dicofol	P		P	P	*	*			*
Dimethoate	P	*		*	*	P	*	*	P
Endosulfan	P	P	P		P	P	*	*	P
Esfenvalerate	P	P	*	*	*	P	P	P	P
Ethyl parathion	*								*
Fenamiphos	*					*			
Fenpropathrin	*		*						
Imidacloprid	P		*	*	*	*			P
Lambda-cyhalothrin	*								*
Malathion	P	*		*	*		*	*	P
Methamidophos	*				*				
Methomyl	P	*	*	*	P	*		*	P
Methyl parathion	*								*
Neem oil, clar. hyd.	P		*		*				*
Oxamyl	P	*	*		*			*	*
Oxydemeton-methyl	*		*	*					*
Permethrin	P	*	P		P	*	*		P
Petroleum distillate	*					*			*
Piperonyl butoxide	*				*				
Potassium salts	*				*				
Rotenone	*						*		
Spinosad	*		*	*	*				
Tebufenozide	*				*				*
Terbufos	*							*	

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Melons, Watermelons: Active Ingredients Applied and Publication Status By Program States, 2000 (continued)

Active Ingredient	ALL	Program States							
		AL	AZ	CA	FL	GA	NC	SC	TX
Fungicides									
AQ-10 Biofungicide	*		*						
Azoxystrobin	P	*	P	*	P	P	P	P	P
Basic copper sulfate	P	*			*				
Benomyl	P	P	P	*	P	P		*	*
Captan	*	*			*				
Chlorothalonil	P	P	*	*	P	P	P	P	P
Copper ammonium	*					*		*	
Copper chloride hyd.	*								*
Copper hydroxide	P	P		*	P	*	*	*	*
Copper resinate	*							*	
Copper sulfate	*				*				
Dinocap	*					*			
Fenhexamid	*						*		
Fosetyl-al	*				*				
Mancozeb	P	P			P	P	P	P	P
Maneb	P		*		P	P	*	*	*
Mefenoxam	P			*	*				*
Metalaxyl	P	P	*		P	*	*		P
Myclobutanil	*			*					*
Potassium bicarbon.	*		*						
Propiconazole	*	*							
Sulfur	P	*	P	P	*		*	*	*
Tebuconazole	*					*			
Thiophanate-methyl	P	*	*	*					*
Triadimefon	*		*	*					*
Trifloxystrobin	P		*	P			*		*
Other Chemicals									
Chloropicrin	P	*		*	*	P	*	*	*
Cytokinins	*		*					*	*
Dichloropropene	P	*		*	*	*	*		
Ethephon	*								*
Gibberellic acid	*								*
Indolebutyric Acid	*								*
Metam-sodium	*			*		*			
Methyl bromide	P	*		P	P	P	*	*	*

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

Melons, Watermelons: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide 1/:		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
AL 2/	5,600	24	1.7	32	1.4	64	11.4		
AZ 2/	7,100	31	4.7	56	5.9	49	38.7		
CA	12,300	6	1.2	67	43.9	78	90.1	19	371.7
FL	30,000	31	8.1	48	15.1	90	215.9	10	612.4
GA	28,000	60	12.6	21	4.4	92	117.1	7	222.7
NC	10,900	78	19.5	7	0.4	60	22.0	1	17.1
SC	9,600	14	1.4	7	0.2	72	21.8	2	17.4
TX	47,000	80	39.3	73	48.6	76	208.1	5	21.3
Total	150,500	52	88.5	47	119.9	79	725.1	7	1,266.0

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.

Melons, Watermelons: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	1	1.0	3.59	3.92	6.0
Ethalfluralin	17	1.0	0.70	0.72	18.8
Fluazifop-P-butyl	5	1.0	0.34	0.34	2.5
Glyphosate	3	1.2	0.87	1.06	5.4
Naptalam	12	1.4	0.94	1.33	23.7
Paraquat	4	1.0	0.67	0.68	3.6
Pendimethalin	8	1.1	0.78	0.88	10.5
Sethoxydim	15	1.1	0.21	0.23	5.3
Trifluralin	14	1.0	0.51	0.51	10.8
Insecticides:					
Abamectin	5	1.1	0.006	0.007	**
Acephate	*	1.1	0.58	0.68	1.0
Bifenthrin	2	2.0	0.08	0.16	0.4
Bt (Bacillus thur.)2/	11	2.5			
Buprofezin	*	1.5	0.36	0.55	0.7
Carbaryl	4	1.8	0.52	0.95	6.2
Carbofuran	5	1.0	0.60	0.60	4.5
Diazinon	3	1.3	1.14	1.55	6.2
Dicofol	3	1.7	0.52	0.93	4.7
Dimethoate	9	2.2	0.43	0.98	12.9
Endosulfan	16	1.9	0.53	1.03	25.3
Esfenvalerate	9	1.5	0.03	0.04	0.6
Imidacloprid	6	1.3	0.19	0.25	2.3
Malathion	2	1.3	1.26	1.72	3.9
Methomyl	6	1.9	0.39	0.77	7.2
Neem Oil, Hydrophob.	*	1.0	1.78	1.86	1.6
Oxamyl	2	1.6	0.38	0.63	1.6
Permethrin	5	1.9	0.13	0.26	1.8
Fungicides:					
Azoxystrobin	18	1.4	0.17	0.25	6.8
Basic copper sulfate	*	1.4	0.98	1.39	0.6
Benomyl	17	2.3	0.25	0.59	15.1
Chlorothalonil	53	2.6	1.24	3.22	259.0
Copper hydroxide	14	2.4	0.55	1.37	28.7
Mancozeb	39	3.5	1.17	4.18	244.2
Maneb	8	2.5	0.82	2.10	26.3
Mefenoxam	4	1.2	0.15	0.18	1.1
Metalaxyl	16	1.9	0.20	0.40	9.9
Sulfur	6	2.4	5.64	13.53	123.4
Thiophanate-methyl	3	1.5	0.37	0.55	2.3
Trifloxystrobin	4	1.9	0.06	0.12	0.7

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Melons, Watermelons: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Other Chemicals:					
Chloropicrin	4	1.0	50.28	51.66	289.4
Dichloropropene	*	1.0	56.09	56.09	70.4
Methyl bromide	4	1.0	126.59	133.62	828.1

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 8 program states were 150,500 acres. States included are AL, AZ, CA, FL, GA, NC, SC and TX.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Melons, Watermelons: Agricultural Chemical Applications,
Alabama, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Ethalfluralin	18	1.0	0.87	0.87	0.9
Trifluralin	1	1.0	0.58	0.58	**
Insecticides:					
Carbaryl	7	1.0	1.09	1.14	0.4
Endosulfan	7	1.0	0.44	0.45	0.2
Esfenvalerate	11	1.2	0.03	0.04	**
Fungicides:					
Benomyl	9	2.4	0.22	0.53	0.3
Chlorothalonil	46	2.4	1.17	2.90	7.4
Copper hydroxide	9	1.8	0.83	1.53	0.8
Mancozeb	21	1.5	1.21	1.90	2.2
Metalaxyl	10	1.1	0.15	0.16	0.1

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Alabama were 5,600 acres.

Melons, Watermelons: Agricultural Chemical Applications, Arizona, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	19	1.0	0.31	0.31	0.4
Insecticides:					
Buprofezin	18	1.5	0.36	0.55	0.7
Dicofol	16	1.4	0.40	0.59	0.7
Endosulfan	35	1.5	0.81	1.26	3.1
Permethrin	5	1.3	0.19	0.25	0.1
Fungicides:					
Azoxystrobin	19	1.0	0.18	0.18	0.3
Benomyl	22	1.8	0.24	0.45	0.7
Sulfur	24	2.0	8.83	17.86	30.9

1/ Planted acres in 2000 for Arizona were 7,100 acres.

Melons, Watermelons: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Abamectin	48	1.2	0.006	0.008	**
Bt (Bacillus thur.)2/	44	1.4			
Dicofol	25	1.4	0.60	0.89	2.8
Fungicides:					
Sulfur	28	1.8	13.65	25.28	85.8
Trifloxystrobin	18	1.7	0.06	0.10	0.2
Other Chemicals:					
Methyl bromide	12	1.2	134.74	166.22	244.9

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for California were 12,300 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Melons, Watermelons: Agricultural Chemical Applications, Florida, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Glyphosate	3	1.3	1.00	1.31	1.1
Sethoxydim	13	1.1	0.22	0.24	1.0
Insecticides:					
Bt (Bacillus thur.)2/	24	3.5			
Carbaryl	3	3.0	0.65	1.95	1.6
Endosulfan	14	2.3	0.47	1.10	4.7
Methomyl	5	2.5	0.49	1.24	1.9
Permethrin	11	2.3	0.10	0.23	0.7
Fungicides:					
Azoxystrobin	31	1.1	0.20	0.23	2.2
Benomyl	23	2.2	0.27	0.60	4.2
Chlorothalonil	63	2.9	1.26	3.77	70.8
Copper hydroxide	34	2.7	0.51	1.41	14.5
Mancozeb	72	4.6	1.12	5.18	111.7
Maneb	11	2.2	1.06	2.33	8.0
Metalaxyl	19	2.0	0.12	0.23	1.3
Other Chemicals:					
Methyl bromide	10	1.0	145.12	145.12	438.9

1/ Planted acres in 2000 for Florida were 30,000 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Melons, Watermelons: Agricultural Chemical Applications, Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Ethalfluralin	53	1.0	0.52	0.52	7.8
Pendimethalin	*	1.0	0.87	0.87	0.1
Sethoxydim	7	1.8	0.19	0.35	0.7
Trifluralin	3	1.0	0.93	0.93	0.7
Insecticides:					
Carbaryl	4	1.5	0.61	0.94	0.9
Dimethoate	8	1.0	0.18	0.18	0.4
Endosulfan	*	1.0	0.72	0.78	0.2
Esfenvalerate	7	1.8	0.04	0.07	0.1
Fungicides:					
Azoxystrobin	21	2.0	0.16	0.31	1.9
Benomyl	42	2.1	0.25	0.53	6.2
Chlorothalonil	87	2.6	1.15	3.06	74.2
Mancozeb	40	2.1	1.29	2.82	31.2
Maneb	4	1.4	1.09	1.53	1.5
Other Chemicals:					
Chloropicrin	5	1.0	52.87	52.87	77.8
Methyl bromide	5	1.0	82.31	82.31	103.9

* Area applied is less than one percent.
1/ Planted acres in 2000 for Georgia were 28,000 acres.

Melons, Watermelons: Agricultural Chemical Applications, North Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Ethalfluralin	49	1.0	1.10	1.17	6.2
Naptalam	41	1.0	1.96	1.96	8.8
Sethoxydim	23	1.0	0.21	0.21	0.5
Insecticides:					
Carbaryl	2	1.1	0.87	1.01	0.2
Esfenvalerate	2	1.0	0.03	0.03	**
Fungicides:					
Azoxystrobin	21	1.0	0.06	0.06	0.1
Chlorothalonil	57	1.5	1.52	2.41	15.0
Mancozeb	27	1.2	1.07	1.38	4.0

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for North Carolina were 10,900 acres.

Melons, Watermelons: Agricultural Chemical Applications, South Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Ethalfluralin	10	1.0	0.72	0.72	0.7
Naptalam	1	1.2	1.40	1.77	0.2
Trifluralin	*	1.0	0.94	0.94	**
Insecticides:					
Esfenvalerate	*	1.0	0.03	0.03	**
Fungicides:					
Azoxystrobin	35	1.6	0.14	0.23	0.8
Chlorothalonil	32	1.2	1.07	1.30	4.0
Mancozeb	43	2.5	1.44	3.61	15.0

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for South Carolina were 9,600 acres.

Melons, Watermelons: Agricultural Chemical Applications, Texas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Naptalam	21	1.7	0.67	1.17	11.6
Pendimethalin	25	1.1	0.78	0.88	10.4
Sethoxydim	30	1.0	0.21	0.21	3.0
Trifluralin	39	1.0	0.51	0.51	9.3
Insecticides:					
Carbaryl	9	1.7	0.42	0.74	3.0
Diazinon	3	1.5	0.98	1.53	1.8
Dimethoate	17	2.5	0.48	1.22	9.8
Endosulfan	37	1.9	0.51	0.99	17.1
Esfenvalerate	16	1.1	0.02	0.02	0.2
Imidacloprid	12	1.1	0.18	0.21	1.2
Malathion	1	1.7	0.74	1.28	0.7
Methomyl	12	2.0	0.32	0.65	3.7
Permethrin	5	1.2	0.20	0.25	0.6
Fungicides:					
Azoxystrobin	9	1.5	0.19	0.30	1.3
Chlorothalonil	50	2.8	1.25	3.51	82.5
Mancozeb	37	3.9	1.16	4.57	80.1
Metalaxyl	36	2.0	0.22	0.46	7.9

1/ Planted acres in 2000 for Texas were 47,000 acres.

Okra: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States				
	ALL	AL	FL	GA	TX
Herbicides					
2,4-D	*				*
DCPA	*				*
Diuron	*			*	
Ethalfluralin	*			*	
Glyphosate	P	*	*	*	*
Metolachlor	*	*		*	*
Paraquat	*			*	
Pendimethalin	P	*		P	*
Sethoxydim	*	*		*	*
Sulfosate	*				*
Trifluralin	P	*	*	P	P
Insecticides					
Acephate	P	*	*	P	
Azadirachtin	*		*		*
Bt (Bacillus thur.)	*		*	*	
Carbaryl	P	P	P	P	P
Diazinon	*		*		*
Dicofol	*				*
Endosulfan	P	*	*	*	*
Esfenvalerate	*	*		*	*
Fenamiphos	*			*	
Malathion	P	*	*	*	P
Methomyl	P		*	*	*
Methyl parathion	*				*
Oxamyl	*		*		
Permethrin	P		*	*	
Petroleum distillate	*		*		
Fungicides					
Azoxystrobin	*				*
Benomyl	*				*
Chlorothalonil	P	*	*		*
Copper hydroxide	*	*	*		
Copper sulfate	*		*		
Mancozeb	*		*		
Maneb	*		*		
Metalaxyl	*				*
Sulfur	P		P		
Other Chemicals					
Chloropicrin	*				*
Dichloropropene	*				*

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

Okra: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State:	Planted : Acreage :	Area Receiving and Total Applied							
		Herbicide		Insecticide 1/:		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
AL 2/:	300	22	0.1	*	**				
FL 2/:	1,700			94	9.6	50	6.3		
GA :	600	69	0.3	69	0.6				
TX 2/:	600	67	0.5	33	0.2				
Total:	3,200	28	0.9	70	10.4	27	6.3		2/

* Area applied is less than one percent.
** Total applied is less than 50 lbs
1/ Total applied excludes Bt's (Bacillus thuringiensis). Quantities are not available because amounts of active ingredient are not comparable between products.

Okra: Agricultural Chemical Applications,
Program States, 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	*	1.5	0.98	1.47	**
Pendimethalin	4	1.0	0.98	0.98	0.1
Trifluralin	22	1.0	0.51	0.52	0.4
Insecticides:					
Acephate	4	1.7	0.71	1.28	0.1
Carbaryl	30	3.8	1.56	6.00	5.8
Endosulfan	6	5.4	0.66	3.64	0.6
Malathion	8	4.8	1.18	5.73	1.6
Methomyl	4	3.7	0.24	0.89	0.1
Permethrin	1	3.2	0.09	0.28	**
Fungicides:					
Chlorothalonil	2	2.5	0.69	1.75	0.1
Sulfur	20	6.7	1.05	7.12	4.7

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 4 program states were 3,200 acres. States included are AL, FL, GA and TX.

Okra: Agricultural Chemical Applications,
Alabama, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Carbaryl	6	2.0	0.96	1.95	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Alabama were 300 acres.

Okra: Agricultural Chemical Applications,
Florida, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Carbaryl	40	4.5	1.70	7.74	5.3
Fungicides:					
Sulfur	38	6.7	1.05	7.12	4.7

1/ Planted acres in 2000 for Florida were 1,700 acres.

Okra: Agricultural Chemical Applications,
Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Pendimethalin	23	1.0	0.99	0.99	0.1
Trifluralin	43	1.0	0.75	0.75	0.2
Insecticides:					
Acephate	19	1.7	0.73	1.31	0.1
Carbaryl	42	2.0	0.99	1.99	0.5

1/ Planted acres in 2000 for Georgia were 600 acres.

Okra: Agricultural Chemical Applications,
Texas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	65	1.0	0.28	0.28	0.1
Insecticides:					
Carbaryl	4	3.7	0.35	1.31	**
Malathion	11	1.9	1.22	2.35	0.2

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Texas were 600 acres.

Onions, Dry: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States AZ	CA	GA	MI	NY
Herbicides						
Atrazine	*					
Bensulide	P	P	P			
Bentazon	*					*
Bromoxynil	P	*	P		P	P
Clethodim	P	*	P			*
Cyanazine	*					*
DCPA	P	*	P			
Dicamba	*					*
Dimethenamid	P					*
Diuron	*					
Fluazifop-P-butyl	P	*	P		P	P
Glyphosate	P			*	*	*
Glyphosate, is. salt	*		*			
Metolachlor	P				P	*
Napropamide	*					
Naptalam	*					
Oxyfluorfen	P	*	P	P	P	*
Paraquat	P		*	*		*
Pendimethalin	P	P	P	P	P	P
Quizalofop-ethyl	*					
S-Metolachlor	*					
Sethoxydim	P	*	P			
Sulfosate	*					*
Trifluralin	P		*	*	*	

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Onions, Dry: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States					
	ALL	AZ	CA	GA	MI	NY
Insecticides						
Acephate	*			*		
Azadirachtin	P				*	
Azinphos-methyl	P				*	*
Beauveria bassiana	*					
Bt (Bacillus thur.)	P		*		*	*
Carbaryl	P				*	*
Chlorpyrifos	P		*	P	P	P
Cypermethrin	P	*	P	*	P	P
Diazinon	P		P	*	*	P
Dimethoate	*				*	
Endosulfan	*					*
Esfenvalerate	*				*	*
Ethyl parathion	*					
Fenamiphos	*			*		
Fonofos	*					
Imidacloprid	*					
Lambda-cyhalothrin	P	*	P	*	P	P
Malathion	P		*	*	*	
Methomyl	P	*	P		*	*
Methyl parathion	P				*	*
Neem oil	*		*			
Neem oil, clar. hyd.	*	*	*	*		
Oxamyl	P		*		*	P
Oxydemeton-methyl	*					
Permethrin	P		P	*	P	P
Petroleum distillate	P		*			P
Phosmet	*				*	
Potassium salts	P		*			*
Rotenone	*					
Spinosad	*					
Tebufenozide	*					
Zeta-cypermethrin	P	*	P		*	P

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Onions, Dry: Active Ingredients Applied and Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States					
	ALL	AZ	CA	GA	MI	NY
Fungicides						
Azoxystrobin	*					*
Benomyl	*					
Chlorothalonil	P	*	P	P	P	P
Copper ammonium	P				*	
Copper hydroxide	P		P	P	P	P
Copper oxide	*		*			
Copper oxychlo. sul.	*		*			*
Copper resinate	*			*		*
Copper sulfate	*				*	
Dicloran	P		P			
Fosetyl-al	*		*			
Iprodione	P		P	P	P	P
Mancozeb	P	*	*	P	P	P
Maneb	P	*	P	*	*	P
Mefenoxam	P		P			
Metalaxyl	P	*	P	*	P	P
Sulfur	P	*		*		
Vinclozolin	P		*			*
Other Chemicals						
Busan 881	P					
Chloropicrin	P		*	*		
Cytokinins	*					
Dichloropropene	P		*	*		
GABA	*					
Garlic oil	*					
L-Glutamic acid	*					
Maleic hydrazide	P		P		*	*
Metaldehyde	*					*
Metam-sodium	P		P	*		
Methyl bromide	*		*			

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

Onions, Dry: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States			
	OR	TX	WA	WI
Herbicides				
Atrazine	*			
Bensulide	*	P	*	
Bentazon	*			
Bromoxynil	P	*	P	*
Clethodim	P	*	P	*
Cyanazine			*	
DCPA	*	P	*	*
Dicamba				
Dimethenamid				*
Diuron	*			
Fluazifop-P-butyl	P	*	P	P
Glyphosate	P	*	P	*
Glyphosate, is. salt		*		
Metolachlor	P	*		*
Napropamide				*
Naptalam		*		
Oxyfluorfen	P	P	P	P
Paraquat	*	*	*	
Pendimethalin	P	P	P	P
Quizalofop-ethyl	*			
S-Metolachlor	*			
Sethoxydim	P	*	P	*
Sulfosate				
Trifluralin	*	P		*

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Onions, Dry: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States			
	OR	TX	WA	WI
Insecticides				
Acephate		*		
Azadirachtin	*		*	*
Azinphos-methyl			*	
Beauveria bassiana				*
Bt (Bacillus thur.)		*		
Carbaryl		P		
Chlorpyrifos	P	*	P	
Cypermethrin		P		*
Diazinon	P	P	*	*
Dimethoate			*	
Endosulfan		*		
Esfenvalerate		*		
Ethyl parathion	*			*
Fenamiphos				
Fonofos	*			
Imidacloprid		*		
Lambda-cyhalothrin	P	P	P	P
Malathion	P	*	P	*
Methomyl	P	P	*	
Methyl parathion	P		*	
Neem oil				
Neem oil, clar. hyd.				
Oxamyl	*	*		
Oxydemeton-methyl		*		
Permethrin	*	*	*	P
Petroleum distillate			*	
Phosmet				
Potassium salts		*		*
Rotenone				*
Spinosad		*		
Tebufenozide		*		
Zeta-cypermethrin	P			

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Onions, Dry: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States			
	OR	TX	WA	WI
Fungicides				
Azoxystrobin		*		
Benomyl		*		
Chlorothalonil	P	P	*	P
Copper ammonium	*		P	
Copper hydroxide	P	P	P	P
Copper oxide				
Copper oxychlo. sul.				
Copper resinate				
Copper sulfate				
Dicloran				
Fosetyl-al		*		
Iprodione	*	P	*	*
Mancozeb	P	P	P	P
Maneb		*		
Mefenoxam	*	*		
Metalaxyl	P	P	*	*
Sulfur	*		*	
Vinclozolin	*		*	
Other Chemicals				
Busan 881	P			
Chloropicrin	P	*		
Cytokinins		*		
Dichloropropene	P	*		
GABA	*		*	
Garlic oil			*	
L-Glutamic acid	*		*	
Maleic hydrazide	P		P	*
Metaldehyde	*			
Metam-sodium	P		*	
Methyl bromide				

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

Onions, Dry: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
AZ 2/	3,300	70	9.3			61	7.4		
CA	51,700	66	129.3	58	41.2	70	149.2	11	247.2
GA	15,000	98	9.2	77	13.7	100	233.2	*	0.4
MI 2/	4,100	99	19.5	95	4.7	97	39.2		
NY	13,400	97	50.8	99	25.4	99	223.9	46	7.6
OR	17,900	99	34.0	99	43.7	90	92.5	62	1,594.6
TX	20,000	79	73.5	83	43.3	77	124.9	7	1.0
WA	15,800	95	25.0	42	8.2	66	30.6	44	35.9
WI 2/	2,000	99	7.7	96	0.3	95	24.9		
Total	143,200	83	358.3	72	180.5	80	925.8	23	1,892.5

* Area applied is less than one percent.
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.

Onions, Dry: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	10	1.3	3.43	4.72	70.6
Bromoxynil	45	1.7	0.14	0.25	16.3
Clethodim	4	1.2	0.13	0.15	0.8
DCPA	8	1.4	5.79	8.42	96.2
Dimethenamid	2	1.4	0.96	1.40	3.3
Fluazifop-P-butyl	19	1.3	0.16	0.22	5.9
Glyphosate	10	1.0	0.52	0.54	8.2
Metolachlor	3	1.2	1.20	1.53	6.5
Oxyfluorfen	68	1.9	0.11	0.20	19.6
Paraquat	2	1.1	0.40	0.47	1.2
Pendimethalin	54	1.5	1.02	1.54	118.3
Sethoxydim	11	1.1	0.18	0.21	3.2
Trifluralin	3	1.1	0.85	0.97	3.6
Insecticides:					
Azadirachtin	*	1.6	0.01	0.02	**
Azinphos-methyl	2	1.1	0.50	0.58	1.7
Bt (Bacillus thur.)2/	3	3.2			
Carbaryl	*	2.7	0.68	1.89	**
Chlorpyrifos	26	1.0	1.25	1.30	47.3
Cypermethrin	18	1.8	0.08	0.14	3.7
Diazinon	19	1.5	1.36	2.08	55.7
Lambda-cyhalothrin	44	2.5	0.03	0.07	4.6
Malathion	2	1.3	1.59	2.18	4.9
Methomyl	19	1.8	0.61	1.14	31.5
Methyl parathion	6	2.4	0.50	1.20	9.5
Oxamyl	8	1.0	0.55	0.57	6.9
Permethrin	19	2.0	0.13	0.26	7.3
Petroleum distillate	1	2.9	0.49	1.47	2.2
Potassium salts	*	1.2	0.98	1.19	0.4
Zeta-cypermethrin	5	1.5	0.05	0.07	0.4
Fungicides:					
Chlorothalonil	46	3.4	1.24	4.31	282.0
Copper ammonium	2	2.6	0.18	0.48	1.6
Copper hydroxide	31	3.1	0.75	2.36	103.9
Dicloran	*	1.1	1.37	1.58	1.8
Iprodione	20	2.0	0.61	1.25	36.4
Mancozeb	57	3.6	1.37	4.97	405.1
Maneb	12	2.6	1.52	4.09	70.3
Mefenoxam	17	1.4	0.10	0.14	3.5
Metalaxyl	21	1.4	0.12	0.18	5.3
Sulfur	*	2.5	1.33	3.41	3.1
Vinclozolin	*	1.6	0.62	1.03	0.6

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Onions, Dry: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Other Chemicals:					
Busan 881	*	1.0	157.12	157.12	63.2
Chloropicrin	3	1.0	31.62	32.17	138.7
Dichloropropene	5	1.0	164.21	164.21	1,255.4
Maleic hydrazide	15	1.0	1.55	1.55	33.5
Metam-sodium	2	1.1	101.27	114.83	378.4

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 9 program states were 143,200 acres. States included are AZ, CA, GA, MI, NY, OR, TX, WA and WI.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Onions, Dry: Agricultural Chemical Applications,
Arizona, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	36	1.0	3.38	3.53	4.2
Pendimethalin	48	1.1	1.11	1.32	2.1

1/ Planted acres in 2000 for Arizona were 3,300 acres.

Onions, Dry: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	5	1.4	3.52	4.92	13.4
Bromoxynil	48	2.0	0.14	0.28	6.9
Clethodim	6	1.3	0.13	0.18	0.6
DCPA	17	1.5	6.29	9.64	82.8
Fluazifop-P-butyl	17	1.3	0.23	0.30	2.7
Oxyfluorfen	54	1.6	0.13	0.22	6.2
Pendimethalin	22	1.6	0.77	1.24	14.0
Sethoxydim	3	1.0	0.26	0.27	0.4
Insecticides:					
Cypermethrin	42	1.7	0.08	0.14	3.0
Diazinon	20	1.2	1.43	1.74	18.3
Lambda-cyhalothrin	41	1.4	0.03	0.04	0.9
Methomyl	12	1.8	0.64	1.14	7.3
Permethrin	16	1.2	0.20	0.25	2.1
Zeta-cypermethrin	4	1.7	0.05	0.08	0.2
Fungicides:					
Chlorothalonil	28	2.0	1.35	2.72	39.7
Copper hydroxide	14	2.2	0.79	1.79	12.6
Dicloran	2	1.1	1.37	1.58	1.8
Iprodione	22	1.1	0.56	0.65	7.2
Maneb	17	1.7	1.65	2.84	25.5
Mefenoxam	34	1.5	0.11	0.17	2.9
Metalaxyl	26	1.5	0.11	0.17	2.3
Other Chemicals:					
Maleic hydrazide	7	1.0	2.00	2.01	7.2
Metam-sodium	4	1.2	86.49	106.47	203.4

1/ Planted acres in 2000 for California were 51,700 acres.

Onions, Dry: Agricultural Chemical Applications, Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Oxyfluorfen	97	1.0	0.24	0.24	3.5
Pendimethalin	47	1.0	0.81	0.81	5.7
Insecticides:					
Chlorpyrifos	55	1.1	1.15	1.33	11.0
Fungicides:					
Chlorothalonil	99	6.3	1.29	8.24	122.5
Copper hydroxide	88	4.7	0.71	3.33	44.0
Iprodione	8	1.5	0.56	0.87	1.0
Mancozeb	86	4.5	1.04	4.71	60.8

1/ Planted acres in 2000 for Georgia were 15,000 acres.

Onions, Dry: Agricultural Chemical Applications, Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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 for Michigan were 4,100 acres.

Onions, Dry: Agricultural Chemical Applications,
New York, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bromoxynil	52	1.1	0.23	0.25	1.7
Fluazifop-P-butyl	39	1.2	0.13	0.15	0.8
Pendimethalin	89	2.4	1.41	3.38	40.3
Insecticides:					
Chlorpyrifos	37	1.0	2.29	2.29	11.4
Cypermethrin	12	2.3	0.11	0.25	0.4
Diazinon	14	4.9	0.34	1.70	3.1
Lambda-cyhalothrin	40	3.3	0.03	0.09	0.5
Oxamyl	12	1.0	0.59	0.59	1.0
Permethrin	74	3.6	0.11	0.40	3.9
Petroleum distillate	8	3.5	0.33	1.17	1.3
Zeta-cypermethrin	12	1.6	0.04	0.07	0.1
Fungicides:					
Chlorothalonil	92	4.9	1.01	5.00	61.9
Copper hydroxide	17	6.4	0.59	3.78	8.6
Iprodione	28	3.4	0.45	1.54	5.7
Mancozeb	89	6.5	1.56	10.18	121.5
Maneb	14	7.0	1.82	12.71	24.3
Metalaxyl	14	1.6	0.08	0.13	0.3

1/ Planted acres in 2000 for New York were 13,400 acres.

Onions, Dry: Agricultural Chemical Applications,
Oregon, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bromoxynil	97	1.8	0.12	0.22	3.8
Clethodim	5	1.0	0.11	0.11	0.1
Fluazifop-P-butyl	7	1.1	0.16	0.18	0.2
Glyphosate	52	1.0	0.47	0.50	4.7
Metolachlor	12	1.1	0.74	0.84	1.9
Oxyfluorfen	85	1.8	0.06	0.10	1.5
Pendimethalin	91	1.2	0.91	1.09	17.9
Sethoxydim	45	1.3	0.15	0.20	1.6
Insecticides:					
Chlorpyrifos	89	1.0	1.02	1.02	16.1
Diazinon	9	1.0	0.80	0.84	1.3
Lambda-cyhalothrin	94	3.2	0.03	0.09	1.6
Malathion	8	1.5	1.86	2.90	4.1
Methomyl	56	1.8	0.74	1.34	13.3
Methyl parathion	35	2.0	0.50	1.02	6.4
Zeta-cypermethrin	15	1.1	0.05	0.05	0.1
Fungicides:					
Chlorothalonil	42	1.5	1.60	2.44	18.2
Copper hydroxide	34	2.1	0.89	1.93	11.7
Mancozeb	89	2.7	1.38	3.81	60.8
Metalaxyl	14	1.2	0.16	0.20	0.5
Other Chemicals:					
Busan 881	2	1.0	157.12	157.12	63.2
Chloropicrin	23	1.0	30.79	30.79	128.5
Dichloropropene	42	1.0	165.04	165.04	1,251.2
Maleic hydrazide	19	1.0	1.52	1.54	5.2
Metam-sodium	6	1.0	127.03	127.03	146.5

1/ Planted acres in 2000 for Oregon were 17,900 acres.

Onions, Dry: Agricultural Chemical Applications,
Texas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	51	1.4	3.50	5.03	51.6
DCPA	9	1.0	2.54	2.54	4.5
Oxyfluorfen	61	1.5	0.18	0.27	3.3
Pendimethalin	48	1.0	0.71	0.72	6.8
Trifluralin	14	1.1	0.91	1.08	3.0
Insecticides:					
Carbaryl	*	2.8	0.43	1.20	**
Cypermethrin	4	1.1	0.08	0.09	0.1
Diazinon	48	1.2	2.34	2.90	28.1
Lambda-cyhalothrin	48	2.8	0.03	0.08	0.8
Methomyl	52	2.0	0.47	0.98	10.2
Fungicides:					
Chlorothalonil	53	1.6	1.34	2.23	23.5
Copper hydroxide	47	2.0	1.04	2.14	20.2
Iprodione	47	2.4	0.71	1.78	16.7
Mancozeb	63	3.6	1.07	3.86	48.9
Metalaxyl	14	2.2	0.14	0.32	0.9

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Texas were 20,000 acres.

Onions, Dry: Agricultural Chemical Applications, Washington, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bromoxynil	62	1.6	0.12	0.21	2.0
Clethodim	2	1.0	0.13	0.13	**
Fluazifop-P-butyl	26	1.8	0.11	0.20	0.8
Glyphosate	20	1.0	0.46	0.46	1.4
Oxyfluorfen	88	1.7	0.13	0.22	3.0
Pendimethalin	85	1.2	0.58	0.74	9.9
Sethoxydim	32	1.0	0.20	0.21	1.0
Insecticides:					
Chlorpyrifos	19	1.0	0.87	0.87	2.6
Lambda-cyhalothrin	26	2.3	0.03	0.07	0.3
Malathion	2	1.0	1.09	1.13	0.3
Fungicides:					
Copper ammonium	16	2.9	0.20	0.57	1.5
Copper hydroxide	16	1.4	0.85	1.19	3.0
Mancozeb	38	2.1	1.81	3.92	23.2
Other Chemicals:					
Maleic hydrazide	42	1.0	1.16	1.16	7.7

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Washington were 15,800 acres.

Onions, Dry: Agricultural Chemical Applications, Wisconsin, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Fluazifop-P-butyl	23	1.4	0.17	0.24	0.1
Oxyfluorfen	97	2.7	0.05	0.13	0.3
Pendimethalin	97	1.9	1.80	3.56	6.9
Insecticides:					
Lambda-cyhalothrin	94	1.7	0.03	0.04	0.1
Permethrin	32	1.0	0.10	0.10	0.1
Fungicides:					
Chlorothalonil	31	3.4	1.20	4.14	2.6
Copper hydroxide	85	3.1	0.22	0.68	1.2
Mancozeb	95	6.6	1.66	11.00	20.9

1/ Planted acres in 2000 for Wisconsin were 2,000 acres.

Peas, Green, Processing: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States MN	NY	OR	WA	WI
Herbicides						
2,4-D	*				*	
Alachlor	*	*				
Atrazine	*	*			*	
Bentazon	P	*	P	*	P	P
Clomazone	P	P	*		*	*
Clopyralid	*				*	
Cycloate	*				*	
Dicamba	*				*	
Glyphosate	P		*	*	P	*
Imazethapyr	P	P		P	P	P
MCPA	P			P	P	P
MCPB	P	P	P	*	*	P
Metolachlor	P	*			*	*
Metribuzin	P			P	P	
Napropamide	*	*				
Pendimethalin	P	P		*	*	P
Phenmedipham	*				*	
Quizalofop-ethyl	P	*	*	*	P	*
S-Metolachlor	P	*			*	P
Sethoxydim	P	P	*	P	*	P
Triallate	P			P	P	
Trifluralin	P	P	*	P	P	*
Insecticides						
Bifenthrin	P	P		P	*	*
Carbaryl	*		*		*	
Chlorpyrifos	*				*	
Diazinon	P			*	*	
Dimethoate	P	P		P	P	P
Endosulfan	*			*		
Esfenvalerate	P	P		P	P	P
Malathion	*			*	*	
Permethrin	*				*	
Petroleum distillate	*				*	
Phosmet	P			*	*	
Piperonyl butoxide	P			*		*
Pyrethrins	P			*		*

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Peas, Green, Processing: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States				
	ALL	MN	NY	OR	WA	WI
Fungicides						
Benomyl	*				*	
Captan	*				*	
Copper ammonium	*				*	
Copper hydroxide	P			*	*	
Copper sulfate	*			*		
Mancozeb	*				*	
Sulfur	*			*		
Vinclozolin	*			*		

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

Peas, Green, Processing: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
MN	95,100	96	81.4	63	2.6				
NY 2/	16,500	94	14.4						
OR	34,900	80	19.7	85	18.1	24	46.2		
WA	51,300	98	69.8	59	15.9	9	3.8		
WI 2/	51,800	94	49.1						
Total	249,600	94	234.4	53	38.5	5	50.0		

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

Peas, Green, Processing: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bentazon	20	1.4	0.68	0.98	48.5
Clomazone	5	1.0	0.47	0.47	5.8
Glyphosate	4	1.9	0.60	1.16	11.6
Imazethapyr	39	1.0	0.04	0.04	3.7
MCPA	10	1.0	0.25	0.26	6.8
MCPB	11	1.0	0.55	0.55	15.6
Metolachlor	4	1.0	1.18	1.26	12.7
Metribuzin	4	2.7	0.12	0.33	3.0
Pendimethalin	36	1.0	0.72	0.74	66.2
Quizalofop-ethyl	2	1.7	0.07	0.12	0.4
S-Metolachlor	4	1.0	1.02	1.09	10.4
Sethoxydim	3	1.0	0.22	0.22	1.5
Triallate	6	1.0	1.14	1.15	17.6
Trifluralin	23	1.0	0.45	0.49	27.6
Insecticides:					
Bifenthrin	23	1.0	0.04	0.04	2.3
Diazinon	1	1.0	0.49	0.50	1.9
Dimethoate	22	1.4	0.19	0.27	14.5
Esfenvalerate	14	1.6	0.03	0.05	1.9
Phosmet	*	1.2	0.73	0.91	1.9
Piperonyl butoxide	6	1.0	0.19	0.19	2.6
Pyrethrins	6	1.0	0.02	0.02	0.2
Fungicides:					
Copper hydroxide	*	1.2	0.92	1.13	1.4

* Area applied is less than one percent.
1/ Planted acres in 2000 for the 5 program states were 249,600 acres. States included are MN, NY, OR, WA and WI.

Peas, Green, Processing: Agricultural Chemical Applications, Minnesota, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Clomazone	12	1.0	0.49	0.49	5.6
Imazethapyr	35	1.0	0.04	0.04	1.3
MCPB	9	1.0	0.83	0.83	6.7
Pendimethalin	59	1.0	0.81	0.82	45.9
Sethoxydim	2	1.0	0.14	0.14	0.2
Trifluralin	24	1.0	0.54	0.54	12.3
Insecticides:					
Bifenthrin	56	1.0	0.04	0.04	2.1
Dimethoate	2	1.0	0.17	0.17	0.3
Esfenvalerate	5	1.0	0.03	0.03	0.2

1/ Planted acres in 2000 for Minnesota were 95,100 acres.

Peas, Green, Processing: Agricultural Chemical Applications, New York, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bentazon	91	1.0	0.55	0.55	8.2
MCPB	89	1.0	0.37	0.37	5.4

1/ Planted acres in 2000 for New York were 16,500 acres.

Peas, Green, Processing: Agricultural Chemical Applications, Oregon, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Imazethapyr	60	1.1	0.03	0.03	0.6
MCPA	12	1.0	0.26	0.26	1.1
Metribuzin	6	1.0	0.23	0.23	0.5
Sethoxydim	3	1.0	0.38	0.38	0.4
Triallate	9	1.0	0.88	0.92	2.8
Trifluralin	56	1.2	0.35	0.42	8.3
Insecticides:					
Bifenthrin	7	1.0	0.04	0.04	0.1
Dimethoate	67	1.1	0.18	0.21	4.9
Esfenvalerate	46	1.3	0.03	0.04	0.6

1/ Planted acres in 2000 for Oregon were 34,900 acres.

Peas, Green, Processing: Agricultural Chemical Applications, Washington, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bentazon	25	2.5	0.55	1.42	18.3
Glyphosate	15	2.2	0.60	1.34	10.3
Imazethapyr	37	1.0	0.04	0.04	0.7
MCPA	38	1.0	0.25	0.27	5.4
Metribuzin	13	3.2	0.11	0.37	2.5
Quizalofop-ethyl	4	2.6	0.08	0.21	0.4
Triallate	24	1.0	1.21	1.21	14.8
Trifluralin	18	1.0	0.51	0.55	5.0
Insecticides:					
Dimethoate	42	1.9	0.20	0.37	8.1
Esfenvalerate	20	2.4	0.04	0.09	0.9

1/ Planted acres in 2000 for Washington were 51,300 acres.

Peas, Green, Processing: Agricultural Chemical Applications, Wisconsin, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bentazon	29	1.1	0.99	1.08	16.0
Imazethapyr	46	1.0	0.05	0.05	1.1
MCPA	4	1.0	0.16	0.16	0.3
MCPB	10	1.0	0.62	0.64	3.2
Pendimethalin	49	1.0	0.60	0.64	16.3
S-Metolachlor	6	1.0	0.99	1.02	3.3
Sethoxydim	6	1.0	0.18	0.18	0.5
Insecticides:					
Dimethoate	14	1.0	0.16	0.17	1.2
Esfenvalerate	8	1.0	0.05	0.05	0.2

1/ Planted acres in 2000 for Wisconsin were 51,800 acres.

Peppers, Bell: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States					
		CA	FL	MI	NJ	NC	TX
Herbicides							
Bensulide	P	*		*			*
Clomazone	P		*	P	P	*	
DCPA	*						*
Diquat	*		*				
Ethalfluralin	*						*
Fluazifop-P-butyl	*			*			
Glyphosate	P	P	*	P		*	*
Linuron	*	*					
Metolachlor	P		*	P	*		
Metribuzin	*			*		*	
Napropamide	P	P	*	P	P	P	*
Oxyfluorfen	*	*					
Paraquat	P	P	P	*	*		
Pendimethalin	*						*
S-Metolachlor	*		*				*
Sethoxydim	*	*	*				
Trifluralin	P	P	*	P	P	*	P

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Peppers, Bell: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States					
		CA	FL	MI	NJ	NC	TX
Insecticides							
Abamectin	P	P	P		*		*
Acephate	P	P	*	P	P	*	
Azadirachtin	*		*	*			*
Azinphos-methyl	*				*		
Bt (Bacillus thur.)	P	P	P	*	*	*	*
Carbaryl	P	P	*	P	*	P	P
Chlorpyrifos	*	*	*				
Cryolite	P	P					
Cyfluthrin	P	P		*	P	*	*
Cyromazine	P	*					*
Diazinon	P	P	*	*		*	P
Dicofol	P	*	*				*
Dimethoate	P	P	*		P	P	*
Disulfoton	*	*					
Endosulfan	P	*	*	*	P	*	*
Esfenvalerate	P	P	P	P	P	P	P
Imidacloprid	P	P	P	*	P		*
Lambda-cyhalothrin	P			*	P	*	
Lindane	*					*	
Malathion	P	P		*	*		*
Methamidophos	*					*	
Methomyl	P	P	P	P	P	*	*
Methyl parathion	*			*			
Naled	*			*			
Neem oil, clar. hyd.	*	*	*				
Oxamyl	P	P	P	*	*	*	
Oxydemeton-methyl	*	*					
Permethrin	P	P	P	P	P	*	*
Petroleum distillate	*	*		*			
Phosmet	*			*			
Potassium salts	*		*				
Pyriproxyfen	*	*					
Rotenone	*				*		
Spinosad	P	P	P	*	P		*
Tebufenozide	P	P	*		*		*

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Peppers, Bell: Active Ingredients Applied and Publication Status
By Program States, 2000 (continued)

Active Ingredient	ALL	Program States				
		CA	FL	MI	NJ	NC	TX
Fungicides							
AQ-10 Biofungicide	*	*					
Azoxystrobin	*				*		*
Basic copper sulfate	*			*			
Benomyl	*				*		*
Captan	*				*	*	
Chlorothalonil	P		*	P	P	*	P
Copper (metallic)	*			*			
Copper ammonium	P		*	*	*	*	
Copper hydroxide	P	*	P	P	P	P	*
Copper oxide	*						*
Copper oxychlo. sul.	*				*		
Copper resinate	P			*	P	*	
Copper sulfate	P		*	*	P	*	
Mancozeb	P	*	P	P	P	*	
Maneb	P	*	P	P	P	*	
Mefenoxam	P	P	*		*		*
Metalaxyl	P	*	P	*	P	*	P
Myclobutanil	P	P					
Sulfur	P	P	*	*			*
Thiophanate-methyl	*	*					
Other Chemicals							
Ammonium soap	*				*		
Chloropicrin	P	P	P			*	*
Cytokinins	*				*		
Dichloropropene	P	*	*				*
Ethephon	P	P					
Garlic oil	*	*					
Hydrogen peroxide	*		*				
Indolebutyric Acid	*				*		
Metam-sodium	P	*			*		
Methyl bromide	P	*	P			*	
Potassium gibber.	*				*		

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

Peppers, Bell: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA	29,200	41	17.4	87	98.5	60	28.7	17	960.4
FL	18,600	73	25.2	100	48.3	99	255.6	91	3,396.1
MI	2,200	86	1.5	96	6.3	93	20.3		
NJ	3,800	67	2.6	90	9.8	84	31.9	11	19.8
NC	7,100	45	3.9	94	8.4	55	20.0	3	39.5
TX	1,400	55	3.8	97	3.1	73	5.6	*	0.4
Total	62,300	54	54.4	93	174.4	74	362.1	36	4,416.2

* Area applied is less than one percent.
1/ Total applied excludes Bt's (Bacillus thuringiensis). Quantities are not available because amounts of active ingredient are not comparable between products.

Peppers, Bell: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	3	1.1	4.03	4.63	7.9
Clomazone	5	1.0	0.43	0.43	1.4
Glyphosate	14	1.5	0.72	1.09	9.8
Metolachlor	9	1.0	1.17	1.17	6.8
Napropamide	15	1.0	1.18	1.27	11.7
Paraquat	10	1.4	0.45	0.65	3.9
Trifluralin	16	1.1	0.57	0.63	6.3
Insecticides:					
Abamectin	41	1.7	0.008	0.01	0.3
Acephate	26	1.7	0.66	1.16	18.8
Bt (Bacillus thur.)2/	42	4.7			
Carbaryl	4	3.8	1.55	5.91	13.7
Cryolite	5	1.3	8.72	12.05	40.8
Cyfluthrin	11	2.1	0.05	0.10	0.7
Cyromazine	2	1.9	0.13	0.25	0.3
Diazinon	13	1.6	1.18	1.95	15.4
Dicofol	5	1.9	0.55	1.07	3.1
Dimethoate	12	1.5	0.29	0.44	3.2
Endosulfan	11	1.2	0.51	0.62	4.2
Esfenvalerate	23	2.1	0.03	0.07	1.0
Imidacloprid	34	1.2	0.17	0.21	4.3
Lambda-cyhalothrin	*	2.1	0.02	0.05	**
Malathion	4	1.0	1.04	1.05	2.4
Methomyl	28	4.3	0.45	1.98	35.0
Oxamyl	10	2.2	0.81	1.81	10.8
Permethrin	16	2.1	0.11	0.23	2.4
Spinosad	45	3.8	0.07	0.25	7.1
Tebufenozide	16	2.8	0.13	0.37	3.6
Fungicides:					
Chlorothalonil	3	3.1	1.37	4.31	7.3
Copper ammonium	6	8.1	0.19	1.58	6.1
Copper hydroxide	40	6.3	0.78	4.89	121.9
Copper resinate	*	6.2	0.10	0.62	0.3
Copper sulfate	*	6.3	0.46	2.92	0.5
Mancozeb	4	7.6	1.18	9.03	23.9
Maneb	29	8.5	1.01	8.59	154.3
Mefenoxam	16	1.4	0.19	0.27	2.7
Metalaxyl	18	2.1	0.22	0.48	5.4
Myclobutanil	15	1.5	0.10	0.15	1.4
Sulfur	11	2.6	1.94	5.03	34.0

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Peppers, Bell: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Other Chemicals:					
Chloropicrin	30	1.0	64.95	65.89	1,229.8
Dichloropropene	*	1.2	77.32	95.25	18.9
Ethephon	*	1.4	0.85	1.20	0.2
Metam-sodium	4	1.0	159.56	173.65	386.1
Methyl bromide	32	1.0	137.17	139.29	2,778.6

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 6 program states were 62,300 acres. States included are CA, FL, MI, NJ, NC and TX.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Peppers, Bell: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Glyphosate	8	1.1	1.00	1.18	2.6
Napropamide	6	1.2	1.62	1.95	3.5
Paraquat	10	1.5	0.35	0.55	1.6
Trifluralin	25	1.1	0.54	0.63	4.6
Insecticides:					
Abamectin	36	1.0	0.01	0.01	0.1
Acephate	8	1.2	0.74	0.90	2.2
Bt (Bacillus thur.)2/	29	3.3			
Carbaryl	6	4.4	1.59	7.14	13.0
Cryolite	12	1.3	8.72	12.05	40.8
Cyfluthrin	13	1.5	0.04	0.06	0.2
Diazinon	13	1.3	1.43	1.87	7.0
Dimethoate	11	1.1	0.27	0.31	1.0
Esfenvalerate	12	1.6	0.04	0.07	0.2
Imidacloprid	32	1.3	0.20	0.27	2.5
Malathion	8	1.0	1.04	1.04	2.4
Methomyl	31	3.8	0.43	1.65	14.9
Oxamyl	9	1.1	0.70	0.79	2.1
Permethrin	7	1.3	0.18	0.24	0.5
Spinosad	50	3.7	0.07	0.26	3.7
Tebufenozide	30	2.6	0.13	0.33	2.9
Fungicides:					
Mefenoxam	26	1.3	0.22	0.29	2.2
Myclobutanil	32	1.5	0.10	0.15	1.4
Sulfur	19	1.5	2.53	3.87	21.8
Other Chemicals:					
Chloropicrin	5	1.1	54.23	63.51	99.8
Ethephon	*	1.4	0.85	1.20	0.2

* Area applied is less than one percent.
1/ Planted acres in 2000 for California were 29,200 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Peppers, Bell: Agricultural Chemical Applications, Florida, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Paraquat	12	1.1	0.66	0.76	1.7
Insecticides:					
Abamectin	74	2.1	0.007	0.01	0.2
Bt (Bacillus thur.)2/	95	5.4			
Esfenvalerate	31	1.2	0.03	0.04	0.2
Imidacloprid	62	1.1	0.15	0.16	1.8
Methomyl	35	5.3	0.47	2.52	16.5
Oxamyl	17	3.2	0.86	2.75	8.7
Permethrin	31	2.1	0.09	0.20	1.2
Spinosad	66	4.1	0.06	0.26	3.2
Fungicides:					
Copper hydroxide	89	7.6	0.76	5.81	95.8
Mancozeb	10	9.2	1.08	9.99	18.0
Maneb	62	10.1	1.02	10.37	120.4
Metalaxyl	55	1.9	0.22	0.43	4.4
Other Chemicals:					
Chloropicrin	91	1.0	66.19	66.19	1,116.9
Methyl bromide	91	1.0	134.69	134.69	2,272.8

1/ Planted acres in 2000 for Florida were 18,600 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Peppers, Bell: Agricultural Chemical Applications, Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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	**
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
Methomyl	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

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Michigan were 2,200 acres.

Peppers, Bell: Agricultural Chemical Applications, New Jersey, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Clomazone	35	1.0	0.33	0.33	0.4
Napropamide	21	1.1	1.12	1.30	1.0
Trifluralin	3	1.0	0.70	0.70	0.1
Insecticides:					
Acephate	79	2.7	0.72	2.01	6.0
Cyfluthrin	7	2.6	0.04	0.11	**
Dimethoate	26	3.3	0.18	0.61	0.6
Endosulfan	2	3.0	0.52	1.58	0.1
Esfenvalerate	6	3.5	0.04	0.13	**
Imidacloprid	2	1.1	0.08	0.09	**
Lambda-cyhalothrin	2	1.4	0.02	0.04	**
Methomyl	46	3.4	0.48	1.67	2.9
Permethrin	7	1.6	0.14	0.23	0.1
Spinosad	22	2.2	0.07	0.16	0.1
Fungicides:					
Chlorothalonil	25	4.0	1.57	6.41	6.0
Copper hydroxide	60	5.3	0.80	4.32	9.8
Copper resinate	9	7.3	0.09	0.64	0.2
Copper sulfate	1	3.3	0.49	1.67	0.1
Mancozeb	*	5.4	0.77	4.17	0.1
Maneb	71	5.5	0.97	5.40	14.6
Metalaxyl	18	6.0	0.21	1.31	0.9

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for New Jersey were 3,800 acres.

Peppers, Bell: Agricultural Chemical Applications,
North Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Napropamide	14	1.0	1.18	1.18	1.2
Insecticides:					
Carbaryl	5	1.0	0.99	1.01	0.3
Dimethoate	44	1.0	0.43	0.44	1.3
Esfenvalerate	34	2.8	0.02	0.06	0.2
Fungicides:					
Copper hydroxide	23	2.6	0.82	2.14	3.5

1/ Planted acres in 2000 for North Carolina were 7,100 acres.

Peppers, Bell: Agricultural Chemical Applications,
Texas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	2	1.0	0.90	0.90	**
Insecticides:					
Carbaryl	3	2.9	1.69	4.99	0.2
Diazinon	14	1.2	2.38	2.85	0.6
Esfenvalerate	77	4.3	0.03	0.15	0.2
Fungicides:					
Chlorothalonil	40	1.4	0.44	0.65	0.4
Metalaxyl	3	2.7	0.10	0.26	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Texas were 1,400 acres.

Pumpkins: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States					
		CA	IL	MI	NY	OH	PA
Herbicides							
2,4-D	*			*	*	*	*
Alachlor	*		*		*	*	
Atrazine	*		*				
Bensulide	P	*	*	P	*	P	*
Chloramben	P		*	*			*
Chlorimuron-ethyl	*		*				
Clomazone	P		P	P	P	P	P
Clopyralid	*					*	
DCPA	*		*				
Ethalfluralin	P		*	P	P	*	P
Fluometuron	*					*	
Glyphosate	P	*	P	*	P	P	P
Imazamox	*		*				
Linuron	*			*			
Metolachlor	P		*	*	*	P	P
Metribuzin	*		*				
Napropamide	*						*
Naptalam	P				*	*	*
Paraquat	P		*	*			P
Pendimethalin	*		*			*	*
Propachlor	*				*		*
Quizalofop-ethyl	*						*
S-Metolachlor	*		*				*
Sethoxydim	P		P	P	*	*	*
Sulfentrazone	*		*				
Sulfosate	*					*	
Trifluralin	P		*	P	*		

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Pumpkins: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States					
		CA	IL	MI	NY	OH	PA
Insecticides							
Abamectin	*	*					
Acephate	*				*		*
Azinphos-methyl	P		*	*	P	*	P
Bifenthrin	P	*	*	*		*	P
Bt (Bacillus thur.)	*	*	*	*			
Carbaryl	P	*	P	P	P	P	*
Carbofuran	P		P	*		P	*
Chlorpyrifos	*		*			*	*
Cyfluthrin	*		*				*
Diazinon	P		*	*	*	*	*
Dimethoate	*			*	*		
Endosulfan	P		*	*	P	P	P
Esfenvalerate	P	*	*	P	P	P	P
Imidacloprid	P			*	*		P
Lambda-cyhalothrin	P		*		*	*	P
Malathion	P	*	*		*	*	*
Methamidophos	*			*			
Methomyl	P	*		*	*	*	P
Methoxychlor	P			*	*		*
Methyl parathion	*			*			
Oxydemeton-methyl	P	*		*			*
Permethrin	P	*	P	P	P	*	P
Petroleum distillate	*						*
Phosmet	*			*		*	
Pyrethrins	*			*	*		*
Rotenone	P			*	*		*
Terbufos	*		*	*			

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Pumpkins: Active Ingredients Applied and Publication Status
By Program States, 2000 (continued)

Active Ingredient	ALL	Program States					
		CA	IL	MI	NY	OH	PA
Fungicides							
Azoxystrobin	P	*	P	*	P	P	P
Basic copper sulfate	*				*		
Benomyl	P		P	P	P	P	P
Captan	P			*	*		P
Chlorothalonil	P	*	P	P	P	*	P
Copper (metallic)	*					*	
Copper ammonium	*			*		*	*
Copper hydroxide	P		P	P	P	P	P
Copper oxychlo. sul.	P				*	*	P
Copper resinate	P		*	*	*	*	*
Copper sulfate	P		*	*	*		
Fosetyl-al	P		*	*			
Mancozeb	P		*	*	P	P	P
Maneb	P			*	P	P	*
Mefenoxam	P			*	*		*
Metalaxyl	P		*	P	*	P	P
Myclobutanil	P		*	P	*	P	P
Potassium bicarbon.	P						P
Propiconazole	*			*			
Sulfur	P	*	*	*	*	*	*
Thiophanate-methyl	P		*	*		P	*
Triadimefon	P		P	*	*	*	P
Trifloxystrobin	P			*	*	*	*
Other Chemicals							
Chloropicrin	*	*					
Hydrogen peroxide	*				*		
Methyl bromide	*	*					

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

Pumpkins: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA 2/	5,900	1	0.3	55	3.9	47	173.6		
IL	9,400	85	7.2	66	5.7	57	15.3		
MI	5,500	66	4.1	59	3.2	60	15.4		
NY 2/	6,700	46	3.3	60	5.4	68	27.6		
OH	4,200	37	2.5	47	2.4	35	7.9		
PA	7,000	81	6.8	62	5.6	76	35.8		
Total	38,700	57	24.2	60	26.2	59	275.6	2	6.6

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.

Pumpkins: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	1	1.0	3.53	3.53	1.7
Chloramben	1	1.0	1.16	1.16	0.6
Clomazone	43	1.0	0.63	0.64	10.6
Ethalfluralin	15	1.0	0.87	0.90	5.3
Glyphosate	6	1.1	0.84	0.96	2.4
Metolachlor	3	1.1	1.55	1.74	2.3
Naptalam	*	1.2	1.73	2.17	0.4
Paraquat	*	1.3	0.56	0.73	0.1
Sethoxydim	2	1.0	0.20	0.20	0.1
Trifluralin	*	1.0	0.68	0.68	0.1
Insecticides:					
Azinphos-methyl	*	1.7	0.51	0.87	0.3
Bifenthrin	5	1.1	0.05	0.06	0.1
Carbaryl	16	2.2	0.78	1.77	11.1
Carbofuran	5	1.0	0.71	0.71	1.3
Diazinon	*	1.5	0.45	0.69	0.1
Endosulfan	10	2.1	0.62	1.35	5.2
Esfenvalerate	11	2.1	0.03	0.07	0.2
Imidacloprid	1	1.0	0.09	0.09	**
Lambda-cyhalothrin	2	2.1	0.03	0.06	**
Malathion	3	1.3	1.48	1.93	2.0
Methomyl	9	1.6	0.50	0.82	2.9
Methoxychlor	*	1.1	0.67	0.77	0.3
Oxydemeton-methyl	2	1.2	0.47	0.59	0.4
Permethrin	17	1.6	0.13	0.22	1.4
Rotenone	*	2.2	0.02	0.04	**
Fungicides:					
Azoxystrobin	17	1.9	0.16	0.31	2.1
Benomyl	8	2.2	0.23	0.51	1.5
Captan	*	2.4	1.18	2.94	0.7
Chlorothalonil	43	2.8	1.48	4.17	70.1
Copper hydroxide	12	3.6	0.68	2.44	11.6
Copper oxychlo. sul.	*	2.0	1.36	2.80	1.0
Copper resinate	1	2.2	0.15	0.35	0.1
Copper sulfate	*	2.3	0.56	1.30	0.3
Fosetyl-al	2	1.0	3.90	3.90	2.6
Mancozeb	5	1.8	1.64	3.01	5.3
Maneb	4	3.4	1.01	3.53	5.7
Mefenoxam	*	1.5	0.22	0.35	0.1
Metalaxyl	5	2.3	0.14	0.33	0.6
Myclobutanil	11	1.8	0.07	0.12	0.5
Potassium bicarbon.	*	1.6	3.05	5.04	1.0
Sulfur	8	2.1	26.94	56.67	171.9
Thiophanate-methyl	1	1.4	0.39	0.58	0.3
Triadimefon	3	1.8	0.09	0.16	0.1
Trifloxystrobin	1	1.3	0.07	0.09	**

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 5 program states were 38,700 acres. States included are CA, IL, MI, NY, OH and PA.

Pumpkins: Agricultural Chemical Applications, Illinois, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Clomazone	76	1.0	0.78	0.80	5.7
Glyphosate	2	1.1	0.73	0.87	0.2
Sethoxydim	*	1.0	0.20	0.20	**
Insecticides:					
Carbaryl	14	3.7	0.85	3.20	4.2
Carbofuran	9	1.0	0.54	0.54	0.4
Permethrin	26	1.7	0.11	0.19	0.5
Fungicides:					
Azoxystrobin	24	1.5	0.13	0.20	0.5
Benomyl	6	1.3	0.22	0.30	0.2
Chlorothalonil	33	2.1	1.41	3.08	9.5
Copper hydroxide	7	3.9	0.71	2.80	1.9
Triadimefon	5	1.7	0.09	0.16	0.1

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Illinois were 9,400 acres.

Pumpkins: Agricultural Chemical Applications, Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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 for Michigan were 5,500 acres.

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

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Clomazone	24	1.0	0.82	0.82	1.3
Ethalfluralin	16	1.0	1.09	1.18	1.3
Glyphosate	5	1.0	0.72	0.73	0.2
Insecticides:					
Azinphos-methyl	1	1.8	0.50	0.89	0.1
Carbaryl	17	2.0	0.90	1.83	2.1
Endosulfan	16	2.1	0.68	1.48	1.6
Esfenvalerate	11	1.9	0.04	0.08	0.1
Permethrin	12	1.9	0.12	0.23	0.2
Fungicides:					
Azoxystrobin	20	2.0	0.20	0.39	0.5
Benomyl	3	2.9	0.24	0.71	0.1
Chlorothalonil	54	3.2	1.34	4.34	15.8
Copper hydroxide	21	4.8	0.67	3.29	4.6
Mancozeb	5	1.7	1.23	2.09	0.6
Maneb	17	4.1	1.01	4.21	4.7

1/ Planted acres in 2000 for New York were 6,700 acres.

Pumpkins: Agricultural Chemical Applications, Ohio, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	4	1.0	4.34	4.34	0.7
Clomazone	24	1.0	0.65	0.65	0.6
Glyphosate	15	1.0	0.75	0.75	0.5
Metolachlor	4	1.0	1.75	1.75	0.3
Insecticides:					
Carbaryl	17	2.2	0.94	2.10	1.5
Carbofuran	10	1.0	0.76	0.76	0.3
Endosulfan	13	1.2	0.67	0.80	0.4
Esfenvalerate	18	2.3	0.02	0.04	**
Fungicides:					
Azoxystrobin	10	1.5	0.11	0.18	0.1
Benomyl	4	2.4	0.21	0.52	0.1
Copper hydroxide	13	3.3	0.62	2.08	1.1
Mancozeb	6	1.4	1.41	1.98	0.5
Maneb	4	2.7	1.09	3.03	0.5
Metalaxyl	7	1.4	0.11	0.16	**
Myclobutanil	16	1.7	0.07	0.12	0.1
Thiophanate-methyl	3	1.1	0.54	0.65	0.1

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Ohio were 4,200 acres.

Pumpkins: Agricultural Chemical Applications, Pennsylvania, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Clomazone	63	1.0	0.45	0.45	2.0
Ethalfluralin	29	1.0	0.70	0.71	1.4
Glyphosate	19	1.2	0.87	1.04	1.4
Metolachlor	12	1.0	1.60	1.67	1.5
Paraquat	1	1.4	0.56	0.82	0.1
Insecticides:					
Azinphos-methyl	3	1.6	0.53	0.89	0.2
Bifenthrin	2	1.4	0.07	0.10	**
Endosulfan	24	2.5	0.57	1.46	2.5
Esfenvalerate	7	2.3	0.04	0.08	**
Imidacloprid	4	1.0	0.14	0.14	**
Lambda-cyhalothrin	5	1.2	0.03	0.03	**
Methomyl	7	2.4	0.28	0.67	0.3
Permethrin	18	1.9	0.14	0.27	0.3
Fungicides:					
Azoxystrobin	32	2.4	0.16	0.39	0.9
Benomyl	21	2.6	0.22	0.57	0.8
Captan	2	1.6	1.51	2.47	0.3
Chlorothalonil	66	3.4	1.68	5.75	26.4
Copper hydroxide	13	3.3	0.63	2.11	1.9
Copper oxychlo. sul.	2	2.1	1.01	2.13	0.3
Mancozeb	14	1.7	1.77	3.16	3.0
Metalaxyl	16	2.7	0.15	0.41	0.5
Myclobutanil	20	2.3	0.07	0.16	0.2
Potassium bicarbon.	3	1.6	3.05	5.04	1.0
Triadimefon	4	1.8	0.10	0.19	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Pennsylvania were 7,000 acres.

Radishes: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States				
	ALL	CA	FL	MI	OH
Herbicides					
Alachlor	*			*	
DCPA	*	*			
Fluazifop-P-butyl	*		*		
Glyphosate	*			*	*
Trifluralin	*	*		*	
Insecticides					
Bt (Bacillus thur.)	*	*	*		
Carbaryl	*		*	*	
Chlorpyrifos	P	*	*	*	*
Cyfluthrin	*	*	*		
Cypermethrin	*	*			
Diazinon	P	*	*	*	
Dimethoate	*				*
Esfenvalerate	P	*	*	*	
Imidacloprid	*			*	
Malathion	*	*			
Methomyl	*	*			
Neem oil	*	*			
Permethrin	*			*	
Potassium salts	*	*	*		
Spinosad	*		*		
Fungicides					
Chlorothalonil	*	*			
Copper hydroxide	*	*	*		
Mefenoxam	P	*	*		*
Metalaxyl	*		*		
Sulfur	*		*		

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

Radishes: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA	1,500	6	0.3	43	1.1	27	0.4		
FL 2/	8,600			89	10.5				
MI 2/	2,700			35	0.7				
OH 2/	1,800			20	0.4				
Total	14,600	2	0.4	66	12.7	17	2.7		

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.

Radishes: Agricultural Chemical Applications,
Program States, 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
Insecticides:					
Chlorpyrifos	6	1.7	0.60	1.05	1.1
Diazinon	17	1.2	1.42	1.76	4.3
Esfenvalerate	22	1.5	0.03	0.05	0.1
Fungicides:					
Mefenoxam	14	2.2	0.43	0.97	2.0

1/ Planted acres in 2000 for the 4 program states were 14,600 acres. States included are CA, FL, MI and OH.

Spinach, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States			
	ALL	CA	NJ	TX
Herbicides				
Bensulide	*			*
Cycloate	P	*	P	*
Diethatyl-ethyl	*	*		
Metolachlor	P		P	P
Metribuzin	*		*	
Paraquat	*		*	
Phenmedipham	*		*	
Pyrazon	*			*
Sethoxydim	*		*	
Sulfosate	*			*
Trifluralin	*			*
Insecticides				
Abamectin	P	P		
Azadirachtin	P	P		
Bifenthrin	*			*
Bt (Bacillus thur.)	P	P	*	P
Carbaryl	*		*	
Cypermethrin	*			*
Cyromazine	P	P		
Diazinon	P	P	*	*
Dimethoate	*	*	*	
Endosulfan	*			*
Esfenvalerate	*			*
Imidacloprid	P	P	*	*
Lambda-cyhalothrin	*		*	
Malathion	*	*		*
Methomyl	P	*	P	*
Neem oil	*	*		
Permethrin	P	P	P	P
Potassium salts	*	*		
Pyrethrins	*	*		
Rotenone	*	*		
Spinosad	P	P	*	*
Tebufenozide	*	*	*	*

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Spinach, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States			
	ALL	CA	NJ	TX
Fungicides				
Azoxystrobin	*		*	
Basic copper sulfate	*			*
Benomyl	*		*	
Chlorothalonil	*		*	*
Copper ammonium	*		*	
Copper hydroxide	P	*	P	*
Copper sulfate	*		*	*
Fosetyl-al	P	*	*	
Maneb	P	P		
Mefenoxam	P	*		*
Metalaxyl	P	*	P	*
Sulfur	*		*	*

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

Spinach, Fresh: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA	17,000	71	31.0	88	23.4	83	61.2		
NJ	1,900	94	1.6	45	0.3	34	0.2		
TX	3,000	91	3.1	93	2.4	80	4.6		
Total	21,900	75	35.7	85	26.1	78	66.0		

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

Spinach, Fresh: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Cycloate	56	1.1	2.18	2.59	31.6
Metolachlor	18	1.0	0.85	0.85	3.4
Insecticides:					
Abamectin	18	1.0	0.008	0.009	**
Azadirachtin	8	1.3	0.005	0.006	**
Bt (Bacillus thur.)2/	25	1.5			
Cyromazine	16	1.0	0.13	0.13	0.5
Diazinon	54	1.0	1.34	1.42	16.9
Imidacloprid	31	1.2	0.14	0.18	1.2
Methomyl	6	1.2	0.51	0.64	0.8
Permethrin	73	1.7	0.15	0.26	4.2
Spinosad	47	1.4	0.06	0.09	0.9
Fungicides:					
Copper hydroxide	12	1.2	0.36	0.46	1.3
Fosetyl-al	45	1.3	2.53	3.37	33.5
Maneb	46	1.2	1.45	1.83	18.5
Mefenoxam	56	1.2	0.57	0.70	8.6
Metalaxyl	12	1.0	0.25	0.25	0.7

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 3 program states were 21,900 acres. States included are CA, NJ and TX.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Spinach, Fresh: Agricultural Chemical Applications,
California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Abamectin	23	1.0	0.008	0.009	**
Azadirachtin	10	1.3	0.005	0.006	**
Bt (Bacillus thur.)2/	17	1.0			
Cyromazine	21	1.0	0.13	0.13	0.5
Diazinon	57	1.0	1.40	1.51	14.7
Imidacloprid	39	1.2	0.15	0.19	1.2
Permethrin	78	1.7	0.16	0.29	3.8
Spinosad	60	1.4	0.06	0.09	0.9
Fungicides:					
Maneb	59	1.2	1.45	1.83	18.5

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for California were 17,000 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Spinach, Fresh: Agricultural Chemical Applications, New Jersey, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Cycloate	13	1.0	2.54	2.54	0.7
Metolachlor	77	1.0	0.59	0.59	0.9
Insecticides:					
Methomyl	10	1.6	0.43	0.70	0.1
Permethrin	25	2.1	0.16	0.35	0.2
Fungicides:					
Copper hydroxide	6	1.4	0.44	0.63	0.1
Metalaxyl	24	1.0	0.16	0.16	0.1

1/ Planted acres in 2000 for New Jersey were 1,900 acres.

Spinach, Fresh: Agricultural Chemical Applications, Texas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Metolachlor	84	1.0	0.99	0.99	2.5
Insecticides:					
Bt (Bacillus thur.)2/	82	2.1			
Permethrin	77	1.3	0.08	0.11	0.2

1/ Planted acres in 2000 for Texas were 3,000 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Spinach, Processing: Active Ingredient Publication Status, 2000

Active Ingredient	TX
Herbicides	
Fluazifop-P-butyl	*
Linuron	*
Metolachlor	*
S-Metolachlor	*
Sethoxydim	*
Insecticides	
Bt (Bacillus thur.)	*
Cypermethrin	*
Diazinon	*
Methomyl	*
Permethrin	P
Spinosad	*
Tebufenozide	*
Thiodicarb	*
Fungicides	
Basic copper sulfate	*
Copper hydroxide	*
Metalaxyl	*
Sulfur	*

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

Spinach, Processing: Pesticide, Total Acreage, Percent of Area Receiving Applications and Total Applied, Texas, 2000

State	Planted Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
TX	5,500	38	1.4	86	8.6	44	4.1		

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

Spinach, Processing: 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
Insecticides:					
Permethrin	39	1.3	0.17	0.23	0.5

1/ Planted acres in 2000 for Texas were 5,500 acres.

Squash: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States					
		CA	FL	GA	MI	NJ	NY
Herbicides							
2,4-D	*				*		
Alachlor	*						*
Bensulide	P	*	*	*	P	P	*
Chloramben	*				*		
Clomazone	P				P	P	P
DCPA	*						
Ethalfluralin	P		*	P	P	*	P
Fluometuron	*						
Glyphosate	P		*	*	P		P
Glyphosate, is. salt	*	*					
Linuron	*						*
Metolachlor	P		*	*	*	*	
Metribuzin	*					*	
Napropamide	*		*				
Naptalam	P					*	P
Oryzalin	*			*			
Paraquat	P	*	P	*		*	
Pendimethalin	P			*			
Sethoxydim	P	*	*	*			*
Sulfosate	*						
Terbacil	*					*	
Trifluralin	P			P	*		P

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Squash: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States					
		CA	FL	GA	MI	NJ	NY
Insecticides							
Abamectin	*	*					
Acephate	P		*	P		*	
Azadirachtin	*		*				
Azinphos-methyl	P				*	*	P
Bifenthrin	P	P		*	*		
Bt (Bacillus thur.)	P	*	P	*	*	*	
Carbaryl	P	*	*	P	P	P	P
Carbofuran	P				P	*	
Chlorpyrifos	*			*		*	*
Cryolite	*	*					
Cyromazine	*		*				
Diazinon	P	*	*	*	P	*	*
Dicofol	*	*				*	
Dimethoate	P			*		*	*
Endosulfan	P	*	P	P	P	P	P
Esfenvalerate	P	P	*	P	P	P	P
Ethoprop	*			*			
Fenamiphos	*			*			
Imidacloprid	P	*	*	*	*	P	*
Lambda-cyhalothrin	*						*
Lindane	*						
Malathion	P	P	*	*			*
Methamidophos	*				*		
Methidathion	*		*				
Methomyl	P	*	P	*	*	P	P
Methoxychlor	*						*
Methyl parathion	*				*		
Naled	*	*	*				
Neem oil	*	*					
Neem oil, clar. hyd.	*	*	*				
Oxamyl	P	*	*	*		*	
Oxydemeton-methyl	P	*	*			*	
Permethrin	P	*	*	P	P	P	P
Petroleum distillate	P		*	*	*		
Phosmet	*				*		
Piperonyl butoxide	*						
Potassium salts	P			P	*		
Pyrethrins	*				*		*
Rotenone	P				*	*	*
Soybean oil	*						
Spinosad	*		*				
Tebufenozide	*						
Thiodicarb	*						

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Squash: Active Ingredients Applied and Publication Status
By Program States, 2000 (continued)

Active Ingredient	ALL	Program States					
		CA	FL	GA	MI	NJ	NY
Fungicides							
Azoxystrobin	P		*	P	*	P	P
Basic copper sulfate	*		*			*	
Benomyl	P	*	*	*	*	P	P
Captan	P		*				*
Chlorothalonil	P	*	P	P	P	P	P
Copper (metallic)	*				*		
Copper ammonium	P		*		*	*	
Copper chloride hyd.	*						
Copper hydroxide	P		P	*	P	P	P
Copper oxychlo. sul.	*					*	
Copper resinate	P					*	
Copper sulfate	P		*		*	*	*
Dimethomorph	*				*		
Fosetyl-al	*	*	*		*		
Iprodione	*				*		
Mancozeb	P		P		P	P	P
Maneb	P	*	P	P	*	P	*
Mefenoxam	P		*	*	*	*	*
Metalaxyl	P	*	P	P	P	P	*
Myclobutanil	P				P	*	*
PCNB	*			*			
Sulfur	P	P	P	*	*	*	*
Thiophanate-methyl	P		*	*	*		
Triadimefon	P	*			P	*	*
Trichoderma harz.	*						*
Trifloxystrobin	*	*					
Other Chemicals							
Ammonium soap	*					*	
Chloropicrin	P		*	*			
Cytokinins	*						*
Dichloropropene	*			*			
Metam-sodium	P		*	*			
Methyl bromide	P		P	*			

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

Squash: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States					
	NC	OH	OR	SC	TN	TX
Herbicides						
2,4-D						*
Alachlor		*				
Bensulide	*	P		*		P
Chloramben						
Clomazone		P	*			
DCPA						*
Ethalfluralin	P	*	P	P		*
Fluometuron		*				
Glyphosate		*	*			*
Glyphosate, is. salt						*
Linuron						
Metolachlor		*				
Metribuzin						
Napropamide						
Naptalam		*				
Oryzalin						
Paraquat	*		*			
Pendimethalin				*	*	*
Sethoxydim	*	*		*	*	*
Sulfosate		*				*
Terbacil						
Trifluralin		*		*	*	P

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Squash: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States					
	NC	OH	OR	SC	TN	TX
Insecticides						
Abamectin						
Acephate	*				*	
Azadirachtin						*
Azinphos-methyl						
Bifenthrin	*					
Bt (Bacillus thur.)	P		*	*	*	*
Carbaryl	P	P	P	P	P	P
Carbofuran		*				
Chlorpyrifos						
Cryolite						
Cyromazine						
Diazinon	*		*		*	*
Dicofol						*
Dimethoate	*					*
Endosulfan	*	P		P	P	P
Esfenvalerate	P	P	*	P	P	P
Ethoprop						
Fenamiphos						
Imidacloprid	*					*
Lambda-cyhalothrin	*	*				
Lindane				*		
Malathion	*	*		*	*	*
Methamidophos					*	
Methidathion						
Methomyl	P	*		*	*	P
Methoxychlor						
Methyl parathion						*
Naled						
Neem oil						
Neem oil, clar. hyd.						
Oxamyl						
Oxydemeton-methyl						*
Permethrin	*	P	*	*	P	P
Petroleum distillate						
Phosmet						
Piperonyl butoxide						*
Potassium salts	*			*		
Pyrethrins						*
Rotenone						
Soybean oil	*					
Spinosad						
Tebufenozide						*
Thiodicarb	*					

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Squash: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States					
	NC	OH	OR	SC	TN	TX
Fungicides						
Azoxystrobin	*	P		*	*	*
Basic copper sulfate					*	
Benomyl	*	P	*	P	*	*
Captan					*	*
Chlorothalonil	P	P	*	P	P	P
Copper (metallic)						
Copper ammonium		*				
Copper chloride hyd.		*				
Copper hydroxide	*	P	*			*
Copper oxychlo. sul.		*				
Copper resinate		*				
Copper sulfate		*			*	
Dimethomorph						
Fosetyl-al						
Iprodione						
Mancozeb	*	P		*	P	*
Maneb	*	P				
Mefenoxam						
Metalaxyl	*	*	*			*
Myclobutanil		P				
PCNB						
Sulfur		*		*	*	
Thiophanate-methyl	*	*				
Triadimefon		*				*
Trichoderma harz.						
Trifloxystrobin		*				*
Other Chemicals						
Ammonium soap						
Chloropicrin	*					*
Cytokinins						
Dichloropropene						*
Metam-sodium			*			
Methyl bromide	*			*		

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

Squash: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA	8,600	3	0.6	46	6.0	24	24.3		
FL	11,500	39	5.3	95	24.4	94	90.9	15	333.4
GA	12,000	51	23.8	89	72.3	78	39.5	8	156.3
MI	5,600	78	5.1	82	5.0	55	14.8		
NJ 2/	3,800	52	4.1	82	4.2	85	16.0		
NY 2/	3,500	41	2.3	71	2.0	66	6.9		
NC	4,200	15	0.6	36	4.4	27	4.3	2	21.4
OH	1,800	17	0.3	21	0.6	17	2.7		
OR 2/	2,000	38	0.8	34	0.1				
SC 2/	1,100	54	0.6	62	3.4	34	1.4		
TN	1,300			83	3.4	45	1.1		
TX	1,700	40	1.4	61	1.6	49	1.6	1	1.0
Total	57,100	38	44.9	72	127.4	60	203.5	5	515.2

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.

Squash: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	17	1.0	3.47	3.48	33.3
Clomazone	8	1.0	0.25	0.25	1.1
Ethalfluralin	11	1.0	0.82	0.85	5.3
Glyphosate	2	1.0	0.80	0.87	1.1
Metolachlor	1	1.0	1.83	1.83	1.5
Naptalam	*	1.1	1.63	1.80	0.5
Paraquat	1	1.0	0.75	0.77	0.5
Pendimethalin	*	1.6	0.64	1.05	0.1
Sethoxydim	*	1.0	0.19	0.19	**
Trifluralin	*	1.0	0.82	0.82	0.3
Insecticides:					
Acephate	*	2.1	0.69	1.45	0.6
Azinphos-methyl	*	1.1	0.45	0.52	0.2
Bifenthrin	3	1.3	0.08	0.10	0.1
Bt (Bacillus thur.)2/	13	3.0			
Carbaryl	12	2.0	0.93	1.92	12.8
Carbofuran	2	1.0	0.87	0.92	1.0
Diazinon	*	1.5	0.77	1.16	0.5
Dimethoate	1	4.6	0.34	1.58	1.1
Endosulfan	29	3.6	0.68	2.49	41.7
Esfenvalerate	15	2.2	0.04	0.09	0.6
Imidacloprid	4	1.8	0.28	0.51	1.2
Malathion	2	2.3	1.27	3.02	3.6
Methomyl	13	2.1	0.41	0.87	6.4
Oxamyl	3	1.7	0.66	1.16	1.9
Oxydemeton-methyl	1	1.1	0.47	0.55	0.4
Permethrin	5	1.9	0.11	0.22	0.5
Petroleum distillate	*	3.5	6.63	23.19	10.5
Potassium salts	2	7.4	1.89	14.01	15.9
Rotenone	*	3.9	0.05	0.19	**
Fungicides:					
Azoxystrobin	13	1.9	0.24	0.45	3.3
Benomyl	5	2.4	0.24	0.58	1.6
Captan	*	3.3	2.04	6.82	0.3
Chlorothalonil	35	2.8	1.31	3.73	74.0
Copper ammonium	*	1.1	0.25	0.28	0.1
Copper hydroxide	8	2.9	0.73	2.12	9.2
Copper resinate	*	2.7	0.13	0.37	**
Copper sulfate	*	3.6	0.29	1.06	0.4
Mancozeb	14	2.9	1.13	3.35	27.3
Maneb	12	3.2	1.35	4.41	29.1
Mefenoxam	9	1.0	0.10	0.11	0.5
Metalaxyl	10	2.1	0.14	0.30	1.7
Myclobutanil	2	1.6	0.08	0.13	0.1
Sulfur	7	3.8	3.50	13.33	54.0
Thiophanate-methyl	*	1.7	0.52	0.91	0.2
Triadimefon	*	1.1	0.07	0.08	**

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Squash: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Other Chemicals:					
Chloropicrin	3	1.0	60.26	60.26	106.1
Metam-sodium	1	1.0	122.38	122.38	79.1
Methyl bromide	3	1.0	143.81	143.81	267.2

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 12 program states were 57,100 acres. States included are CA, FL, GA, MI, NJ, NY, NC, OH, OR, SC, TN and TX.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Squash: Agricultural Chemical Applications,
California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Bifenthrin	15	1.2	0.09	0.11	0.1
Esfenvalerate	6	1.4	0.03	0.05	**
Malathion	9	1.5	1.43	2.21	1.7
Fungicides:					
Sulfur	7	1.3	29.85	39.22	22.1

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for California were 8,600 acres.

Squash: Agricultural Chemical Applications,
Florida, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Paraquat	2	1.0	1.01	1.03	0.3
Insecticides:					
Bt (Bacillus thur.)2/	60	3.1			
Endosulfan	43	3.5	0.66	2.34	11.5
Methomyl	45	2.2	0.39	0.88	4.6
Fungicides:					
Chlorothalonil	44	3.2	1.11	3.61	18.2
Copper hydroxide	5	4.9	0.83	4.13	2.4
Mancozeb	60	3.0	1.11	3.40	23.5
Maneb	32	3.4	1.31	4.55	16.8
Metalaxyl	13	1.4	0.11	0.15	0.2
Sulfur	27	4.3	2.12	9.24	28.7
Other Chemicals:					
Methyl bromide	14	1.0	145.31	145.31	229.4

1/ Planted acres in 2000 for Florida were 11,500 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Squash: Agricultural Chemical Applications,
Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Ethalfluralin	10	1.1	0.55	0.64	0.8
Trifluralin	1	1.0	0.92	0.92	0.1
Insecticides:					
Acephate	1	2.9	0.75	2.21	0.3
Carbaryl	5	2.8	0.73	2.10	1.3
Endosulfan	64	4.5	0.71	3.26	25.2
Esfenvalerate	32	2.6	0.04	0.11	0.4
Permethrin	5	2.5	0.06	0.14	0.1
Potassium salts	8	7.7	1.84	14.26	13.5
Fungicides:					
Azoxystrobin	44	2.0	0.25	0.51	2.7
Chlorothalonil	41	3.1	1.32	4.13	20.2
Maneb	16	3.6	1.47	5.35	10.4
Metalaxyl	14	1.9	0.18	0.35	0.6

1/ Planted acres in 2000 for Georgia were 12,000 acres.

Squash: Agricultural Chemical Applications,
Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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	*	2.5	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	**

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Michigan were 5,600 acres.

Squash: Agricultural Chemical Applications,
New Jersey, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	19	1.0	5.32	5.32	3.9
Clomazone	34	1.0	0.17	0.17	0.2
Insecticides:					
Carbaryl	10	3.4	0.78	2.68	1.0
Endosulfan	32	1.9	0.62	1.22	1.5
Esfenvalerate	10	2.6	0.04	0.09	**
Imidacloprid	11	1.4	0.12	0.17	0.1
Methomyl	14	1.4	0.44	0.62	0.3
Permethrin	5	1.6	0.15	0.25	**
Fungicides:					
Azoxystrobin	17	1.7	0.21	0.37	0.2
Benomyl	9	2.7	0.30	0.80	0.3
Chlorothalonil	77	2.9	1.41	4.09	12.0
Copper hydroxide	20	3.0	0.71	2.14	1.6
Mancozeb	4	4.9	0.71	3.50	0.5
Maneb	10	1.8	0.81	1.53	0.6
Metalaxyl	26	3.0	0.10	0.32	0.3

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for New Jersey were 3,800 acres.

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

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Clomazone	9	1.0	0.37	0.37	0.1
Ethalfluralin	18	1.0	1.32	1.32	0.8
Glyphosate	2	1.0	0.95	0.97	0.1
Naptalam	7	1.1	1.83	2.07	0.5
Trifluralin	3	1.0	0.57	0.57	0.1
Insecticides:					
Azinphos-methyl	8	1.0	0.44	0.44	0.1
Carbaryl	26	1.2	0.75	0.97	0.9
Endosulfan	8	2.0	0.67	1.38	0.4
Esfenvalerate	30	2.0	0.04	0.09	0.1
Methomyl	7	1.6	0.41	0.67	0.2
Permethrin	7	2.0	0.15	0.31	0.1
Fungicides:					
Azoxystrobin	14	1.7	0.16	0.27	0.1
Benomyl	14	1.1	0.14	0.16	0.1
Chlorothalonil	46	2.2	1.48	3.39	5.5
Copper hydroxide	8	1.8	0.32	0.59	0.2
Mancozeb	6	2.4	1.32	3.20	0.7

1/ Planted acres in 2000 for New York were 3,500 acres.

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

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Ethalfluralin	6	1.0	0.98	0.98	0.3
Insecticides:					
Bt (Bacillus thur.)2/	1	3.6			
Carbaryl	20	2.6	1.09	2.89	2.4
Esfenvalerate	6	1.6	0.03	0.04	**
Methomyl	5	1.0	0.50	0.51	0.1
Fungicides:					
Chlorothalonil	14	3.3	1.41	4.69	2.7

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for North Carolina were 4,200 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Squash: Agricultural Chemical Applications,
Ohio, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	2	1.0	1.18	1.18	0.1
Clomazone	8	1.5	0.51	0.78	0.1
Insecticides:					
Carbaryl	11	2.4	0.91	2.20	0.4
Endosulfan	7	1.5	1.09	1.70	0.2
Esfenvalerate	8	2.8	0.04	0.10	**
Permethrin	5	1.5	0.17	0.25	**
Fungicides:					
Azoxystrobin	4	1.0	0.20	0.22	**
Benomyl	*	2.3	0.21	0.50	**
Chlorothalonil	12	3.2	1.88	6.16	1.3
Copper hydroxide	9	4.1	0.76	3.18	0.5
Mancozeb	7	1.9	1.43	2.72	0.4
Maneb	4	3.8	1.83	7.00	0.5
Myclobutanil	4	1.9	0.08	0.16	**

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Ohio were 1,800 acres.

Squash: Agricultural Chemical Applications,
Oregon, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Ethalfluralin	6	1.0	1.32	1.32	0.2
Insecticides:					
Carbaryl	10	1.0	0.69	0.69	0.1

1/ Planted acres in 2000 for Oregon were 2,000 acres.

Squash: Agricultural Chemical Applications,
South Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Ethalfluralin	47	1.0	0.65	0.65	0.3
Insecticides:					
Carbaryl	4	2.1	0.75	1.60	0.1
Endosulfan	53	3.2	0.48	1.57	0.9
Esfenvalerate	3	2.3	0.03	0.07	**
Fungicides:					
Benomyl	14	2.8	0.13	0.36	0.1
Chlorothalonil	22	3.0	1.59	4.87	1.2

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for South Carolina were 1,100 acres.

Squash: Agricultural Chemical Applications,
Tennessee, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Carbaryl	73	2.3	1.41	3.29	3.1
Endosulfan	27	1.1	0.74	0.86	0.3
Esfenvalerate	11	1.0	0.05	0.05	**
Permethrin	2	2.3	0.10	0.24	**
Fungicides:					
Chlorothalonil	33	1.0	1.46	1.49	0.6
Mancozeb	23	1.1	1.46	1.69	0.5

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Tennessee were 1,300 acres.

Squash: Agricultural Chemical Applications,
Texas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Bensulide	21	1.0	3.33	3.33	1.2
Trifluralin	8	1.0	0.93	0.93	0.1
Insecticides:					
Carbaryl	12	1.8	0.81	1.48	0.3
Endosulfan	8	1.1	0.52	0.60	0.1
Esfenvalerate	18	3.0	0.04	0.11	**
Methomyl	20	3.0	0.56	1.69	0.6
Permethrin	15	1.9	0.15	0.28	0.1
Fungicides:					
Chlorothalonil	23	2.6	1.07	2.86	1.1

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Texas were 1,700 acres.

Strawberries: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States: CA	FL	MI	NJ	NY
Herbicides						
2,4-D	P			P	*	P
Alachlor	*					*
Clethodim	*			*		
Clopyralid	*				*	
DCPA	P			*	*	
Diquat	*		*			
Fluazifop-P-butyl	*			*		
Glufosinate-ammonium	*					
Glyphosate	P	*	P	P		*
MCPA	*					
Metolachlor	*					
Napropamide	P	P		P	P	P
Oxyfluorfen	P	*		*		*
Paraquat	P	P	P		*	
Prometryn	*	*				
Quizalofop-ethyl	*					
S-Metolachlor	*					
Sethoxydim	P	*	*	P	P	P
Simazine	P			*		*
Terbacil	P			P	P	P

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Strawberries: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States					
	ALL	CA	FL	MI	NJ	NY
Insecticides						
Abamectin	P	P	P	*	*	*
Azadirachtin	P	*	*			
Azinphos-methyl	P		*	P	*	P
Bifenthrin	P	P	P	P	*	*
Bt (Bacillus thur.)	P	P	P	*		
Carbaryl	P	P	*	P	*	*
Carbofuran	*					
Chlorpyrifos	P	P	*	P	*	P
Cinnamaldehyde	*	*	*			
Cryolite	*					
Diazinon	P	P	P	P		
Dicofol	P	*	*		*	*
Dimethoate	*					
Endosulfan	P		*	P	*	P
Esfenvalerate	*				*	*
Fenbutatin-oxide	P	*	P	*		
Fenpropathrin	P	P	*	*	*	
Fonofos	*					
Hexythiazox	P	P				
Imidacloprid	P	*		*		
Lambda-cyhalothrin	*					*
Malathion	P	P	P		*	P
Methomyl	P	P	P	*		*
Methoxychlor	P					
Naled	P	P	P			*
Neem oil	*	*				
Neem oil, clar. hyd.	P	P	*			
Oxydemeton-methyl	P					
Permethrin	*		*			
Petroleum distillate	P	*				*
Phosmet	*					
Piperonyl butoxide	*	*				
Potassium salts	P	P				
Pyrethrins	P	*	*	*		
Rotenone	P	*	*	*		
Silicon dioxide	*	*				

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Strawberries: Active Ingredients Applied and Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States					
	ALL	CA	FL	MI	NJ	NY
Fungicides						
AQ-10 Biofungicide	*	*				
Anilazine	*	*				
Azoxystrobin	P		P			
Basic copper sulfate	*		*			
Benomyl	P	P	P	P	P	P
Captan	P	P	P	P	P	P
Chlorothalonil	P	*			*	*
Copper ammonium	P		*			
Copper hydroxide	P	P	*	P		
Copper resinate	*	*				
Copper sulfate	*					
Cyprodinill	*					
Dodine	P					
Fenhexamid	P	P	P	*	*	P
Fludioxonil	*					
Fosetyl-al	P	P	*	*	*	
Iprodione	P	P	P	P	P	P
Mancozeb	P			*	*	*
Maneb	*					
Mefenoxam	P	P		*	*	
Metalaxyl	P			*	*	*
Myclobutanil	P	P	*			
Potassium bicarbon.	P	P	*			
Propiconazole	*					*
Sulfur	P	P	P		*	
Thiophanate-methyl	P	*	P	P	*	*
Thiram	P	P	P	*	*	
Triadimefon	*					
Vinclozolin	P	*	*	P	P	*
Other Chemicals						
Chloropicrin	P	P	P	*		
Dichloropropene	*	*				
Hydrogen peroxide	*		*			
Metaldehyde	P	P		*		*
Metam-sodium	P	*	*		*	
Methyl bromide	P	P	P	*	*	
Monocarbamide dihyd.	*		*			

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

Strawberries: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States				
	NC	OR	PA	WA	WI
Herbicides					
2,4-D	*		P		P
Alachlor					
Clethodim					
Clopyralid			*		
DCPA	*		*	*	*
Diquat					
Fluazifop-P-butyl			*		
Glufosinate-ammonium				*	
Glyphosate	*	*	*	*	*
MCPA			*		
Metolachlor			*		
Napropamide	P	P	P	P	P
Oxyfluorfen		P	P	P	
Paraquat	P	*	*		
Prometryn					
Quizalofop-ethyl		*			
S-Metolachlor			*		
Sethoxydim	P	P	P	*	P
Simazine		P	*	P	
Terbacil	*	P	P	*	P

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Strawberries: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States				
	NC	OR	PA	WA	WI
Insecticides					
Abamectin	P	P	*	*	*
Azadirachtin					
Azinphos-methyl	*	P	P	*	*
Bifenthrin	P	P	P	P	*
Bt (Bacillus thur.)		*			
Carbaryl	P	P	P		*
Carbofuran		*		*	
Chlorpyrifos	P	P	P		P
Cinnamaldehyde					
Cryolite				*	
Diazinon		*	*	*	*
Dicofol	P		*		
Dimethoate			*		
Endosulfan	*	P	P	P	P
Esfenvalerate			*		
Fenbutatin-oxide	*	*			
Fenpropathrin	*				*
Fonofos			*		
Hexythiazox					
Imidacloprid					
Lambda-cyhalothrin			*		
Malathion	P	*	*	*	P
Methomyl	*		*		
Methoxychlor	*		*	*	P
Naled	*	*	*	*	*
Neem oil					
Neem oil, clar. hyd.		*			
Oxydemeton-methyl		*		*	
Permethrin			*		
Petroleum distillate			*		
Phosmet					*
Piperonyl butoxide					
Potassium salts					
Pyrethrins					
Rotenone					
Silicon dioxide					

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Strawberries: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States				
	NC	OR	PA	WA	WI
Fungicides					
AQ-10 Biofungicide					
Anilazine					
Azoxystrobin	*		*		
Basic copper sulfate					*
Benomyl	P	P	P	P	P
Captan	P	P	P	P	P
Chlorothalonil			*		
Copper ammonium					*
Copper hydroxide	*		*		*
Copper resinate					
Copper sulfate			*		*
Cyprodinill		*		*	
Dodine		P			
Fenhexamid	P	P	P	P	P
Fludioxonil		*		*	
Fosetyl-al		P	*	P	*
Iprodione	*	P	P	*	P
Mancozeb			*		
Maneb	*				
Mefenoxam			*		P
Metalaxyl	*	*	P	*	P
Myclobutanil		*		P	
Potassium bicarbon.			*		
Propiconazole					
Sulfur		*		*	
Thiophanate-methyl	P		P		P
Thiram		P	*	*	
Triadimefon		*		*	
Vinclozolin		*	*	P	*
Other Chemicals					
Chloropicrin	*		*	*	
Dichloropropene					
Hydrogen peroxide					
Metaldehyde		P	*	*	*
Metam-sodium	*		*		*
Methyl bromide	P		*	*	
Monocarbamide dihyd.					

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

Strawberries: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA	27,600	12	3.6	82	192.7	82	709.6	66	6,268.3
FL	6,300	94	9.4	99	28.8	98	273.2	100	1,315.0
MI	1,400	64	2.8	78	3.0	84	19.5	9	1.4
NJ	500	55	0.9	57	0.6	83	2.8	3	1.5
NY 2/	1,700	69	4.1	80	2.7	72	6.5		
NC	1,800	18	0.5	52	2.2	58	4.4	36	131.6
OR	4,100	80	9.3	76	5.9	92	25.3	29	0.4
PA	1,300	81	3.9	77	1.9	77	6.5	14	3.7
WA	1,500	83	3.2	54	1.3	92	9.1	4	6.1
WI 2/	1,200	83	2.7	62	1.3	67	4.0		
Total	47,400	39	40.4	81	240.4	84	1,060.9	57	7,729.9

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.

Strawberries: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	4	1.1	1.06	1.22	2.4
DCPA	*	1.1	4.13	4.79	**
Glyphosate	3	1.7	1.21	2.08	2.6
Napropamide	13	1.2	2.69	3.38	21.0
Oxyfluorfen	4	1.0	0.29	0.31	0.5
Paraquat	19	1.3	0.82	1.10	9.5
Sethoxydim	5	1.4	0.33	0.46	1.0
Simazine	6	1.0	0.83	0.85	2.3
Terbacil	6	1.2	0.29	0.36	1.0
Insecticides:					
Abamectin	46	1.9	0.01	0.03	0.6
Azadirachtin	15	1.6	0.02	0.03	0.2
Azinphos-methyl	5	1.6	0.45	0.74	1.7
Bifenthrin	17	1.6	0.11	0.19	1.4
Bt (Bacillus thur.)2/	41	6.7			
Carbaryl	18	1.2	1.69	2.16	18.3
Chlorpyrifos	13	1.3	0.92	1.20	7.6
Diazinon	5	1.8	0.66	1.25	3.1
Dicofol	1	1.0	0.70	0.74	0.5
Endosulfan	11	1.5	0.91	1.40	7.4
Fenbutatin-oxide	2	1.9	0.70	1.38	1.4
Fenpropathrin	16	1.5	0.28	0.42	3.1
Hexythiazox	31	1.1	0.19	0.22	3.3
Imidacloprid	5	1.3	0.50	0.66	1.7
Malathion	32	4.5	1.90	8.57	128.0
Methomyl	24	3.6	0.73	2.63	29.9
Methoxychlor	*	1.6	0.62	1.01	0.3
Naled	7	2.0	0.95	1.93	6.1
Neem Oil, Hydrophob.	2	1.4	4.18	6.17	5.2
Oxydemeton-methyl	*	1.2	0.49	0.63	0.2
Petroleum distillate	4	1.0	6.90	6.95	13.5
Potassium salts	2	1.5	4.44	6.88	5.6
Pyrethrins	1	1.0	0.006	0.006	**
Rotenone	1	1.0	0.005	0.005	**

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Strawberries: Agricultural Chemical Applications,
Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Fungicides:					
Azoxystrobin	5	2.6	0.16	0.42	0.9
Benomyl	41	2.1	0.44	0.93	18.0
Captan	73	6.5	1.78	11.70	403.6
Chlorothalonil	*	9.0	0.39	3.50	0.9
Copper ammonium	2	4.6	0.37	1.71	1.9
Copper hydroxide	3	1.8	0.88	1.64	2.3
Dodine	*	1.9	1.16	2.23	0.1
Fenhexamid	44	1.7	0.72	1.26	26.0
Fosetyl-al	20	1.1	2.58	3.06	28.3
Iprodione	45	2.4	0.91	2.22	47.5
Mancozeb	*	1.4	0.93	1.36	**
Mefenoxam	3	1.2	0.38	0.46	0.6
Metalaxyl	1	1.0	0.31	0.33	**
Myclobutanil	35	3.6	0.12	0.43	7.1
Potassium bicarbon.	10	1.1	2.28	2.65	12.3
Sulfur	47	5.5	2.66	14.61	327.4
Thiophanate-methyl	7	4.2	0.70	3.00	9.7
Thiram	51	3.7	1.87	7.09	169.8
Vinclozolin	2	2.1	0.83	1.75	1.3
Other Chemicals:					
Chloropicrin	51	1.1	99.15	110.63	2,649.1
Metaldehyde	5	1.2	0.75	0.95	2.4
Metam-sodium	*	1.0	159.71	161.20	26.1
Methyl bromide	52	1.1	187.02	204.83	5,028.8

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 10 program states were 47,400 acres. States included are CA, FL, MI, NJ, NY, NC, OR, PA, WA and WI.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Strawberries: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Napropamide	2	1.1	1.86	2.07	1.1
Paraquat	10	1.1	0.69	0.83	2.2
Insecticides:					
Abamectin	55	1.8	0.01	0.03	0.4
Bifenthrin	17	1.2	0.10	0.13	0.6
Bt (Bacillus thur.)2/	57	5.9			
Carbaryl	26	1.1	1.77	2.09	15.2
Chlorpyrifos	17	1.2	0.90	1.15	5.3
Diazinon	2	1.2	0.99	1.24	0.8
Fenpropathrin	26	1.5	0.28	0.42	3.0
Hexythiazox	53	1.1	0.19	0.22	3.3
Malathion	51	4.6	1.92	8.89	126.0
Methomyl	20	1.7	0.83	1.45	8.1
Naled	7	2.1	0.93	1.95	3.9
Neem Oil, Hydrophob.	2	1.3	4.50	5.90	3.8
Potassium salts	3	1.5	4.44	6.88	5.6
Fungicides:					
Benomyl	43	1.4	0.48	0.68	8.1
Captan	73	5.9	1.66	9.89	199.0
Copper hydroxide	4	1.3	0.50	0.68	0.7
Fenhexamid	55	1.6	0.72	1.22	18.5
Fosetyl-al	26	1.1	2.55	2.83	20.3
Iprodione	63	2.6	0.94	2.43	42.1
Mefenoxam	5	1.2	0.38	0.45	0.6
Myclobutanil	58	3.8	0.12	0.44	7.0
Potassium bicarbon.	14	1.1	2.25	2.67	10.0
Sulfur	70	5.6	2.56	14.54	281.8
Thiram	57	3.5	2.11	7.42	117.0
Other Chemicals:					
Chloropicrin	64	1.1	108.69	125.69	2,226.9
Metaldehyde	4	1.4	1.13	1.67	1.7
Methyl bromide	64	1.1	200.93	227.57	4,012.4

1/ Planted acres in 2000 for California were 27,600 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Strawberries: Agricultural Chemical Applications, Florida, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Glyphosate	16	1.7	1.04	1.85	1.9
Paraquat	88	1.3	0.93	1.27	7.0
Insecticides:					
Abamectin	74	2.8	0.01	0.04	0.2
Bifenthrin	32	2.5	0.14	0.34	0.7
Bt (Bacillus thur.)2/	60	10.3			
Diazinon	11	4.0	0.54	2.17	1.5
Fenbutatin-oxide	15	2.1	0.71	1.51	1.4
Malathion	3	4.8	1.08	5.26	1.0
Methomyl	85	5.6	0.71	3.99	21.3
Naled	13	2.0	1.02	2.08	1.7
Fungicides:					
Azoxystrobin	34	2.7	0.16	0.43	0.9
Benomyl	42	5.1	0.39	2.01	5.3
Captan	97	14.1	1.86	26.29	161.3
Fenhexamid	17	1.9	0.52	1.04	1.1
Iprodione	26	1.2	0.85	1.03	1.7
Sulfur	47	4.3	3.43	15.02	44.1
Thiophanate-methyl	41	4.8	0.70	3.38	8.8
Thiram	88	5.7	1.39	7.96	44.0
Other Chemicals:					
Chloropicrin	95	1.0	67.84	67.84	407.9
Methyl bromide	99	1.0	142.43	142.43	891.1

1/ Planted acres in 2000 for Florida were 6,300 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Strawberries: Agricultural Chemical Applications,
Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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	**
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	**
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	**
Endosulfan	54	2.3	0.92	2.17	1.6
Fungicides:					
Benomyl	65	4.0	0.46	1.89	1.7
Captan	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	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Michigan were 1,400 acres.

Strawberries: Agricultural Chemical Applications,
New Jersey, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Napropamide	50	1.2	2.85	3.46	0.9
Sethoxydim	4	1.1	0.27	0.33	**
Terbacil	9	1.3	0.22	0.30	**
Fungicides:					
Benomyl	64	2.8	0.45	1.27	0.4
Captan	54	2.7	2.22	6.19	1.7
Iprodione	7	2.3	0.69	1.62	0.1
Vinclozolin	25	1.5	0.82	1.28	0.2

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for New Jersey were 500 acres.

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

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	27	1.1	0.97	1.12	0.5
Napropamide	53	1.5	2.40	3.81	3.4
Sethoxydim	5	1.0	0.33	0.33	**
Terbacil	32	1.5	0.30	0.46	0.2
Insecticides:					
Azinphos-methyl	34	1.1	0.42	0.47	0.3
Chlorpyrifos	23	1.6	0.95	1.57	0.6
Endosulfan	39	1.7	0.73	1.24	0.8
Malathion	9	1.8	0.80	1.51	0.2
Fungicides:					
Benomyl	26	2.1	0.33	0.71	0.3
Captan	63	2.8	1.72	4.85	5.2
Fenhexamid	5	2.1	0.76	1.66	0.1
Iprodione	17	2.2	0.81	1.81	0.5

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for New York were 1,700 acres.

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

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Napropamide	8	1.0	2.91	3.00	0.4
Paraquat	3	1.0	0.55	0.55	**
Sethoxydim	9	1.1	0.21	0.24	**
Insecticides:					
Abamectin	14	1.4	0.008	0.01	**
Bifenthrin	6	1.5	0.09	0.14	**
Carbaryl	31	1.6	1.82	3.01	1.7
Chlorpyrifos	7	1.2	1.32	1.63	0.2
Dicofol	2	1.1	0.47	0.55	**
Malathion	9	1.3	1.08	1.43	0.2
Fungicides:					
Benomyl	19	2.1	0.41	0.86	0.3
Captan	53	2.1	1.79	3.90	3.7
Fenhexamid	13	1.8	0.48	0.90	0.2
Thiophanate-methyl	2	2.7	0.59	1.61	0.1
Other Chemicals:					
Methyl bromide	35	1.0	187.25	187.25	117.4

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for North Carolina were 1,800 acres.

Strawberries: Agricultural Chemical Applications, Oregon, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Napropamide	42	1.0	3.59	3.70	6.3
Oxyfluorfen	35	1.0	0.28	0.30	0.4
Sethoxydim	11	1.1	0.34	0.41	0.2
Simazine	52	1.0	0.90	0.93	2.0
Terbacil	10	1.0	0.33	0.33	0.1
Insecticides:					
Abamectin	31	1.0	0.01	0.01	**
Azinphos-methyl	17	1.2	0.49	0.60	0.4
Bifenthrin	1	1.7	0.10	0.17	**
Carbaryl	2	1.0	0.80	0.80	0.1
Chlorpyrifos	3	1.0	1.02	1.02	0.1
Endosulfan	55	1.0	1.18	1.18	2.6
Fungicides:					
Benomyl	32	1.0	0.49	0.50	0.7
Captan	62	1.0	2.26	2.36	6.0
Dodine	*	1.9	1.16	2.23	0.1
Fenhexamid	57	1.8	0.79	1.42	3.3
Fosetyl-al	39	1.2	2.95	3.70	6.0
Iprodione	28	1.1	1.04	1.17	1.3
Thiram	57	1.1	2.60	3.09	7.2
Other Chemicals:					
Metaldehyde	29	1.0	0.31	0.32	0.4

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Oregon were 4,100 acres.

Strawberries: Agricultural Chemical Applications, Pennsylvania, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	51	1.0	1.09	1.19	0.8
Napropamide	60	1.2	2.86	3.54	2.7
Oxyfluorfen	16	1.0	0.29	0.29	0.1
Sethoxydim	29	1.1	0.30	0.34	0.1
Terbacil	45	1.3	0.23	0.31	0.2
Insecticides:					
Azinphos-methyl	23	1.3	0.44	0.61	0.2
Bifenthrin	29	1.5	0.08	0.12	**
Carbaryl	8	1.2	1.29	1.65	0.2
Chlorpyrifos	35	1.3	1.01	1.33	0.6
Endosulfan	33	1.3	0.91	1.27	0.6
Fungicides:					
Benomyl	43	2.7	0.37	1.01	0.6
Captan	71	2.6	1.85	4.84	4.4
Fenhexamid	22	1.7	0.73	1.29	0.4
Iprodione	19	2.8	0.79	2.28	0.5
Metalaxyl	5	1.0	0.14	0.15	**
Thiophanate-methyl	12	2.0	0.55	1.12	0.2

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Pennsylvania were 1,300 acres.

Strawberries: Agricultural Chemical Applications, Washington, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Napropamide	59	1.6	1.88	3.09	2.7
Oxyfluorfen	7	1.1	0.29	0.33	**
Simazine	31	1.0	0.58	0.58	0.3
Insecticides:					
Bifenthrin	43	2.1	0.10	0.21	0.1
Endosulfan	26	2.0	0.77	1.57	0.6
Fungicides:					
Benomyl	31	1.1	0.49	0.58	0.3
Captan	39	3.9	1.69	6.72	3.9
Fenhexamid	77	2.2	0.75	1.69	2.0
Fosetyl-al	7	1.9	2.22	4.29	0.5
Myclobutanil	9	2.1	0.10	0.22	**
Vinclozolin	3	2.4	0.74	1.83	0.1

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Washington were 1,500 acres.

Strawberries: Agricultural Chemical Applications, Wisconsin, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
2,4-D	41	1.0	1.23	1.29	0.6
Napropamide	41	1.1	3.30	3.69	1.8
Sethoxydim	22	1.1	0.31	0.34	0.1
Terbacil	58	1.1	0.24	0.26	0.2
Insecticides:					
Chlorpyrifos	17	1.3	0.77	1.06	0.2
Endosulfan	46	1.8	0.78	1.42	0.8
Malathion	5	1.1	1.63	1.86	0.1
Methoxychlor	8	1.0	1.00	1.00	0.1
Fungicides:					
Benomyl	39	1.5	0.44	0.67	0.3
Captan	64	2.6	1.42	3.74	2.9
Iprodione	10	1.0	0.47	0.48	0.1
Mefenoxam	6	1.1	0.43	0.48	**
Metalaxyl	5	1.4	0.36	0.51	**
Thiophanate-methyl	14	1.2	0.79	0.99	0.2

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Wisconsin were 1,200 acres.

Tomatoes, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States						
		AL	CA	FL	GA	KS	MI	NJ
Herbicides								
2,4-D	*							
Acetamide	*							
Alachlor	*							
Atrazine	*							
Benefin	*	*				*		
Bromacil	*							
Clomazone	*							
Cyanazine	*							
DCPA	*					*	*	
Diquat	P			P				
Diuron	*		*		*		*	
EPTC	*							
Ethalfluralin	*	*						
Fluazifop-P-butyl	*						*	
Glyphosate	P	*	P	*	*		*	
Glyphosate, is. salt	*		*					
Linuron	*						*	
Metolachlor	P	*					*	*
Metribuzin	P	P	P	P	P	*	P	P
Napropamide	P		*				P	P
Oxyfluorfen	P		*					
Paraquat	P	P	*	P	P		*	
Pebulate	P		*	*				*
Pendimethalin	P	*			*			*
Rimsulfuron	*		*					
S-Metolachlor	*		*					
Sethoxydim	P	*	*	*	*			
Trifluralin	P	P	P		P	*	P	P

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Tomatoes, Fresh: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	ALL	Program States						
		AL	CA	FL	GA	KS	MI	NJ
Insecticides								
Abamectin	P	*	*	P	*		*	*
Acephate	P		*		P		*	*
Azadirachtin	*		*	*		*		
Azinphos-methyl	P		*	*		*	P	P
Beauveria bassiana	*		*	*				
Bifenthrin	*							
Bt (Bacillus thur.)	P	P	P	P	P	*	*	*
Buprofezin	P			P				
Carbaryl	P	P	P	P	P	P	P	P
Carbofuran	*							*
Chlorpyrifos	P	*		*				*
Cryolite	*		*					
Cyfluthrin	P	*	*	P	P		*	P
Cyromazine	P		*	*				
Diazinon	P	*	*	P	P	*	P	*
Dicofol	P	*	*		*	*		P
Dimethoate	P	P	P	*			*	*
Disulfoton	*		*					
Endosulfan	P	P		P	P	*	P	P
Esfenvalerate	P	P	P	P	P	*	P	P
Ethoprop	*	*						
Ethyl parathion	*							
Fenamiphos	*			*				
Fenpropathrin	P	*		*	*		*	
Imidacloprid	P	P	P	P	*		*	P
Lambda-cyhalothrin	P	*	P	P	*	*	*	P
Lindane	*							
Malathion	P	P	*	*	*	P		*
Methamidophos	P	*	P	P	P			*
Methomyl	P	P	P	P	P	*	*	P
Methoxychlor	*							
Methyl parathion	P	*						
Mevinphos	*			*				
Naled	*						*	
Neem oil	*		*					
Neem oil, clar. hyd.	*		*	*				
Oxamyl	P		P	*	*			P
Permethrin	P	*	P	P	P	P	P	*
Petroleum distillate	P			*			*	
Phosmet	*						*	
Phosphamidon	*							
Piperonyl butoxide	*		*	*				
Potassium salts	P		*	P	*			
Propargite	*							
Pymetrozine	*			*				
Pyrethrins	P		*	*		*		*
Pyriproxyfen	P		*	*				
Rotenone	P			*		*		P
Spinosad	P	*	P	P	P		*	*
Tebufenozide	P		P	*				

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Tomatoes, Fresh: Active Ingredients Applied and Publication Status By Program States, 2000 (continued)

Active Ingredient	ALL	Program States						
		AL	CA	FL	GA	KS	MI	NJ
Fungicides								
AQ-10 Biofungicide	*		*					
Agriphage	*			*				
Anilazine	*							
Azoxystrobin	P	*	P	P	P		P	P
Basic copper sulfate	P			*				
Benomyl	P	P	P	P	*		*	P
Captan	P			*		*		*
Chlorothalonil	P	P	P	P	P	P	P	P
Copper (metallic)	*						*	
Copper ammonium	P		*	*		*	*	*
Copper chloride hyd.	P							*
Copper hydroxide	P	P	P	P	P	*	P	P
Copper oxide	*		*					
Copper oxychlo. sul.	P						*	*
Copper resinate	P				P	*	*	P
Copper sulfate	P	*		*	*	*	*	*
Dicloran	*		*					
Fosetyl-al	P		*	P			*	
Iprodione	*						*	
Mancozeb	P	P	P	P	P	P	P	P
Maneb	P	*	P	P	*	*	*	P
Mefenoxam	P		P	*			*	*
Metalaxyl	P	P	*	P	*		P	P
Myclobutanil	*		*					*
PCNB	*		*					
Potassium bicarbon.	*							
Propamocarb hydroch.	P		P					
Streptomycin	*		*					
Sulfur	P	*	P	P			*	*
Thiophanate-methyl	*						*	
Triadimefon	*							
Trichoderma harz.	*							
Vinclozolin	*							

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Tomatoes, Fresh: Active Ingredients Applied and Publication Status By Program States, 2000 (continued)

Active Ingredient	Program States						
	ALL	AL	CA	FL	GA	KS	MI	NJ
Other Chemicals								
Ammonium soap	*							*
Capsaicin	*		*					
Chloropicrin	P	P	*	P	P	*	*	
Cytokinins	*							
Dichloropropene	P	*			*		*	
Ethephon	P		P				*	
Garlic oil	*		*					
Gibberellic acid	*							
Gliocladium virens	*				*			
Hydrogen peroxide	P			*				*
Indolebutyric Acid	*							
Metam-sodium	P	*	*	*	*			*
Methyl bromide	P	P	*	P	P	*	*	
Monocarbamide dihyd.	*			*				
Tridecenyl acetate	P		P					

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

Tomatoes, Fresh: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States						
	NY	NC	OH	PA	SC	TN	TX
Herbicides							
2,4-D	*						*
Acetamide				*			
Alachlor			*		*		
Atrazine				*			
Benefin							
Bromacil							*
Clomazone			*			*	
Cyanazine	*		*				
DCPA							*
Diquat							
Diuron							
EPTC				*			
Ethalfluralin							*
Fluazifop-P-butyl							
Glyphosate	P		P	P	*		*
Glyphosate, is. salt							
Linuron	*						
Metolachlor		*	P	P			
Metribuzin	P	P	P	P	*	P	*
Napropamide	P	*	*	P		*	
Oxyfluorfen				*			
Paraquat		P		P	P	P	
Pebulate				P			
Pendimethalin						*	*
Rimsulfuron				*			
S-Metolachlor			*	*			
Sethoxydim	*	*		*	*	P	*
Trifluralin	P	*	P	*	*	*	P

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Tomatoes, Fresh: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States						
	NY	NC	OH	PA	SC	TN	TX
Insecticides							
Abamectin		*			*		
Acephate						*	
Azadirachtin							*
Azinphos-methyl	P		*	P	*	*	
Beauveria bassiana							
Bifenthrin		*		*			
Bt (Bacillus thur.)	*	P	*	*	P	P	P
Buprofezin							
Carbaryl	P	P	P	P	P	P	P
Carbofuran						*	
Chlorpyrifos	*			*			*
Cryolite							
Cyfluthrin		P	*	*	P	*	
Cyromazine							
Diazinon	*	*	*	*	*	*	P
Dicofol				*	*	*	*
Dimethoate			*	P	P		
Disulfoton							
Endosulfan	*	P	P	P	P	P	P
Esfenvalerate	*	P	P	P	P	P	P
Ethoprop							
Ethyl parathion					*		
Fenamiphos							
Fenpropathrin						*	
Imidacloprid	P	*	*	P	*		*
Lambda-cyhalothrin	P	*	P	P	P	*	*
Lindane						*	
Malathion	*	*	*		P	P	P
Methamidophos		P			P	P	
Methomyl	*	P	*	P	P	P	P
Methoxychlor	*			*		*	
Methyl parathion					*		*
Mevinphos							
Naled							
Neem oil							
Neem oil, clar. hyd.							
Oxamyl		*		*	*	*	
Permethrin	P	*	P	P	P	P	P
Petroleum distillate						*	
Phosmet							
Phosphamidon				*			
Piperonyl butoxide							
Potassium salts	*	*				*	
Propargite						*	
Pymetrozine							
Pyrethrins							
Pyriproxyfen							
Rotenone							
Spinosad	*	*	*	*	P	*	
Tebufenozide							*

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Tomatoes, Fresh: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States						
	NY	NC	OH	PA	SC	TN	TX
Fungicides							
AQ-10 Biofungicide							
Agriphage							
Anilazine	*						
Azoxystrobin	P	P	P	P	P	P	*
Basic copper sulfate		*	*			P	
Benomyl	P	P	P	P	*	*	*
Captan	*	*	*	*			
Chlorothalonil	P	P	P	P	P	P	P
Copper (metallic)			*				
Copper ammonium					*	*	
Copper chloride hyd.			*	*			
Copper hydroxide	P	P	P	P	P	P	*
Copper oxide							
Copper oxychlo. sul.	P		*	*			
Copper resinate	*	P		*	P	P	
Copper sulfate	*	*	*	*	*	P	*
Dicloran		*				*	
Fosetyl-al							
Iprodione	*						
Mancozeb	P	P	*	P	P	P	*
Maneb	P		P	P	*	P	
Mefenoxam				*	*	*	
Metalaxyl	P		*	P		*	*
Myclobutanil			*	*			
PCNB						*	
Potassium bicarbon.				*			
Propamocarb hydroch.							
Streptomycin							
Sulfur	*	*	*	*		P	*
Thiophanate-methyl	*			*			
Triadimefon				*			
Trichoderma harz.	*						
Vinclozolin	*						

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Tomatoes, Fresh: Active Ingredient Publication Status
By Program States, 2000 (continued)

Active Ingredient	Program States						
	NY	NC	OH	PA	SC	TN	TX
Other Chemicals							
Ammonium soap							
Capsaicin							
Chloropicrin		P	*		P	*	*
Cytokinins				*	*		
Dichloropropene					*		*
Ethephon	*		*		*		
Garlic oil							
Gibberellic acid					*		*
Gliocladium virens							
Hydrogen peroxide	*			*	*		
Indolebutyric Acid					*		*
Metam-sodium				*	*		
Methyl bromide		P	*		P	*	
Monocarbamide dihyd.							
Tridecenyl acetate							

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

Tomatoes, Fresh: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
AL	1,400	30	0.8	85	2.2	84	10.8	23	59.1
CA	42,800	56	18.5	79	86.0	74	373.8	17	1,802.8
FL	42,000	79	42.1	100	124.5	100	987.5	98	8,929.7
GA	4,000	25	0.8	98	16.4	97	97.7	91	832.7
KS 2/	70			*	**	38	0.2		
MI	2,500	53	1.4	89	5.9	89	53.6	51	162.7
NJ	3,600	50	2.2	80	4.1	82	31.8	2	2.2
NY	3,300	68	1.6	63	2.0	86	31.1	21	2.0
NC	2,600	11	0.3	90	6.1	90	46.4	31	113.1
OH	4,900	69	4.9	70	1.3	68	53.0	60	55.3
PA	4,200	61	7.6	58	2.1	85	29.8	1	0.1
SC	3,500	63	4.6	93	9.5	87	47.8	52	572.7
TN	4,200	70	3.0	98	18.5	96	57.9	34	523.0
TX	1,500	19	0.2	76	4.9	59	1.9	3	0.6
Total	120,570	63	88.0	87	283.5	86	1,823.3	51	13,056.0

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
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.

Tomatoes, Fresh: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Diquat	9	1.0	0.84	0.86	9.7
Glyphosate	7	1.1	1.03	1.15	9.0
Metolachlor	2	1.0	1.29	1.29	3.8
Metribuzin	33	1.0	0.49	0.52	20.7
Napropamide	2	1.0	1.48	1.57	3.1
Oxyfluorfen	4	1.1	0.14	0.16	0.9
Paraquat	17	1.2	0.57	0.69	14.1
Pebulate	5	1.0	2.60	2.62	14.2
Pendimethalin	*	1.0	0.53	0.53	0.1
Sethoxydim	3	1.0	0.16	0.17	0.7
Trifluralin	11	1.0	0.53	0.56	7.6
Insecticides:					
Abamectin	17	1.5	0.008	0.01	0.2
Acephate	*	1.4	0.52	0.76	0.1
Azinphos-methyl	6	2.2	0.50	1.12	8.2
Bt (Bacillus thur.)2/	40	4.5			
Buprofezin	4	1.2	0.35	0.44	2.0
Carbaryl	2	1.8	0.94	1.74	4.6
Chlorpyrifos	3	1.6	0.30	0.51	2.1
Cyfluthrin	12	3.3	0.03	0.12	1.6
Cyromazine	13	1.6	0.11	0.18	3.0
Diazinon	4	1.4	0.58	0.85	4.3
Dicofol	2	1.3	0.30	0.41	0.8
Dimethoate	11	2.3	0.29	0.69	9.2
Endosulfan	27	3.0	0.59	1.82	60.0
Esfenvalerate	36	3.1	0.04	0.12	4.9
Fenpropathrin	*	3.3	0.19	0.63	0.7
Imidacloprid	33	1.8	0.15	0.28	10.8
Lambda-cyhalothrin	15	2.7	0.02	0.06	1.1
Malathion	*	2.6	1.03	2.76	0.2
Methamidophos	15	2.5	0.62	1.54	27.6
Methomyl	37	2.1	0.54	1.16	52.2
Methyl parathion	*	4.0	0.23	0.91	0.1
Oxamyl	7	2.9	0.55	1.61	12.9
Permethrin	25	3.1	0.10	0.32	9.2
Petroleum distillate	1	1.0	2.29	2.31	3.1
Potassium salts	5	2.0	1.93	3.93	25.3
Pyrethrins	2	2.7	0.005	0.01	**
Pyriproxyfen	3	1.0	0.08	0.08	0.3
Rotenone	2	3.0	0.007	0.02	**
Spinosad	30	4.5	0.08	0.36	12.8
Tebufenozide	12	1.1	0.16	0.18	2.7
Fungicides:					
Azoxystrobin	39	2.1	0.09	0.19	9.0
Basic copper sulfate	1	9.0	1.39	12.52	20.8
Benomyl	17	2.6	0.34	0.89	18.5
Captan	*	1.1	1.02	1.12	0.5
Chlorothalonil	66	4.9	1.22	5.99	474.4

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Tomatoes, Fresh: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Copper ammonium	2	5.3	0.36	1.92	4.7
Copper chloride hyd.	*	1.7	0.58	1.00	**
Copper hydroxide	53	8.8	0.71	6.33	402.3
Copper oxychlo. sul.	*	8.1	1.00	8.19	7.4
Copper resinate	4	5.7	0.10	0.56	3.0
Copper sulfate	3	4.8	0.38	1.85	6.3
Fosetyl-al	3	3.3	1.24	4.17	16.0
Mancozeb	42	10.0	0.98	9.91	506.0
Maneb	10	3.7	1.41	5.34	62.3
Mefenoxam	11	1.0	0.09	0.09	1.2
Metalaxyl	9	3.3	0.21	0.71	7.5
Propamocarb hydroch.	2	1.1	0.81	0.94	2.2
Sulfur	12	1.5	13.21	19.99	279.8
Other Chemicals:					
Chloropicrin	44	1.1	69.67	76.42	4,075.5
Dichloropropene	*	1.0	202.76	203.37	185.8
Ethephon	4	1.1	0.74	0.81	4.4
Hydrogen peroxide	*	2.8	0.99	2.80	2.1
Metam-sodium	*	1.2	117.26	142.02	90.0
Methyl bromide	45	1.1	145.02	160.00	8,691.6
Tridecenyl acetate	1	1.1	0.02	0.02	**

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for the 14 program states were 120,570 acres. States included are AL, CA, FL, GA, KS, MI, NJ, NY, NC, OH, PA, SC, TN and TX.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Tomatoes, Fresh: Agricultural Chemical Applications, Alabama, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Metribuzin	24	1.5	0.63	0.98	0.3
Paraquat	16	1.9	0.57	1.14	0.3
Trifluralin	8	1.3	0.94	1.22	0.1
Insecticides:					
Bt (Bacillus thur.)2/	24	2.3			
Carbaryl	2	2.3	0.63	1.49	**
Dimethoate	23	4.6	0.45	2.07	0.7
Endosulfan	7	1.7	0.55	0.94	0.1
Esfenvalerate	9	4.2	0.03	0.12	**
Imidacloprid	25	2.3	0.16	0.38	0.1
Malathion	2	1.3	0.69	0.94	**
Methomyl	52	3.5	0.41	1.43	1.0
Fungicides:					
Benomyl	22	1.7	0.35	0.63	0.2
Chlorothalonil	57	3.4	1.37	4.78	3.8
Copper hydroxide	16	6.9	0.87	6.04	1.4
Mancozeb	35	4.5	1.30	5.93	2.9
Metalaxyl	12	2.1	0.39	0.83	0.1
Other Chemicals:					
Chloropicrin	14	1.0	64.96	64.96	13.1
Methyl bromide	16	1.0	152.53	152.53	35.2

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Alabama were 1,400 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Tomatoes, Fresh: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Glyphosate	13	1.1	0.71	0.83	4.4
Metribuzin	15	1.0	0.45	0.47	3.0
Trifluralin	26	1.0	0.47	0.50	5.5
Insecticides:					
Bt (Bacillus thur.)2/	22	2.4			
Carbaryl	3	1.0	0.89	0.94	1.3
Dimethoate	13	1.5	0.42	0.63	3.6
Esfenvalerate	31	2.0	0.05	0.09	1.2
Imidacloprid	16	2.3	0.11	0.27	1.9
Lambda-cyhalothrin	8	1.1	0.03	0.03	0.1
Methamidophos	10	1.2	0.77	0.93	4.1
Methomyl	65	1.4	0.63	0.89	24.9
Oxamyl	12	1.5	0.54	0.81	4.1
Permethrin	8	1.3	0.19	0.27	0.9
Spinosad	28	2.1	0.07	0.16	1.9
Tebufenozide	33	1.0	0.17	0.18	2.5
Fungicides:					
Azoxystrobin	41	1.9	0.09	0.17	2.9
Benomyl	10	1.7	0.48	0.84	3.6
Chlorothalonil	40	2.3	1.35	3.17	54.8
Copper hydroxide	19	1.3	1.09	1.46	11.7
Mancozeb	15	2.3	1.28	3.00	18.9
Maneb	10	1.1	1.35	1.58	6.7
Mefenoxam	12	1.0	0.13	0.14	0.7
Propamocarb hydroch.	6	1.1	0.81	0.94	2.2
Sulfur	27	1.2	18.28	23.47	270.8
Other Chemicals:					
Ethephon	5	1.2	1.02	1.28	2.7
Tridecenyl acetate	3	1.1	0.02	0.02	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for California were 42,800 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Tomatoes, Fresh: Agricultural Chemical Applications, Florida, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Diquat	27	1.0	0.84	0.86	9.7
Metribuzin	48	1.0	0.56	0.60	12.2
Paraquat	34	1.2	0.58	0.70	10.0
Insecticides:					
Abamectin	43	1.6	0.008	0.01	0.2
Bt (Bacillus thur.)2/	79	5.3			
Buprofezin	11	1.2	0.35	0.44	2.0
Carbaryl	*	3.6	1.43	5.21	0.1
Cyfluthrin	17	3.5	0.04	0.13	0.9
Diazinon	7	1.4	0.58	0.83	2.4
Endosulfan	53	2.8	0.55	1.55	34.9
Esfenvalerate	46	3.5	0.03	0.12	2.2
Imidacloprid	65	1.8	0.17	0.31	8.4
Lambda-cyhalothrin	16	3.7	0.02	0.09	0.6
Methamidophos	14	3.2	0.47	1.53	9.1
Methomyl	27	2.8	0.48	1.36	15.6
Permethrin	58	3.5	0.09	0.33	8.0
Potassium salts	3	2.6	0.83	2.22	3.1
Spinosad	47	6.1	0.08	0.50	9.9
Fungicides:					
Azoxystrobin	39	1.6	0.09	0.15	2.4
Benomyl	23	2.2	0.35	0.77	7.3
Chlorothalonil	91	6.2	1.09	6.82	260.7
Copper hydroxide	91	11.0	0.68	7.44	285.6
Fosetyl-al	9	3.4	1.24	4.20	15.7
Mancozeb	72	12.8	0.93	11.95	362.9
Maneb	3	7.9	1.72	13.68	17.6
Metalaxyl	18	3.8	0.20	0.78	6.0
Sulfur	4	2.2	1.44	3.24	5.7
Other Chemicals:					
Chloropicrin	96	1.0	69.41	69.41	2,789.3
Methyl bromide	98	1.0	149.20	149.20	6,133.6

* Area applied is less than one percent.
1/ Planted acres in 2000 for Florida were 42,000 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Tomatoes, Fresh: Agricultural Chemical Applications, Georgia, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Metribuzin	21	1.0	0.43	0.43	0.4
Paraquat	19	1.2	0.47	0.57	0.4
Trifluralin	1	1.0	0.79	0.79	**
Insecticides:					
Acephate	*	2.5	0.75	1.90	**
Bt (Bacillus thur.)2/	45	4.5			
Carbaryl	1	3.0	0.67	2.05	0.1
Cyfluthrin	13	5.2	0.03	0.16	0.1
Diazinon	*	2.8	0.42	1.21	**
Endosulfan	43	2.9	0.69	2.01	3.5
Esfenvalerate	16	3.9	0.03	0.14	0.1
Methamidophos	86	3.3	0.66	2.20	7.5
Methomyl	3	5.6	0.44	2.48	0.3
Permethrin	*	2.3	0.09	0.21	**
Spinosad	52	5.9	0.06	0.37	0.8
Fungicides:					
Azoxystrobin	42	3.8	0.09	0.35	0.6
Chlorothalonil	56	7.2	1.34	9.62	21.6
Copper hydroxide	87	9.5	0.82	7.81	27.1
Copper resinate	5	11.0	0.07	0.78	0.2
Mancozeb	53	9.6	1.30	12.47	26.3
Other Chemicals:					
Chloropicrin	91	1.0	74.46	74.46	271.4
Methyl bromide	91	1.0	153.85	153.85	560.6

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Georgia were 4,000 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Tomatoes, Fresh: Agricultural Chemical Applications, Kansas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Insecticides:					
Carbaryl	22	2.3	1.26	2.98	**
Malathion	7	3.0	0.73	2.19	**
Permethrin	5	2.7	0.10	0.27	**
Fungicides:					
Chlorothalonil	16	3.9	1.15	4.53	0.1
Mancozeb	19	2.6	1.47	3.91	0.1

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Kansas were 70 acres.

Tomatoes, Fresh: Agricultural Chemical Applications, Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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	**
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	**
Fungicides:					
Azoxystrobin	3	2.4	0.08	0.20	**
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	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Michigan were 2,500 acres.

Tomatoes, Fresh: Agricultural Chemical Applications, New Jersey, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Metribuzin	30	1.0	0.37	0.38	0.4
Napropamide	27	1.0	1.29	1.38	1.3
Trifluralin	6	1.0	0.84	0.85	0.2
Insecticides:					
Azinphos-methyl	12	3.9	0.51	2.00	0.9
Carbaryl	2	2.8	0.87	2.48	0.2
Cyfluthrin	12	3.0	0.04	0.13	0.1
Dicofol	7	1.4	0.43	0.62	0.2
Endosulfan	21	2.8	0.56	1.62	1.2
Esfenvalerate	11	4.2	0.05	0.22	0.1
Imidacloprid	31	1.4	0.10	0.14	0.2
Lambda-cyhalothrin	42	2.8	0.02	0.07	0.1
Methomyl	11	2.2	0.41	0.94	0.4
Oxamyl	6	3.3	0.69	2.27	0.5
Rotenone	*	6.5	0.15	0.95	**
Fungicides:					
Azoxystrobin	36	2.4	0.09	0.22	0.3
Benomyl	14	1.9	0.44	0.87	0.4
Chlorothalonil	72	3.7	1.73	6.47	16.7
Copper hydroxide	31	4.1	0.53	2.21	2.4
Copper resinate	12	4.7	0.10	0.49	0.2
Mancozeb	14	6.6	1.84	12.32	6.0
Maneb	21	3.8	1.29	4.98	3.8
Metalaxyl	12	2.0	0.52	1.04	0.5

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for New Jersey were 3,600 acres.

Tomatoes, Fresh: Agricultural Chemical Applications, New York, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Glyphosate	2	1.0	0.68	0.68	**
Metribuzin	33	1.1	0.31	0.34	0.4
Napropamide	4	1.0	1.80	1.80	0.2
Trifluralin	40	1.0	0.79	0.79	1.0
Insecticides:					
Azinphos-methyl	16	1.1	0.50	0.55	0.3
Carbaryl	2	1.8	0.92	1.66	0.1
Imidacloprid	11	1.1	0.06	0.06	**
Lambda-cyhalothrin	6	1.2	0.03	0.03	**
Permethrin	4	2.1	0.14	0.29	**
Fungicides:					
Azoxystrobin	25	2.1	0.09	0.21	0.2
Benomyl	1	1.9	0.43	0.85	**
Chlorothalonil	68	3.5	1.43	5.07	11.3
Copper hydroxide	39	3.6	0.64	2.32	3.0
Copper oxychlo. sul.	18	8.3	1.01	8.39	5.1
Mancozeb	38	4.3	1.52	6.65	8.4
Maneb	24	3.7	1.00	3.73	3.0
Metalaxyl	5	1.6	0.17	0.27	**

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for New York were 3,300 acres.

Tomatoes, Fresh: Agricultural Chemical Applications,
North Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Metribuzin	7	1.3	0.47	0.64	0.1
Paraquat	5	1.0	0.49	0.49	0.1
Insecticides:					
Bt (Bacillus thur.)2/	8	3.2			
Carbaryl	7	1.5	0.88	1.40	0.3
Cyfluthrin	57	5.3	0.03	0.17	0.2
Endosulfan	28	3.8	0.77	2.93	2.1
Esfenvalerate	22	4.6	0.03	0.16	0.1
Methamidophos	58	2.0	0.96	2.00	3.0
Methomyl	5	4.6	0.38	1.78	0.2
Fungicides:					
Azoxystrobin	35	3.4	0.09	0.30	0.3
Benomyl	48	2.6	0.24	0.63	0.8
Chlorothalonil	87	6.1	1.54	9.42	21.4
Copper hydroxide	21	5.9	0.98	5.83	3.2
Copper resinate	58	10.1	0.08	0.82	1.2
Mancozeb	72	8.7	1.15	10.03	18.9
Other Chemicals:					
Chloropicrin	29	1.0	46.61	46.61	35.4
Methyl bromide	31	1.0	97.00	97.00	77.7

1/ Planted acres in 2000 for North Carolina were 2,600 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Tomatoes, Fresh: Agricultural Chemical Applications,
Ohio, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Glyphosate	8	1.0	0.75	0.75	0.3
Metolachlor	53	1.0	1.29	1.29	3.3
Metribuzin	58	1.0	0.38	0.39	1.1
Trifluralin	3	1.0	1.06	1.06	0.1
Insecticides:					
Carbaryl	4	1.8	0.84	1.52	0.3
Endosulfan	8	2.3	0.69	1.62	0.6
Esfenvalerate	5	2.9	0.03	0.08	**
Lambda-cyhalothrin	57	2.9	0.02	0.07	0.2
Permethrin	12	2.0	0.17	0.35	0.2
Fungicides:					
Azoxystrobin	60	2.7	0.10	0.27	0.8
Benomyl	3	2.0	0.25	0.50	0.1
Chlorothalonil	67	4.2	1.71	7.28	23.9
Copper hydroxide	65	8.6	0.77	6.61	21.1
Maneb	12	4.7	1.62	7.75	4.5

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Ohio were 4,900 acres.

Tomatoes, Fresh: Agricultural Chemical Applications,
Pennsylvania, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Glyphosate	1	1.0	1.18	1.18	0.1
Metolachlor	3	1.0	1.55	1.55	0.2
Metribuzin	48	1.0	0.30	0.32	0.6
Napropamide	11	1.0	1.84	1.92	0.9
Paraquat	3	3.3	0.40	1.37	0.2
Pebulate	40	1.0	3.28	3.28	5.5
Insecticides:					
Azinphos-methyl	2	1.8	0.61	1.14	0.1
Carbaryl	2	2.4	0.90	2.21	0.2
Dimethoate	34	1.0	0.50	0.50	0.7
Endosulfan	6	3.3	0.61	2.03	0.5
Esfenvalerate	34	1.4	0.04	0.06	0.1
Imidacloprid	30	1.0	0.05	0.05	0.1
Lambda-cyhalothrin	1	2.7	0.02	0.06	**
Methomyl	5	2.4	0.44	1.08	0.2
Permethrin	17	1.3	0.12	0.15	0.1
Fungicides:					
Azoxystrobin	51	2.7	0.09	0.26	0.5
Benomyl	41	5.3	0.27	1.43	2.4
Chlorothalonil	60	2.8	1.78	5.00	12.7
Copper hydroxide	47	4.1	0.72	2.97	5.9
Mancozeb	43	2.9	1.29	3.84	6.9
Maneb	1	2.4	2.00	4.97	0.2
Metalaxyl	40	2.5	0.20	0.51	0.9

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Pennsylvania were 4,200 acres.

Tomatoes, Fresh: Agricultural Chemical Applications,
South Carolina, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Paraquat	61	1.1	0.52	0.58	1.2
Insecticides:					
Bt (Bacillus thur.)2/	58	4.6			
Carbaryl	*	3.5	0.68	2.40	0.1
Cyfluthrin	24	1.9	0.03	0.06	**
Dimethoate	44	2.4	0.46	1.10	1.7
Endosulfan	34	2.9	1.13	3.27	3.9
Esfenvalerate	52	6.3	0.04	0.23	0.4
Lambda-cyhalothrin	42	2.3	0.03	0.06	0.1
Malathion	*	5.0	0.79	4.04	**
Methamidophos	46	1.5	0.67	1.03	1.7
Methomyl	24	2.7	0.66	1.84	1.5
Permethrin	*	2.7	0.11	0.30	**
Spinosad	28	2.1	0.07	0.14	0.1
Fungicides:					
Azoxystrobin	49	1.7	0.09	0.16	0.3
Chlorothalonil	68	2.9	1.21	3.61	8.5
Copper hydroxide	39	12.2	0.63	7.74	10.5
Copper resinate	61	3.2	0.15	0.47	1.0
Mancozeb	73	13.0	0.76	9.93	25.5
Other Chemicals:					
Chloropicrin	51	1.5	58.43	87.88	155.9
Methyl bromide	51	1.0	131.00	131.00	232.6

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for South Carolina were 3,500 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Tomatoes, Fresh: Agricultural Chemical Applications,
Tennessee, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Metribuzin	67	1.2	0.39	0.48	1.3
Paraquat	53	1.1	0.62	0.72	1.6
Sethoxydim	7	1.0	0.19	0.19	0.1
Insecticides:					
Bt (Bacillus thur.)2/	24	2.7			
Carbaryl	4	2.2	0.73	1.60	0.3
Endosulfan	82	4.8	0.61	2.96	10.2
Esfenvalerate	69	4.6	0.04	0.19	0.5
Malathion	*	3.0	1.14	3.46	0.1
Methamidophos	22	2.9	0.77	2.28	2.1
Methomyl	41	4.0	0.39	1.56	2.7
Permethrin	1	1.7	0.08	0.14	**
Fungicides:					
Azoxystrobin	29	2.5	0.07	0.18	0.2
Basic copper sulfate	7	6.1	1.17	7.22	2.1
Chlorothalonil	84	5.5	1.16	6.43	22.8
Copper hydroxide	59	5.6	0.90	5.06	12.5
Copper resinate	21	3.5	0.10	0.35	0.3
Copper sulfate	45	3.8	0.42	1.64	3.1
Mancozeb	40	3.6	1.54	5.62	9.4
Maneb	20	3.2	0.97	3.19	2.7
Sulfur	10	3.6	1.65	6.09	2.6

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Tennessee were 4,200 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Tomatoes, Fresh: Agricultural Chemical Applications, Texas, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Trifluralin	14	1.0	0.79	0.79	0.2
Insecticides:					
Bt (Bacillus thur.)2/	19	2.9			
Carbaryl	12	4.7	1.08	5.16	0.9
Diazinon	2	5.2	0.54	2.84	0.1
Endosulfan	12	2.5	0.50	1.26	0.2
Esfenvalerate	19	2.9	0.03	0.08	**
Malathion	*	1.2	1.43	1.80	**
Methomyl	39	10.7	0.59	6.29	3.7
Permethrin	5	4.8	0.09	0.43	**
Fungicides:					
Chlorothalonil	14	3.5	1.19	4.18	0.9

* Area applied is less than one percent.
** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Texas were 1,500 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Tomatoes, Processing: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States			
	ALL	CA	MI	PA
Herbicides				
Bentazon	*			*
Clethodim	*	*		
EPTC	P	P		
Glyphosate	P	P	*	*
Glyphosate, is. salt	*	*		
Metolachlor	P		*	*
Metribuzin	P	P	P	P
Napropamide	P	*		*
Oxyfluorfen	P	P		
Paraquat	P	P		
Pebulate	P	P		
Prometryn	*	*		
Pronamide	*	*		
Rimsulfuron	P	*	*	P
S-Metolachlor	P	*	*	P
Sethoxydim	P	*	*	
Trifluralin	P	*	*	
Insecticides				
Abamectin	*	*		
Acephate	*	*		
Aldicarb	*	*		
Bt (Bacillus thur.)	P	P		
Carbaryl	P	*	*	
Chlorpyrifos	*	*		
Cyfluthrin	P	P	*	*
Diazinon	P	P		
Dimethoate	P	P		P
Endosulfan	P	*		*
Esfenvalerate	P	P	*	*
Fonofos	*	*		
Imidacloprid	P	P	*	*
Lambda-cyhalothrin	P	*	P	*
Malathion	*	*		
Methamidophos	P	P		
Methomyl	P	P		
Oxamyl	*	*		*
Oxydemeton-methyl	*	*		
Permethrin	P	P		
Spinosad	P	P		
Tebufenozide	P	P		

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Tomatoes, Processing: Active Ingredients Applied and Publication Status
By Program States, 2000

Active Ingredient	Program States			
	ALL	CA	MI	PA
Fungicides				
Azoxystrobin	P	P	P	P
Chlorothalonil	P	P	P	P
Copper hydroxide	P	P	P	P
Copper oxide	*	*		
Copper oxychlo. sul.	*		*	*
Copper sulfate	*			*
Fosetyl-al	P	P		
Mancozeb	P	*	*	P
Maneb	P	*		*
Mefenoxam	P	P		
Metalaxyl	*	*		*
Propamocarb hydroch.	P	P		
Sulfur	P	P		
Triadimefon	*			*
Other Chemicals				
Chlorophacinone	*	*		
Dichloropropene	P	P		
Diphacinone	*	*		
Ethephon	P	P	P	P
Metam-sodium	P	P		
Tridecenyl acetate	*	*		

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

Tomatoes, Processing: Pesticide, Total Acreage,
Percent of Area Receiving Applications and Total Applied,
Program States and Total, 2000

State	Planted	Area Receiving and Total Applied							
	Acreage	Herbicide		Insecticide 1/		Fungicide		Other Chemical	
	Acres	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs	Percent	1,000 Lbs
CA	289,000	78	476.1	63	156.2	72	3,729.2	16	625.8
MI	3,000	92	4.2	93	0.3	100	63.4	88	1.2
PA	1,500	100	0.7	99	1.0	100	22.4	81	0.6
Total	293,500	78	481.0	64	157.5	73	3,815.0	17	627.6

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

Tomatoes, Processing: Agricultural Chemical Applications, Program States, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
EPTC	4	1.0	2.15	2.23	24.1
Glyphosate	33	1.2	0.77	0.98	94.6
Metolachlor	*	1.0	1.30	1.30	2.3
Metribuzin	21	1.1	0.25	0.27	16.6
Napropamide	11	1.0	1.00	1.07	33.8
Oxyfluorfen	9	1.0	0.21	0.22	5.8
Paraquat	4	1.3	0.59	0.79	8.4
Pebulate	14	1.0	3.83	4.16	165.9
Rimsulfuron	34	1.1	0.008	0.009	0.9
S-Metolachlor	4	1.1	1.05	1.15	13.0
Sethoxydim	3	1.0	0.14	0.14	1.4
Trifluralin	58	1.1	0.57	0.64	108.3
Insecticides:					
Bt (Bacillus thur.)2/	7	1.2			
Carbaryl	8	1.0	0.76	0.80	18.1
Cyfluthrin	2	1.7	0.04	0.07	0.3
Diazinon	7	1.1	1.36	1.55	31.4
Dimethoate	26	1.1	0.44	0.52	39.8
Endosulfan	4	1.2	0.90	1.13	11.9
Esfenvalerate	10	1.3	0.05	0.06	1.7
Imidacloprid	3	1.1	0.05	0.06	0.5
Lambda-cyhalothrin	19	1.2	0.03	0.03	1.9
Methamidophos	2	1.0	0.93	0.97	5.9
Methomyl	14	1.3	0.57	0.74	30.2
Permethrin	5	1.1	0.13	0.15	2.2
Spinosad	2	1.1	0.09	0.10	0.5
Tebufenozide	12	1.1	0.19	0.20	7.4
Fungicides:					
Azoxystrobin	16	1.1	0.10	0.12	5.7
Chlorothalonil	19	1.6	1.56	2.56	143.7
Copper hydroxide	19	1.8	0.95	1.73	98.5
Fosetyl-al	2	1.1	2.25	2.47	15.6
Mancozeb	16	1.5	1.22	1.85	86.9
Maneb	3	1.2	1.20	1.45	12.7
Mefenoxam	6	1.1	0.10	0.11	1.8
Propamocarb hydroch.	1	1.1	0.77	0.91	3.2
Sulfur	39	1.4	20.25	29.79	3,443.8
Other Chemicals:					
Dichloropropene	*	1.5	56.56	85.32	119.8
Ethephon	11	1.1	0.54	0.63	21.0
Metam-sodium	4	1.0	38.31	40.71	486.8

* Area applied is less than one percent.
1/ Planted acres in 2000 for the 3 program states were 293,500 acres. States included are CA, MI and PA.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Tomatoes, Processing: Agricultural Chemical Applications, California, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
EPTC	4	1.0	2.15	2.23	24.1
Glyphosate	34	1.2	0.77	0.98	94.6
Metribuzin	20	1.0	0.25	0.27	15.5
Oxyfluorfen	9	1.0	0.21	0.22	5.8
Paraquat	4	1.3	0.59	0.79	8.4
Pebulate	14	1.0	3.83	4.16	165.9
Insecticides:					
Bt (Bacillus thur.)2/	7	1.2			
Cyfluthrin	1	1.2	0.04	0.06	0.2
Diazinon	7	1.1	1.36	1.55	31.4
Dimethoate	26	1.1	0.44	0.52	39.0
Esfenvalerate	10	1.3	0.05	0.06	1.7
Imidacloprid	2	1.1	0.05	0.06	0.4
Methamidophos	2	1.0	0.93	0.97	5.9
Methomyl	14	1.3	0.57	0.74	30.2
Permethrin	5	1.1	0.13	0.15	2.2
Spinosad	2	1.1	0.09	0.10	0.5
Tebufenozide	13	1.1	0.19	0.20	7.4
Fungicides:					
Azoxystrobin	15	1.0	0.10	0.10	4.6
Chlorothalonil	18	1.2	1.63	1.99	102.8
Copper hydroxide	18	1.3	1.00	1.35	71.0
Fosetyl-al	2	1.1	2.25	2.47	15.6
Mefenoxam	6	1.1	0.10	0.11	1.8
Propamocarb hydroch.	1	1.1	0.77	0.91	3.2
Sulfur	40	1.4	20.25	29.79	3,443.8
Other Chemicals:					
Dichloropropene	*	1.5	56.56	85.32	119.8
Ethephon	10	1.1	0.56	0.65	19.2
Metam-sodium	4	1.0	38.31	40.71	486.8

* Area applied is less than one percent.
1/ Planted acres in 2000 for California were 289,000 acres.
2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

Tomatoes, Processing: Agricultural Chemical Applications, Michigan, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	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 Chemicals:					
Ethephon	88	1.1	0.40	0.46	1.2

1/ Planted acres in 2000 for Michigan were 3,000 acres.

Tomatoes, Processing: Agricultural Chemical Applications, Pennsylvania, 2000 1/

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 lbs
Herbicides:					
Metribuzin	68	1.0	0.19	0.19	0.2
Rimsulfuron	80	1.0	0.02	0.02	**
S-Metolachlor	85	1.0	0.28	0.28	0.4
Insecticides:					
Dimethoate	84	1.3	0.46	0.60	0.8
Fungicides:					
Azoxystrobin	90	2.8	0.10	0.28	0.4
Chlorothalonil	100	5.5	1.48	8.27	12.4
Copper hydroxide	92	2.5	0.97	2.43	3.4
Mancozeb	98	2.6	1.43	3.85	5.7
Other Chemicals:					
Ethephon	81	1.0	0.50	0.53	0.6

** Total applied is less than 50 lbs.
1/ Planted acres in 2000 for Pennsylvania were 1,500 acres.

Survey Procedures: Large screening samples were drawn from the NASS List Sampling Frame. This extensive sampling frame covers all types of farms and accounts for about 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 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.

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 are 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 published in the annual NASS report "**Vegetables - 2000 Summary**"[Vg 1-2(01)] released on January 29, 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 probability nature of the survey provides expansion of data so that the estimates are statistically representative of chemical use on the targeted crops in the surveyed States. The reliability of these survey results are affected by non-sampling errors and sampling variability. The sampling variability, expressed as a percentage of the estimate, is referred to as the coefficient of variation (cv).

Non-sampling errors are errors that 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 between collection and publication. In these surveys, all survey procedures and analysis were carried out in a consistent and orderly manner to minimize the occurrence of these types of errors.

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.

Sampling variability of the estimates differed considerably by chemical and crop. 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 Carbaryl, exhibit less variability than a more rarely used product. For more commonly used chemicals, cv's will range from 1-30 percent at the U.S. level and 5-65 percent at the State level. Some rarer items will have cv's above 100 percent. These items have insufficient data for publication and these instances are noted.

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: The phrase "agricultural chemicals" refers to the active ingredients in fertilizers and pesticides.

Application Rates: The 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: The area that 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: The common name is an officially recognized name for an active ingredient. This report shows active ingredient by common name.

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

Fertilizer: The term 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 sub-stances 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 nematicides are included as insecticides while soil fumigants, growth regulators, defoliants, and desiccants are included as other chemicals. This report excludes pesticides used for seed treatments, for spot treatments, and for postharvest applications to the commodity.

Synergist: A material which exhibits synergism. The joint action of different agents results in an effect greater than the sum of their separate effects.

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 vegetables, and NASS does not mean to imply the use of any specific trade name.

Class	Common Name	Trade Name
H	2,4-D	several
H	2,4-D, Dimethylamine Salt	Saber, Weed-B-Gon
I	abamectin	Agri-Mek
I	acephate	Orthene
H	acetic acid	Acetic acid
H	acetochlor	Harness, Surpass
F	agriphage	Agriphage
H	alachlor	Lasso
I	aldicarb	Temik
O	aluminum phosphide	Fumitoxin
H	ametryn	Evik
O	aminopyridine	Avitrol
I	amitraz	Mitac
O	ammonium soap	Hinder
F	AQ 10 biofungicide	AQ 10
F	anilazine	Dyrene
H	atrazine	AAtrex
I	azadirachtin	Align, Neemix, Margosan-o
I	azinphos-methyl	Guthion
F	azoxystrobin	Abound, Heritage, Quadris
F	Bacillus subtilus	Serenade
F	basic cupric zinc sulfate	Zinc Coposil Dust
F	basic copper sulfate	Top Cop, Tri-Basic
I	Beauveria bassiana	Mycotrol, Naturalis
H	benefin	Balan
F	benomyl	Benlate
H	bensulide	Betasan, Prefar
H	bentazon	Basagran, Laddok
O	benzyladenine	Accel
I	bifenthrin	Capture, Brigade
O	brodifacoum	several
H	bromacil	Hyvar
O	bromadiolone	several
H	bromoxynil	Brominal, Buctril
I	Bt (Bacillus thuringiensis)	several
I	buprofezin	Applaud
O	busan 881	K-Pam
O	butenic acid hydro.	Retain
H	butylate	Sutan, Sutazine
F	calcium polysulfide	several
O	capsaicin	Hot pepper wax
F	captafol	Difolatan
F	captan	Captan
I,O	carbaryl	Sevin, Savit
I	carbofuran	Furadan
I	carbophenothion	Trithion
F	carboxin	Vitavax
H	carfentrazone-ethyl	AIM
H	chloramben	Amiben
H	chlorimuron-ethyl	Canopy, Classic, Skirmish
O	chlorophacinone	Rozol

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Class :	Common Name	Trade Name
O	chloropicrin	several
F	chlorothalonil	Bravo
I	chlorpyrifos	Lorsban
O	cholecalciferol	Quintox
I,F	cinnamaldehyde	Cinnamite, Valero
H	clethodim	Select
I	clofentezine	Apollo
H	clomazone	Command, Commence
H	clopyralid	Reclaim, Stinger
F	copper (metallic)	Cop-O-Zinc
F	copper ammonium carb.	Copper-Count-N
F	copper chloride hydroxide	Copper Oxychloride
F	copper hydroxide	several
F	copper oxide	Nordox
F	copper oxychloride sulfate	C-O-C-S
F	copper oxychloride	Microsperse
F	copper resinate	Tenn-Cop
F	copper sulfate	Copper sulfate
I	cube resins, other	Fruit Tree Spray
F	cresol	Creolin
I	cryolite	Kryocide
O	cyanamid	Dormex
H	cyanazine	Bladex, Conquest, Extrazine
H	cycloate	Ro-Neet
I	cyfluthrin	Baythroid
I	cyhexatin	Pictran
I	cypermethrin	Ammo, Cymbush
F	cyprodinil	Switch, Vangard
I	cyromazine	Citation, Trigard
O	cytokinins	Foliar Triggrr, Promalin
H	DCPA	Dacthal
H	desmedipham	Betamix, Progress
H	diallate	Avadex
I	diazinon	several
H	dicamba	Banvel, Clarity, Trooper
H	dichlobenil	Casoron, Norosac
F	dichlone	Phygon
O	dichloropropene	Telone
H	diclofop-methyl	Hoelon
F	dicloran	Botran
I	dicofol	Kelthane
H	diethatyl-ethyl	Antor
H	difenzoquat	Avenge
I	diflubenzuron	Dimilin
H	dimethenamid	Frontier, Outlook
I	dimethoate	several
F	dimethomorph	Acrobat
F	dinocap	Karathane
O	diphacinone	Ramik
H	diquat	Diquat
I	disulfoton	Di-Syston
H	diuron	Karmex, Direx
O	DNOC	Elgetol
O	dodecanol	Isomate
F	dodine	Cyprex, Syllit
O	E,E-8, 10-dodecadien	Disrupt, Checkmate
O	E-8 dodecenyl acetate	Checkmate
I	emamectin benzoate	Denim, Proclaim
I	endosulfan	Thiodan

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Class	Common Name	Trade Name
H	EPTC	Eptam
I	esfenvalerate	Asana
H	ethalfluralin	Curbit, Sonalan
O	ethephon	Ethrel
I	ethion	Ethion
I	ethoprop	Mocap
I	ethyl parathion	several
O	farnesol	Stirrup
I	fenamiphos	Nemacur
F	fenarimol	Rubigan
F	fenbuconazole	RH-7592
I	fenbutatin-oxide	Vendex
F	fenhexamid	Elevate
I	fenoxycarb	Comply
I	fenpropathrin	Danitol
I	fenvalerate	several
F	ferbam	Carbamate
H	fluazifop-P-butyl	Fusilade
F	fludioxonil	Maxim, Switch
H	fluometuron	Cotoran, Flo-Met
H	fluroxypyr	Starane
I	fluvalinate	Spur, Mavrik
F	folpet	Folpet
H	fomesafen	Flexstar, Reflex
I	fonofos	Dyfonate, Tenax
O	formaldehyde	Formaldehyde
I	formetanate hydrochloride	Carzol
F	fosetyl-al	Aliette
O	GABA	Auxigro
O	garlic oil	Envirepel, Guardian
O	gibberellic acid	ProGibb, ProVide, GibGro, Promalin
O	gibberellins A4A7	Typy
O	gliocladium virens gl-21	Soilgard
H	glufosinate-ammonium	Ignite
F	glyodin	Glyodin
H	glyphosate	Roundup, Rattler
H	glyphosate, isopropy	Roundup PRO, Roundup Super Concentrate
O	gossyplure	No Mate, Stirrup
H	halosulfuron	Battalion
H	hexazinone	Velpar
I	hexythiazox	Savey
I	hydramethylnon	Amdro
O	hydrogen peroxide	Oxidate, Zerotol Algaecide
H	imazamox	Raptor
H	imazaquin	Scepter
H	imazethapyr	Passport, Pursuit
I	imidacloprid	Admire
O	indolebutyric acid	Hormex, Stimulate
F	iprodione	Rovral
H	isoxaben	Gallery, Snapshot
I	kaolin	Kaolin
F	kresoxim-methyl	Sovran
O	lactic acid	Propel
H	lactofen	Cobra, Stellar
I	lambda-cyhalothin	Karate
O	L-glutamic acid	Auxigro
I	lindane	Lindane
H	linuron	Linex, Lorox

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Class :	Common Name :	Trade Name
I	malathion	several
O	maleic hydrazide	Royal MH-30, Super Sprout Stop
F	mancozeb	several
F	maneb	several
H	MCPA	several
H	MCPB	Can-Trol, Thistrol
F	mefenoxam	Ridomil Gold
F	metalaxyl	Ridomil
O	metaldehyde	Metaldehyde
O	metam-sodium	Vapam
I	methamidophos	Monitor
I	methidathion	Supracide
I	methiocarb	Mesurol
I	methomyl	Lannate
I	methoxychlor	several
O	methyl anthranilate	Birdsheld, ReJek-it
O	methyl bromide	several
I	methyl parathion	several
F	metiram	Polyram
H	metolachlor	Dual, Bicep
I	metribuzin	Lexone, Sencor
I	mevinphos	Phosdrin
H	molinate	Ordram
H,O	monocarbamide dihydrogen sulfate	Enquik
H	MSMA	several
F	myclobutanil	Rally, Nova
I	Myrothecium verrucaria	Ditera
O	NAA	several
O	NAD	Amid-Thin
I	naled	Dibrom
H	napropamide	Devrinol
H	naptalam	Alanap
I	neem oil	Neemgard
I,F	neem oil, clarified hydrophobic	Trilogy
O	nerolidol	Stirrup M
H	nicosulfuron	Accent
H	norflurazon	Solicam
H	oryzalin	Surflan
I	oxamyl	Vydate
I	oxydemeton-methyl	Metasystox-R
H	oxyfluorfen	Goal
F	oxytetracycline	Mycoshield
I	oxythioquinox	Morestan
F	PCNB	Terraclor, Turfcide
O	paclobutrazol	Bonzi, Proturf
H	paraquat	Gramoxone
H	pebulate	Tillam
O	pelargonic acid	Thinnex Blossom Thinner
H	pendimethalin	Prowl
I	permethrin	Ambush, Pounce
I	petroleum distillate	several
H	phenmedipham	Betamix, Spin-Aid
I	phorate	Thimet
I	phosalone	Zolone
I	phosmet	Imidan
I	phosphamidon	Phosphamidon
H	Phytophthora palmivora	DeVine
I	piperonyl butoxide	Butacide, Incite
F	potassium bicarbonate	Kaligreen

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Class :	Common Name :	Trade Name
O	potassium gibberelate	Early Harvest
I	potassium salts	Safer Insecticidal Soap
H	primisulfuron	Beacon
H	prometryn	Caparol
H	pronamide	Kerb
H	propachlor	Ramrod
F	propamocarb hydrochloride	Banol, Tattoo
I	propargite	Comite, Omite
F	propiconazole	Banner, Orbit
H	prosulfuron	Peak
F	Pseudomonas fluores.	Frostban
I	pymetrozine	Endeavor, Fulfill
H	pyrazon	Pyramin
I	pyrethrins	Pyrethrins
I	pyridaben	Nexter, Pyramite
H	pyridate	Tough
I	pyriproxyfen	Knack
H	quizalofop-ethyl	Assure
H	rimsulfuron	Matrix, Shadeout
I	rotenone	Rotenone
I	ryania	Ryan
H	S-Metolachlor	Dual Magnum
I	sabadilla	Sabadilla
H	sethoxydim	Poast
I	silicon dioxide	Diatect
H	simazine	Princep
O	sodium chlorate	several
O	sodium tetrathiocarb	Enzone
I	soybean oil	Golden Natur'l Spray Oil
I	SPOD-X GH, SPOD-X LC	SPOD-X
I	spinosad	SpinTor, Success, Tracer
F	streptomycin	Agri-Strep
O	strychnine	several
H	sulfentrazone	Authority, Spartan
H	sulfosate	Touchdown
I,F	sulfur	several
F	tebuconazole	Folicur, Lynx
I	tebufenozide	Confirm
I	tebupirimphos	Aztec
I	tefluthrin	Fireban, Force
H	terbacil	Sinbar
I	terbufos	Counter
O	tetradecanol	Isomate
O	tetradecen-1-OL (Z)	Checkmate
O	tetradecen-1-y1 (E)	Checkmate TPWF, Nomate TPW
F	thiabendazole	Mertect
H	thiazopyr	Mandate
I	thiodicarb	Larvin
F	thiophanate-methyl	Topsin
F,O	thiram	Thiram
H	tralkoxydim	Achieve
I	tralomethrin	Scout, Stryker
F	triadimefon	Bayleton
H	triallate	Buckle, Far-Go
I	trichlorfon	Dylox, Proxol
F	Trichoderma harzianum	Plantshield, Rootshield
H	triclopyr	Triclopyr
O	tridecenyl acetate	Checkmate, NoMate
F	trifloxystrobin	Compass, Flint
F	triflumizole	Procure

--continued

Class	Common Name	Trade Name
H	trifluralin	Treflan
F	triforine	Funginex
F	triphenyltin hydroxide	several
H	vernolate	Vernam
F	vinclozolin	Ronilan
F	xylenol	Gallex
O	Z-8-dodecenyl acetate	Checkmate, Disrupt, Isomate
I	zeta-cypermethrin	Fury, Mustang
O	zinc phosphide	several
F	ziram	Ziram

Now I have some questions about pesticide and chemical applications to your vegetables before harvest. Please consider all applications made since the harvest of crops grown immediately before

1. Since last year's (1999) harvest, did you use **herbicides** on any of your vegetable acreage? . . . . . ☐ **YES** ☐ **NO**

2. Since last year's (1999) harvest, did you use **insecticides, nematicides or miticides** on any of your vegetable acreage? . . . . . ☐ **YES** ☐ **NO**

3. Did you use **fungicides** on any of your vegetable acreage since last year's (1999) harvest? . . . . . ☐ **YES** ☐ **NO**

4. Did you use any other chemicals such as growth regulators, soil fumigants, chemical thinners, microbial agents, rodenticides, etc. on any of your vegetable acreage since last year's (1999) harvest? . . . . . ☐ **YES** ☐ **NO**

5. [**ENUMERATOR ACTION:** *Are items 1 - 4 all NO*?]

☐ **YES** - [*Go to Conclusion, page 16*.] ☐ **NO** -[*Go to item 6, on next page*.]

	OFFICE USE LINES IN TABLE	T-TYPE 3	TABLE 001	LINE 99	399

NOTES:	LINE	1 CROP	2 CROP CODE	3 **What product(s) was applied to the** [*crop*]**?** [*Enter product code.*]	4 **Was this product bought in liquid or dry form?** [*Enter L or D.*]	5 [*Enter line number of first product in the tank mix.*]
	01		301	302		304
	02		301	302		304
	03		301	302		304
	04		301	302		304
	05		301	302		304
	06		301	302		304
	07		301	302		304
	08		301	302		304
	09		301	302		304
	10		301	302		304

For pesticides not listed on card, specify

Line #	Pesticide Type (*Herb., Insect., Fung., etc.)*	Tradename & Formulation	Form Purchased (*Liquid or Dry)*	EPA Number
_____	_____	_____	_____	_____

6. Now I need to get complete information on all of the chemicals you applied during the 2000 crop year to each of the target vegetables you grew. Let's start with the first application to your [*crop*].
[*Complete the tables for all chemical applications to the target vegetables. Use supplemental tables if necessary. Exclude seed treatments, foliar applications of nutrients, and applications made to vegetables after harvest.*]

CODES FOR COLUMN 8	
1 POUNDS	30 GRAMS
12 GALLONS	40 KILOGRAMS
13 QUARTS	41 LITERS
14 PINTS	46 SPIRALS
15 OUNCES	47 PACKETS
	50 OTHER (*Specify* _____)

CLASS	ABBREV.	CODE SERIES
INSECTICIDES	I	1000's
HERBICIDES	H	4000's
FUNGICIDES	F	7000's
OTHER	M, MG, MS	9000's

LINE	6 O How much was applied per acre per application?	6 O What was the total amount applied per application?	8 [*Enter unit code from above.*]	9 How many acres were treated with this product? (*Include only bearing acres.*) ACRES	10 How many times was it applied? NUMBER
01	305	306	307	308	310
02	305	306	307	308	310
03	305	306	307	308	310
04	305	306	307	308	310
05	305	306	307	308	310
06	305	306	307	308	310
07	305	306	307	308	310
08	305	306	307	308	310
09	305	306	307	308	310
10	305 . __ __	306 . __ __	307	308 . ___	310

For pesticides not listed on card, specify

Line #	Pesticide Type	Tradename & Formulation (*Herb., Insect., Fung., etc.)*	Form Purchased (*Liquid or Dry)*	EPA Number
_____	_____	_____	_____	_____

Report Features

Released July 18, 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 will be released October 3, 2001. This report will cover agricultural chemical use of restricted use pesticides for the 2000 crop year for field crops, vegetables and sheep in major states.

Listed below are persons within the National Agricultural Statistics Service to contact for additional information.

Mark Aitken, Environmental Statistician	(202) 720-9525
Norman Bennett, Head, Environmental and Demographics Section	(202) 720-0684
Linda Hutton, Chief, Environmental, Economics and Demographics Branch	(202) 720-6146

The next "Agricultural Chemical Usage" report for fruit crops will be released in July 2002. This report will cover agricultural chemical use for the 2001 crop year for major states.

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